DEVELOPMENT AND EVALUATION OF HEALTH CASE PROFILING SYSTEM OF SAN ISIDRO MUNICIPAL HEALTH CENTER

A Thesis

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Approval Sheet

This Capstone Project entitled **"Development and Evaluation of Health Case Profiling System of San Isidro Municipal Health Center"**, prepared and submitted by Glaiza I. Gamboa, Kevin James P. Jimena, Angel Manalastas and Mariquita L. Villorante in partial fulfillment for the requirements for the Degree Bachelor of Science in Information Technology with Specialization in Web Applications Programming, had been recommended and approved for the oral examination.

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ABSTRACT

The study is about the Development and Evaluation of Health Case Profiling System of San Isidro Municipal Health Center which aimed to help the municipal health center in profiling their health case records. The problems encountered during data gathering that rooted for the pursuit of this study is that the health center is having a hard time in consolidating and centralizing health case records that are supposed to be analyzed immediately and produce reports. Having a centralized records is very important for the purpose of further research and study in the field of health. The researches also conducted interviews and found out the workflow process inside the institution and that the assigned personnel in consolidating records is having a difficulty when the records from the barangay unit are being delayed in submission. The data are first gathered from the smaller unit of the community wherein barangay units are assigned and tallied records will be submitted to the assigned personnel who will submit to the municipal health center. And those problems where taken as opportunities to pursue the study.

The system development was completed using the Agile Software Development Method in terms of Analysis, Design, Development, Test, Evaluation, and Deployment. The conducted testing and evaluation results are as follows; its technical qualities by IT Experts based on the ISO/IEC 25010:2011 standards with the following criteria: Functionality (4.67) excellent, Reliability (5.00) excellent, Usability (4.75) excellent, Efficiency (4.67) excellent and Portability (4.25) excellent, with a total average (4.67) excellent. And for the End Users criteria are the Functionality (4.83) excellent and Usability (4.83) excellent, with a total average (4.83) excellent.

The completion of this study from the analyzed testing and evaluation results was summarized in a conclusion that the developed system is ready to be released.

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First, the researchers would like to express their gratitude to Almighty God who gave them strength to face all trials they encountered while doing this research; for guiding and giving them faith and wisdom to understand and make this research possible.

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The San Isidro Barangay Health Workers, and Sto. Cristo Barangay Captain Mr. Freddie Magno for giving them permission to gather information that they had used in their capstone project.

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- **Glaiza I. Gamboa**
- **Kevin James P. Jimena**
- **Angel Manalastas**
- **Mariquita L. Villorante**

DEDICATION

Despite of all the trials and struggles we faced doing this study, we were able to accomplish it and I would like to dedicate our success and accomplishment to the Almighty God who's always there to guide and protect us, strengthen and give us positive mind. Also, to my dear parents and family who are always there for me to give their moral and financial support with their unconditional love. To my classmates and friends who always cheer me up and comfort me when I feel down and frustrated. To my groupmates who cooperated with me to finish this study. And lastly, to our teachers who are always there to give time to advise and help us to accomplish this research work.

- Glaiza I. Gamboa

DEDICATION

I would like to dedicate this thesis, first to my groupmates for always being patient to me, thank you for being kind and for everything that you contributed to our group. I've learned a lot from you guys. I also dedicate this to my family who are always there to support me. To my mother who is always there to guide me. To my wife who always take care and support me in my decisions in life. To my children who always make me happy, they are the reasons why I study hard and aims to pursue my dreams. Also, to our teachers who guided us while doing our study.

- **Kevin James P. Jimena**

DEDICATION

I dedicate this capstone project to my mother who has always been there for me when she was still alive. Even if she already has passed away, I can still feel her presence and that gave me strength and courage in doing this study. She's one of the reasons why I wanted to reach my dreams and my one and only inspiration in life. Also, to my family who supports me financially and takes care of me. To my friends, Sarrah and Jerhome, for being good and true friends to me, for giving me advices and cheering me up. To our professor, Mr. Emmanuel C. Navarro for sharing his knowledge and for pushing us to study hard. And lastly, to our Almighty God for keeping us safe all the time.

