

REGISTRY INFORMATION SYSTEM OF THE LOCAL CIVIL REGISTRAR
OFFICE IN THE MUNICIPALITY OF SIERRA BULLONES, BOHOL

College of Technology and Allied Sciences
BOHOL ISLAND STATE UNIVERSITY
Zamora, Bilar, Bohol

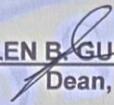
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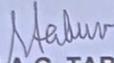
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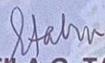
This thesis entitled "Registry Information System of The Local Civil Registrar Office in the Municipality of Sierra Bullones, Bohol" prepared and submitted by *Mary Grace M. Duran, Joan E. Asares, Nikki C. Jalop and Rea Mae T. Blaza* in partial fulfillment of the requirements for the degree Bachelor of Science in Computer Science has been examined and recommended for acceptance and approval for oral defense.

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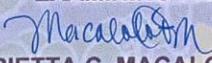

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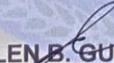

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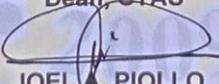

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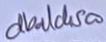
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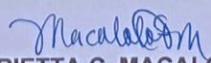

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ABSTRACT

The purpose of the study was to develop a database of the Registry Information System of the Local Civil Registrar Office (LCRO) in the municipality of Sierra Bullones, Bohol. Specifically, it sought to find out the operations and processes in recording, retrieval, storage, and security measure implemented in preserving records and editing official documents of the unit. This system designed for computerized tasks and requires a database system that would handle the stored information. The respondents of the study were the head of office personnel and the office staffs. In order to come up with the design and development, data were gathered through interviews with guide questions for the respondent. Findings revealed that there was a limitation in the manual operation of updating records as well as the procedure of issuance of services. The process involved the development of the system; ensured that the system is user-friendly, promoted the automated generation of reports, and prevented the occurrence of unauthorized access. Based on the findings of the study, the respondents "agree" that the system indicates achievement of individual's expectation, particularly on the quality attributes and features such as user-friendly, visual clarity, and its application. The implementation of the developed system was highly recommended to promote efficient and better record management.

Chapter 1

THE PROBLEM AND ITS SCOPE

Rationale

Civil Registration is the continuous, permanent, compulsory recording of the occurrence and characteristics of vital events as these have been defined and as provided through decree or regulation, in accordance with the legal requirements in each country as defined in the Manual of Civil Registration. It is done primarily for the value of these important records as legal documents, and secondary for their usefulness as sources of statistics. The recording in the corresponding register of birth, death, marriage, and other legal instrument affecting the civil status of a person is the responsibility of the local registrar of the place where the event occurred or where the degree was issued.

In the Philippines, Record Management System in most municipalities and cities has been changed from a manual to an automated system. Paperless transaction mode had been encouraged to be implemented in government transactions. The Local Civil Registrar of Sierra Bullones, one of the municipalities in the province of Bohol, keeps records of all the residents in Sierra Bullones, Bohol manually. Important records such as birth certificates, marriage certificates, and death certificates were stored in the filing cabinet.

The Local Civil Registrar staff spends most of his/her time searching for every requester's information. This means that unsystematic retrieval of records cause delay in searching for very important and frequently requested documents.

Once searched, entries added or deleted from these documents are prone to errors and are done slowly or hurriedly by the office staff. Staff are concerned about the security of their records since paper documents are much more susceptible to privacy and security risks for these documents are also susceptible to natural or man-made disasters. The unit had envision of adopting computerization and maintaining electronic data to make the process efficient and to saves time for searching the files.

With the observations made, the researchers opt to create a new system that helps an organization boost up the office staff's workflow. It helps the staff in working effectively and efficiently for it is accurate, reliable, safe, and secured. It can also print certificates speedily. Hence, this study.

Literature Background

Legally, the Local Civil Registrar Office (LCR) is abiding with the Sec.1 of Act no. 3753 which states that Civil Register is established for recording the civil status of persons, in which shall be entered: births, deaths, marriages, annulments of marriages, divorces, legitimations, adoptions, acknowledgment of natural children, naturalization and changes of name in appropriate registers.

According to this article, it is a fundamental responsibility carried out by the state through its citizens and qualified authorities whose collective reports become official records from which important milestones in a person's life is documented.

The Civil Register in the Philippines was formally created through Act No. 3753, which took effect on February 27, 1931. Throughout the decades, several pieces of legislation were passed in order to strengthen and develop the existing system in our country.

Civil Registrar General ruling on the issuance of certificate was covered in the Office Memorandum No. 2017-050 in support of Republic Act no.10173, otherwise known as the "Data Privacy Act of 2012" Certificate of marriage, Certificate of death, Certificate of no. marriage (CENOMAR) and advisory on marriage can only be issued by:

1. The person himself, or through a duly authorized representative;
2. His spouse, his parents, his direct descendants or the guardian or institution legally in charge of him if he is a minor;
3. The court or proper public official whenever absolutely necessary in administrative, judicial or other official proceedings to determine the identity of the child's parents or other circumstances surrounding his birth;
4. In case of the person's death, the nearest of kin.

Valid ID is required upon claiming per PSA Memorandum Circular No. 2019-16 in compliance with Rule IV of the Implementing Rules and Regulations of the Republic Act 10173 (Data Privacy Act of 2012) effective July 01, 2019.

In addition, Section 4.of the Civil Register Books states that the local registrars maintain and preserve in their offices the records concerning the civil status of persons birth and death register, marriage register, in which shall be entered not only the marriages solemnized but also divorces and dissolved

marriages, legitimation, acknowledgment, adoption, change of name, and naturalization register.

On the 14th of June 2000, Pres. Joseph E. Estrada signed into law R.A. 8792 "An Act providing for the Recognition and use of Electronic Commercial and Non-Commercial Transactions, Penalties for Unlawful use thereof, and other purposes, also known as the "Electronic Commerce Act.", The act declared the recognition of the state in its vital role of information and communications technology (ICT) in nation building. This constitutes the legality of the utilization of "electronic data message", "electronic signature" and "electronic document" (Philippine Gazette), 2000).

Theoretically, Record Management System, as defined by Saffady (2004), is a specialized business discipline concerned with the systematic analysis and control of recorded information, which includes any and all information created, received, maintained, or used by an organization in accordance with its mission, operations, and activities by definition, records contain information that is 'written down as opposed to merely memorized or exchanged verbally. It is any sort of business or organization that automatically creates records, no matter what its purpose is.

He pointed out that the profession has undergone multiple "refinements" since its birth, partly to do with evolving the understanding of the principles of records management and partly due to evolving formats of said records.

The article written by Bridges (2005) entitled “State Record Laws and the Preservation of an Archival Record,” states that the management of public records is becoming an increasingly challenging task. Expanding government services have created new classes and massive quantities of records. New technologies for recording and communicating information employ different tools. Current regulations and methods for the management of modern government data are overwhelming. Electronic information environment; and systematic long-term record preservation can be the consequence of conscious decisions and efforts for responsible building, and operating information systems should cover what documentary records will be produced and take actions to ensure that they are produced and kept. To ensure the preservation of a documentary record, state laws defining the rules and methods for keeping public records should be reviewed and updated.

The Society of American Archivists (2005), defines Archives Management as the systematic and administrative control of records throughout their life cycle to ensure efficiency and economy in their creation, use, handling, control, and maintenance. Records management is defined as the systematic and administrative control of records throughout their life cycle to ensure efficiency and economy in their creation, use, handling, control, and maintenance. Records management covers the storing and maintenance of record practices.

On the other hand, Johnson (2005) found that Electronic Records can be viewed by many people at the same time. This had benefited some people, in

terms of access. Users from different places discussed the same record and used the same record for different purpose/s.

The theory and concept of Edgar F. Codd cover the process of simplifying the design of a database so that it achieves the optimum structures. This gives the concept of standard forms to assist in achieving the optimum structure. The normal forms are a linear progression of rules that were used to apply in the database, which each higher standard achieving a better, more efficient design (Codd, 1985).

To provide precise and reliable monitoring and recording system there are numbers of related technique that were used as references which was executed in different organization and institutions. Among these are the significant studies of the following:

Design and Implementation of an Improved Electronic Document Management System,” by Ajala (2015), discussed the challenges Nigeria organizations faced which included embezzlement, fraud, misappropriation, and mismanagement can be checkmated if there was proper and secure documentation of all documents. It focused on the design and Implementation of an Improved Document Management System for Oyo State Housing Corporation with special emphasis on security and space management. The Waterfall design model was adopted as the model and three-tier architecture was used in the design of this work. Hypertext Markup Language (HTML), Cascade Style Sheet (CSS), Javascript, and JQuery were used for the codes at the Client-server side,

Hypertext Pre-processor (PHP) was used on the Server-side scripting and MySQL was used at the Data Server side in the work.

A two-week user evaluation of the system showed interesting usage scenarios and future trends for improving user interaction. The work made it easier for organizations to find document, securely store document, share document without stress. Considering the immense benefit this work holds, it is important for all organizations to key into this work as a means of securely documenting its documents (Ajala, 2015).

A Study of Electronic Records Management in the Namibian Public Service in the Context of E-Government,” aimed at answering questions related to electronic records in Namibia (Mulindwa, 2015). The study was a multi-case study of seven Ministries, two Local Authorities and two Regional Councils. The methodology used was a qualitative approach, employing interviews, document search and observation to collect data. The units of analysis comprised the institutions studied as well as the respondents using purposive and accidental sampling methods.

The data was analyzed manually using content analysis and presented in descriptive narrative with some illustrative tables and figures. The study showed that e-government in the Public Service of Namibia, is in the initial phase of implementation and has led to an increase in the creation of electronic records. The study recommended an integrated records management program for the Public Service of Namibia to improve the electronic records environment. Such a program would promote records management awareness; determine resource

requirements; review the legal and regulatory framework; review records management standards and procedures; develop and maintain records centers; manage archives; implement an electronic records management system; and ensure the sustainability of the program through staff training and regular monitoring and evaluation. (Mulindura, 2015).

A study on “Automated Real Property Tax Declaration of the Assessor’s Office of the Municipality of Victoria, Laguna” and developed an Automated Real Property Tax Declaration System for the Municipality of Victoria, Laguna to help the Assessor’s and the Treasurer’s offices was conducted by Manjares (2015). The main functions included were finding of tax payers’ records easily, adding records, transferring of property, deleting and updating records, managing of monthly reports, and connecting the assessor’s office to the treasurer’s office in terms of payments.

The researchers used the Iterative Life Cycle Model as their software methodology for the development of the system. Using simple total enumeration, the proponents tested and evaluated the system by conducting a survey using a five-point Likert Scale questionnaire. Results indicated average ratings in all the criteria specified, which means acceptable. Using the system made the work of the employees in the assessor’s and the treasurer’s offices easier. The researchers thus recommended the implementation of the system. (Manjares, 2015)

Barangay Civil Registration System (BCRS): was first developed by NSO’s Region 10 office in 1992. The BCRS facilitates civil registration by

providing Barangay officials with an information system to record and manage demographic and biographic information about residents by household. It requires Barangay officials to actively visit households and interview individuals and families about the possible occurrence of births, deaths and marriages and inquire if those vital events have been registered with the LCR (1992).

The Computerized Registry System of Immaculate Conception Parish of Sierra Bullones, Bohol" covers the automatic received recording, retrieving, evaluating of parishioners information and editing documents such as Baptismal, Confirmation, Holy Matrimony and Burial. The system provides a database could easily search all of the records by name, date of birth or date of baptism. (Atup, Ayag & Jorillo 2013).

The researchers believed that the legal bases related literature and studies served as bases in the creation of the Registry Information System of the Local Civil Registrar Office (LCR) in the Municipality of Sierra Bullones, Bohol.

THE PROBLEM

Statement of the Problem

The study aimed to develop a Registry Information System in the Local Civil Registrar Office (LCR) of the municipality of Sierra Bullones, Bohol.

The goal of the study was to find answers to the following questions:

1. What are the operations and processes in keeping and monitoring of records in the local civil registrar?
2. What are the problems and needs encountered in the local civil registrar office in the municipality of Sierra Bullones in recording and tracing records?
3. What program can be proposed to solve the identified problem?
4. What is the level of the system acceptability as perceived by the target client?

Scope and Delimitation

This research was carried out at the Municipality of Sierra Bullones Local Civil Registrar Office (LCR). It focused on the computerization of the registration and tracing of records in order to have a faster and more efficient way of recording and retrieving data. The said system was expected to improve the current system's services and to ensure that the system is user friendly to the client and capable of producing a monthly transaction report in a short amount of time, as

well as to prevent an unauthorized person from accessing the data. Specifically, the system's development covered the following features:

1. **Recording:** This module provides records of the personal data given. The Recording of the acquired data gathered by performing services such as Birth, Death and Marriage certificate.
2. **Claiming.** This feature helps the office head or staff to trace easily the information of the claimants from their records.
3. **Reporting:** It provides printable data such as monthly accomplishment reports. It also generates graphical information on total registry of birth, death, and marriage certifications of a claim for any services acquired and other reports generated in the system.
4. **Data Management.** This feature covers updating of the information and monitoring of the data. Further, it also helps in quick tracing of client's information.

Significance of the Study

The study of the Registry Information System of Local Civil Registrar Office (LCR) in the municipality of Sierra Bullones, Bohol aimed to develop a repository of all data related to the registrant's and claimant's information. To smoothen and make the office services faster, computerized information would provide accurate and reliable access to the information of the registrants and claimants.

Moreover, the study would benefit the following:

Head Office. Being the head of the office, the systemized registration will be very useful to help easily establish the legal documents required by law. The proposed system would provide him/her easy and fast retrieval and generation of reports he/she needed.

Staff. Being one of the responsible in-charge of the registry of the municipality, for the help they might need, this study would abounded with sufficient easy methods ensuring the accuracy and completeness of each registrant's record.

Claimants. The study benefits to the claimants on their way in requesting documents and certification. This systemized registry will help them to have faster transactions and take them a shorter time to wait the process of receiving their certification and that they would never get bored on waiting.

Registrants. This study would be very beneficial to the registrants on registering their personal information to the registry office. Through the use of this systemized registry, it would be very easy to input their information's in an organized and efficient manner with high security of retrieval and success.

Researchers. Being a novice for this kind of topic is a challenge for the upcoming programmers like the researchers. So, this will be an instrument that will guide and navigate them in discovering credible, reliable and tantamount factors that would develop their reasoning skills and analytical skills in the field of programming and designing. Indeed, this study is going to be the chief source of enlightenment that they will surely need in their future endeavors.

RESEARCH METHODOLOGY

Development Framework

Figure 1 shows the conceptual diagram of the study. This depicts the method, approach, and set of rules for analyzing the principles that guide investigation in a specific topic. The system displays the model of the study that follows the principle of input-process-output. The inputs are coming from the administration of the system. The office head and staff will be the one to send or input into the database or server application. The process includes recording and tracing depending to the service that the registrants and claimants want to avail.

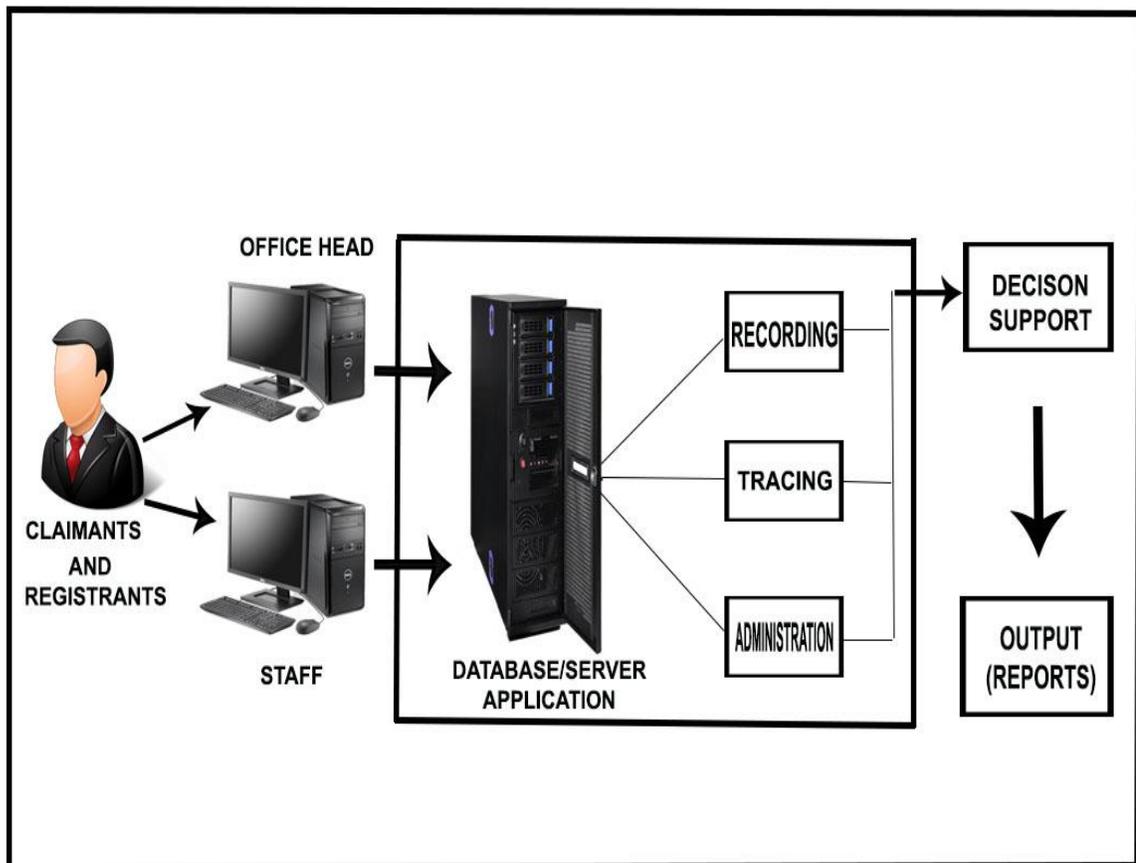


Figure 1 Conceptual Diagram of the Study

Block Diagram

Figure 2 shows the block diagram of the Registry Information System of the Local Civil Registrar Office (LCR) in the municipality of Sierra Bullones, Bohol. It shows the system's output, which demonstrated how the data was being processed to gain better result. It covers the specification of the basic functionality of the system that represented the work of the Head of Office, Staff, and Clients.

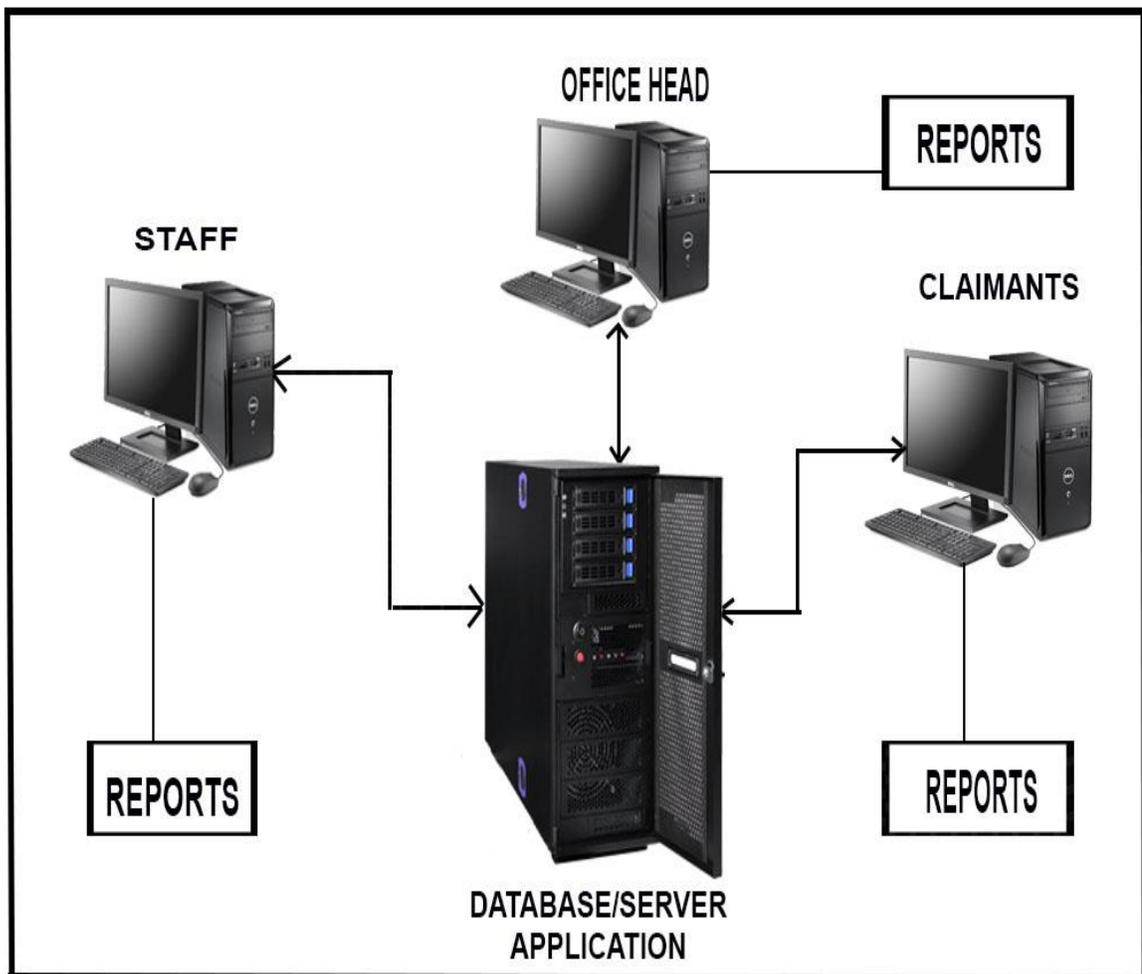


Figure 2. Block Diagram of the Study

Development Model and Approach

The study used Rapid Application Development (RAD) and had four phases to be followed. During the stage of analysis and design the Researchers, clients, and team members cooperates to identify the development's goals and aspirations, as well to address the current and potential problems that might be encountered during the development of the system were personal interviews to the concerned respondents were done. To gather sufficient information in designing the system, document review and observation of procedures were done specifically in the monitoring, and registration of reports.

The prototype cycle was covered in the second stage. Through several prototype iterations, the developer fully worked out the user design. The researchers presented the system to the office head and staff to ensure that the needs were met at every stage of the design process, including reviewing the system's usability and functionality to see if it follows the procedures, and suggesting additional add-ins and recommendations that were tweaked until the expectations and satisfactions were met.

The testing phase followed extensive prototyping and cutting-edged design was the third stage. The Registry Information System was presented to the office head and staff to ensure that everything was running smoothly and that the clientele's expectation and goals were met. For the system's usability test the developers provide guide questions to the respondents.

The final stage was implementation. In this stage, the completed program was launched. Office head and staff were allowed to use and try the newly developed system. Data conversion, final tests, and user training application were all done by the developers. While the developers and clients continue to look for bugs and potential problems that need to be addressed immediately, the finalization was completed. (Singh, 2019)

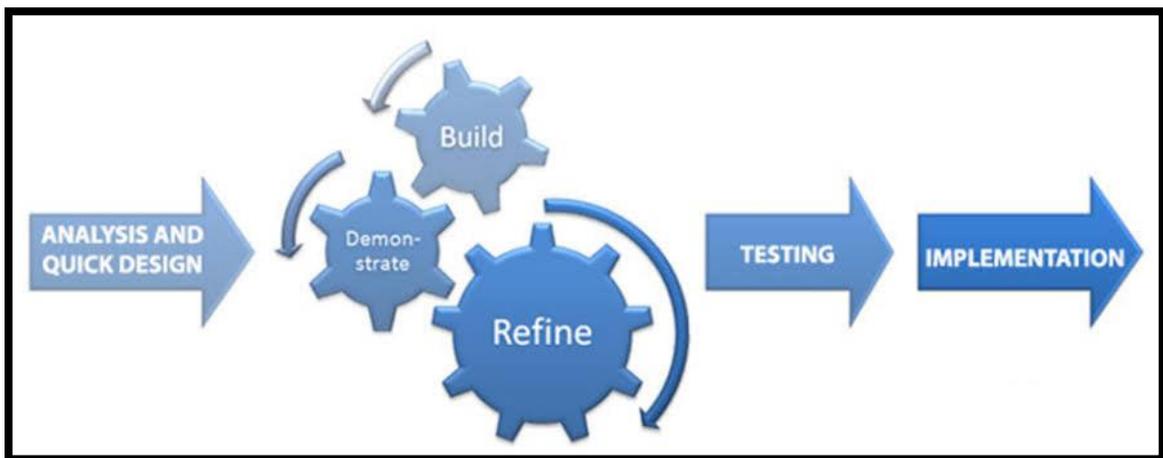


Figure 3. Rapid Application Development Model (RAD) Diagram

Source: Ankita Singh (2019), <https://blog.capterra.com/what-is-rapid-application/>

The following were the tools used in the development and analysis phase of the Registry Information System of Local Civil Registrar Office (LCR) In the Municipality of Sierra Bullones, Bohol.