- Angel Manalastas

DEDICATION

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To our **Thesis Adviser**, **Mrs. Ellen Jane G. Reyes**, although we weren't able to have a continuous collaboration with you, we would like to thank you for your sincere support by being there on our final defense. And to the fact that it was from your idea during our title proposal that we came up pursuing our accomplished project right now, Thank You so much Ma'am.

Secondly, I would like to thank my classmates, my friends I never thought I would have, Glaiza, Kevin, and Angel for staying together with me as we face and end this saga of approximately one year and a month of sleepless and restless nights of worries, doubts and frustrations yet one of the most joyful days of our youth's final chapter. You remained as one of my motivations in finishing our project. I have been to the rock bottom where I became hopeless, I had a blurry sight of my purpose when life threw so much struggle but seeing you strive in pursuit of your dreams and needing our project as the last key, it gave me heartaches thinking that just because of few wasted seconds that turned into minutes and so on, dreams can shatter. That's why thank you for rising up everyday when deep inside you're shaking, yet you're good in hiding saying that you trust me, thank you for not giving up on me. I may not be able to express it, but I sincerely poured out my heart through the ink in this paper. With my whole heart I greet you, Congratulations, we're now officially adults and young professionals. Let's never forget that it's all because of God's grace in us, it's never in our might or talent or skill. Let's always put our trust in Him alone, for all things are possible in Him to those who believe. Always remember my last and only request.

Lastly and most importantly, I want to thank the Lord for if not because of Him, I wouldn't be here nor be able to finish our project. Our failures will dare us to have fear or have faith. For there were already thousands of reasons for me to give up yet He never ceased to lift and cheer me up. It is the Lord's promise from Philippians 1:16 that says, "He who began a good work in you is faithful to complete it." and it is Him who put me right here at this moment of my life and it is He who fulfilled it.

To my beloved family, the words 'Thank You' wouldn't be enough to pay off all of your hard work, the things that you had sacrificed for the fulfillment of my academic years. To my parents, awesome Pa and Ma, may my deepest gratitude reach you. To my siblings, thank you sis and bros for your unconditional love and support. Kudos! We made it here!

And thank you to everyone who's going to read this. I just wanted the world to know how grateful I am but I wasn't able to have a speech podium on our graduation so I just poured my heart though ink and paper. I am Mariquita Lumbao Villorante and I am proud to be a graduate from BSIT-4D (WAP) batch 2018-2019.

- Mariquita L. Villorante

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CHAPTER I

PROJECT OVERVIEW

Project Title

Development and Evaluation of Health Case Profiling System of San Isidro Municipal Health Center.

Project Description

The study is about developing a system for Municipal Health Center of San Isidro with the process that involves managing health case records of each barangay and the results will be accessible through the authorized user's account. This will help the respective authorities to monitor the health condition of the municipality and for the community to be easily informed if there is an occurrence of outbreak in their barangay.

The developed system has two (2) kinds of accounts that can be used to access the system, the 'Admin Account' will have the full control and responsibility in managing the system, and an 'End-User Account' in place of the authorized personnel from the barangay. The system will contain the health cases profiling, descriptions, occurrences and tallies from the nine (9) barangay of the town. It also has different types of statistical charts

wherein the list of diseases and cases in every barangay is included. It has a login feature for the authorized personnel's access which involves creating, retrieving, updating or deleting (CRUD) records.

Project Rationale

The Health Center is an institution that gives free health services to the community. In San Isidro Nueva Ecija, the Municipal Health Center is the only Rural Health Unit (RHU) that held nine (9) different barangay. It helps their residents in providing health care and monitoring the health of their community.

Each barangay has an assigned Health Workers. Together with the Municipal Doctor/s, the Barangay Health Worker (BHW) is in charge in conducting medical mission with in their barangay. They provide free health consultation, basic maternal care, newborn child health services and other primary health services. They also monitor the health condition of their residents. When there is a medical mission, a BHW records the patients' information in a columnar and they will send it to their Barangay Nutrition System (BNS) to tally the records. After tallying, the BNS directs it to their midwife. The records are then collected by the municipal head nurse who checks, organize, and

tallies all the barangay health records in their FHSIS (Field Health Service Information System) Form. Every year, the head nurse produces a summary of records that is done manually. They will submit it to the Provincial Health Office (PHO) to Region III Central Office. Through these records, the DOH will determine the needs of barangay and they will identify what diseases commonly exist in such barangay and the time period wherein they need to allot more effective monitoring. They will send medical supplies to fulfil the needs of the said municipality and the authorities will distribute it in to respective barangay.