Visual Basic. Net – The IDE used to developed the system from scratch to a complied application, this VB.Net is designed to help you create type-safe, object-oriented applications quickly. Visual Basic allows developers to create applications for Windows, the Web, and mobile devices. Microsoft established

and developed this well-known programming language. Visual Basic is distinguished by its straightforward, easy-to-understand format.

WAMP- It used in the developed system for online viewing and database management, since it is a Windows web development environment tool that enables you to create web applications using Apache, PHP, and MySQL databases.

Adobe Photoshop CS6- is an image editing software that is going to be used in creating cohesive layout and theme for the proposed system.

Crystal Report- It is used in the system develop for generating and printing reports.

Environment and Participants

The study was conducted at the Local Civil Registry Office in the Municipality of Sierra Bullones, Bohol. The study's participant was the Office Head who had full access to the system and would use it to perform tasks such as registering client's information of births, deaths and marriage. The final set of participants were the office head and staffs, who have mid-level access to the system and would record all clients information, update some details of clients such as name, surname, contact number, address. These participants were personally interviewed by the researchers to gather the exact data needed in the study.

Data Collection

The researchers conducted a personal visit to the local civil registrar (LCR) to obtain authorization to conduct research through a letter request. Personal interviews were conducted utilizing the guide questions given to identified personnel. The researchers asked the office head series of questions, including the drawbacks of utilizing a manual system to record information and document flow in record management. Actual participation was taken, as well as an observation of the activities flow, in order to acquire more data and information for the study.

The system usability testing survey with the target client was used to access results of the functionality. It was done in order to determine the system's effectiveness. The system usability survey has 10 participants which includes: the office head and 2 staff. The claimants were also included.

Table 1

Distribution of Respondents in the System Usability Assessment

Respondents	Frequency
Office head of LCR	1
Staff	2
IT Experts	2
Total	5

Table 2 demonstrates how the data were interpreted for system usability. The System Usability Guidelines developed by MIT Information Services Technology were used to rate the system usability.

Table 2

Interpretation Guide of the System Usability

Weight	Range	Description	Interpretation
7	6.4 – 7.0	Strongly Agree	The respondents are convinced that the system is extremely user friendly.
6	5.5 – 6.3	Agree	The respondents strongly believe and are certain that the system is very useful
5	4.6 – 5.4	Tend to Agree	The respondents tend to agree that the system is usable.
4	3.7 – 4.5	Neither Agree or Disagree	The respondents are neutral whether or not the system is usable.
3	2.8 – 3.6	Tend to Agree	The respondents had a low level of confidence in the system usability.
2	1.9 – 2.7	Disagree	The respondents believe that the system is not usable
1	1.0 – 1.8	Strongly Disagree	The respondents strongly confident that the system is not usable.

The average weighted mean or the weighted mean score was produced to evaluate/assess the system acceptability level using the following formula to estimate the general acceptability of the system.

$$WMS = \frac{1f1 + 2f2 + 3f3 + 4f4 + 5f5}{n}$$

Where:

WMS=Weighted Mean Score
f1 = frequency of respondents given a rate of 1
f2 = frequency of respondents given a rate of 2
f3 = frequency of respondents given a rate of 3
f4 = frequency of respondents given a rate of 4
f5 = frequency of respondents given a rate of 5
n = total number of respondents
1, 2...5 = constant (rating to the service provided)

The interval value was used to calculate the range of the interpretative guide for usability. The interpretative guide that was used to characterize the system usability is shown in the table.

OPERATIONAL DEFINITION OF TERMS

In the course of this research, the following terms are defined conceptually:

Certificates. It refers to the services offered in LCR office such as Birth Certificate, Death Certificate and Marriage Certificate.

Civil Register. It is a book filed, kept and preserved in a secure place where the local civil registrar makes the proper entries affecting the civil status of person.

Civil Registrar. The continuous, permanent, and compulsory recording of the occurrence and characteristics of the vital events as defined and as provided through decree or regulation in accordance with the legal requirements in each country.

Claimants. This refers to an authorized person who has requested certification documents and has already paid the required amount.

Database. It is a computer application that stores and access data from a computer system. Where databases are more complicated, formal design and modeling techniques are frequently used.

Office Head. The personnel in charge of transactions for checking of the Official receipt, keeping the record and preparing certificates of all people registered in Sierra Bullones.

Records. It refers to records retained as a reference for claim transactions having birth certificate, death certificate and marriage certificate and other relevant paper.

Registrant. It refers to the Individual who will submit personal data for Birth, Death, and Marriage.

Registry System. The systematic way of recording transactions this includes birth, marriage and death. It also includes the generation of certificates.

Chapter 2

PRESENTATION OF FINDINGS, ANALYSIS, AND INTERPRETATION

Existing Operation and Processes

The Local Civil Registrar (LCR) is one of the departments of LGU in Sierra Bullones responsible for keeping and retrieving records. The office LCR is composed of the office head and two staffs who are accountable for recording and keeping the individual record. The office is still using the manual process of recording and tracking the information on claimants. These are the following present processes that takes place.

A. Inquiry Process

In inquiring about the services of the Local Civil Registrar Office (LCR) the claimants will go to the office for queries regarding the services. At present, the inquiry procedure is time-consuming in tracing the records manually. The inquiry will take place in accordance with their needs. The common inquiries are as follows:

- a. Prices and availability of services offered as well as the duration of preparation are posted on the bulletin board found beside the office
- b. Inquiry on the availability of the requested certificate. The claimant shall give the Official Receipt as proof of payment bearing the name of the requested document. The staff shall review the certificate folder to check if the certificate is ready.

- c. Inquiry of the requirements in accordance with the needs of claimants.

B. Request for Certificates

The Civil Registry System requires the registration in their appropriate data sheet concerning the personal information of the registrants and claimants from birth, death, to marriage. The clients shall get first an application form or blank data sheet to be filled out located at the LCR office. After filling out, the clients will proceed to line up, then pay fees to the treasurer's office and then go into the releasing window for confirming or releasing certificates.

C. Registration Process

The registrants will be given a blank sheet to be filled out with their personal information. The filled-out application form will be stored in the file cabinet. All data gathered will be directly written in the registry book.

D. Generation of Reports

The submission of the monthly accomplishment report of transactions are required. The data will be taken from the registry book as to the population count of new registrants per service category.

Data Flow Diagram

Data Flow Diagram is a graphical representation of the "flow" of data through an information system modeling its process aspects. Data Flow Diagram is often used as a preliminary step to create an overview of the system.

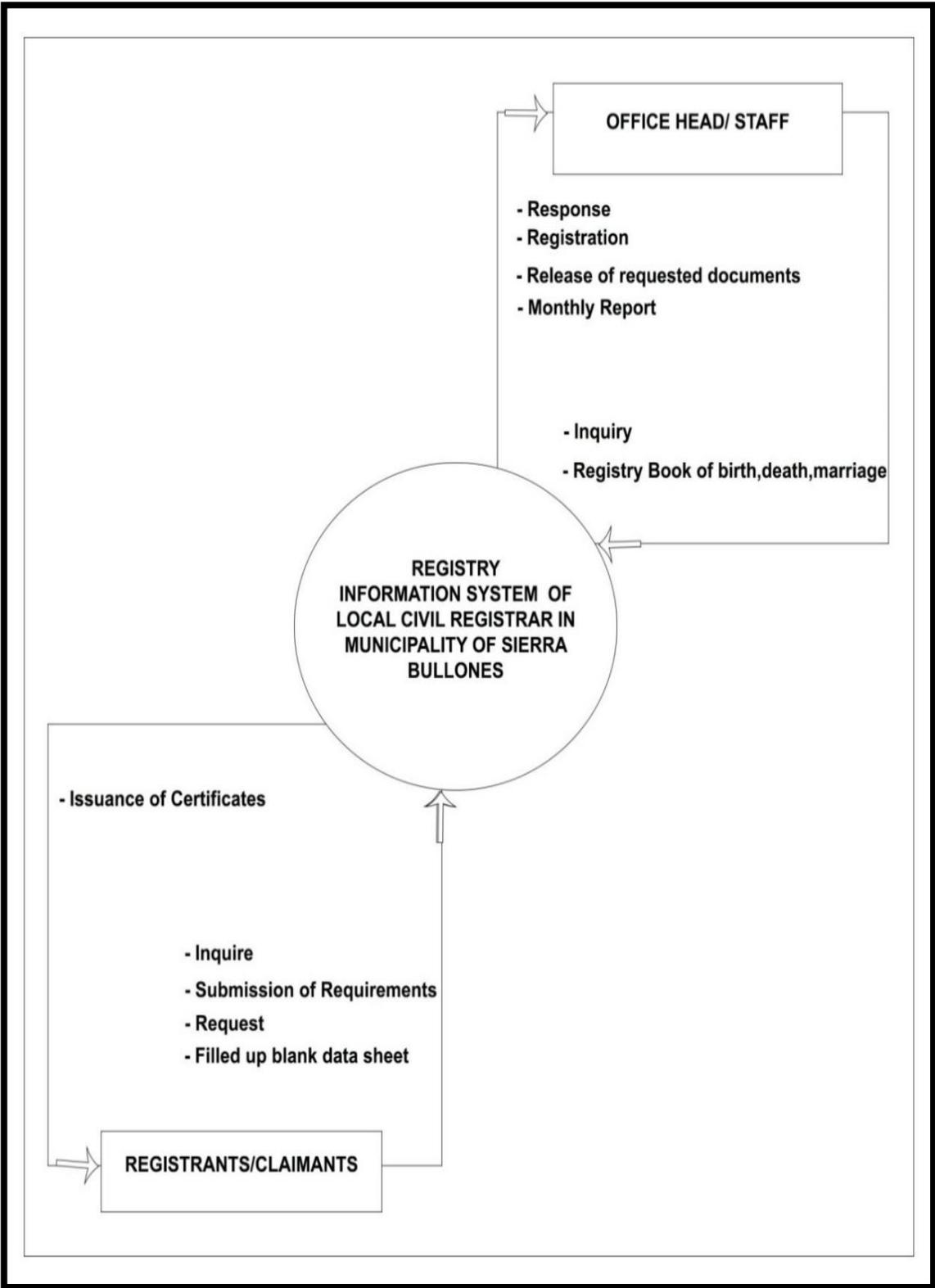


Figure 4. Context Diagram of the Present System

EVENT SPECIFICATIONS

Event List

1. Inquiry Process
2. Request for Certificates (Birth, Death and Marriage)
3. Registration Process
4. Generation of Reports

EVENT LIST DIAGRAMS

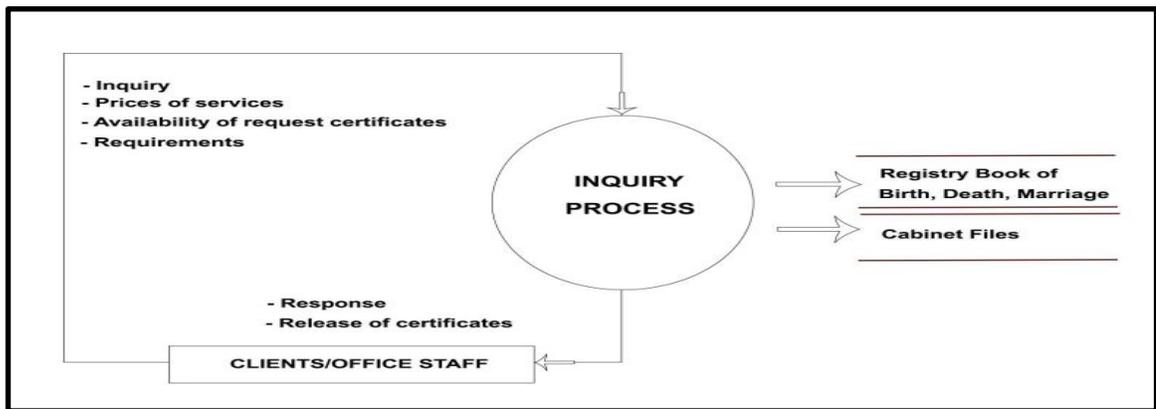


Figure 5. Inquiry Process (Event 1)

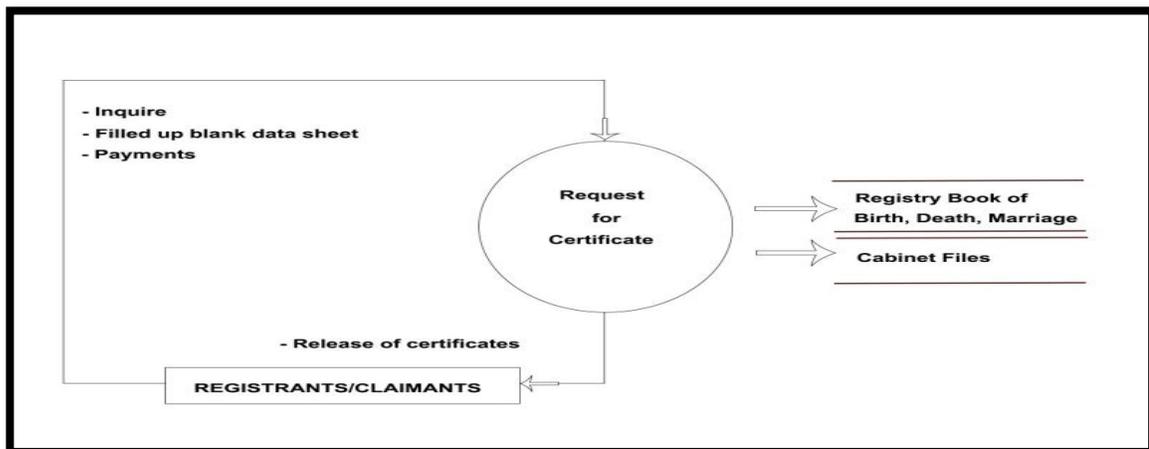


Figure 6. Request for Certificates (Event 2)

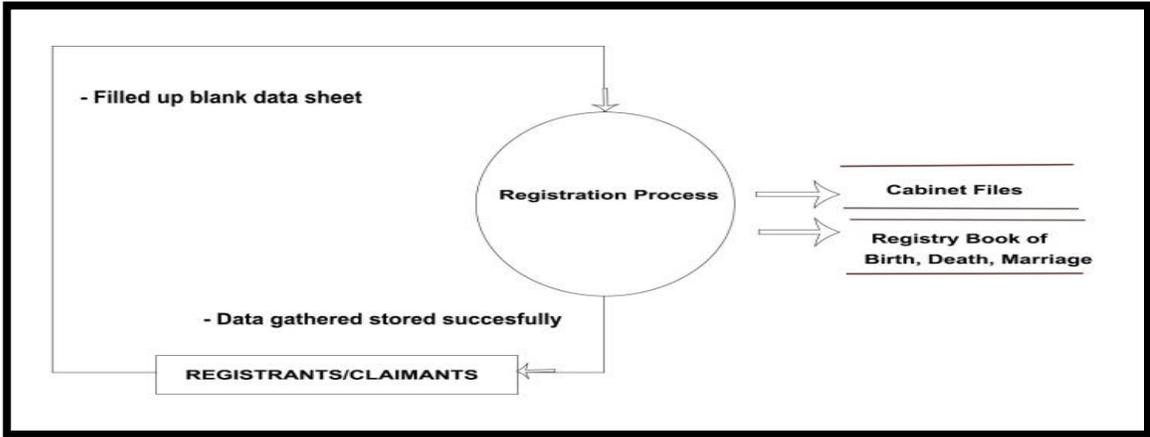


Figure 7. Registration Process (Event 3)

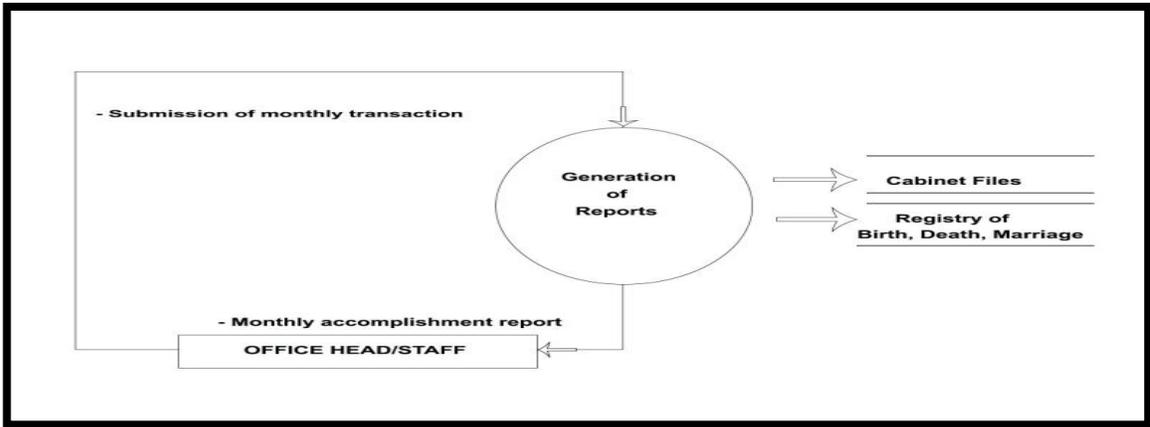


Figure 8. Generation Report (Event 4)

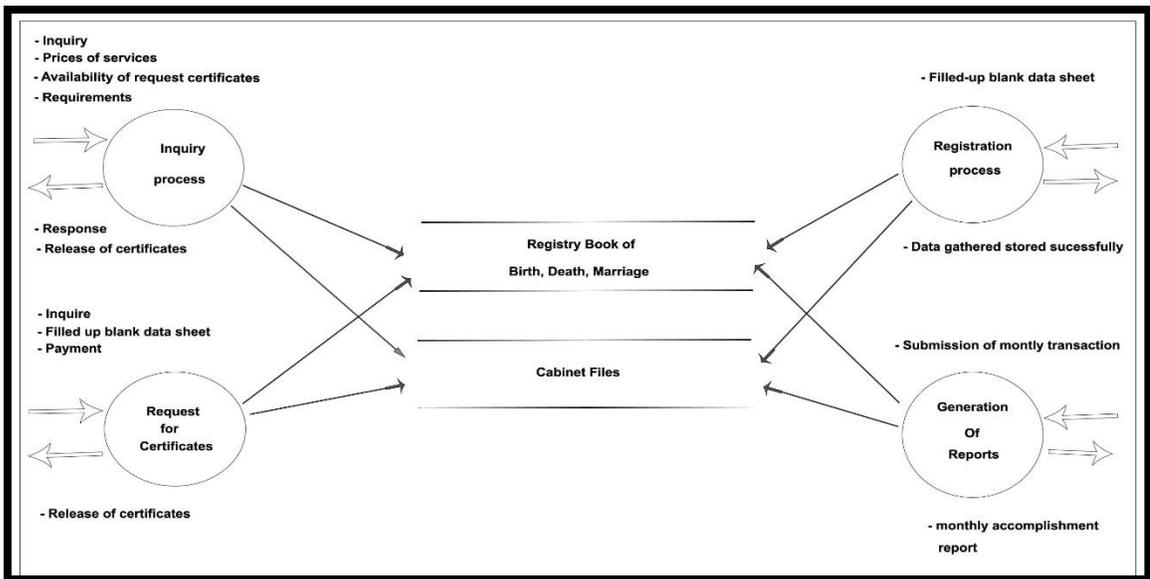


Figure 9. Level of Present System

Needs of the Present System

The following are the needs of the Registry Information System of the Local Civil Registrar in the Municipality of Sierra Bullones, Bohol:

1. Improve data storage to prevent loss and misplacement of all the important documents of the system.
2. Improve the search and retrieval process.
3. Provide an organized system to manage client's important records, and provides faster transactions and reduce processing time when retrieving client's records, as well as to avoid confusion and make it easier to generate reports in a timely and efficient manner.

Registry Information System of Local Civil Registrar in the Municipality of Sierra Bullones, Bohol

The researchers gathered all of the data and information with regards to the present system and developed the Registry Information System of Local Civil Registrar in the Municipality of Sierra Bullones Bohol. It is a computerized system that processes clients and claimants transactions, records their registration, traces the client's records, confirms the certification, and provides the needed reports required by the system.

Inquiry Process

In inquiring about the services of the Local Civil Registrar in the Municipality of Sierra Bullones Bohol, the claimants will go to the office for query

regarding the services they would like to avail, such as: Registration and Tracing the records when claiming the Certification of Birth, Death and Marriage. The clients/claimants will ask for requirements and application forms upon applying for services and filled out the blank data sheet. The client/claimants will approach and submit a document to the staff and automatically the staff will provide what services they needed using the developed system.

Request for Certificate

In order to have proper register and tracing of all transactions, the office staff must record all the important data to be transmitted to the system. In recording transactions, every detail from the registrants or claimants should be properly recorded into the registry book.

Registration Process

Every transaction will be stored in the system and has its registry number that contains personal information which will be automatically stored in the database. The office staffs will accommodate the clients in accordance to their needs, including the tracing records and claiming of certificates. All submitted documents by the clients/claimants will be stored, recorded or trace in the transaction folder in the system.

Report Generation

The registrants and claimants information system reports will be generated to determine the total number of registered deaths, birth and marriage.

For registrants or claimant's module, it will generate graphical reports in each category such as birth, death and marriage. In the transaction of birth, graphical reports are done by recording registry number, date of registration, name of child, sex, date of birth, place of birth, name of mother, citizenship of mother, name of father, citizenship of father, date of marriage of parents, place of marriage of parents. In the death transaction, the report is done by recording the registry number, date of registration, name of the deceased, sex, age, civil status, citizenship, date of death, place of death, cause of death. On the other hand, the graphical report of the marriage transaction is done by recording the name, age, citizenship, civil status, name of father, name of mother, register number, date of registration, and date of marriage and place of marriage of the registrants.

Generation of reports of the clients/claimants will be taken from the information stored in the system. Transactions done will be reported through submission of the monthly accomplishment report.

Use Case Diagram

Use case diagrams are usually referred to as behavior diagrams used to describe a set of actions (use cases) that any system or systems (subject) should or can perform in collaboration with one or more external users of the system (actors). A use case represents the functionality of the system from the viewpoint of the user and describes the goals of the user. Each use case should provide some visibility and valuable result to the actors or other stakeholders of the

system. As shown in the diagram below, the office head has full access to the system and can add registrants, add claimants, view client's information, update client's information, and manage client's information, on the other hand, the staff also has access to the system.

Registry Information System of Local Civil Registrar, Office of the Municipality Of Sierra Bullones, Bohol

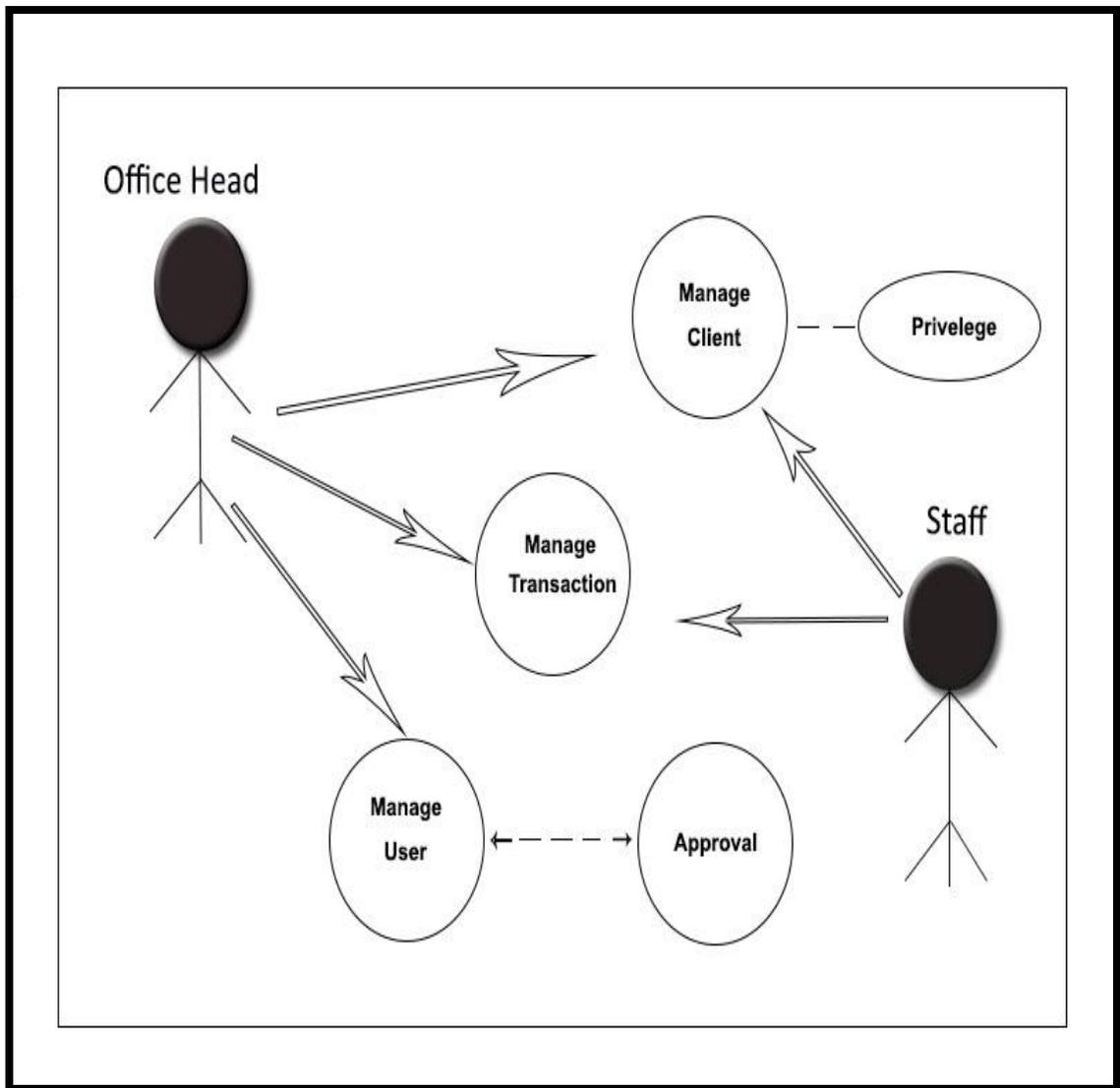


Figure 10. Use Case Diagram

Use Case Narrative

Use case narrative describes a use case that requires both frame context of the use case and represents the dialog between the user (actor or use case) and the use case. In every use case narrative, there are pre-conditions, process, and post-conditions as shown in table 1 below.

Table 1. Use Case 1 Login to the system as Administrator

Log-in-to the system	
Scope	Registry Information System of the Local Civil Registrar Office in the Municipality of Sierra Bullones, Bohol
Level	User Goal
Goal in Content	To access to the system and access records information
Primary Actors	Office Head
Stakeholders	Office Head wants to record and view information of registrants and claimants
Preconditions	None
Triggers	The Office Head input username and password
Success Guarantee	The Office Head successfully logs-in to the system
Scenarios:	<ol style="list-style-type: none">1. The office head accesses the system.2. The log-in form will show.3. The office head inputs username and password4. The system checks if the username and password matches with the database record.5. The system will proceed to dashboard form

Table 2. Use Case 2 Login to the system as Staff

Log-in-to the system	
Scope	Registry Information System of the Local Civil Registrar Office in the Municipality of Sierra Bullones, Bohol
Level	User Goal
Goal in Content	To access to the system and access records information
Primary Actors	Staff
Stakeholders	Staff wants to view information of registrants and claimants
Preconditions	None
Triggers	The staff inputs username and password
Success Guarantee	The staff successfully logs-in to the system
Scenarios:	<ol style="list-style-type: none"> 1. The staff accesses the system. 2. The log-in form for staff will show. 3. The staff inputs username and password. 4. The system checks for the username and password if it matches the database record. 5. The system will go to dashboard form.

Table 3. Use Case 3 to Add Registrants

To add Registrants	
Scope	Registry Information System of the Local Civil Registrar Office in the Municipality of Sierra Bullones, Bohol
Level	User Goal
Goal in Content	To add new clients who wants to register
Primary Actors	Office Head and Staff
Stakeholders	Office Head, Staff who wants to add new registrants
Preconditions	None
Triggers	The Office Head and Staff will receive a filled-out form from registrants that to be encoded
Success Guarantee	Added the registrants successfully and waiting for approval for their registration

Scenarios:	<ol style="list-style-type: none"> 1. The registrants will provide his/her information. 2. The office head/staff encodes it to the system and transmits it for approval.
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Table 4. Use Case 4 Tracing of record information for those who want to claim certificates

Tracing of Records	
Scope	Registry Information System of the Local Civil Registrar Office in the Municipality of Sierra Bullones, Bohol
Level	User Goal
Goal in Content	To trace the claimant's records
Primary Actors	Office Head and Staff
Stakeholders	Office Head and Staff who wants to trace and process records for the claimant's certification
Preconditions	None
Triggers	The Office Head and Staff will proceed with the release of certification
Success Guarantee	Receive the approval of the form and successfully claimed the certificates

Table 5. Use Case 5 Generation of Reports

Generation of Reports	
Scope	Registry Information System of the Local Civil Registrar Office in the Municipality of Sierra Bullones, Bohol
Level	User Goal
Goal in Content	To generate report of the monthly transaction report
	Office Head
Stakeholders	Office Head, who wants to generate reports for monthly transaction
Preconditions	None

Triggers	The Office Head displays the monthly transaction of services in registration in the area of Birth, Death and Marriage
Success Guarantee	Display the monthly transaction and total number of all registrants
Scenarios:	1. The office head generates reports for all registrants in the area of Birth, Death and Marriage

Database Design

Database design is the process of producing a data model of the database. This data model contains all the needed logical and physical design choices and physical storage parameters needed to generate a design in a data definition language, which can then be used to create a database.

System design is an aspect of system progress that serves as a building block for the system enhances Registry Information System of Local Civil Registrar Office in the Municipality of Sierra Bullones, Bohol, and the researchers aim a new helpful system which would be used in the Office.

Class Diagram

A class diagram is an illustration of the relationships and source code dependencies among classes of the system, their relationships (including inheritance, aggregation and association), and the operations and attributes of the classes (Margaret, 2007).

Database Structure

The tables on the following pages are the database tables used in storing the information that is input in the system together with a collection of operations that facilitate searching, sorting, recombination, and similar activities.

Table 1

Data Structure of Account Log in

Field No.	Field Name	Type	Width	Description
1	user	varchar	10	user
2	pass	varchar	10	pass
3	position	varchar	15	position
4	date	varchar	15	date
5	tin	varchar	15	time in
6	tout	varchar	15	time out

Table 2

Data Structure of Log in

Field No.	Field Name	Type	Width	Description
1	id	int	11	identification
2	fname	varchar	30	first name
3	middle	varchar	30	middle
4	surename	varchar	30	surename
5	age	varchar	30	age
6	gender	varchar	30	gender
7	civil	varchar	30	civil status
8	address	varchar	30	address
9	birthdate	varchar	30	birthdate
10	datehired	varchar	30	date hired
11	dateresign	varchar	30	date resign
12	user	varchar	20	user
13	pass	varchar	20	pass
14	position	varchar	25	position

Table 3

Data Structure of Birth Registration

Field No.	Field Name	Type	Width	Description
1	id	Int	10	identification
2	Registry_number	int	10	Registry number
3	Date_registration	varchar	20	Date registration
4	Name_child	varchar	50	Name child
5	Sex	varchar	6	Sex
6	Date_birth	varchar	20	Date birth
7	Place_birth	varchar	50	Place birth
8	Name_mother	varchar	50	Name mother
9	Citizenship_mother	varchar	20	Citizenship mother
10	Name_father	varchar	50	Name father
11	Citizenship_father	varchar	20	Citizenship father
12	Date_marriage	varchar	20	Date marriage
13	Place_marriage	varchar	50	Place marriage
14	Remarks	varchar	100	Remarks
15	Province	varchar	10	Province
16	Municipality	varchar	10	Municipality
17	Child_middle	varchar	10	Child middle
18	Child_last	varchar	10	Child last
19	Place_city	varchar	20	Place city
20	Place_provi	varchar	20	Place province
21	Type_birth	varchar	20	Type birth
22	Multiple_birth	varchar	20	Multiple birth
23	Birth_order	varchar	20	Birth order
24	Weight	int	5	Weight
25	Maiden_middle	varchar	10	Maiden middle
26	Maiden_last	varchar	10	Maiden last
27	Religious	varchar	20	Religious
28	No_born	varchar	10	No's born
29	Children_still_living	int	10	Children still living
30	Now_dead	varchar	10	Now dead
31	Occupation	varchar	20	Occupation
32	Age	int	2	Age
33	Father_middle	varchar	20	Father middle
34	Father_last	varchar	20	Father last
35	Father_relig	varchar	20	Father religion
36	Father_occu	varchar	20	Father occupation
37	Father_age	int	3	Father age
38	Father_residence	varchar	20	Father residence
39	Father_city	varchar	10	Father city
40	Father_prov	varchar	10	Father province

41	Father_country	varchar	10	Father country
42	Parents_prov	varchar	10	Parent province
43	Parents_country	varchar	10	Parent country
44	Physician	varchar	1	Physician
45	Nurse	varchar	11	Nurse
46	Midwife	varchar	11	Midwife
47	Hilot	varchar	11	Hilot
48	Specify	varchar	11	Specify
49	Time_born	int	11	Time born
50	Name_attend	varchar	20	Name attend
51	Position_attend	varchar	20	Position attend
52	Address_attend	varchar	20	Address attend
53	Date_attendant	varchar	15	Date attendant
54	Name_cert	varchar	20	Name certificate
55	Relation_child	varchar	20	Relation child
56	Address_cert	varchar	20	Address certificate
57	Date_cert	varchar	15	Date certificate
58	Name_Prepared	varchar	20	Name Prepared
59	Prepared_pos	varchar	20	Prepared position
60	Date_pre	varchar	20	Date prepared
61	Name_receive	varchar	20	Name receive
62	Receive_position	varchar	20	Receive position
63	Date_receive	varchar	11	Date receive
64	Name_office	varchar	20	Name office
65	Office_position	varchar	20	Office position
66	Office_date	varchar	15	Office date
67	amount_paid	int	10	amount paid
68	or_number	int	10	or number
69	dated_receipt	varchar	15	dated receipt
70	page	int	5	page
71	book	varchar	5	book
72	we	varchar	20	we
73	and	varchar	20	and
74	mother_father	varchar	20	mother father
75	born_on	varchar	15	born on
76	born_at	varchar	20	born at
77	printed_father	varchar	20	printed father
78	printed_mother	varchar	20	printed mother
79	methis	varchar	20	me this
80	day_of	varchar	15	day of
81	this_of	varchar	15	this of
82	this_by	varchar	20	this by
83	and_exhibited	varchar	20	and exhibited
84	valid_id	varchar	15	valid id
85	on_issued	varchar	15	On issued
86	at_issued	varchar	20	At issued

87	admin_officer	varchar	20	Admin officer
88	ptd	varchar	30	Prepared title
89	print_name	varchar	20	Print name
90	adds	varchar	30	adds
91	month	varchar	10	month
92	year	varchar	10	year

Table 4
Data Structure of Death Registration

Field No.	Field Name	Type	Width	Description
1	ld	Int	10	identification
2	registry_no	int	20	registry number
3	date_registration	varchar	10	date registration
4	name_deceased	varchar	30	name deceased
5	sex	varchar	6	sex
6	age	int	3	age
7	civil_status	varchar	10	civil status
8	citizenship	varchar	10	citizenship
9	date_death	varchar	20	date death
10	place_death	varchar	50	user's position
11	cause_death	varchar	50	cause death
12	province	varchar	10	province
13	municipality	varchar	30	municipality
14	middle_name	varchar	20	middle name
15	last_name	varchar	20	last name
16	date_birth	varchar	15	date birth
17	months	varchar	10	months
18	days	varchar	5	days
19	hrs	int	10	hours
20	mins	int	10	minutes
21	place_city:	varchar	30	place city
22	place_province	varchar	20	place province
23	religion	varchar	20	religion
24	residence	varchar	20	residence
25	residence_city	varchar	20	residence city
26	residence_pro	varchar	10	residence pro
27	residence_country	varchar	10	residence country
28	occupation	varchar	30	occupation
29	name_father	varchar	20	name father
30	name_mother	varchar	20	name mother
31	antecedent	varchar	20	antecedent
32	underlying_cause	varchar	30	underlying cause

33	other_cause	varchar	30	other cause
34	interval_a	varchar	30	interval a
35	interval_b	varchar	30	interval b
36	interval_c	varchar	30	interval c
37	not_labour	varchar	1	not labour
38	pregnant_labour	varchar	1	pregnant labour
39	daysafter_delivery	varchar	1	days after delivery
40	yearafter_delivery	varchar	1	year after delivery
41	none_choices	varchar	1	none choices
42	manner_death	varchar	30	manner death
43	external_causes	varchar	30	external causes
44	autopsy	varchar	5	autopsy
45	private_physician	varchar	1	private physician
46	public_heath	varchar	1	public heath
47	hospital_authority	varchar	1	hospital authority
48	none	varchar	1	none
49	others_specify	varchar	10	others specify
50	duration_from	varchar	10	duration from
51	duration_to	varchar	10	duration to
52	attended	varchar	1	attended
53	not_attended	varchar	1	not attended
54	date_occured	varchar	10	date occured
55	name_print1	varchar	20	name print1
56	position1	varchar	20	position1
57	address	varchar	30	address
58	date1	varchar	10	date1
59	signature	varchar	20	signature
60	number1	varchar	20	number1
61	date_issued1	varchar	10	date issued1
62	number2	varchar	20	number2
63	date_issued2	varchar	10	date issued2
64	cemetery	varchar	30	cemetery
65	amount_paid	int	10	amount paid
66	or_number	int	10	or number
67	dated_receipt	varchar	15	dated receipt
68	page	int	5	page
69	book	varchar	5	book
70	month	varchar	10	month
71	year	varchar	10	year

Table 5

Data Structure of Marriage Registration

Field No.	Field Name	Type	Width	Description
1	id	int	10	identification
2	name_husb	varchar	50	name husband
3	name_wife	varchar	50	name wife
4	age_husb	varchar	3	age husband
5	age_wife	varchar	3	age wife
6	citi_husb	varchar	20	citizen husband
7	citi_wife	varchar	20	citizen wife
8	cs_husb	varchar	20	civil status husband
9	cs_wife	varchar	20	civil status wife
10	nf_husb	varchar	50	name father husband
11	nf_wife	varchar	50	name father wife
12	nm_husb	varchar	50	name mother husband
13	nm_wife	varchar	50	name mother wife
14	registry_no	varchar	20	registry number
15	date_reg	varchar	20	date registration
16	place_marriage	varchar	50	place marriage
17	province	varchar	10	province
18	municipality	varchar	10	municipality
19	husb_middle	varchar	10	husband middle
20	husb_first	varchar	10	husband first
21	wife_middle	varchar	10	wife middle
22	wife_last	varchar	10	wife last
23	husb_datebirth	varchar	20	husband date birth
24	wife_datebirth	varchar	20	wife date birth
25	husb_placebirth	varchar	20	husband place birth
26	wife_placebirth	varchar	20	wife place birth
27	husb_sex	varchar	6	husband sex
28	wife_sex	varchar	6	wife sex
29	husb_residence	varchar	20	husband residence
30	wife_residence	varchar	20	wife residence
31	husb_religion	varchar	20	husband religion
32	wife_religion	varchar	20	wife religion
33	fatherhusb_midd	varchar	10	father husband middle
34	fatherhusb_last	varchar	10	father husband last
35	fatherwife_midd	varchar	10	father wife middle
36	fatherwife_last	varchar	10	father wife last
37	motherhusb_middle	varchar	10	mother husband middle
38	motherhusb_last	varchar	10	mother husband last
39	motherwife_middle	varchar	10	mother wife middle
40	motherwife_last	varchar	10	mother wife last
41	motherhusb_citizen	varchar	10	mother husband citizen

42	motherwife_citizen	varchar	10	mother wife citizen
43	husb_pconsent	varchar	20	husband parent consent
44	husb_consent_midd	varchar	10	husband consent middle
45	husb_consent_last	varchar	10	husband consent last
46	wife_pconsent	varchar	20	wife parent consent
47	wife_consent_midd	varchar	10	wife consent middle
48	wife_consent_last	varchar	10	wife consent last
49	husb_relation	varchar	20	husband relation
50	wife_relation	varchar	20	wife relation
51	husb_resid	varchar	30	husband residence
52	wife_resid	varchar	30	wife residence
53	placem_city	varchar	20	place marriage city
54	placem_province	varchar	20	place marriage province
55	marriage_date	varchar	10	marriage date
56	time_marriage	varchar	10	time marriage
57	certify_husb	varchar	20	certify husband
58	certify_wife	varchar	20	certify wife
59	entered	varchar	1	entered
60	not_entered	varchar	1	not entered
61	quadrup_this	varchar	10	quadrup this
62	this_day	varchar	10	this day
63	certify_a	varchar	20	certify a
64	certify_b	varchar	20	certify b
65	certify_c	varchar	20	certify c
66	license	varchar	20	license
67	issued_on	varchar	10	issued on
68	issued_at	varchar	20	issued at
69	executive	varchar	20	executive
70	solem	varchar	20	solem
71	designation	varchar	20	designation
72	applicable	varchar	30	applicable
73	witness_a	varchar	20	witness a
74	witness_b	varchar	20	witness b
75	witness_c	varchar	20	witness c
76	witness_d	varchar	20	witness d
77	name_received	varchar	20	name received
78	title_received	varchar	20	title received
79	date_received	varchar	10	date received
80	name_registrar	varchar	20	name registrar
81	title_registrar	varchar	20	title registrar
82	date_registrar	varchar	10	date registrar
83	amount_paid	int	10	amount paid
84	or_number	int	10	or number
85	dated_receipt	varchar	10	dated receipt
86	page	int	5	page
87	book	int	5	book

88	month	varchar	10	month
89	year	varchar	10	year

Table 6

Data Structure of Head Approval in Registration of Birth

Field No.	Field Name	Type	Width	Description
1	id	int	10	identification
2	birth_id	int	11	identification
3	temp_regnum	varchar	30	temporary register number
4	temp_datereg	varchar	30	temporary date registration
5	temp_child	varchar	30	temporary child
6	temp_sex	varchar	30	temporary sex
7	temp_birthdate	varchar	30	temporary birthdate
8	temp_place	varchar	30	temporary place
7	temp_mother	varchar	30	temporary mother
8	temp_citen_mother	varchar	30	temporary citizenship mother
9	temp_father	varchar	30	temporary father
10	temp_citen_father	varchar	30	temporary citizenship father
11	temp_date_marriage	varchar	30	temporary date marriage
12	temp_place_marriage	varchar	30	temporary place marriage
13	temp_remarks	varchar	50	temporary remarks
14	req_date	date	0	request date
15	req_date_approved	date	0	request date approved
16	req_status	varchar	20	request status

Table 7

Data Structure of Head Approval in Registration of Death

Field No.	Field Name	Type	Width	Description
1	id	int	10	identification
2	death_id	int	11	identification
3	temp_rn	varchar	30	temporary registry number
4	temp_dr	varchar	30	temporary date registration
5	temp_nd	varchar	30	temporary name deceased
6	temp_sex	varchar	30	temporary sex
7	temp_age	varchar	30	temporary age
8	temp_civil	varchar	30	temporary civil status
7	temp_citen	varchar	30	temporary citizenship
8	temp_death	varchar	30	temporary death

9	temp_pd	varchar	30	temporary place of death
10	temp_cd	varchar	30	temporary cause of death
11	req_date	date	0	request of date
12	req_date_approved	date	0	request of date approved
13	req_status	varchar	20	request status

Table 8

Data Structure of Head Approval in Registration of Marriage

Field No.	Field Name	Type	Width	Description
1	ld	int	10	identification
2	marriage_id	int	11	identification
3	temp_husband	varchar	20	temporary husband
4	temp_wife	varchar	20	temporary wife
5	temp_husband_age	int	3	temporary husband age
6	temp_wife_age	int	3	temporary wife age
7	temp_husband_citi	varchar	20	temporary husband citizenship
8	temp_wife_citi	varchar	20	temporary wife citizenship
7	temp_husband_civil	varchar	20	temporary husband civil status
8	temp_wife_civil	varchar	20	temporary wife civil status
9	temp_husband_father	varchar	50	temporary husband father
10	temp_wife_father	varchar	50	temporary wife father
11	temp_husband_mother	varchar	50	temporary husband mother
12	temp_wife_mother	varchar	50	temporary wife mother
13	temp_regnum	int	10	temporary register number
14	temp_datereg	varchar	10	temporary date registration
15	temp_place_marriage	varchar	50	temporary place marriage
16	req_date	date	0	request of date
17	req_date_approved	date	0	request of date approved
18	req_status	varchar	10	request status

Table 9

Data Structure of Claimants Request

Field No.	Field Name	Type	Width	Description
1	id	int	10	identification
2	name_claimants	varchar	20	name of claimants
3	registry_no	int	10	registry number
4	date_request	varchar	15	date request
5	services	varchar	10	services

6	authorize_person	varchar	20	authorize person
7	or_number	int	10	or number
8	prepared_by	varchar	20	prepared by
9	addfile	blob	0	addfile

Program Hierarchy

A program hierarchy is an organizational structure in which items is ranked according to levels of importance. Each module is represented by a box, which contains the modules. The system comprises of nine buttons representing main modules that hold the activity that the system is capable of. Submenus are also presented in each menu provided (Wigmore, I., 2012).

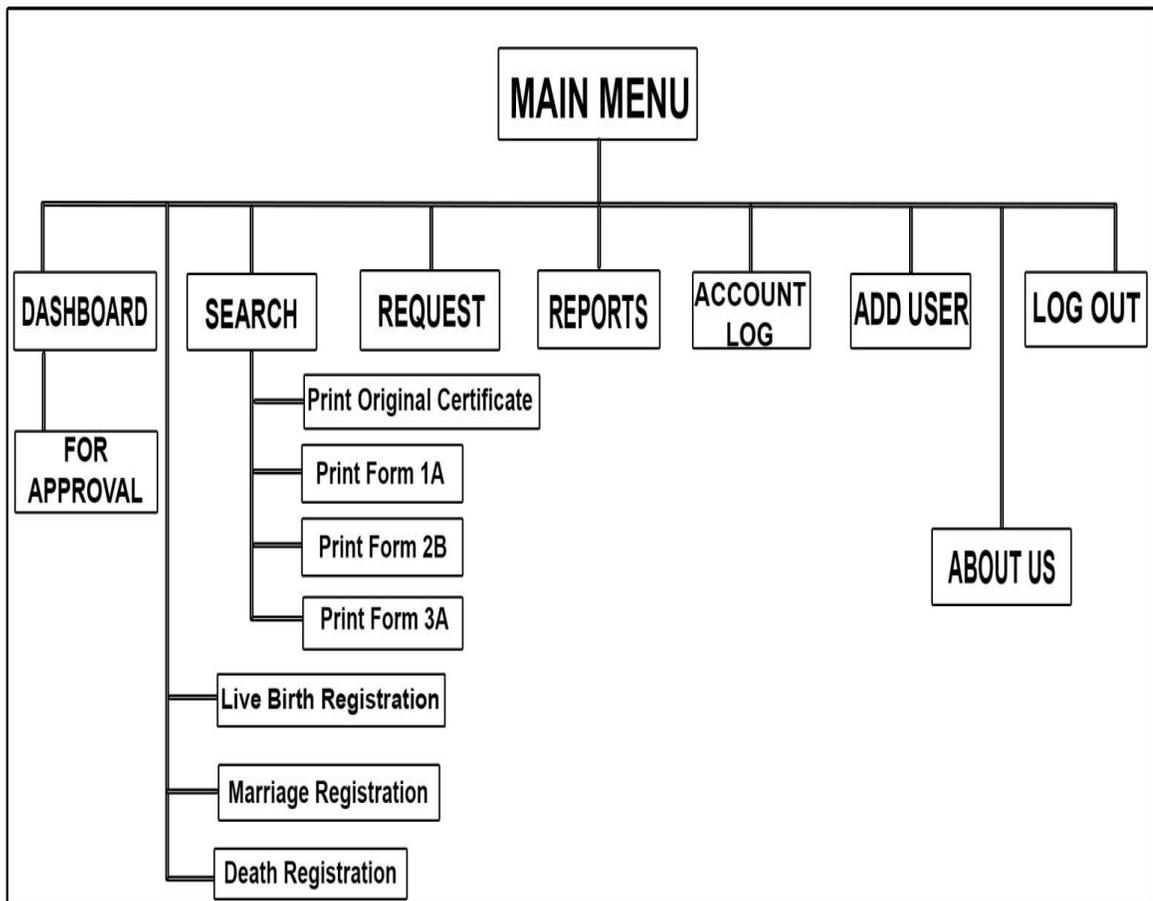


Figure 11. Program Hierarchy

Functional Requirements

The functional requirement was formulated using the prototype in eliciting capture requirement through contrast communication with the Office Head and staff. The function mentioned is based on the existing standard need of the Registry Information System of LCR in the municipality of Sierra Bullones, Bohol with the approval and coordination from the respondents as follows:

Login Process

FREQ 1: Access to the system must be password protected.