The Health Center uses manual method when it comes to recording patient's condition and tallying health case records. They have a monthly schedule of submitting records to the head nurse of the municipal health center.

Therefore, our team developed a system that will shorten the time needed in the process of transferring records. Other than having a real-time profiling system which monitors the health conditions in the respective municipality, this will help the community to be informed and be alert regarding the health issues arising in their areas. This will also inform the authorities, so they could perform necessary actions.

Goals and Objectives of the Study

General

The main purpose of this system is to develop a real-time transfer of information from barangay operations to the Health Center; and dissemination of these information to the municipality that will compel the respective authorities to take necessary actions.

Specific

This study aims to achieve the following:

1. To create a health case profiling system for San Isidro Municipal Health Center that will monitor the health condition of the municipality
2. To produce tabular and graphical presentations of the tallied records that will be efficient in educating the community.
3. To lessen the time of transferring records by providing a centralized digital system rather than manual recording.
4. To create accounts for authorized system users.
5. To produce health case reports efficiently by printing and exporting.

Conceptual Framework

It represents the researcher's synthesis of literature on how to explain a phenomenon. In this section, the researchers used the input-process-output (IPO) pattern which is a widely used approach in systems analysis in order to track the needed hardware and software specifications, standards to follow, actions that has to be taken, basically the needed inputs from different aspects which will be used in the process stage wherein numerous number of testings are being done while the development is in progress and if executed properly will produce the desired and planned output.

The paradigm on Figure 1 below illustrates the development and evaluation of Health Case Profiling System of San Isidro Municipal Health Center. The input box shows the requirements needed for the development of the proposed system. The Information requirements cover the Health Case Records for each barangay that is needed to inform the Barangay Health Workers and the health center about the cases that every barangay encountered. The Hardware requirements needed should be a computer unit with specification of Intel COREi3 5th Gen or equivalent processor, at least 4GB RAM or above. That was recommended