FREQ 2: All the data and information should be in a secure environment, limiting access to authorize only.

FREQ 3: The system will record all the login time and logout time of the Office Head and Staff of the Local Civil Registrar.

Registering and Claiming Process

FREQ 4: The system should allow the office head and staff to manage all the submitted documents of the registrants/claimants.

FREQ 5: The system should be able to verify the eligibilities of the clients, such as according to their category and transaction type such as claiming or registering for Birth, Death, and Marriage Certificates.

Updating Clients Information Process

FREQ 6: The system should allow the office head to update the client's confidential information.

FREQ 7: The system should allow the staff to update the client's information and wait for the approval of the office head.

Managing Client's Information Process

FREQ 8: The system should allow the Office Head and Staff to manage client's information.

FREQ 9: The system should allow the Office Head and Staff to search for a client's information.

FREQ 10: The system should allow the Office Head to view the list of for approval and approved data update information.

FREQ 11: The system should allow the Office Head and Staff to view the list of the Registrants and claimants.

FREQ 12: The system should allow the Staff to view all the transactions.

Generate Report Process

FREQ 13: The system should provide the Office Head and Staff the graphical report of transactions.

FREQ 14: The system should provide the Office Head and Staff the graphical report of total number of transactions of Birth, death and marriage.

Personal System Environment

FREQ 15: The system should allow the Office Head to change the password and username of staff.

FREQ 16: The system should allow the Staff to request to Office Head to update their password and username.

FREQ 17: The information from the database can be exported.

Non-Functional Requirements

A non-functional requirement shows the operation of a system, rather than functional requirements that define specific behavior of functions. The following are the non-functional requirements of the system:

NFQ 1. The system should be easy to use. It should be user-friendly and manageable with naïve users.

NFQ 2. The system should operate on available technology (e.g., Windows and Wired Public Internet Access) provided by the office

Test Cases

A test case is a set of conditions or variables under which a tester will determine whether an application of a software system is working correctly or not. This is a detailed procedure that fully tests a feature. And also, a set of input variables, execution, pre-condition, results, and execution, developed for the particular objectives or test conditions.

These are test case scenarios conducted during the acceptance testing. The test case plan is to let the users use the system and follow the instruction in each test case in order to be considered successful. This test case is somewhat like guidelines on how to use the system.

The following are the details of each test case:

Test Case 1:

Module: Login Form

Instruction:

1. In the login form, enter the password and username
2. Choose the position. Then click the "Login" button.

Expected Results:

1. The main form will show.

Test Case 2:

Module: Adding registrants Information of Live Birth

Instruction:

1. Click "Live Birth Button"
2. Fill up all the blank data form on page 1 and page 2
3. Then, Click "Save" button to save the filled out form

Expected Result:

1. New Birth has been added

Test Case 3:

Module: Adding registrants Information of a deceased

Instruction:

1. Click "Death Button"
2. Fill up all the blank data form on page 1 and page 2
3. Then, Click "Save" button to save the filled out form

Expected Result:

1. New Death has been added

Test Case 4:

Module: Adding registrants Information of marriage

Instruction:

1. Click "Marriage Button"
2. Fill up all the blank data form on page 1 and page 2
3. Then, Click "Save" button to save the filled out form

Expected Result:

1. New Marriage has been added

Test Case 5:

Module: Search/Tracing

Instruction:

1. Click Search Button
2. Choose from the radio button what you want to search as to: Birth, Death, and Marriage.
3. Go to search bar and type the name you want to trace
4. Click the Data grid view for viewing all information on the screen
5. Click update button for remarks only.
6. Then proceed to print, and select Original copy or Local copy.

Expected Result:

1. Display the registrant information on the screen
2. Generate a printed output

Test Case 6:

Module: For Request

Instruction:

1. Click For Request button
2. Fill up the blank data form, including the name of the authorized person for claiming
3. Add scan file
4. Click "save"
5. The New claimants request has been added

Expected Result:

1. Display the claimant's record
2. To Generate Certificate

Test Case 7:

Module: Add User

Instruction:

1. Fill up user's information
2. Click "Save" button

Expected Results:

1. User Successfully added
2. Display the list of users

Test Case 8:

Module: Account log

Instruction:

1. Click "Account Log" button
2. Click "Print account logs" for printing output

Expected Results:

1. Display the Time in and Time out of the system user
2. Generate a daily printed output

Test Case 9:

Module: Reports

Instruction:

1. Click Reports Button
2. Select the "Graphical Report" for Birth
3. Select "Monthly Birth Male-Female Ratio" button
4. Select "Yearly Birth Registration" button
5. Select the "Graphical Report" for Marriage
6. Select "Yearly Marriage Registration" button
7. Select "Yearly Marriage Ceremony" button
8. Select the "Graphical Report" for Death
9. Select "Monthly Registered Death by age" button
10. Select "Monthly cause of death" button

11. Select “Yearly Death Registration” button

12. Select Tabular Monthly for the total number registered Birth, Marriage and Death in Printing Records.

Expected Result:

1. Display the graphical report of Monthly Registration of male and female of birth
2. Display the graphical report of the Annual Birth Registration
3. Display the graphical report of the Annual Marriage Registration
4. Display the graphical report of Annual Marriage Ceremony
5. Display the graphical report of Annual Registered Death
6. Display the graphical report of the Monthly cause of death
7. Generate a transaction report by the month.
8. Generate a transaction report from annual.
9. Generate a printed out form of all Graphical reports

Technical Requirements

The proper selection of hardware and software components as well as identification of people involved in the operation and network, are identified. This is necessary for proper usage so that the system could be used to its fullest capacity.

Hardware components refer to the physical parts of the computer. This includes the motherboard, processor, random access memory, and hard disk. However, there were only three (3) components which basically facilitate the processing of data. These components are the Microprocessor, Hard Disk Drive

(HDD) and the Random-Access Memory (RAM). Thus, components were just specified in the presentation.

Software is the general name given to all programs, documentation, manuals, and routines necessary to make the computer usable. It is a set of machine-readable instructions. The software produces an output that can be understood by human.

People ware refers to those who operate the system. The person-in-charge in the operating system is the official head and staff of the Local Civil Registrar in the municipality of Sierra Bullones, Bohol who is responsible in keeping of all the records of the clients, and must be computer literate and have a piece of knowledge about the system.

A network is a system of interconnected electric components or circuits. It connects two or more computers or other devices.

Minimum Hardware Specification

Component	Specification
Microprocessor	Intel Pentium, 1.6 GHz
Hard Disk Drive	280 Gigabytes
Random Access Memory	4 Gigabytes, DDR3

Minimum Software Specification

The Registry Information System of the Local Civil Registrar Office (LCR) in the Municipality of Sierra Bullones Bohol, requires various software to function properly.

This software was enumerated below with its corresponding specifications. The specifications as provided were based on the specifications of the computer units utilized during the development of the system.

Components	Specification
Windows Operating System Visual Basic 2012 Framework	Windows 8, 8.1, 10 Visual Basic Version 2012

Business Intelligence

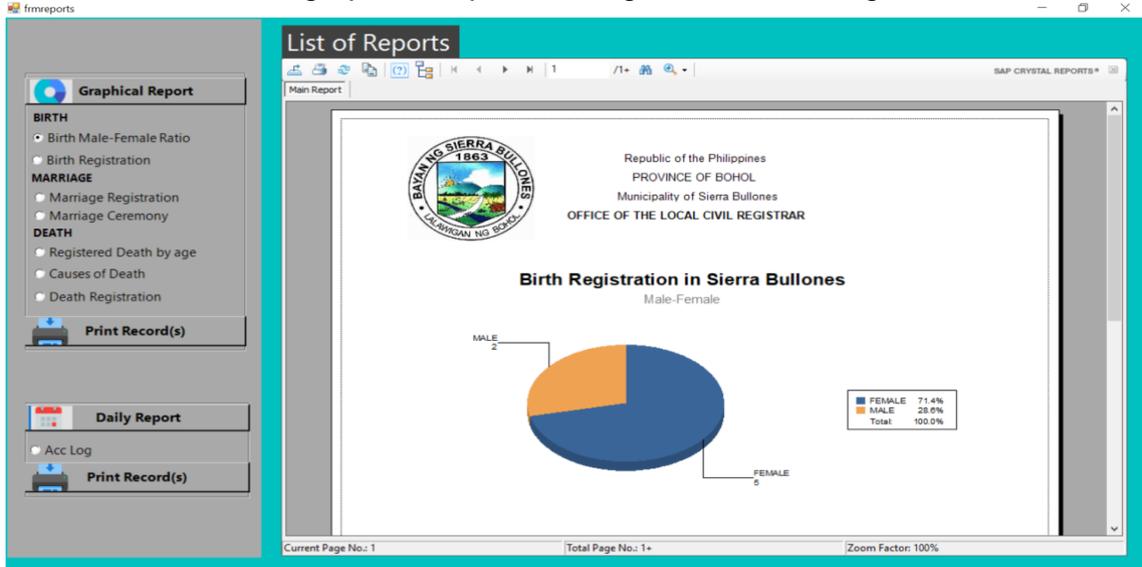
In the existing theories, business intelligence means the ability of an organization to collect, maintain and organize knowledge. It aims to support better business techniques and decision-making with solutions that take business intelligence (BI) to a whole new level and getting the right information. The system integrated business intelligence specifically in the query and reporting component.

The developed system is capable of analyzing data and generating statistical reports thru tabular reports. Automated representation of information allows real time data representation. These generated tabular reports may be used by the office head and staff of local civil registrar office as a basis for monitoring of accomplishment of the transaction and the status of the claimants and registrants.

Reports under business intelligence are namely: Graphical Reports of Monthly Birth Male-Female Ratio, Yearly Birth Registration. Graphical Reports of Yearly Marriages Registration, Yearly Marriage Ceremony, Graphical Report of

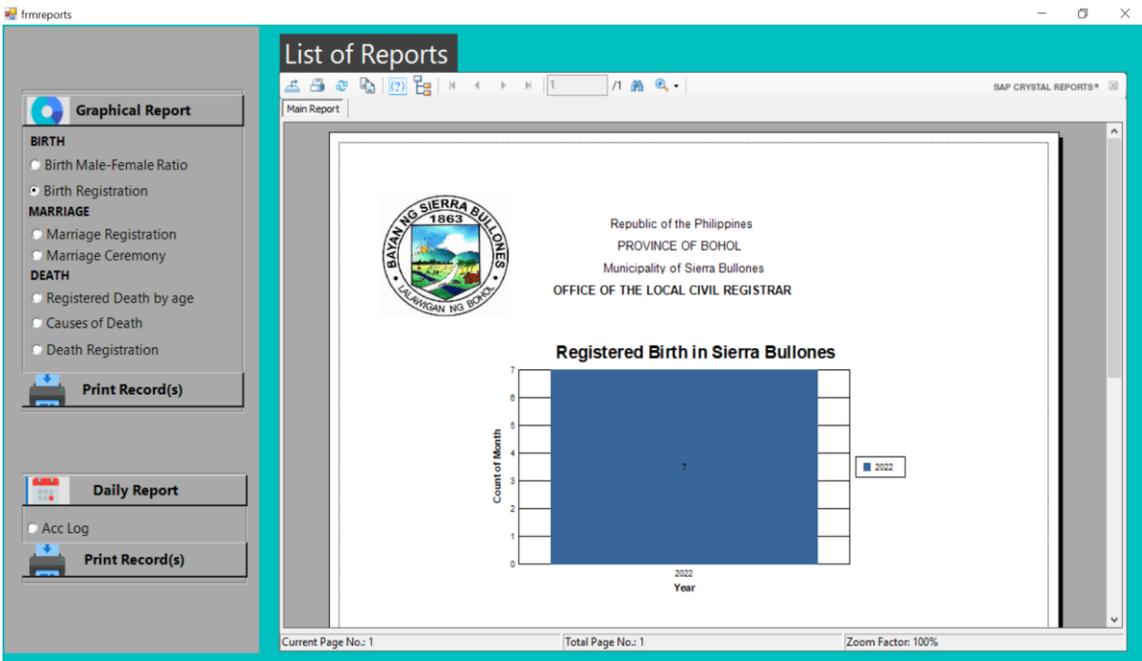
Daily Registered Death by Age, Monthly Cause of Death, Tabular Reports of the overall total of Birth, Death, Marriages, Monthly Accomplishment Reports.

Preview 1 shows the graphical report of the gender of birth registration.



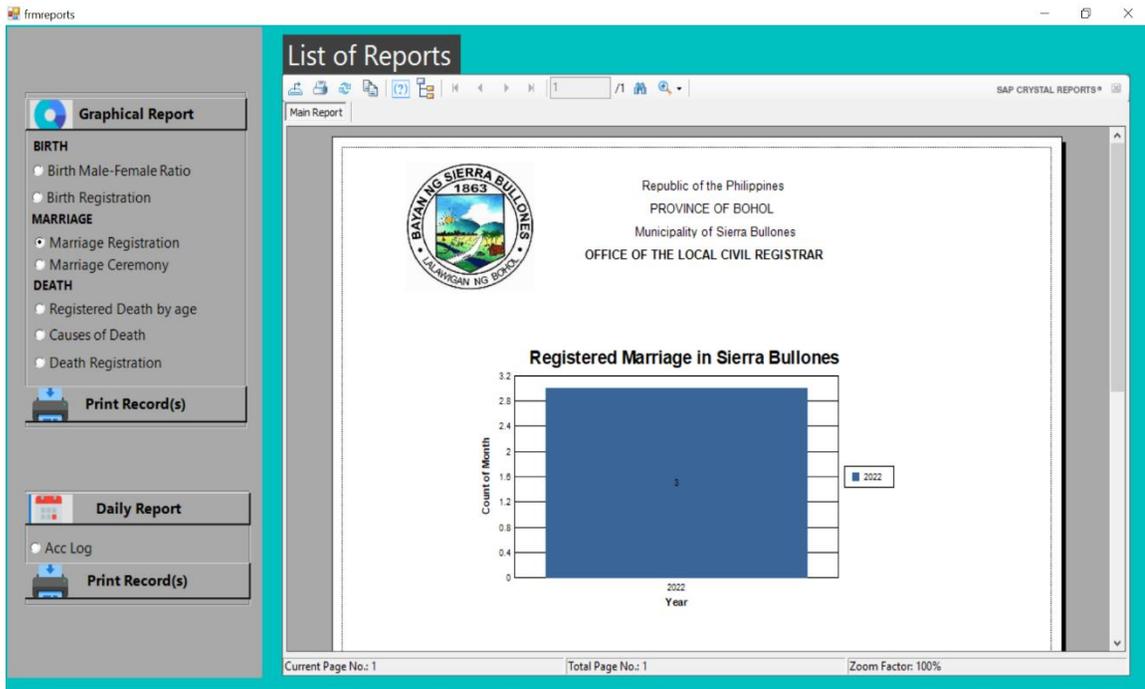
Preview 1. Gender Type Graphical Report of Birth Registration

Preview 2 below shows the annual graphical report of registered birth.



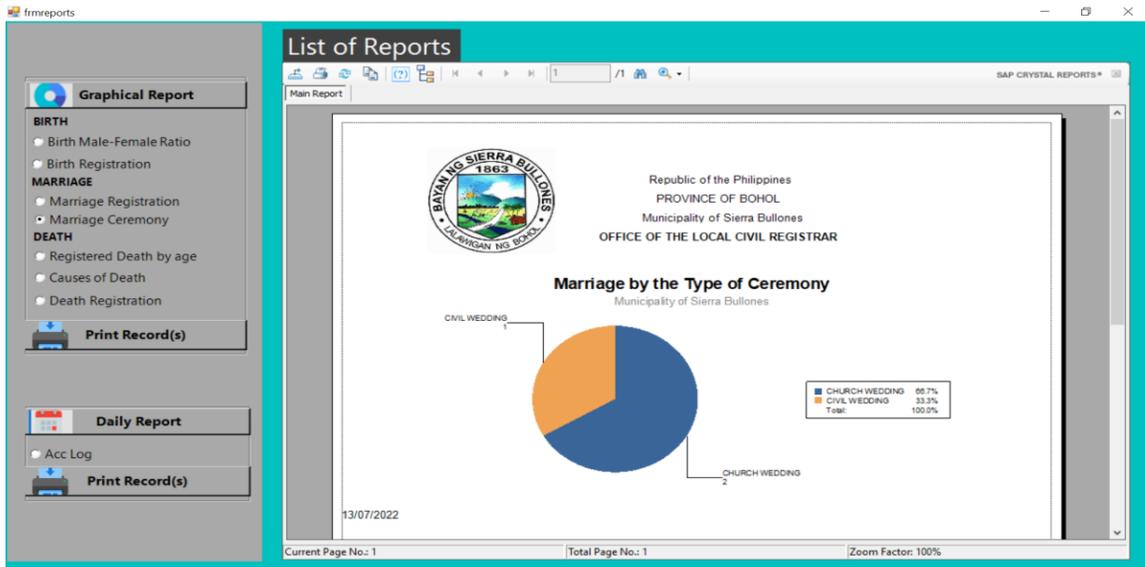
Preview 2. The Annual Graphical Report of Registered Birth

Preview 3 below shows the Yearly Graphical Report of Registered Marriage.



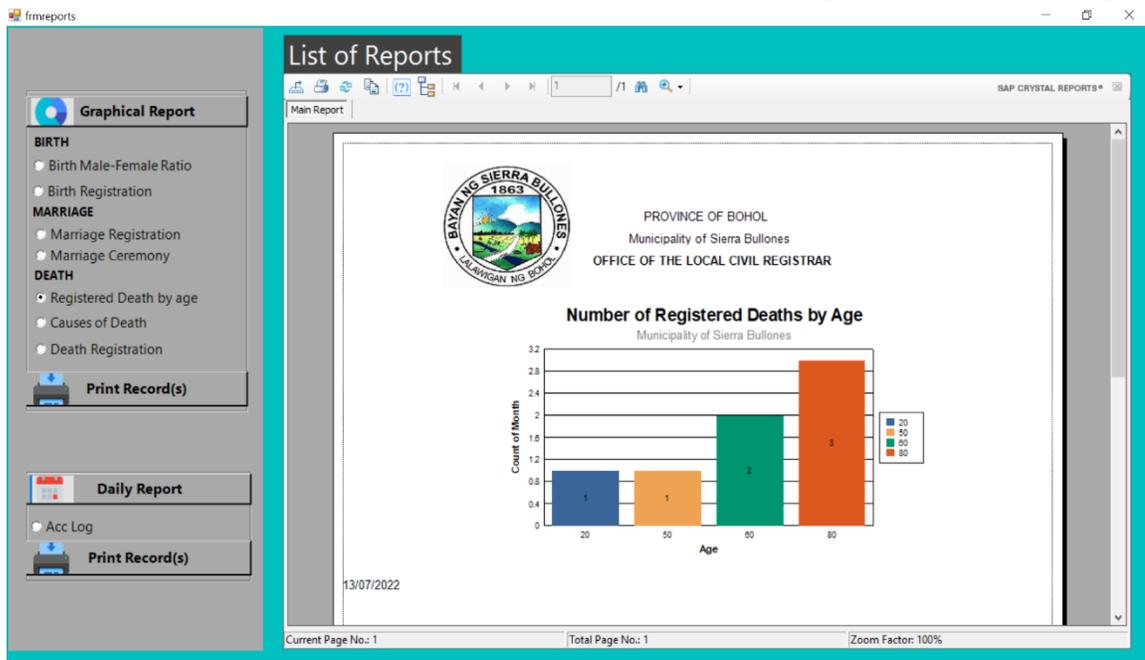
Preview 3. The Yearly Graphical Report of Registered Marriage

Preview 4 shows the Graphical Report of the Type of Ceremony of Marriage Registration.



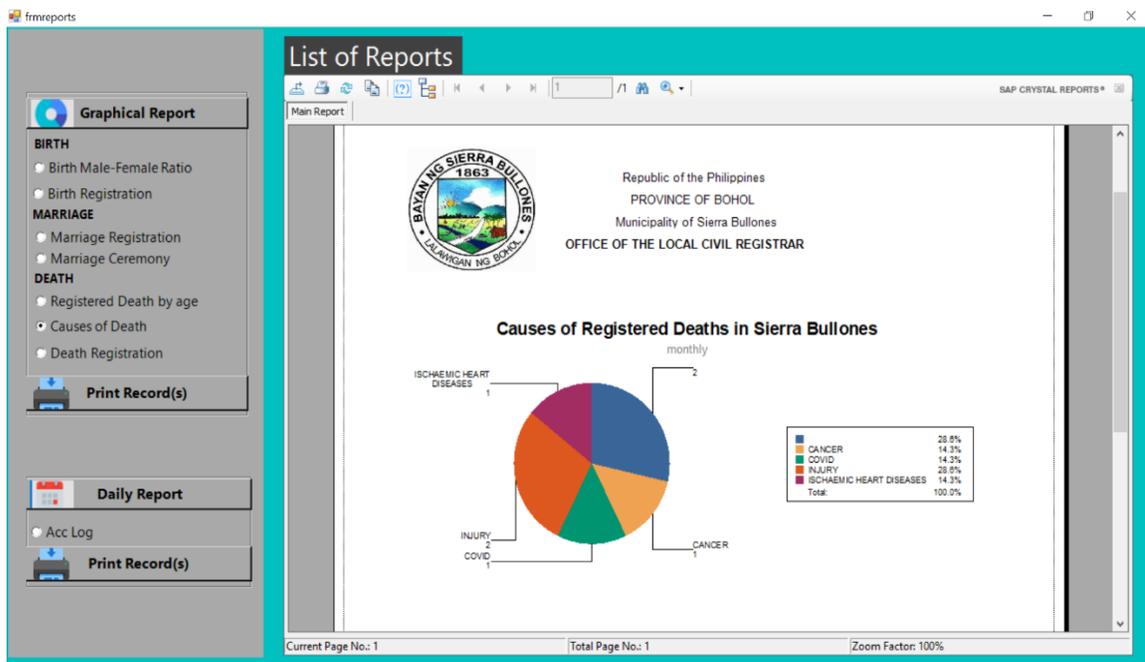
Preview 4. Graphical Report of the type of Ceremony in Marriage Registration

Preview 5 shows the Graphical Report of the Number Registered Death by Age.