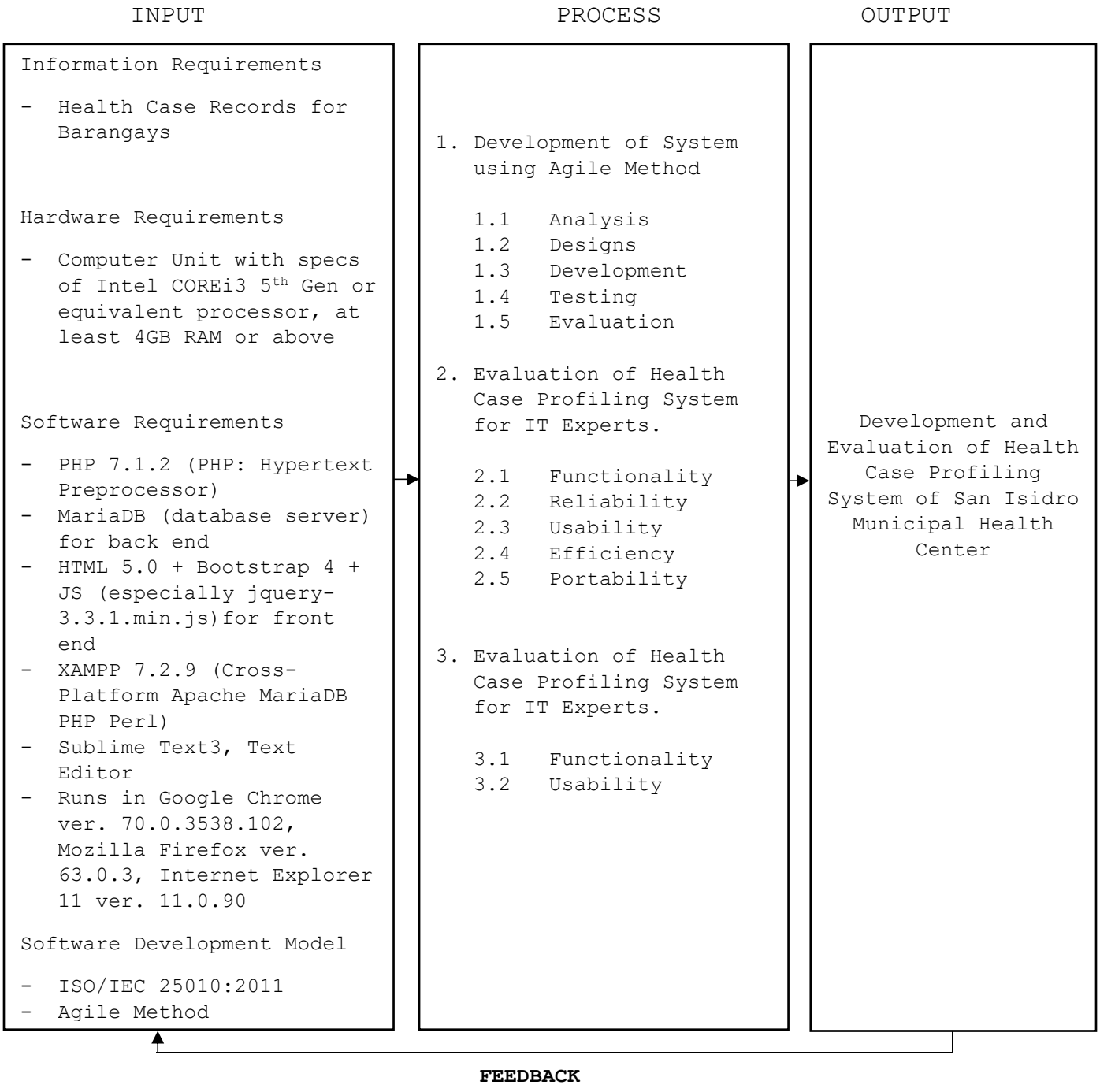
for the system server. The software requirements that are needed to develop a system are PHP 7.1.2 (PHP: Hypertext Preprocessor) and MariaDB (database server) for the backend and HTML 5.0, Bootstrap 4, JavaScript (especially jquery-3.3.1.min.js) for the front-end. In coding process, the XAMPP 7.2.9 and the Sublime Text3 was also used by the developers. The researchers used the ISO/IEC 25010:2011 Agile method as the guideline method in developing the proposed system. The proposed system can be run in Google Chrome, Mozilla Firefox and Internet Explorer.

Next is the process box. This include the Evaluation of Health Case Profiling System of San Isidro Municipal Health Center. It covers the testing process of the Clients/End Users of the proposed system also the IT Experts.

The output box shows the Development and Evaluation of Health Case Profiling System of San Isidro Municipal Health Center which is the output of the proposed system.

After the output box, all the recommendations for the system were included in the feedback. And then all the steps will be repeated to pursue the client's needs.

Figure 1. Research Paradigm



Scope and Delimitation

The study involves the Development and Evaluation of Health Case Profiling System of San Isidro Municipal Health Center. The developed system has an administrative feature which has the full responsibility of managing the system. It can create, retrieve, update, and delete (CRUD) health case records which were submitted by all the authorized user from each barangay through their accounts. Every barangay's authorized personnel has an access to the system wherein they can submit those records about health-related issues that are commonly encountered by their barangay. With the help of this, they will lessen the time when preparing the records that they must submit to the involved personnel in the Center. Tallying record will now be a piece of cake and it will improve the actions in assisting those who need help. With this, the Health Center will easily monitor the health cases of their barangay.

This system was developed exclusively for San Isidro Municipal Health Center and for the use of authorized personnel only. It was developed to help the Health Center in recording and centralizing health case occurrences from every barangay in San Isidro, thus it will never scope the other patient's health records in the municipality of San Isidro.

Significance of the Study

This developed system significantly help the San Isidro Municipal Health Center in managing and monitoring the health cases arising in each barangay.

This research will benefit the following:

San Isidro Municipal Health Center. They will be the beneficiary of our system. The study aims to help the staff and doctor/s to easily manage and monitor health case records of the municipality. Management and monitoring of records is something that is crucial and important in any organization especially in health-related ones. Access to the whole information within the system is exclusive only for the authorized personnel.