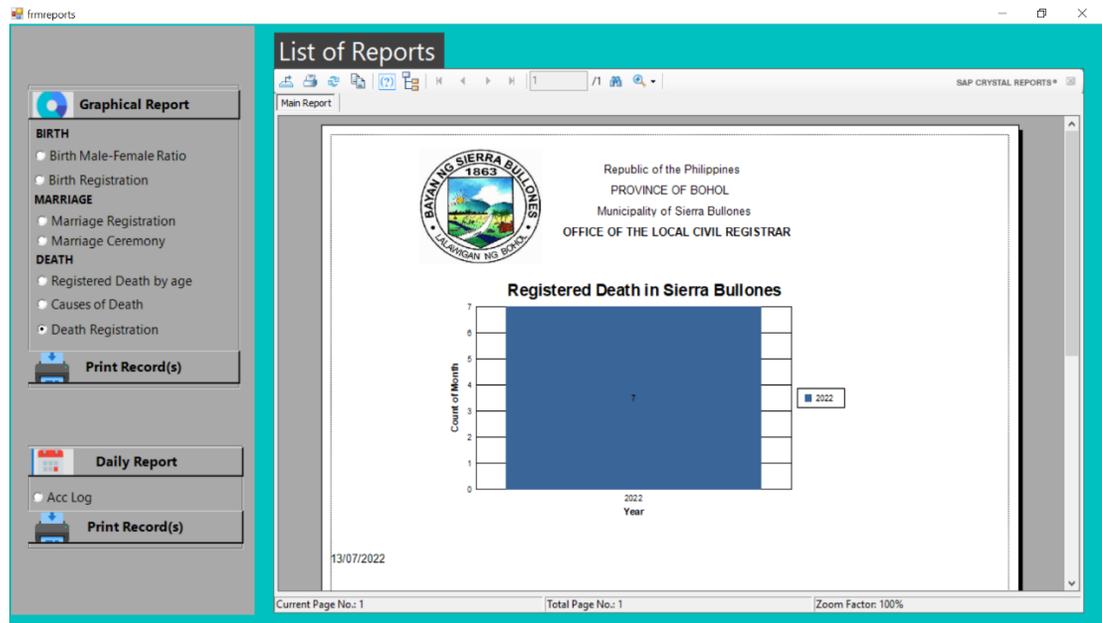
Preview 5. Graphical Report of the Number Registered Death by Age

Preview 6 shows the Graphical Report of the Causes of Registered Death.



Preview 6. The Graphical Report of the Causes of Registered Death

Preview 7 below presents the Yearly Graphical Report of Registered Death.



Preview 7. The Yearly Graphical Report of Registered Death

Screen Layout

The Screen layout describes the design of the graphical user interfaces. It includes a wide variety of applications where screens or displays can be used as part of human-machine interaction and should be distinguished from the functions of a graphical user interface” (Ryte Wiki, 2020). Screen Layout is one of the many attributes of the system’s user-friendliness. It should be designed in such a way to navigate the system quickly, easily, and it should provide clear recognition of the task of the users need to perform.

Preview 8 below shows the Log-in display form for the user.


 Republic of the Philippines
Local Civil Registrar Office
 Municipality of Sierra Bullones,
 6320 Bohol, Philippines

July 13, 2022 5:20:46 pm

SIGN IN NOW

USERNAME
 admin

PASSWORD

Show Password

Login

Preview 8. User Log-in Form

Preview 9 below illustrates the main dashboard form of the system.

LCRO BOHOL Republic of the Philippines Philippine Standard Time
Local Civil Registrar Office
 Municipality of Sierra Bullones, 6320 Bohol, Philippines May 30, 2022 1:29:37 pm Logout

Total of Registered Live Birth: 5	Total of Registered Marriage: 15	Total of Registered Death: 9
Total Female of Live Birth: 3	Total Male of Live Birth: 1	Total Request: 4

FOR APPROVAL: BIRTH: 0 MARRIAGE: 1 DEATH: 6 REFRESH

Filter by: STATUS TYPE FILTER

RESULT

Have a good day!
 Dashboard
 Live Birth
 Marriage
 Death
 Search
 Request
 Reports
 Acc Log
 Add User
 About

Email: lcrbullones@gmail.com Mobile Number/s: 09307522151

Preview 9. Main Dashboard Form

Preview 10 below presents the front page of adding registration of birth information.

The screenshot shows the front page of the 'CERTIFICATE OF LIVE BIRTH' form. At the top, it is identified as 'Municipal Form No. 102' and 'OFFICE OF THE CIVIL REGISTRAR GENERAL'. The form is for a child named MARY GRACE MADRONA DURAN, born on 31/12/1998 in STA CRUZ, SIERRA BULLONES, BOHOL. The mother is FELICITAS MADRONA DURAN, a Roman Catholic housewife. The form includes fields for child name, sex, date of birth, place of birth, type of birth, mother's name, citizenship, religion, and residence. It also includes a section for the number of children born alive and the age of the mother at the time of birth.

Preview 10. Front Page of Adding Registration of Birth Information

Preview 11 below shows the back page adding registration of birth information.

The screenshot shows the back page of the form, titled 'AFFIDAVIT OF ACKNOWLEDGEMENT/ADMISSION OF PATERNITY'. It contains a sworn statement from the father, ROMEO DURAN, acknowledging his paternity of the child. The statement includes the names of the parents, the child's name and date of birth, and the father's signature. Below the statement, there are fields for the date of the affidavit, the name and address of the administering officer, and the position/title of the officer. At the bottom, there is a section for 'AFFIDAVIT FOR DELAYED REGISTRATION OF BIRTH'.

Preview 11. Back Page of Adding Registration of Birth Information

Preview 12 below shows the front page of adding registration of marriage information.

Republic of the Philippines
OFFICE OF THE CIVIL REGISTRAR GENERAL
CERTIFICATE OF MARRIAGE

Province: BOHOL
City/ Municipality: SIERRA BULLONES
Registry No.: 2022-01
Date of Registration: 30/05/2022

HUSBAND

1. Name of Contracting Parties: (First) ROMEL, (Middle) LUMANDAS, (Last) OYANGURIN
2a. Date of Birth: Tuesday, 24 November 1998 (Age) 23
2b. Age: 23
3. Place of Birth: LA SALVACION CARMEN BOHOL
4a. Sex: MALE
4b. Citizenship: FILIPINO
5. Residence: LA SALVACION CARMEN BOHOL
6. Religion/ Religious Sect: ROMAN CATHOLIC
7. Civil Status: SINGLE
8. Name of Father: RONNE MACAS OYANGURIN
9. Citizenship: FILIPINO
10. Name of Mother: BEBE LUMANDAS OYANGURIN
11. Citizenship: FILIPINO

WIFE

1. Name of Contracting Parties: (First) MARY GRACE, (Middle) MADRONA, (Last) DURAN
2a. Date of Birth: Thursday, 31 December 1998 (Age) 23
2b. Age: 23
3. Place of Birth: STA CRUZ SIERRA BULLONES BOHOL
4a. Sex: FEMALE
4b. Citizenship: FILIPINO
5. Residence: STA CRUZ SIERRA BULLONES BOHOL
6. Religion/ Religious Sect: ROMAN CATHOLIC
7. Civil Status: SINGLE
8. Name of Father: ROMEO MACALAM DURAN
9. Citizenship: FILIPINO
10. Name of Mother: FELICITAS MADRONA DURAN
11. Citizenship: FILIPINO

Preview 12. Front Page of Adding Registration of Marriage Information.

Preview 13 below presents the back page of adding registration of marriage information.

20b. **WITNESSES** (Print Name and Sign):
JOAN ASARES, REA MAE BLAZA, NIKKI JALOP

AFFIDAVIT OF SOLEMNIZING OFFICER

I, _____, of legal age, Solemnizing Officer of _____, after having sworn to in accordance with law, do hereby depose and say:

- That I have solemnized the marriage between _____ and _____
- a. That I have ascertained the qualifications of the contracting parties and have found no legal impediment for them to marry as required by Article 34 of the Family code;
 b. That this marriage was performed in articulo mortis or at the point of death;
 c. That the contracting party/ies _____ and _____ death and physically unable to sign the foregoing certificate of marriage by signature or mark, one of the witnesses to the marriage; sign for him or her by writing the dying party's name and beneath it, the witness' own signature preceded by the preposition "By";
 d. That the residence of either party is so located that there is no means of transportation to enable concerned party/parties to appear personally before the civil registrar;
 e. That the marriage was among Muslims or among members of the Ethnic Cultural Communities and that the marriage was solemnized in accordance with their customs and practices;
- That I took the necessary steps to ascertain the ages and relationship of the contracting parties and that neither of them are under any legal impediment to marry each other;
- That I am executing this affidavit to attest to the truthfulness of the foregoing statements for all legal intents and purposes.

Preview 13. Back of Adding Registration of Marriage Information

Preview 14 below illustrates the front page of adding registration of death information.

Death Registration Municipal Form No. 103 (Revised August 2016) Republic of the Philippines OFFICE OF THE CIVIL REGISTRAR GENERAL (To be accomplished)

CERTIFICATE OF DEATH

Province: BOHOL Registry No.: 2022-01
 City/ Municipality: SIERRA BULLONES Date of Registration: 30/05/2022

1. NAME (First) MARY GRACE (Middle) MADRONA (Last) DURAN 5. AGE AT THE TIME OF DEATH a. IF 1 YEAR OR ABOVE [2] Completed years 23

3. DATE OF DEATH (Day) (Month) (Year) 30/05/2022 4. DATE OF BIRTH (Day) (Month) (Year) 30/05/2022 2. SEX (Male/ Female) FEMALE 7. CIVIL STATUS (Fill-in below accordg. to age category) SINGLE b. IF UNDER 1 YEAR [1] Months [0] Days c. IF UNDER Hours Min/Sec

6. PLACE OF DEATH (Name of Hospital/ Clinic /Institution/ House No., St., Barangay) STA CRUZ (City/ Municipality) SIERRA BULLONES (Province) BOHOL

8. RELIGION/RELIGIOUS SECT ROMAN CATHOLIC 9. CITIZENSHIP FILIPINO 10. RESIDENCE (House No., St., Barangay) STA CRUZ (City/Municipality) SIERRA BULLONES (Province) BOHOL (Country) PHILIPPINES

11. OCCUPATION STUDENTS 12. NAME OF FATHER ROMEO DURAN 13. MAIDEN NAME OF MOTHER FELICITAS DURAN

MEDICAL CERTIFICATE (For ages 0 to 7 days, accomplish items 14-19a at the back)

19b. CAUSES OF DEATH (If the deceased is age 8 days and over) Interval Between Onset and Death

I. Immediate cause : a. INJURY
 Antecedent cause : b.
 Underlying cause : c.

II. Other significant conditions contributing to death:

Preview 14. Front Page of Adding Registration of Death Information

Preview 15 below shows the back page of adding registration of death information.

FOR CHILDREN AGED 0 TO 7 DAYS

14. AGE OF MOTHER 15. METHOD OF DELIVERY (Normal spontaneous vertex, if others, specify) 16. LENGTH OF PREGNANCY: (in completed weeks)

17. TYPE OF BIRTH (Single, Twin, Triplet, etc) 18. IF MULTIPLE BIRTH, CHILD WAS (First, Second, Third, etc)

MEDICAL CERTIFICATE

19a. CAUSES OF DEATH
 a. Main disease/condition of infant
 b. Other diseases/conditions of infant
 c. Main maternal disease/condition affecting infant
 d. Other maternal disease/condition affecting infant
 e. Other relevant circumstances

CONTINUE TO FILL UP ITEM 20

POSTMORTEM CERTIFICATE OF DEATH
 I HEREBY CERTIFY that I have performed an autopsy upon the body of the deceased and that the cause of death was

Signature _____ Title/Designation _____
 Name in Print _____ Address _____
 Date _____

CERTIFICATION OF EMBALMER
 I HEREBY CERTIFY that I have embalmed _____
 all the regulations prescribed by the Department of Health.

Signature _____ Title/Designation _____
 Name in Print _____ License No. _____
 Address _____ Issued on _____

Preview 15. Back Page of Adding Registration of Death Information

Preview 16 below shows the update and search form for registration of birth.

Press Esc to Close

Print Front Original Print Back Original Print Form 1A

Live Birth Civil Registry Form

Search for
Word to search for:

Search Results Registry No 2022-01

Registry Number	Date Registration	Last Name	First Name	Middle Name	Sex	Do
2022-01	30/05/2022	DURAN	MARY GRACE	MADRONA	FEMALE	30/
2022-02	30/05/2022	BLAZA	REA MAE	TUTOR	FEMALE	31/
2022-03	30/05/2022	ASARES	JOAN	ESCATRON	FEMALE	30/
2022-04	30/05/2022	JALOP	NIKKI	CAHAPON	MALE	30/

Registry Number: 2022-01
 Date of Registration: 30/05/2022
 Name of Child: DURAN MARY GRACE MADRONA
 Sex: FEMALE
 Date of Birth: 30/05/2022
 Place of Birth: STA CRUZ
 Name of Mother: FELICITAS
 Citizenship of Mother: FILIPINO
 Name of Father: ROMEO
 Citizenship of Father: FILIPINO
 Date of Marriage of Parents: 30/05/2022
 Place of Marriage of Parents: JAGNA

Remarks:

UPDATE

Preview 16. Update and Search form for Registration of Birth

Preview 17 below shows the update and search form for registration of marriage.

Press Escape to Close

Print Front Original Print Back Original Print Form 3A

Marriage Civil Registry Form

Search for
Word to search for:

Search Results Registry No 2022-01

name of husb	name of wife	age of husb	age of wife	cti of husb	cti of wife
AMPO	ASARES	25	24	FILIPINO	FILIPINO
CURAY	BLAZA	20	20	FILIPINO	FILIPINO
OYANGURIN	DURAN	23	23	FILIPINO	FILIPINO
RIZAL	JALOP	33	23	SPANISH	FILIPINO

Name: HUSBAND OYANGURIN WIFE DURAN
 Age: 23 23
 Citizenship: FILIPINO FILIPINO
 Civil Status: SINGLE SINGLE
 Name of Father: RONNE ROMEO
 Name of Mother: BEBE FELICITAS
 Registry Number: 2022-01
 Date of Registration: 30/05/2022
 Place of Marriage: IMMACULATE CONCEPTION PARISH

Remarks:

UPDATE

Preview 17. Update and Search Form for Registration of Marriage

Preview 18 below shows the update and search form for registration of death.

Press ESC to Close

Death Civil Registry Form

[Print Front Original](#)
 [Print Back Original](#)
 [Print Form 2A](#)

Search for _____
 Word to search for: _____

DEATH
 BIRTH
 MARRIAGE

Registry Number: 2022-01

Date of Registration: 30/05/2022

Name of the Deceased: DURAN MARY GRACE MADRONA

Sex: FEMALE

Age: 23

Civil Status: SINGLE

Citizenship: FILIPINO

Date of Death: 30/05/2022

Place of Death: STA CRUZ

Cause of Death: INJURY

Remarks: _____

Registry Number	Date Registration	Name Deceased	First Name	Middle Name	Sex	Age
2022-01	30/05/2022	DURAN	MARY GRACE	MADRONA	FEMALE	23
2022-02	30/05/2022	LAMBUS	LEN	MACALAM	FEMALE	23
2022-03	29/05/2022	TAMPOLANA	NARCISA	MACALAM	FEMALE	77

Total Death: 3

Preview 18. Update and Search Form for Registration of Death

Preview 19 below shows the request and add file form for the claimants.



LCRO BOHOL

Republic of the Philippines

Local Civil Registrar Office

Municipality of Sierra Bullones, 6320 Bohol, Philippines

Philippine Standard Time

May 30, 2022 6:14:03 pm

[Logout](#)

Claimants Request

Name of Claimants: MARY GRACE DURAN

Registry Number: 2022-01

Date of Request: Monday, 30 May 2022

Services: BIRTH

Authorize Person: STEPHANIE DURAN

O R Number: 2352

Prepared By: JULIET D. LUMBO-AN



Registry Number: _____

Name of Claimants	Registry Number	Date Request	Services	Authorize Person
JOAN ASARES	2022-03	Monday, 30 May	BIRTH	JULIET D. LUMBO-AN
REA MAE BLAZA	2022-02	Monday, 30 May	BIRTH	JOAN ASARES

[To Generate](#)

[ADD FILE](#) [SAVE](#)

System Checked

New Claimants Request has been added!

[OK](#)

Email: lcrbullones@gmail.com Mobile Number/s: 09307522151

Preview 19. Request and Add file Form for the Claimants

Preview 20 below shows the account log.

Republic of the Philippines
Local Civil Registrar Office
 Municipality of Sierra Bullones, 6320 Bohol, Philippines

Philippine Standard Time
 August 04, 2022 11:02:45 am

Logout

accountlog

Account Log

From: 01/07/2022
 To: 04/08/2022

Username	Password	Position	Date	Time In	Time Out
admin	12345	HEAD OFFICE	July 14, 2022	5:43:42 pm	5:43:57 pm
ADMIN	12345	HEAD OFFICE	July 14, 2022	5:52:03 pm	5:52:08 pm
admin	12345	HEAD OFFICE	July 14, 2022	7:17:53 pm	7:19:19 pm
admin	12345	HEAD OFFICE	July 14, 2022	7:08:03 pm	7:16:29 pm
ADMIN	12345	HEAD OFFICE	July 14, 2022	6:59:28 pm	6:59:28 pm
ADMIN	12345	HEAD OFFICE	July 14, 2022	6:45:35 pm	6:45:53 pm
ADMIN	12345	HEAD OFFICE	July 14, 2022	6:43:27 pm	6:44:36 pm
admin	12345	HEAD OFFICE	July 14, 2022	6:42:03 pm	6:42:13 pm
ADMIN	12345	HEAD OFFICE	July 14, 2022	5:53:41 pm	5:54:56 pm
ADMIN	12345	HEAD OFFICE	July 14, 2022	5:52:44 pm	5:52:44 pm

View History Print Account Log

Email: lcrbullones@gmail.com Mobile Number/s: 09307522151

Preview 20. The Account Log

Preview 21 below illustrates the adding user form.

Republic of the Philippines
Local Civil Registrar Office
 Municipality of Sierra Bullones, 6320 Bohol, Philippines

Philippine Standard Time
 May 30, 2022 6:32:41 pm

Logout

frmuseradd

ADD USER

Firstname: MARY GRACE Age: 24 Civil Status: SINGLE
 Middle: MADRONA Birthdate: 31/12/1998 Address: STA CRUZ SIERRA BULLONES BOHOL
 Surname: DURAN Gender: Female Date Hired: 30/05/2022 Date Resign: 30/05/2022 Position: HEAD OFFICE
 Username: ADMIN Password: *****

Save Close

User successfully added
 OK

Name	Middle	Surname	Age	Gender	Civil	Address
JOAN	ESCATRON	ASARES	23	Female	Single	LA UNION S
NIKKI	CAHAPON	JALOP	23	FEMALE	Single	STA CRUZ S

Email: lcrbullones@gmail.com Mobile Number/s: 09307522151

Preview 21. The Adding User Form

Preview 22 below shows the daily accomplishment report for account log.

List of Reports

Republic of the Philippines
PROVINCE OF BOHOL
Municipality of Sierra Bullones
OFFICE OF THE LOCAL CIVIL REGISTRAR

Username	Position	Date	Time In	Time Out
admin	HEAD OFFICE	July 13 2022	9:53:24 am	9:55:28 am
admin	HEAD OFFICE	July 13 2022	10:04:28 am	11:07:15 am
ADMIN	HEAD OFFICE	July 13 2022	11:11:43 am	11:12:31 am
admin	HEAD OFFICE	July 13 2022	11:19:51 am	11:19:58 am
staff	STAFF	July 13 2022	11:20:10 am	4:30:11 pm
admin	HEAD OFFICE	July 13 2022	4:30:24 pm	4:30:29 pm
staff	STAFF	July 13 2022	4:30:37 pm	4:30:47 pm

Current Page No.: 1 Total Page No.: 1+ Zoom Factor: 100%

Preview 22. Daily Accomplishment Reports for Account Log

Preview 23 below presents the certification of live birth.

Municipal Form No. 132
(Revised August 2016)

Republic of the Philippines
OFFICE OF THE CIVIL REGISTRAR GENERAL
CERTIFICATE OF LIVE BIRTH

Province: BOHOL Registry No.: 2022-01
City/Municipality: SIERRA BULLONES

1. NAME (First, Middle, Last): MARY GRACE MADRONA DURAN
2. SEX (Male / Female): FEMALE 3. DATE OF BIRTH (Day, Month, Year): 30/05/2022
4. PLACE OF BIRTH (Name of Hospital/Clinic/Institution/ House No., St., Barangay, City/Municipality, Province): STA CRUZ, SIERRA BULLONES, BOHOL
5a. TYPE OF BIRTH (Single, Twin, Triplet, etc.): SINGLE 5b. IF MULTIPLE BIRTH, CHILD WAS (First, Second, Third, etc.): FIRST 5c. BIRTH ORDER (Order of this birth in chronological order including fetal death) (First, Second, Third, etc.): FIRST 6. WEIGHT AT BIRTH: 5 grams
7. MARIEN NAME (First, Middle, Last): FELICITAS MADRONA DURAN
8. CITIZENSHIP: FILIPINO 9. RELIGION/RELIGIOUS SET: ROMAN CATHOLIC
10a. Total number of children born alive: 0 10b. No. of children still living including this birth: 0 10c. No. of children born alive but are now dead: 0 11. OCCUPATION: HOUSEWIFE 12. AGE at the time of this birth (Completed years): 40
13. RESIDENCE (House No., St., Barangay, City/Municipality, Province, Country):
14. NAME (First, Middle, Last):

Current Page No.: 1 Total Page No.: 1+ Zoom Factor: 100%

Preview 23. The Certification of Live Birth

Preview 24 below shows the certification of marriage.

Municipal Form No. 97
(Revised January 2007)

Republic of the Philippines
OFFICE OF THE CIVIL REGISTRAR GENERAL

(To be accomplished in quadruplicate using black ink)

CERTIFICATE OF MARRIAGE

Province: _____ Registry No.: _____
 City/Municipality: SIERRABULLONES 2022-01

HUSBAND				WIFE			
1. Name of Contracting Parties	First: ROMEL Middle: LUMANDAS Last: OYANGURIN	First: DURAN Middle: MADRONA Last: MARY GRACE					
2. Date of Birth	(Day) (Month) (Year) (Age) Tuesday, 24 November 23	(Day) (Month) (Year) (Age) Thursday, 31 December 23					
3. Place of Birth	(City/Municipality) (Province) (Country) LA SALVACION CARMEN BOHOL	(City/Municipality) (Province) (Country) STA CRUZ SIERRA BULLONES BOHOL					
4. Sex	MALE	FEMALE					
5. Residence	(House No., St., Barangay, City/Municipality, Province, Country) LA SALVACION CARMEN BOHOL	(House No., St., Barangay, City/Municipality, Province, Country) STA CRUZ SIERRA BULLONES BOHOL					
6. Religion/ Religious Sect	ROMAN CATHOLIC	ROMAN CATHOLIC					
7. Civil Status	SINGLE	SINGLE					
8. Name of Father	First: RONNE Middle: MACAS Last: OYANGURIN	First: ROMEO Middle: MACALAM Last: DURAN					
9. Citizenship	FILIPINO	FILIPINO					
10. Maiden Name of Mother	First: BEBE Middle: LUMANDAS Last: OYANGURIN	First: FELICITAS Middle: MADRONA Last: DURAN					
11. Citizenship	FILIPINO	FILIPINO					
12. Name of Person for Affidavit of Absence	First: _____ Middle: _____ Last: _____	First: _____ Middle: _____ Last: _____					
13. Relationship							
14. Residence	(House No., St., Barangay, City/Municipality, Province, Country)	(House No., St., Barangay, City/Municipality, Province, Country)					
15. Place of Marriage	IMMACULATE CONCEPTION PARISH						

Current Page No.: 1 Total Page No.: 1+ Zoom Factor: 100%

Preview 24. The Certification of Marriage

Preview 25 below shows the certification of death.

Municipal Form No. 103
(Revised January 2007)

Republic of the Philippines
OFFICE OF THE CIVIL REGISTRAR GENERAL

(To be accomplished in quadruplicate using black ink)

CERTIFICATE OF DEATH

Province: BOHOL Registry No.: _____
 City/Municipality: SIERRA BULLONES 2022-01

1. NAME	First: MARY GRACE Middle: MADRONA Last: DURAN	2. SEX (Male/Female)	FEMALE
3. DATE OF DEATH (Day, Month, Year)	4. DATE OF BIRTH (Day) (Month) (Year)	5. AGE AT THE TIME OF DEATH (If 6 or below, specify age category)	6. PLACE OF DEATH (Name of Hospital/Clinic/Health Center/House No., St., Barangay, City/Municipality, Province)
30/05/2022	30/05/2022	23	STA CRUZ SIERRA BULLONES BOHOL
8. RELIGION/RELIGIOUS SECT	9. CITIZENSHIP	10. RESIDENCE (House No., St., Barangay, City/Municipality, Province, Country)	7. CIVIL STATUS (Single/Married/Widower/Widow/Annulled/Divorced)
ROMAN CATHOLIC	FILIPINO	STA CRUZ SIERRA BULLONES BOHOL	SINGLE
11. OCCUPATION	12. NAME OF FATHER (First, Middle, Last)	13. MAIDEN NAME OF MOTHER (First, Middle, Last)	
NONE	ROMEO	FELICITAS	
MEDICAL CERTIFICATE (For ages 0 to 7 days, accomplish items 14-19a at the back)			
19b. CAUSES OF DEATH (If the deceased is aged 8 days and over)			
I. Immediate cause		Interval Between Onset and Death	
Antecedent cause		NONE	
Underlying cause		NONE	
II. Other significant conditions contributing to death: NONE			
19c. MATERNAL CONDITION (If the deceased is female aged 15-46 years old)			
X a. pregnant, not in labour b. pregnant, in labour c. less than 42 days after delivery d. 42 days to 1 year after delivery e. None of the choices			

Current Page No.: 1 Total Page No.: 1+ Zoom Factor: 100%

Preview 25. The Certification of Death

Preview 26 below shows the Form 1A of live birth certification.

reports

SAP CRYSTAL REPORTS*

Republic of the Philippines
 PROVINCE OF BOHOL
 Municipality of Sierra Bullones
 OFFICE OF THE LOCAL CIVIL REGISTRAR

Civil Registry Form No. 1A
 (Birth- Available)

TO WHOM IT MAY CONCERN : 30/05/2022

We certify that, among others, the following facts of birth appear in our Register of Births on

page	6	book number	10
Registry Number	2022-01		
Date of Registration	30/05/2022		
Name of Child	MARY GRACE MADRONA DURAN		
Sex	FEMALE		
Date of Birth	30/05/2022		
Place of Birth	STA CRUZ		
Name of Mother	FELICITAS		
Citizenship of Mother	FILIPINO MADRONA DURAN		
Name of Father	ROMEO MACALAM DURAN		
Citizenship of Father	FILIPINO		
Date of Marriage of Parents	30/05/2022		
Place of Marriage of Parents	JAGNA		
Remarks	This certification is issued to GOOD JOB upon his/her request.		

Current Page No.: 1 Total Page No.: 1+ Zoom Factor: 100%

Preview 26. The Form 1A of Live Birth Certification

Preview 27 below shows the Form 2A of death certification.

reports

SAP CRYSTAL REPORTS*

Republic of the Philippines
 PROVINCE OF BOHOL
 Municipality of Sierra Bullones
 OFFICE OF THE LOCAL CIVIL REGISTRAR

Civil Registry Form No. 2A
 (Death- Available)

TO WHOM IT MAY CONCERN : 30/05/2022

We certify that, among others, the following facts of death appear in our Register of Death on

page	0	book number	Monda
Registry Number	2022-01		
Date of Registration	30/05/2022		
Name of the Deceased	MARY GRACE MADRONA DURAN		
Sex	FEMALE		
Age	23		
Civil Status	SINGLE		
Citizenship	FILIPINO		
Date of Death	30/05/2022		
Place of Death	STA CRUZ		
Cause of Death	INJURY		

Current Page No.: 1 Total Page No.: 1+ Zoom Factor: 100%

Preview 27. The Form 2A of Death Certification

Preview 28 below shows the Form 3A of marriage certification.

Civil Registry Form No. 3A
(Marriage - Available)

Republic of the Philippines
PROVINCE OF BOHOL
Municipality of Sierra Bullones
OFFICE OF THE LOCAL CIVIL REGISTRAR

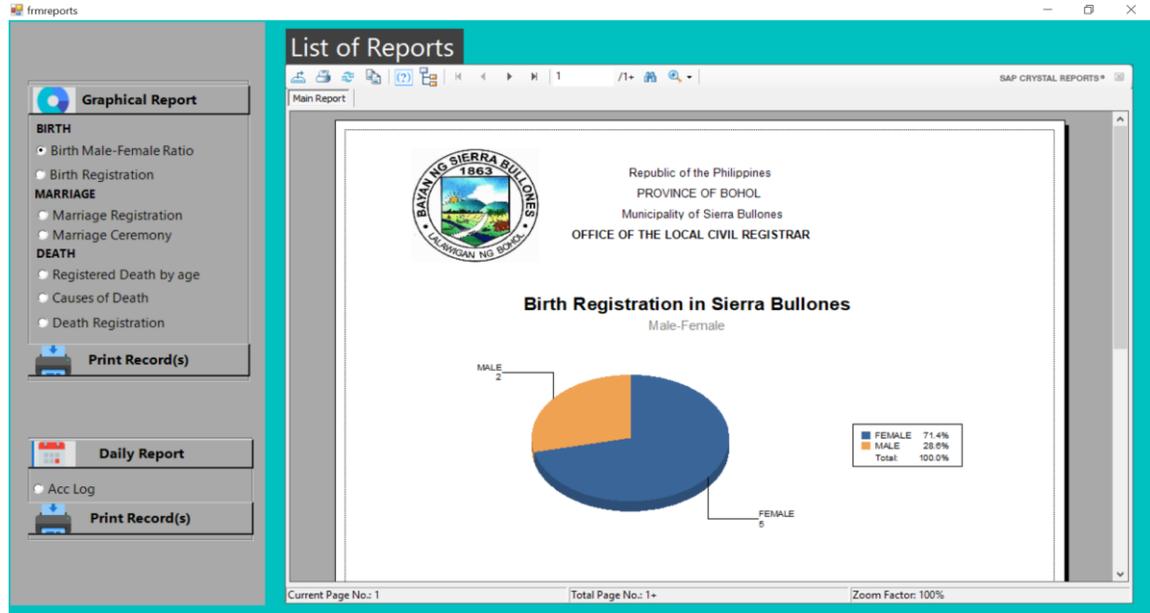
TO WHOM IT MAY CONCERN : 30/05/2022

We certify that, among others, the following facts of marriage appear in our Register of Marriage on
page 0 book number 0

	HUSBAND			WIFE		
Name	ROMEL LUMANDAS	OYANGURIN DURAN	MADRONA	MARY GRACE		
Age	23			23		
Citizenship	FILIPINO			FILIPINO		
Civil Status	SINGLE			SINGLE		
Name of Father	RONNE MACAS	OYANGURIN	ROMEO	MACALAM	DURAN	
Name of Mother	BEBE LUMANDAS	OYANGURIN	FELICITAS	MADRONA	DURAN	
Registry Number	2022-01					
Date of Registration	30/05/2022					
Date of Marriage	Monday, 30					

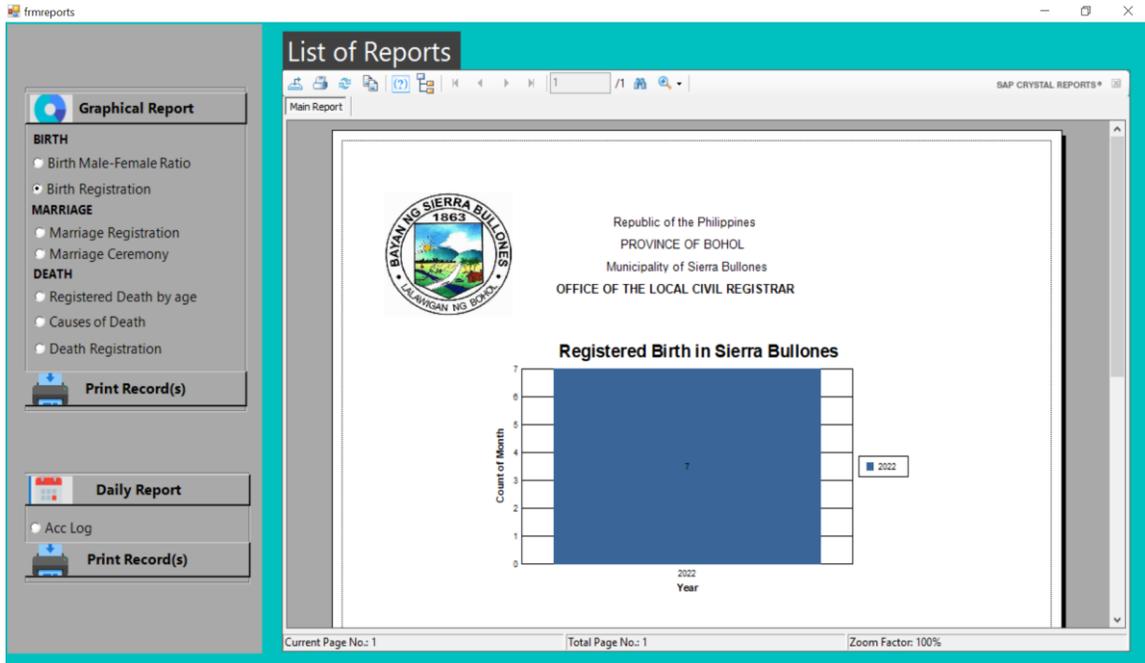
Preview 28. The Form 3A of Marriage Certification

Preview 29 the Graphical Report of the gender of birth registration.



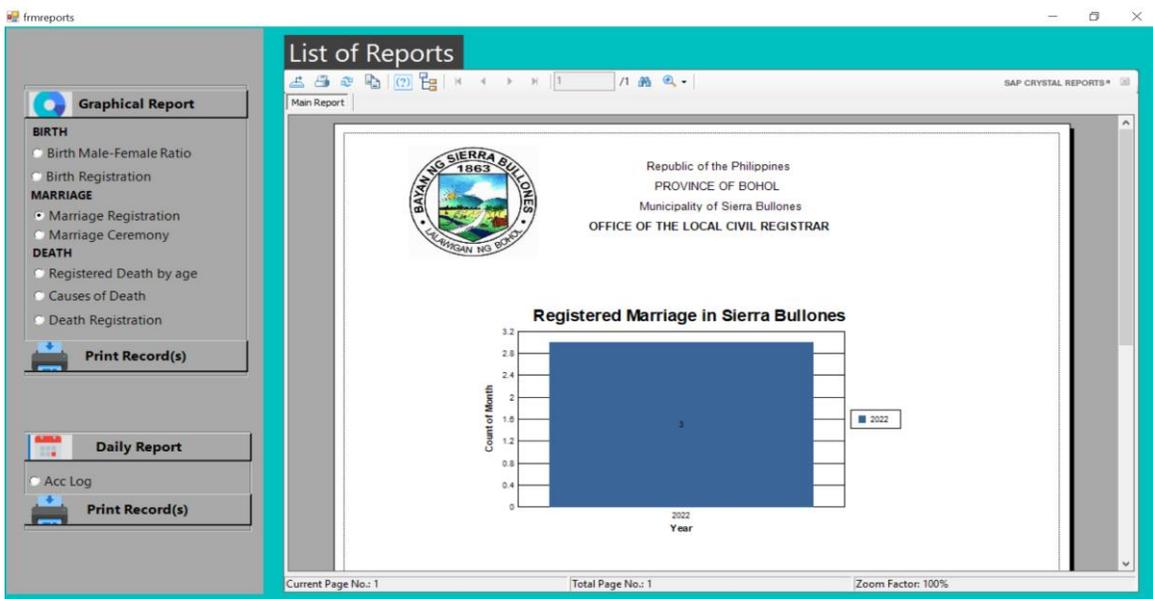
Preview 29. Gender Type Graphical Report of Birth Registration

Preview 30 below shows the annual graphical report of registered birth.



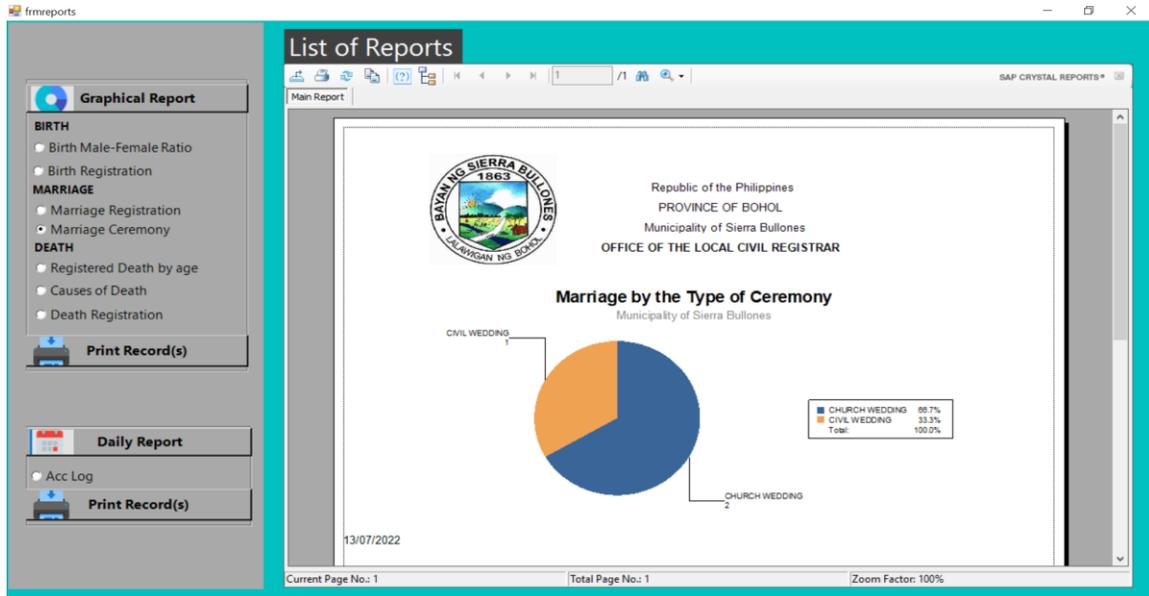
Preview 30. The Annual Graphical Report of Registered birth

Preview 31 below the annual graphical report of registered marriage.



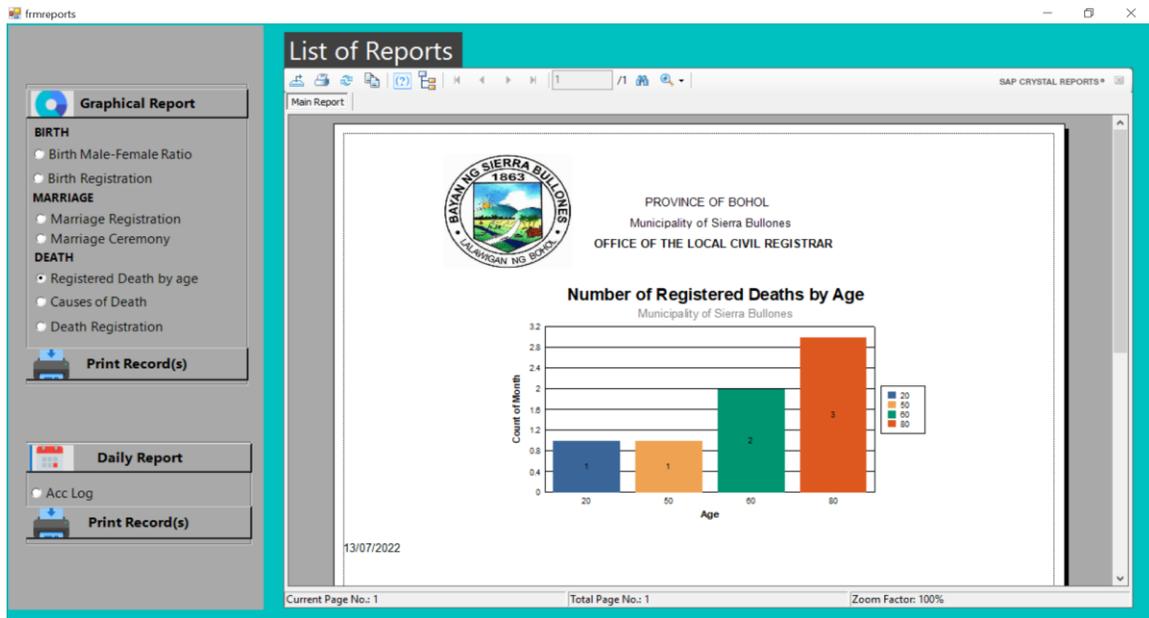
Preview 31. The Annual Graphical Report of Registered Marriage

Preview 32 shows the graphical report of the type of ceremony of marriage registration.



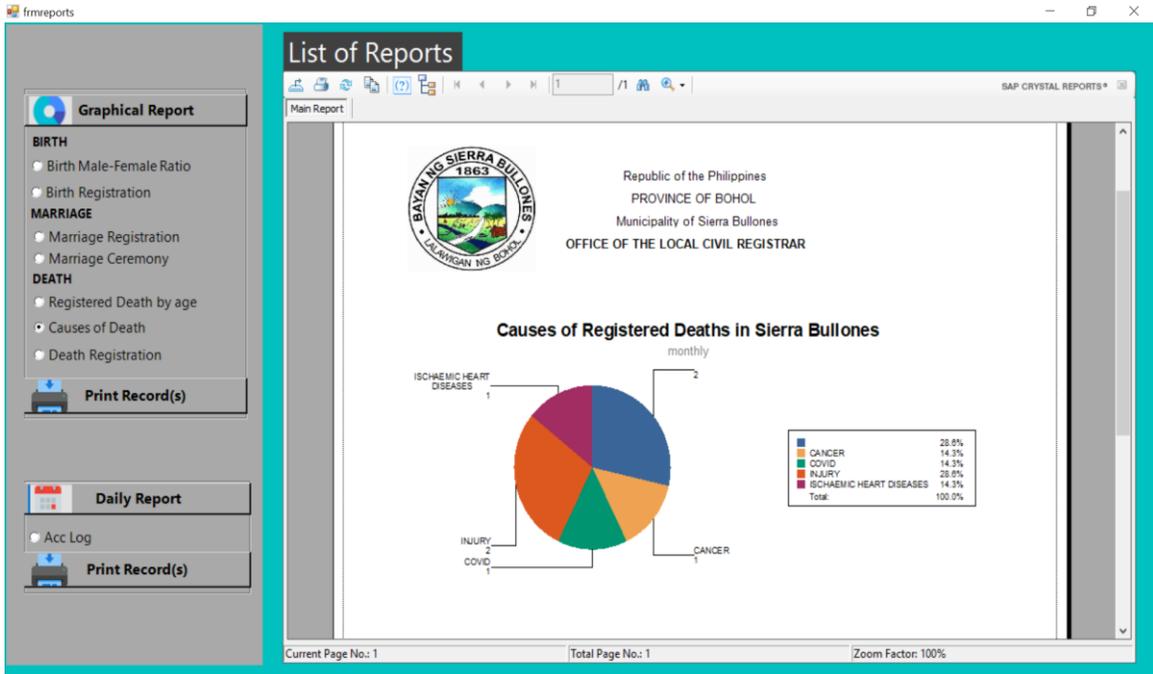
Preview 32. Graphical Report of the type of Ceremony in Marriage Registration.

Preview 33 shows the graphical report of the number registered death by age.



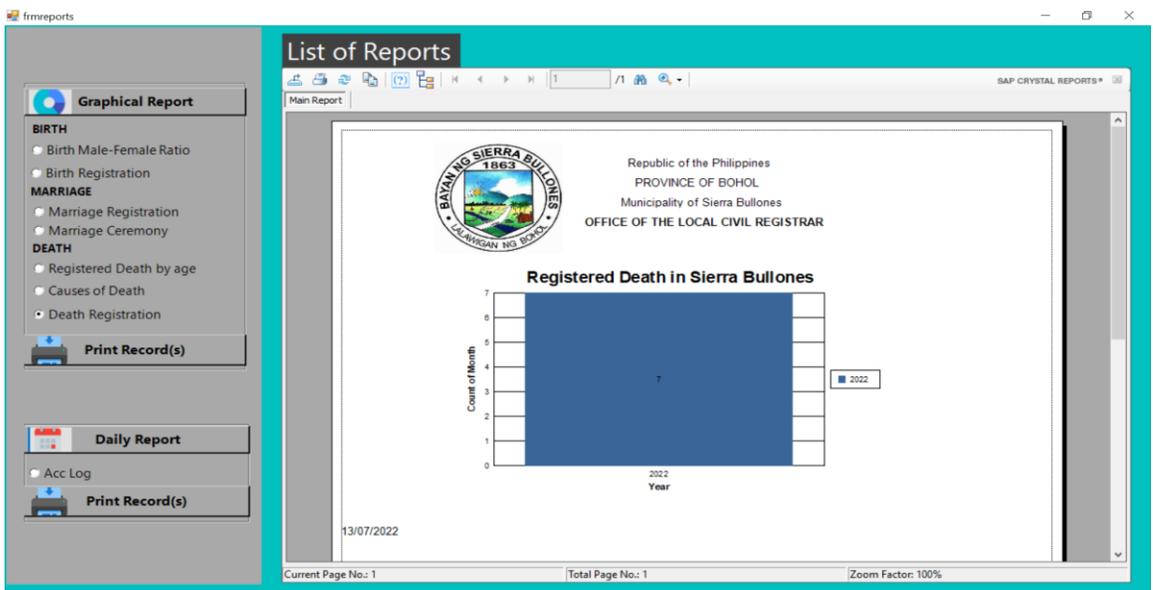
Preview 33. Graphical Report of the Number Registered Death by Age

Preview 34 shows the graphical report of the causes of registered death.



Preview 34. The Graphical Report of the Causes of Registered Death

Preview 35 below shows the yearly graphical report of registered death



Preview 35. The Yearly Graphical Report of Registered Death

Economic Performance Evaluation

The economic performance of the Registry Information System of Local Civil Registrar Office (LCR) in the Municipality of Sierra Bullones, Bohol was evaluated in terms of initial investment and annual operating cost. The initial investment is the amount required by the client before the commencement of the operation and implementation of the system. On the other hand, the annual operating cost is the total amount required in one year of implementation. This includes office supplies, utilities, system maintenance, and other related expenditures.

The table below presents the required investment and annual operating cost in the adoption of the system. Based on the result of the analysis, adopting the system requires a total amount of P89, 798.00 for the first year of implementation. The estimated amount would provide an idea to the client whether to adopt the computerization for human resource records management system or not.

Initial Investment and annual Operating Cost

Item	Qty	Unit	Unit Price	Total
A. Initial Investment				
1. Hardware				
Desktop Computer	3	Set	₱ 23,000.00	₱ 69000.00
Printer	1	Pieces	₱ 7,500.00	₱ 7,500.00
Printer Link	4	Pieces	₱ 350.00	₱ 1,400.00
RJ45	6	Pieces	₱ 10.00	₱ 60.00
Hub Switch	1	Pieces	₱ 2,500.00	₱ 2,500.00
UTP Cable	9	Meters	₱ 12.00	₱ 72.00
Sub-total				₱ 80,532.00
2. Software				
Software Licensing			₱ 8,000.00	₱ 8,000.00
Software Installation			₱ 1,000.00	₱ 1,000.00
Sub-total				₱ 9,000.00
Total Initial Investment Cost				₱ 89,532.00
B. Annual Operating Cost				
1. Office Supplies				
Bond paper	1	Reams	₱ 400.00	₱ 400.00
Ball Pen	3	Pieces	₱ 8.00	₱ 16.00
Stapler	1	Pieces	₱ 90.00	₱ 90.00
2. UTILITIES				
Electricity	12	Months	₱ 230.00	₱ 2,760.00
3. GENERAL SERVICES				
System Maintenance	4	Quarters	₱ 1,500.00	₱ 6,000.00
Sub-total				₱ 8,760.00
Total Annual Operating Cost				₱ 89,798.00

Testing and Evaluation

System testing of the application is usually done through the complete application software to evaluate the software's overall compliance with the business, functional, and end-user requirements. In system testing, a software test professional aims to detect defects or bugs both within the interfaces and also within the software as a whole. However, during the integration testing of the

application or software, the tester aims to detect the bugs or defects between the individual units that were integrated. During system testing, the focus is on the software design, behavior and even the believed expectations of the customer. Thus, a significant aspect of the design should be developed to ensure that the artifact meets the specified requirements, that is, the evaluation of the system. System usability was used as a parameter in this study.

System Usability

The researchers adopted a system usability questionnaire by Lewis, J. R. (1995). The system usability test was conducted by the researchers at the Local Civil Registrar Office in the municipality of Sierra Bullones, Bohol on May 25, 2022 from 10:00 A.M to 12:00 P.M in the morning.