Rural Health Unit (RHU). As a primary health unit, providing health care services and keeping health cases records will be easy for them.

Barangay San Isidro. It will benefit them in terms of tracing the cases of diseases and monitoring the health condition of their residents with ease and easy to plan in making an action.

San Isidro Barangay Health Workers. They are one of the users of this system. It will help them in terms of reporting health cases of each barangay to the health

center. Also, it will be easy for them to manage and monitor the health condition of their barangay.

San Isidorians. The residents will benefit through the reports of the in charged personnel in their barangay regarding health awareness from the assessed data analytics.

Researchers. This study will help in improving researcher's knowledge regarding the topic. It can also help develop the skills of the researchers and prepare them for their future career by involving in a semi-professional experience.

Future Researchers. It will serve as a reference for the IT students of NEUST as they gather information related to their own capstone project or study.

Procedure of the Study

The Procedure of the study has two involved stages: Development and Evaluation.

Development Phase

The "Agile" software development model was used in this study. In this method, iterative steps of procedures called "sprints" will be established. Every sprint involves Analysis, Design, Development, Test, Evaluation and Deployment.

Analysis. This is the first step in iteration. It is divided into data mining and analyzing the solution.

Data mining involves a series of data gathering by conducting one on one interviews with involved personnel to determine the workflow process of the existing system in order to identify the need or opportunity to establish the proposed system. For the first stage of defense data mining was conducted on first week and second week of August 2018 and for the second stage of defense it was conducted on the fourth week of September 2018.

Analyzing the solution was started from first week to second week of August 2018 for the first stage of defense. For the second stage of defense it was conducted on the fourth week of September 2018. For the third stage of defense it was conducted on second week and third week of October 2018. For the last stage of defense, it was conducted third week of November 2018.

Design. This is the second step of the system's development process. It is divided into creating diagrams, normalizing tables and interface conceptualization.

The system's features of input, output and interface were discussed and specified. Creating data flow diagrams, data normalization and entity-relationship diagrams were

also done to produce visual guidelines to check if the development is meeting the objectives of the study.

For the first stage of defense creating diagrams and interface conceptualization was conducted on second week and third week of August 2018 and for the second stage of defense it was conducted on the fourth week of September 2018.

For the first stage of defense normalizing tables was conducted on second week to third week of August 2018. For the second stage it was conducted on fourth week of September 2018. For the third stage it was conducted on the third week and fourth week of October 2018. For the last stage of defense, it was conducted on the first week of November 2018.

Development. In this step, all the analyzed information and designs to follow was used to produce an output of the proposed system. Primarily, Hypertext Markup Language version 5.0 (HTML 5.0) accompanied with Bootstrap 4 and JavaScript were the markup and scripting languages used to layout the system and also PHP Script 7.1.2 together with MySQL as scripting and query languages were used to manage and manipulate data in the system.

The development of the system for the first stage of defense was conducted on the third week of August up to the second week of September 2018 and the development went on as the second stage of defense came in on the fourth week of September 2018. The development continued up to the third stage of defense which was conducted on the second week of October up to the first week of November 2018. And for the last stage of defense, the development of the system was completed on the third week of November 2018 and was presented on the final defense.

Test. This step is necessary to check the stability and functionality of the system. This includes debugging and identifying feature/s or component/s to be improved in the next iteration.

It was conducted in every stage of defense. On the first stage of defense, the testing was conducted on the second week of September 2018. For the second stage of defense it was conducted on the fourth week of September 2018. And for the third stage, it was conducted on the second week up to the third week of November 2018.

Evaluation. The gathered data and feedback resulted from the conducted tests were analyzed and considered as

opportunities to be incorporated if possible to the development of the system for improvement as the cycle went on in the next phase which is deployment.

It was first conducted on the third week of September 2018 and for the second stage of defense it was conducted on first week of October 2018 with the capstone adviser. And for the third stage defense, it was conducted on the second week and third week of November 2018 with the stated evaluation respondents.

Deployment. All the recommendations needed in the system were accomplished by the researchers and the system was then ready to be released.