The respondents were the 1 Office Head, 2 Staffs and 2 IT experts. The researchers demonstrated how the system must be used for testing. They demonstrated the system in detail like the inquiry process, request for certificates, registration process, and generate reports. It took two hours during the presentation and actual hands-on, they answered the system usability questionnaire.

Table 20

System Usability Result

Criteria for system usability	Weighted Mean	Rating
1. Overall, I am satisfied with how easy it is to use this system.	6	Agree
2. It was simple to use this system.	6.4	Agree
3. I can effectively complete my work using this system.	6.2	Agree
4. I am able to complete my work quickly using this system.	6.2	Agree
5. I am able to efficiently complete my work using this system.	6.2	Agree
6. I feel comfortable using this system.	7.0	Strongly Agree
7. It was easy to learn to use this system.	6	Agree
8. I believe I became productive quickly using this system.	6.2	Agree
9. The system gives error messages that clearly tell me how to fix problems.	5.8	Tend to Agree
10. Whenever I make a mistake using the system, I recover easily and quickly.	5.6	Tend to Agree
11. The information (such as online help, on-screen messages, and other documentation) provided by this system is clear.	5.6	Tend to Agree
12. It is easy to find the information I needed.	6.2	Agree
13. The information provided for the system is easy to understand.	6	Agree
14. The information is effective in helping me complete tasks and scenarios.	6	Agree
15. The organization of this system screens is clear.	6	Agree
16. The interface of this system is pleasant,	6	Agree
17. I like using the interface of this system.	6.2	Agree
18. This system has all the functions and capabilities I expect it to have.	5.8	Tend to Agree
19. Overall, I am satisfied with this system.	6.2	Agree
AVERAGE WEIGHTED	6.04	Agree

Chapter 3

SUMMARY OF FINDINGS, CONCLUSION, AND RECOMMENDATIONS

Summary of Findings

The current manual method of recording implemented in the LGU Local Civil Registrar in the municipality of Sierra Bullones has encountered limitations. The office still uses the semi-manual method of recording and manually searching for records in the registry book. Manual searching records takes time and there are some registry books that have been damaged from being old and are not clearly written. With this issue, there is a limitation in establishing records as experienced by the head of office and office staffs. Generation of monthly reports takes time. With these identified needs, the researchers came up with a solution that saves time and promotes better security in the client's record by developing the Registry Information System implemented with the following modules: recording, tracing, and administration.

The developed system fits the need of the unit as revealed in the system usability testing as assessed by the target user using the IBM Computer Usability Satisfaction Questionnaire. Based on the result of the evaluation, the target client had "agree" on the usefulness presented by the developed system. This implies that the system had met the needs and eliminated the gaps that were identified in the study.

Conclusion

Based on the finding of the study, the researcher concluded that the developed Registry Information System of the Local Civil Registrar Office in the Municipality of Sierra Bullones Bohol had improved the procedure of recording, retrieving, and storing of residents' personal data. The system evaluation rating with an average mean of 6.04 which was interpreted as "agree" as to system usability to the target clients. This suggests that they were pleased with the features in terms of ease of use, visual clarity, and user-friendly. The interpretation means that the respondents believed and were confident that the system is usable.

Recommendations

Based on the observations during the implementation and on the aforementioned conclusion, the researchers have suggested the following for smooth system adaptation and operation, as well as for future development:

1. Concerned office conduct benchmarking before the full implementation of the system;
2. Researchers must conduct system training seminars for the primary or target users to familiarize themselves and be oriented with the features and operation of the new system;
3. System maintenance must be done by the programmer on a regular basis to ensure the protection of records and the system's dependability.

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APPENDICES

APPENDIX A

LETTER OF INTENT



Republic of the Philippines
Bohol Island State University
Bilar Campus
Zamora, Bilar, Bohol



March 29, 2022

JULIET D. LUMBO-AN
Municipal Civil Registrar
Municipality of Sierra Bullones, Bohol

Ma'am:

Good day!

We, the 4th Year Students of Bachelor of Science in Computer Science of Bohol Island State University Bilar Campus will conduct a System Development project (Thesis) as requirements for graduation for the degree of Bachelor of Science in Computer Science.

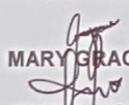
In this regard, we would like to ask your good office to allow us to conduct system study base on the claimants profile on your record.

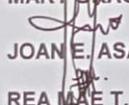
We assure you that we shall honor secrecy and privacy to all data and information we shall be handling during our data collection which include interview, observation and document review. As we go along with our study, your approval will be a great help to the success of our study.

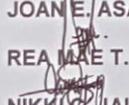
We anticipate your favorable response regarding this matter.

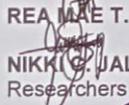
Thank you very much and more power!

Respectfully yours,

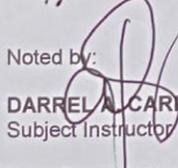

MARY GRACE M. DURAN


JOANE ASARES

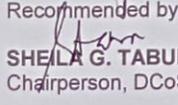

REA MAE T. BLAZA

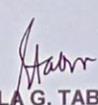

NIKKI G. JALOP
Researchers

Noted by:

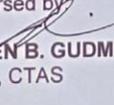

DARREL A. CARDAÑA
Subject Instructor

Recommended by:


SHEILA G. TABUNO
Chairperson, DCoS


SHEILA G. TABUNO
Thesis Adviser

Endorsed by:


ARLEN B. GUDMALIN, PhD
Dean, CTAS

Approved by:


JULIET D. LUMBO-AN
Municipal Civil Registrar

LETTER OF APPROVAL OF THE PROPOSED SYSTEM



Republic of the Philippines
BOHOL ISLAND STATE UNIVERSITY-BILAR
Zamora, Bilar, Bohol



Vision: A premier S&T university for the formation of a world class and virtuous human resource for sustainable development in Bohol and the Country.

Mission: BISU is committed to provide quality higher education in the arts & sciences, as well as in professional & technological fields; undertake research & development, & extension services for the sustainable development of Bohol & the country.

COLLEGE OF TECHNOLOGY AND ALLIED SCIENCES

Department of Computer Science

APPROVAL SHEET

This is to certify that the following researchers **Mary Grace M. Duran, Joan E. Asares, Nikki C. Jalop, Rea Mae T. Blaza** Bachelor of Science in Computer Science students, would like to present their proposal entitled "Registry Information System of Local Civil Registrar in the Municipality of Sierra Bullones, Bohol" in partial fulfillment of the requirements for the subject THESIS 2 (THESIS WRITING 2) this will be presented on May 25, 2022 at 11:00-12:00 am at QA.

The Thesis Committee:	Date	Signature
SHEILA G. TABUNO Thesis Adviser	_____	_____
JOEL A. PIOLLO Panel Expert	_____	_____
DENNIS DOMINIC CUADRA Panel	_____	_____
DANIE BALDESCO Panel	_____	_____

ARLEN B. GUDMALIN
Dean, CTAS

Recommending Approval:

SHEILA G. TABUNO
Chairperson, DCoS

ARLEN GUDMALIN, Ph.D
DEAN-CTAS

**LETTER OF APPROVAL OF QUESTIONER DISTRIBUTION AND
IMPLEMENTATION**

MAY 27, 2021

JULIET D. LUMBO-AN

Municipal Civil Registrar
Sierra Bullones, Bohol

Dear Ma'am Greeting!

It is our pleasure to inform you that the system application "Registry Information System of Local Civil Registrar in the Municipality of Sierra Bullones, Bohol" is now in its final phase. With this, we would like to conduct benchmarking activities as part of implementation.

This well conducted on May 27, 2022 in your office at any time of your convenience. This activity will allow you to assess our developed system and give feedback as well.

By this time, we would like to express our gratitude for allowing us to conduct our thesis study. We are hoping for future collaboration with you our dear client.

May the good Lord continually bless you and your office.

Thank you and more power!

Very truly yours,

MARY GRACE M. DURAN

JOAN E. ASARES

NIKKI C. JALOP

REA MAE T. BLAZA

Researchers

Endorsed by:

SHEILA G. TABUNO

Thesis Adviser

Recommending Approval:

ARLEN B. GUDMALIN,

Dean, CTAS

SHIELA G. TABUNO

Chairperson DCoS

Approved by:

JULIET D. LUMBO-AN

Municipal Civil Registrar

APPENDIX B

System Usability Questionnaire

Instructions:

- Please rate the usability questioner
- Try to respond to all of the items
- For items that are not applicable, use N/A
- Make sure these fields are filled in

Rating Scale:

7 – Strongly Agree

6 – Agree

5 – Tend to Agree

4 – Neither Agree or Disagree

3 – Tend to Disagree

2 – Disagree

1 – Strongly Disagree

20. Please list the three things you like most about this system software: 1. 2. 3.		
21. Please list the three things you liked least about this system software: 1. 2. 3.		

Based on Lewis J.R (1995) IBM Computer Usability Satisfaction Questioners:

Psychometric Evaluation & Instruction for Use

Interview Guide Questions

Office Head

1. Who is in-charge in doing the transactions in the Office?
2. Who can access the system?
3. Who are your customers?
4. What is the necessary information needed in claimant's profile?
5. What are the processes to avail the services?
6. How to get registered if the person is not authorized?
7. How to get certification as claimants?
8. How to request if there's misspell in client's data information?
9. What are the problems encountered in the present system?
10. How do they protect the important files of registrants and claimants?

APPENDIX C

User's Manual

A. Accessing the System

Step:

1. Click on the system shortcut
2. Input username and password
3. Choose the designated position
4. Click "Login" button to access the system

B. Adding registrants Information of Live Birth

Step:

1. Click "Live Birth Button"
2. Fill up all the blank data form in page 1 and page 2
3. Then, Click "Save" button to save the filled out form
4. "New Birth has been added!"

C. Adding registrants Information of a deceased

Step:

1. Click "Death Button"
2. Fill up all the blank data form on page 1 and page 2
3. Then, Click "Save" button to save the filled out form
4. "New Death has been added!"

D. Adding registrants Information of marriage

1. Click "Marriage Button"
2. Fill up all the bank data form on page 1 and page 2
3. Click "Save" button to save the filled out form
4. "New Marriage has been added!"

E. Search/Tracing

1. Click "Search" button.
2. Choose from the radio button you want to search Birth, Death, and Marriage and click
3. Go to search bar and type the name you want to trace
4. Click the "data grid view" for viewing all information on the screen
5. Click update button for remarks only.
6. Proceed to printing either original copy or local copy
7. Display the registrant information on the screen
8. Generate a printed output.

F. For Request

1. Click For Request Button
2. Fill up the blank data form, including the name of the authorized person for claiming
3. Add scan file
4. Click "Save"

5. New Claimant's request has been added
6. Display the claimant's record
7. To generate certificates

G. Add User

1. Fill up user's information
2. Click "Save" button
3. User Successfully added
4. Display the list of users

H. Account log

1. Click "Account Log" button
2. Display the Time in and Time out of the system user
3. Click "Print account logs" for printing output
4. Generate a daily printed output

I. Generate Reports

1. Click Reports Button
2. Select the "Graphical Report" for Birth
3. Select "Monthly Birth Male-Female Ratio" button

4. Display the graphical report of Monthly registration of male and female of birth
5. Select “ Yearly Birth Registration” button
6. Generate transaction of birth registration by annual
7. Select the “Graphical Report” for marriage
8. Select “Yearly Marriage Registration” button
9. Generate transaction of marriage registration by annual
10. Select “ Yearly Marriage Ceremony” button
11. Generate transaction of marriage type of ceremony by annual
12. Select the “ Graphical Report” for death
13. Select “ Monthly Registered Death by age” button
14. Generate the month’s registered death by age
15. Select “ Monthly cause of death” button
16. Generate the month’s cause of death
17. Click Marriage Report for Monthly printing records
18. Generate the printed monthly marriage report
19. Select Report either Monthly or Annual for printing records
20. Generate a transaction report by monthly and Annual
21. Generate a transaction report by the month
22. Generate a transaction report from annual
23. Generate a printed out form of all graphical reports

APPENDIX D SOURCE CODE

Connection:

```
Imports MySql.Data.MySqlClient
Imports
MySql.Data.MySqlClient.MySqlDataReader
Module Connect
    Public con As New
    MySqlConnection("Server=localhost;User=root;password=;database=dblcr.sql")
    ReadOnly Property getConnection() As
    MySqlConnection
        Get
            Return con
        End Get
    End Try
End Sub
Sub openConnection()
    If con.State = ConnectionState.Closed Then
        con.Open()
    End If
End Sub
Sub closeConnection()
    If con.State = ConnectionState.Open Then
        con.Close()
    End If
End Sub
End Module
```

Log in:

```
Private Sub Button1_Click(sender As Object, e
As EventArgs) Handles Button1.Click
    perform()
    If txtusername.Text = Nothing Then
        MsgBox("Username Required!",
    MsgBoxStyle.Information, "System Checked")
        txtusername.Focus()
        Return
    End If
    If txtpassword.Text = Nothing Then
        MsgBox("Password Required!",
    MsgBoxStyle.Information, "System Checked")
        txtpassword.Focus()
        Return
    End If
    If b = True Then
        Dim s As String = "Insert into
tbacc_log(user,pass,position,date,tin,tout)values('
" & txtusername.Text & "',' & txtpassword.Text &
 "',' & cutype & "',' & ddate.Text & "',' &
ttime.Text & "',' & ttime.Text & "')"
        Dim cmd As New MySqlCommand(s, con)
        con.Open()
        cmd.ExecuteNonQuery()
        MsgBox("Welcome User!",
    MsgBoxStyle.Information, "SUCCESS")
        con.Close()
        txtusername.Text = Nothing
        txtpassword.Text = Nothing
        txtusername.Focus()
```

```
End Property
Sub setconnection()
    Try
        con.ConnectionString = "Server=" &
    My.Settings.host & ";Database=" &
    My.Settings.dbname & ";User ID=" &
    My.Settings.usid & ";Password=" &
    My.Settings.pwd & ""
        con.Open()
        con.Close()
    Catch ex As Exception
        ex.ToString()
    End Try
Main.Show()
Me.Hide()
Else
    MsgBox("Invalid!",
    MsgBoxStyle.Information, "System Checked")
    txtusername.Text = Nothing
    txtpassword.Text = Nothing
    'cmb_prev.Text = Nothing
    Return
End If
End Sub
```

Accountlog:

```
Imports MySql.Data.MySqlClient
Public Class accountlog
    Sub accountlog()
        Dim lt As String = "select user as
'Username' , pass as 'Password', position as
'Position', date as 'Date', tin as 'Time In', tout as
'Time Out' from tbacc_log order by user"
        Dim da As New MySqlDataAdapter(lt, con)
        If con.State = ConnectionState.Open Then
            con.Close()
        End If
        con.Open()
        Dim ds As New DataSet
        da.Fill(ds, "tbacc_log")
        da.Dispose()
        DataGridView1.DataSource = ds.Tables(0)
    End Sub
    Private Sub accountlog_Load(sender As
Object, e As EventArgs) Handles MyBase.Load
        accountlog()
    End Sub
    Private Sub Button1_Click(sender As Object, e
As EventArgs) Handles Button1.Click
        frmreports.Show()
        Dim con As New
    MySqlConnection("server=localhost;user=root;pa
ssword=;database=dblcr.sql;")
        con.Open()
        Dim dt As New DataTable
        Dim cmd As New MySqlCommand("select *
from tbacc_log order by id", con)
        Dim sda As New MySqlDataAdapter(cmd)
```

```

sda.Fill(dt)
Dim cr As New report_acclog
cr.SetDataSource(dt)
reports.CrystalReportViewer1.ReportSource
= cr
reports.CrystalReportViewer1.Refresh()
cr.Close()
cr.Dispose()
End Sub
Private Sub Button2_Click(sender As Object, e
As EventArgs) Handles Button2.Click
con.Close()
loadaccountlog()
End Sub
Sub loadaccountlog()
Dim da1 As DateTime =
DateTime.Parse(dt1.Text)
Dim da2 As DateTime =
DateTime.Parse(dt2.Text)
Dim sql As String = "select user as
'Username', pass as 'Password', position as
'Position', tbacc_log.date as Date, tin as 'Time In',
tout as 'Time Out' from tbacc_log where
tbacc_log.date >=" & Format(dt1.Value, "MMMM
dd,yyyy") & " AND tbacc_log.date <=" &
Format(dt2.Value, "MMMM dd,yyyy") & ""
Dim da As New MySqlDataAdapter(sql, con)
con.Open()
Dim ds As New DataSet
da.Fill(ds, "tbacc_log")
da.Dispose()
DataGridView1.DataSource = ds.Tables(0)
con.Close()
End Sub
End Class

```

Add User:

```

Imports MySql.Data.MySqlClient
Public Class frmuseradd
Private Sub Button2_Click(sender As Object, e
As EventArgs) Handles Button2.Click
If MessageBox.Show("Do you want to
proceed?", "Add User",
MessageBoxButtons.YesNo) Then
Dim s As String = "INSERT INTO
tblogin(fname,middle,surname,age,gender,civil,a
ddress,birthdate,datehired,dateresign,user,pass,p
osition) VALUES (" & fname.Text & "," &
mname.Text & "," & surname.Text & "," &
age.Text & "," & gender.Text & "," & cmb.Text &
"," & address.Text & "," & birthdate.Text & "," &
datehired.Text & "," & dateresign.Text & "," &
username.Text & "," & password.Text & "," &
position.Text & ")"
Dim cmd As New MySqlCommand(s, con)
con.Open()
cmd.ExecuteNonQuery()
con.Close()
MessageBox.Show("User successfully
added")
fname.Clear()
mname.Clear()

```

```

surname.Clear()
age.Clear()
surname.Clear()
username.Clear()
password.Clear()
address.Clear()
cmb.Text = ""
position.Text = ""
gender.Text = ""
End If
End Sub

```

Add Request:

```

Imports MySql.Data.MySqlClient
Public Class frmrequest
Sub searchRequestInfo()
Dim s As String = "select id as `ID`,
name_claimants as `Name of
Claimants`,registry_no as `Registry Number`,
date_request as `Date Request`,services
as `Services`,authorize_person as `Authorize
Person`,or_number as `O.R
Number`,prepared_by as `Prepared By`, addfile
as `Add File` from tbrequest where
name_claimants like '%" + Tsearch.Text + "%'
ORDER BY id "
Dim da As New MySqlDataAdapter(s, con)
con.Open()
Dim dt As New DataTable
da.Fill(dt)
da.Dispose()
DataGridView1.DataSource = dt
con.Close()
If DataGridView1.RowCount = 0 Then
MsgBox("There is no " + Tsearch.Text + "
in the database", MsgBoxStyle.Exclamation,
"MANAGEMENT PROFILING")
Return
End If
End Sub

```

Save Request:

```

Private Sub Button1_Click(sender As Object, e
As EventArgs) Handles Button1.Click
If MessageBox.Show("Do you want to save
this record?", "Management Profiling",
MessageBoxButtons.YesNo,
MessageBoxIcon.Question) =
Windows.Forms.DialogResult.Yes Then
Dim fileSize As UInt64
Dim mStream As New
System.IO.MemoryStream()
PictureBox1.Image.Save(mStream,
System.Drawing.Imaging.ImageFormat.Jpeg)
Dim tbadd_file() As Byte =
mStream.GetBuffer()
fileSize = mStream.Length
mStream.Close()
Dim s As String = "insert into tbrequest
(name_claimants,registry_no,date_request,servic
es,authorize_person,or_number,prepared_by,
addfile)values(" & tbclaimants.Text &

```

```

        "," & tbregno.Text & "," &
date_request.Text & "," & cbservices.Text & "," &
& tauthorize.Text & "," & or_number.Text & "," &
& prepared_by.Text & ", @addfile"
        Dim cmd As New MySqlCommand(s, con)
'con variable represent the connection string for
connecting the database mysql'
        con.Open() 'denotes the opening of
the connection'
        cmd.Parameters.AddWithValue("@addfile",
tbadd_file)
        cmd.ExecuteNonQuery() 'perform the
query'
        MsgBox("New Claimants Request has
been added!", MsgBoxStyle.Information, "System
Checked")
        con.Close() 'denotes the closing
connection'
        tbclaimants.Text = ""
        tbregno.Text = ""
        date_request.Text = ""
        cbservices.Text = ""
        tauthorize.Text = ""
        or_number.Text = ""
        prepared_by.Text = ""
    End If
End Sub

```

Count Pending:

```

Imports MySql.Data.MySqlClient
Imports System.IO
Public Class Main

```

```

    Dim deathRecord As New Death
    Dim MarriageRecord As New Marriage
    Dim BirthRecord As New Birth
    Function countBirthPending() As Integer

```

```

        Dim sql As String = " SELECT
COUNT(IF(req_status = 'PENDING',1, NULL))
FROM temp_birth"
        Dim cmd As New MySqlCommand(sql, con)
        con.Open()
        Dim count As Integer = cmd.ExecuteScalar()
        con.Close()

        Return count
    End Function

```

Perform Approval:

```

Sub performBirthApproval()
    getBirthRecord()
    Dim msgPrompt = MessageBox.Show("Do
you want to approved Birth Record Change
request?", "REQUEST APPROVAL PROMPT",
MessageBoxButtons.YesNoCancel,
MessageBoxIcon.Question)
    Dim query =
approveBirthRequest(BirthRecord)

    If msgPrompt =
Windows.Forms.DialogResult.Yes Then
        If query.success Then

```

```

            updateBirthRequestStatus(BirthRecord,
REQUEST_STATUS.APPROVED.ToString)
            showBirthRequest(cmb_status.Text)
            MsgBox("Request has been
APPROVED!", MsgBoxStyle.Information,
"SUCESS")

```

```

        Else
            MsgBox(query.message,
MsgBoxStyle.Critical, "ERROR")
        End If
    ElseIf msgPrompt =
Windows.Forms.DialogResult.No Then
        updateBirthRequestStatus(BirthRecord,
REQUEST_STATUS.DECLINED.ToString)
        showBirthRequest(cmb_status.Text)
        MsgBox("Request has been DECLINED!",
MsgBoxStyle.Information, "INFO")
    End If
End Sub

```

Dashboard:

```

Function totalBirth() As Integer
    Dim sql As String = " SELECT COUNT(*)
FROM tbbirth1a"
    Dim cmd As New MySqlCommand(sql, con)
    con.Open()
    Dim count As Integer = cmd.ExecuteScalar()
    con.Close()
    Return count
End Function

```

```

Function totalMarriage() As Integer
    Dim sql As String = " SELECT COUNT(*)
FROM tbmarriage3a"
    Dim cmd As New MySqlCommand(sql, con)
    con.Open()
    Dim count As Integer = cmd.ExecuteScalar()
    con.Close()
    Return count
End Function

```

```

Function totalDeath() As Integer
    Dim sql As String = " SELECT COUNT(*)
FROM tbdeath"
    Dim cmd As New MySqlCommand(sql, con)
    con.Open()
    Dim count As Integer = cmd.ExecuteScalar()
    con.Close()
    Return count
End Function

```

```

Function countMalelivebirth() As Integer
    Dim sql As String = " SELECT
COUNT(IF(Sex = 'Male',1, NULL)) FROM
tbbirth1a"
    Dim cmd As New MySqlCommand(sql, con)
    con.Open()
    Dim count As Integer = cmd.ExecuteScalar()
    con.Close()

```

```

Return count
End Function

Function countFemalelivebirth() As Integer
Dim sql As String = " SELECT
COUNT(IF(Sex = 'Female',1, NULL)) FROM
tbbirth1a"
Dim cmd As New MySqlCommand(sql, con)
con.Open()
Dim count As Integer = cmd.ExecuteScalar()
con.Close()

Return count
End Function

Function TotalRequest() As Integer
Dim sql As String = " SELECT COUNT(*)
FROM tbrequest"
Dim cmd As New MySqlCommand(sql, con)
con.Open()
Dim count As Integer = cmd.ExecuteScalar()
con.Close()
Return count
End Function

Private Sub Label23_Click(sender As Object, e
As EventArgs) Handles total_birth.Click

End Sub

```

Saving Birth Registration:

```

Imports MySql.Data.MySqlClient
Public Class frmbirth
If MessageBox.Show("Do you want to save this
record?", "Management Profiling",
MessageBoxButtons.YesNo,
MessageBoxIcon.Question) =
Windows.Forms.DialogResult.Yes Then
Dim regNumAlreadyExist =
checkRegNumExist(tbrn.Text)
If Not regNumAlreadyExist Then
Using cmd As New MySqlCommand("insert into
tbbirth1a
(Registry_number,Date_registration,Name_child,
Sex,Date_birth,Place_birth,Name_mother,Citizen
ship_mother,Name_father,Citizenship_father,Dat
e_marriage,Place_marriage,Remarks,Province,M
unicipality,Child_middle,Child_last,Place_city,Pla
ce_provi,Type_birth,Multiple_birth,Birth_order,We
ight,Maiden_middle,Maiden_last,Religious,No_bo
rn,children_still_living,Now_dead,Occupation,Age
,Father_middle,Father_last,Father_relig,Father_o
ccu,Father_age,Father_residence,Father_city,Fat
her_prov,Father_country,Parents_prov,Parents_
country,Physician,Nurse,Midwife,Hilot,Specify,Ti
me_born,Name_attend,Position_attend,Address_
attend,Date_attendant,Name_cert,Relation_child,
Address_cert,Date_cert,Name_Prepared,Prepara
d_pos,Date_pre,Name_receive,Receive_position,
Date_receive,Name_office,Office_position,Office
_date,amount_paid,or_number,dated_receipt,pag
e,book,we,month, year, mother_resid,

```

```

mother_city, mother_prov,
mother_country,a,b,c,d,e,f,g,h,i,j,k,l,m,n,o,p,q,r,s,t
,u,v,w,x,y,z,za,zb,zc,zd,ands,mother_father,born_
on,born_at,printed_father,printed_mother,sworn,d
ayof,thisby,exhibited,valid_id,on_issued,at_issu
e_d,ptd,print_name,adds,affidavit,postal_address,bi
rth_in,birth_on,birth_of,wasborn_in,wasborn_on,
was_attended,resides_at,citizen_of,parents_were
,parents_werenot,married_on,married_at,not_ma
rried,reasonfor_delay,married_to,other_owner,affi
xed_signature,signature_date,signature_at,affiant
_printed_name,sworn_before,sworn_day,sworn_
at,affiant_id,affiant_issued_on,affiant_issued_at,p
osition,name_print,address,suffix_name) values
(@Registry_number, @Date_registration,
@Name_child, @Sex, @Date_birth,
@Place_birth, @Name_mother,
@Citizenship_mother, @Name_father,
@Citizenship_father, @Date_marriage,
@Place_marriage, @Remarks, @Province,
@Municipality, @Child_middle, @Child_last,
@Place_city, @Place_provi, @Type_birth,
@Multiple_birth, @Birth_order, @Weight,
@Maiden_middle, @Maiden_last, @Religious,
@No_born, @children_still_living, @Now_dead,
@Occupation, @Age, @Father_middle,
@Father_last, @Father_relig, @Father_occu,
@Father_age, @Father_residence,
@Father_city, @Father_prov, @Father_country,
@Parents_prov, @Parents_country,
@Physician, @Nurse, @Midwife, @Hilot,
@Specify, @Time_born, @Name_attend,
@Position_attend, @Address_attend,
@Date_attendant, @Name_cert,
@Relation_child, @Address_cert, @Date_cert,
@Name_Prepared, @Prepared_pos,
@Date_pre, @Name_receive,
@Receive_position, @Date_receive,
@Name_office, @Office_position, @Office_date,
@amount_paid, @or_number, @dated_receipt,
@page, @book, @we, @month, @year,
@mother_resid, @mother_city, @mother_prov,
@mother_country, @a, @b, @c, @d, @e, @f,
@g, @h, @i, @j, @k, @l, @m, @n, @o, @p,
@q, @r, @s, @t, @u, @v, @w, @x, @y, @z,
@za, @zb, @zc, @zd, @ands, @mother_father,
@born_on, @born_at, @printed_father,
@printed_mother, @sworn, @dayof, @thisby,
@exhibited, @valid_id, @on_issued,
@at_issued, @ptd, @print_name, @adds,
@affidavit, @postal_address, @birth_in,
@birth_on, @birth_of, @wasborn_in,
@wasborn_on, @was_attended, @resides_at,
@citizen_of, @parents_were,
@parents_werenot, @married_on, @married_at,
@not_married, @reasonfor_delay, @married_to,
@other_owner, @affixed_signature,
@signature_date, @signature_at,
@affiant_printed_name, @sworn_before,
@sworn_day, @sworn_at, @affiant_id,
@affiant_issued_on, @affiant_issued_at,

```

```

@position, @name_print, @address,
@suffix_name)", con)
    With cmd
.Parameters.Add("Registry_number",
MySqlDbType.VarChar).Value = tbrn.Text
.Parameters.Add("Date_registration",
MySqlDbType.VarChar).Value = tldr.Text
.Parameters.Add("Name_child",
MySqlDbType.VarChar).Value = tbnname.Text
.Parameters.Add("Sex",
MySqlDbType.VarChar).Value = tbsex.Text
.Parameters.Add("Date_birth",
MySqlDbType.VarChar).Value = tbdate.Text
.Parameters.Add("Place_birth",
MySqlDbType.VarChar).Value = tbplacebirth.Text
.Parameters.Add("Name_mother",
MySqlDbType.VarChar).Value = tbnmother.Text
.Parameters.Add("Citizenship_mother",
MySqlDbType.VarChar).Value = tbcitimother.Text
.Parameters.Add("Name_father",
MySqlDbType.VarChar).Value = tbnfather.Text
.Parameters.Add("Citizenship_father",
MySqlDbType.VarChar).Value = tbcitifather.Text
.Parameters.Add("Date_marriage",
MySqlDbType.VarChar).Value = tbdmp.Text
.Parameters.Add("Place_marriage",
MySqlDbType.VarChar).Value = tbpmp.Text
.Parameters.Add("Remarks",
MySqlDbType.VarChar).Value = tbremarks.Text
.Parameters.Add("Province",
MySqlDbType.VarChar).Value = tbprovince.Text
.Parameters.Add("Municipality",
MySqlDbType.VarChar).Value =
tbmunicipality.Text
.Parameters.Add("Child_middle",
MySqlDbType.VarChar).Value = tbmiddle.Text
.Parameters.Add("Child_last",
MySqlDbType.VarChar).Value = tblast.Text
.Parameters.Add("Place_city",
MySqlDbType.VarChar).Value = tbcpcity.Text
.Parameters.Add("Place_provi",
MySqlDbType.VarChar).Value = tbcpprovince.Text
.Parameters.Add("Type_birth",
MySqlDbType.VarChar).Value = cbbirth.Text
.Parameters.Add("Multiple_birth",
MySqlDbType.VarChar).Value = cbmultiple.Text
.Parameters.Add("Birth_order",
MySqlDbType.VarChar).Value = cborder.Text
.Parameters.Add("Weight",
MySqlDbType.VarChar).Value = tbweight.Text
.Parameters.Add("Maiden_middle",
MySqlDbType.VarChar).Value = tbbmiddle.Text
.Parameters.Add("Maiden_last",
MySqlDbType.VarChar).Value = tbbmlast.Text
.Parameters.Add("Religious",
MySqlDbType.VarChar).Value = cbreligious.Text
.Parameters.Add("No_born",
MySqlDbType.VarChar).Value = tbbornlive.Text
.Parameters.Add("children_still_living",
MySqlDbType.VarChar).Value = tblingchild.Text
.Parameters.Add("Now_dead",
MySqlDbType.VarChar).Value = tbnowdead.Text

```

```

.Parameters.Add("Occupation",
MySqlDbType.VarChar).Value = tboccu.Text
.Parameters.Add("age",
MySqlDbType.VarChar).Value = tbage.Text
.Parameters.Add("Father_middle",
MySqlDbType.VarChar).Value =
tbfather_middle.Text
.Parameters.Add("Father_last",
MySqlDbType.VarChar).Value =
tbfather_last.Text
.Parameters.Add("Father_relig",
MySqlDbType.VarChar).Value = cbreligion.Text
.Parameters.Add("Father_occu",
MySqlDbType.VarChar).Value = tbfather_occu
.Parameters.Add("Father_age",
MySqlDbType.VarChar).Value =
tbfather_age.Text
.Parameters.Add("Father_residence",
MySqlDbType.VarChar).Value =
tbfather_residence.Text
.Parameters.Add("Father_city",
MySqlDbType.VarChar).Value =
tbfather_city.Text
.Parameters.Add("Father_prov",
MySqlDbType.VarChar).Value =
cbfather_pro.Text
.Parameters.Add("Father_country",
MySqlDbType.VarChar).Value =
cbfather_country.Text
.Parameters.Add("Parents_prov",
MySqlDbType.VarChar).Value =
tbparents_province.Text
.Parameters.Add("Parents__country",
MySqlDbType.VarChar).Value =
tbparents_country.Text
.Parameters.Add("Physician",
MySqlDbType.VarChar).Value = tbphysician.Text
.Parameters.Add("Nurse",
MySqlDbType.VarChar).Value = tbnurse.Text
.Parameters.Add("Midwife",
MySqlDbType.VarChar).Value = tbmidwife.Text
.Parameters.Add("Hilot",
MySqlDbType.VarChar).Value = tbhilot.Text
.Parameters.Add("Specify",
MySqlDbType.VarChar).Value = tbother.Text
.Parameters.Add("Time_born",
MySqlDbType.VarChar).Value = tbtime.Text
.Parameters.Add("Name_attend",
MySqlDbType.VarChar).Value = tbnp1.Text
.Parameters.Add("Position_attend",
MySqlDbType.VarChar).Value = tbposition1.Text
.Parameters.Add("Address_attend",
MySqlDbType.VarChar).Value = tbaddress1.Text
.Parameters.Add("Date_attendant",
MySqlDbType.VarChar).Value = tbdate1.Text
.Parameters.Add("Name_cert",
MySqlDbType.VarChar).Value = tbnp2.Text
.Parameters.Add("Relation_child",
MySqlDbType.VarChar).Value = tbrc.Text
.Parameters.Add("Address_cert",
MySqlDbType.VarChar).Value = tbadd2.Text

```

```

        .Parameters.Add("Date_cert",
MySqlDbType.VarChar).Value = tbdate2.Text
        .Parameters.Add("Name_Prepared",
MySqlDbType.VarChar).Value = tbnp3.Text
        .Parameters.Add("Prepared_pos",
MySqlDbType.VarChar).Value = tbposition2.Text
        .Parameters.Add("Date_pre",
MySqlDbType.VarChar).Value = tbdate3.Text
        .Parameters.Add("Name_receive",
MySqlDbType.VarChar).Value = tbnp4.Text
        .Parameters.Add("Receive_position",
MySqlDbType.VarChar).Value = tbposition3.Text
        .Parameters.Add("Date_receive",
MySqlDbType.VarChar).Value = tbdate4.Text
        .Parameters.Add("Name_office",
MySqlDbType.VarChar).Value = tbprint4.Text
        .Parameters.Add("Office_position",
MySqlDbType.VarChar).Value = tbposition4.Text
        .Parameters.Add("Office_date",
MySqlDbType.VarChar).Value = tbdate5.Text
        .Parameters.Add("amount_paid",
MySqlDbType.VarChar).Value = tbamount.Text
        .Parameters.Add("or_number",
MySqlDbType.VarChar).Value = tbor_no.Text
        .Parameters.Add("dated_receipt",
MySqlDbType.VarChar).Value =
tbdate_receipt.Text
        .Parameters.Add("page",
MySqlDbType.VarChar).Value = tbpage.Text
        .Parameters.Add("book",
MySqlDbType.VarChar).Value = tbbook.Text
        .Parameters.Add("we",
MySqlDbType.VarChar).Value = tbwe.Text
        .Parameters.Add("Month",
MySqlDbType.VarChar).Value = m
        .Parameters.Add("Year",
MySqlDbType.VarChar).Value = y
        .Parameters.Add("mother_resid",
MySqlDbType.VarChar).Value =
tbmoth_residence.Text
        .Parameters.Add("mother_city",
MySqlDbType.VarChar).Value = tbmoth_city.Text
        .Parameters.Add("mother_prov",
MySqlDbType.VarChar).Value = tbmoth_pro.Text
        .Parameters.Add("mother_country",
MySqlDbType.VarChar).Value =
tbmoth_country.Text
        .Parameters.Add("a",
MySqlDbType.VarChar).Value = a.Text
        .Parameters.Add("b",
MySqlDbType.VarChar).Value = b.Text
        .Parameters.Add("c",
MySqlDbType.VarChar).Value = c.Text
        .Parameters.Add("d",
MySqlDbType.VarChar).Value = d.Text
        .Parameters.Add("e",
MySqlDbType.VarChar).Value = es.Text
        .Parameters.Add("f",
MySqlDbType.VarChar).Value = f.Text
        .Parameters.Add("g",
MySqlDbType.VarChar).Value = g.Text

```

```

        .Parameters.Add("h",
MySqlDbType.VarChar).Value = ha.Text
        .Parameters.Add("i",
MySqlDbType.VarChar).Value = i.Text
        .Parameters.Add("j",
MySqlDbType.VarChar).Value = j.Text
        .Parameters.Add("k",
MySqlDbType.VarChar).Value = k.Text
        .Parameters.Add("l",
MySqlDbType.VarChar).Value = l.Text
        .Parameters.Add("m",
MySqlDbType.VarChar).Value = ma.Text
        .Parameters.Add("n",
MySqlDbType.VarChar).Value = n.Text
        .Parameters.Add("o",
MySqlDbType.VarChar).Value = o.Text
        .Parameters.Add("p",
MySqlDbType.VarChar).Value = p.Text
        .Parameters.Add("q",
MySqlDbType.VarChar).Value = q.Text
        .Parameters.Add("r",
MySqlDbType.VarChar).Value = r.Text
        .Parameters.Add("s",
MySqlDbType.VarChar).Value = st.Text
        .Parameters.Add("t",
MySqlDbType.VarChar).Value = t.Text
        .Parameters.Add("u",
MySqlDbType.VarChar).Value = u.Text
        .Parameters.Add("v",
MySqlDbType.VarChar).Value = v.Text
        .Parameters.Add("w",
MySqlDbType.VarChar).Value = w.Text
        .Parameters.Add("x",
MySqlDbType.VarChar).Value = x.Text
        .Parameters.Add("y",
MySqlDbType.VarChar).Value = ay.Text
        .Parameters.Add("z",
MySqlDbType.VarChar).Value = z.Text
        .Parameters.Add("za",
MySqlDbType.VarChar).Value = za.Text
        .Parameters.Add("zb",
MySqlDbType.VarChar).Value = zb.Text
        .Parameters.Add("zc",
MySqlDbType.VarChar).Value = zc.Text
        .Parameters.Add("zd",
MySqlDbType.VarChar).Value = zd.Text
        .Parameters.Add("ands",
MySqlDbType.VarChar).Value = tbandss.Text
        .Parameters.Add("mother_father",
MySqlDbType.VarChar).Value = tbfm.Text
        .Parameters.Add("born_on",
MySqlDbType.VarChar).Value = tbborn_on.Text
        .Parameters.Add("born_at",
MySqlDbType.VarChar).Value = tbat.Text
        .Parameters.Add("printed_father",
MySqlDbType.VarChar).Value =
tbprinted_father.Text
        .Parameters.Add("printed_mother",
MySqlDbType.VarChar).Value =
tbprinted_mother.Text
        .Parameters.Add("sworn",
MySqlDbType.VarChar).Value = tbsworn.Text

```

```

        .Parameters.Add("dayof",
MySQLDbType.VarChar).Value = tbdays.Text
        .Parameters.Add("thisby",
MySQLDbType.VarChar).Value = tbby.Text
        .Parameters.Add("exhibited",
MySQLDbType.VarChar).Value = tband_exhi.Text
        .Parameters.Add("valid_id",
MySQLDbType.VarChar).Value = tbvalid.Text
        .Parameters.Add("on_issued",
MySQLDbType.VarChar).Value =
tbissued_on.Text
        .Parameters.Add("at_issued",
MySQLDbType.VarChar).Value = tbissued_at.Text
        .Parameters.Add("ptd",
MySQLDbType.VarChar).Value = tbptd.Text
        .Parameters.Add("print_name",
MySQLDbType.VarChar).Value =
tbname_print.Text
        .Parameters.Add("adds",
MySQLDbType.VarChar).Value = tbadds.Text
        .Parameters.Add("affidavit",
MySQLDbType.VarChar).Value = tbaffidavit.Text
        .Parameters.Add("postal_address",
MySQLDbType.VarChar).Value =
tbpostal_add.Text
        .Parameters.Add("birth_in",
MySQLDbType.VarChar).Value = tbbirth_in.Text
        .Parameters.Add("birth_on",
MySQLDbType.VarChar).Value = tbbirth_on.Text
        .Parameters.Add("birth_of",
MySQLDbType.VarChar).Value = tbbirth_of.Text
        .Parameters.Add("wasborn_in",
MySQLDbType.VarChar).Value =
tbwasborn_in.Text
        .Parameters.Add("wasborn_on",
MySQLDbType.VarChar).Value =
tbwasborn_on.Text
        .Parameters.Add("was_attended",
MySQLDbType.VarChar).Value =
was_attended.Text
        .Parameters.Add("resides_at",
MySQLDbType.VarChar).Value =
who_resides.Text
        .Parameters.Add("citizen_of",
MySQLDbType.VarChar).Value = citizen_of.Text
        .Parameters.Add("parents_were",
MySQLDbType.VarChar).Value =
parents_were.Text
        .Parameters.Add("parents_werenot",
MySQLDbType.VarChar).Value =
parents_werenot.Text
        .Parameters.Add("married_on",
MySQLDbType.VarChar).Value = married_on.Text
        .Parameters.Add("married_at",
MySQLDbType.VarChar).Value = married_at.Text
        .Parameters.Add("not_married",
MySQLDbType.VarChar).Value =
not_married.Text
        .Parameters.Add("reasonfor_delay",
MySQLDbType.VarChar).Value =
reasonfor_delay.Text

```

```

        .Parameters.Add("married_to",
MySQLDbType.VarChar).Value = married_to.Text
        .Parameters.Add("other_owner",
MySQLDbType.VarChar).Value =
other_owner.Text
        .Parameters.Add("affixed_signature",
MySQLDbType.VarChar).Value =
affixed_signature.Text
        .Parameters.Add("signature_date",
MySQLDbType.VarChar).Value =
signature_date.Text
        .Parameters.Add("signature_at",
MySQLDbType.VarChar).Value =
signature_at.Text
        .Parameters.Add("affiant_printed_name",
MySQLDbType.VarChar).Value =
affiant_printed_name.Text
        .Parameters.Add("sworn_before",
MySQLDbType.VarChar).Value =
sworn_before.Text
        .Parameters.Add("sworn_day",
MySQLDbType.VarChar).Value = sworn_day.Text
        .Parameters.Add("sworn_at",
MySQLDbType.VarChar).Value = sworn_at.Text
        .Parameters.Add("affiant_id",
MySQLDbType.VarChar).Value = affiant_id.Text
        .Parameters.Add("affiant_issued_on",
MySQLDbType.VarChar).Value =
affiant_issued_on.Text
        .Parameters.Add("affiant_issued_at",
MySQLDbType.VarChar).Value =
affiant_issued_at.Text
        .Parameters.Add("position",
MySQLDbType.VarChar).Value = position.Text
        .Parameters.Add("name_print",
MySQLDbType.VarChar).Value = name_print.Text
        .Parameters.Add("address",
MySQLDbType.VarChar).Value = address.Text
        .Parameters.Add("suffix_name",
MySQLDbType.VarChar).Value =
suffix_name.Text
    End With
con.Open()
cmd.ExecuteNonQuery()
    MsgBox("New Birth has been
added!", MsgBoxStyle.Information, "System
Checked")
    con.Close()
Else
    MsgBox("There's already an existing
record with this Registry Number!",
MsgBoxStyle.Question, "System Checked")
End If
tbremarks.Text = ""
End If
Catch ex As Exception
    MsgBox(ex.Message)
End Try
End Sub

```

Search Marriage Information:

Imports MySql.Data.MySqlClient

```

Public Class frmsearchmarriage
    Dim dataAdapter As New MySqlConnectionDataAdapter()
    Dim ds As New DataSet()
    Sub searchMarriageInfo()

        Dim s As String = "select id as `ID`,
name_husb as `name of husb`,name_wife as
`name of wife`,age_husb as `age of
husb`,age_wife as `age of wife`,citi_husb as `citi
of husb`,citi_wife as `citi of wife`,cs_husb as `cs of
husb`,cs_wife as `cs of wife`,nf_husb as `nf of
husb`,nf_wife as `nf of wife`,nm_husb as `nm of
husb`,nm_wife as `nm of wife`,registry_no
as `registry no`,date_reg as `date
reg`,place_marriage as `place of marriage`,
remarks as `Remarks` from tbmarriage3a where
name_husb like '%" + Tsearch3.Text + "%"
        Dim da As New MySqlConnectionDataAdapter(s, con)
        con.Open()
        Dim dt As New DataTable
        da.Fill(dt)
        da.Dispose()
        DataGridView1.DataSource = dt
        con.Close()
        If DataGridView1.RowCount = 0 Then
            MsgBox("There is no " + Tsearch3.Text +
" in the database", MsgBoxStyle.Exclamation,
"MANAGEMENT PROFILING")
            Return
        End If
    End Sub

```

Death Printing:

```

Private Sub Button1_Click(sender As Object, e
As EventArgs) Handles Button1.Click
    reports.Show()
    ds.Clear()
    Try
        With con
            If .State = ConnectionState.Open Then
                .Close()
            con.Open()
            End With
        Catch ex As MySqlConnectionException
            MsgBox(ex.ToString)
        End Try
        Try
            Dim qryCompanies As String = "select *
from tbdeath where registry_no=" & tbrn.Text &
""
            dataAdapter.SelectCommand = New
MySqlCommand(qryCompanies, con)
            Dim cb As MySqlCommandBuilder = New
MySqlCommandBuilder(dataAdapter)
            dataAdapter.Fill(ds, "tbdeath")
            dataAdapter.Dispose()
            Catch ex As MySqlConnectionException
                MsgBox(ex.ToString)
            Finally
                con.Close()
            End Try
            Dim objRpt As New form2a

```

```

objRpt.SetDataSource(ds.Tables("tbdeath"))
reports.CrystalReportViewer1.ReportSource
= objRpt
reports.CrystalReportViewer1.RefreshReport()
End Sub
Private Sub frmsearchdeath_KeyUp(sender As
Object, e As KeyEventArgs) Handles Me.KeyUp
    If (e.KeyCode = Keys.Escape) Then
        Me.Close()
    End If
End Sub

```

Backup:

```

Imports MySql.Data.MySqlClient
Imports System.IO
Public Class frmbackup

    Private Sub Button1_Click(sender As Object, e
As EventArgs) Handles Button1.Click
        Dim file As String
        sfdgejj.Filter = "SQL Dump File
(*.sql)|*.sql|All files (*.*)|*.*"
        sfdgejj.FileName = "Registry System-" +
"Database Backup" +
DateTime.Now.ToString("yyyy-MM-dd HH-mm-
ss") + ".sql"
        If sfdgejj.ShowDialog = DialogResult.OK
Then
            file = sfdgejj.FileName
            Dim myProcess As New Process()
            myProcess.StartInfo.FileName =
"cmd.exe"
            myProcess.StartInfo.UseShellExecute =
False
            myProcess.StartInfo.WorkingDirectory =
"C:\wamp\bin\mysql\mysql5.1.36\bin\"
            myProcess.StartInfo.RedirectStandardInput =
True
            myProcess.StartInfo.RedirectStandardOutput
= True
            myProcess.Start()
            Dim myStreamWriter As StreamWriter =
myProcess.StandardInput
            Dim myStreamReader As StreamReader =
myProcess.StandardOutput
            myStreamWriter.WriteLine("mysqldump -u
root --password= -h localhost ""db1cr.sql"" > """" +
file + """" ")
            myStreamWriter.Close()
            myProcess.WaitForExit()
            myProcess.Close()
            MsgBox("Backup Created Successfully!",
MsgBoxStyle.Information, "Backup")
            frmmain.Enabled = True
            Me.Close()
        End If
    End Sub
End Class

```

CURRICULUM VITAE

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Primary : Poblacion Central Elementary School
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S.Y. 2011-2012

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Junior High School : Sierra Bullones Technical Vocational High School
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Senior High School : Sierra Bullones Technical Vocational High School
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S.Y. 2017-2018

Tertiary : Bohol Island State University- Bilar Campus
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Degree Earned : Bachelor of Science in Computer Science

Work Experience : On the-Job training
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August-September 2021