For the first stage of defense the deployment of system was conducted on third week of September 2018. For the second stage it was conducted on first week of October 2018. For the third stage it was conducted on the second week of November 2018. And For the last stage of defense, it was conducted on the first week of December 2018.

Table 1. Gantt Chart of the Development and Evaluation of Health Case Profiling System of San Isidro Municipal Health Center

AGILE MODEL	AUGUST				SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
PHASES	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ANALYSIS • Data mining																				
• Analyze the solution																				
DESIGN • Creating Diagrams																				
• Normalizing tables																				
• Interface Conceptualization																				
DEVELOPMENT • Documentation Interface																				
• Coding																				
TEST																				
EVALUATION																				
DEPLOYMENT																				

The table above represents the timeline of the capstone project which shows how the phases are being met.

Definition of Terms

Agile is one of the methods in software development model which is used as a guideline in research development.

AJAX (Asynchronous JavaScript and XML) is a new technique for creating better, faster, and more interactive

web applications with the help of XML, HTML, CSS, and Java Script. It was used in the development of our system mainly in the front-end for a more user-friendly experience. It allows some elements of the webpage to function dynamically by not needing to refresh the page anymore and it's those elements that makes the page seems to refresh automatically.

BNS (Barangay Nutrition System) is the representative of the barangay in collecting health case records.

BHW (Barangay Health Worker/s) is the one in charge in monitoring and managing the health condition of the barangay.

Chart is a form of table and diagram where in the information about the medical patient or scheduled activities was recorded.

Columnar is the other term for record book, is used by the BHWs' in recording patients' health information.

Data dictionary is a file or a set of files that contains a database's metadata. Just as a dictionary defines the words in it, in the same way, a data dictionary defines the entities of the tables, it's attributes like uniqueness, size, relationship to other entities and so on.

Health cases is a report case where in the information is all about health.

HTML 5.0 stands for Hypertext Markup Language, is a markup language that is used for the front-end development of the project.

ISO/IEC 25010:2011 which stands for International Standard Organization/International Electrotechnical Commission is a partnered organization which is known for setting world standards in the different fields such as technology. The ISO/IEC(25010:2011) states the needed properties in order for a developed information/computer system to be approved according to standards.

JavaScript is a scripting language used to add functionalities and interactive elements to a website.

Profiling is an act or process of information about a target person that is based on an observed traits or characteristics.

PHP 7.1.2 (PHP: Hypertext Preprocessor) is a scripting language used to manipulate data from the database and used in front-end development.

RHU (Rural Health Unit) serves as a unit for primary health care services in rural communities.

XAMPP 7.2.9 (Cross-Platform, Apache, MariaDB, PHP, Perl) is an executable program for local hosting or stand-alone local server used for testing and development purposes.

CHAPTER II

REVIEW OF RELATED WORKS AND RESEARCH

This chapter is all about related studies or existing information to the developed system.

Case Management EHR Software

According to an article entitled "Case Management EHR Software| Orion Healthcare Technology" (2018), the behavioral health organization across the world are discovering the benefits of switching to electronic health record systems for case management services. Unlike paper-based processes that take time and physical resources, EHR software systems are built for efficiency. Even better, with Orion's electronic health records system, your organization benefits from a system specially designed for the mental health field and case management functions.

Orion's Health case management system centralizes all data entered, compiling and organizing information as it's entered. This means that all data for a single case is easier to access for the case manager, streamlining their workflow and allowing them to focus on the patient. This centralized system also means data can be easily collected for reporting and analysis functions.

Integrated Case Management System

According to an article entitled "Integrated case management system" (2013) stated that with an integrated electronic patient record system, clinicians at Alfred Health can deliver high quality care across multiple sites by accessing the complete patient record at point of care.

EMIS Health JCC's secure, integrated case management system was implemented across DMU (Disease Management Unit) and BCOP (Better Care for Older People) to co-ordinate the delivery of on-going care across multiple sites and multiple providers. With JCC, online patient information is accessible by healthcare providers at the point of care and is synchronized in real time. Easily accessible by care providers but with robust security to manage data and system integrity and safeguard patient confidentially, JCC provides the clinician with the complete patient record to more accurately assess the overall patient care outcomes. Secure Access, Information at Point of Care, and Comprehensive Reporting and Graphing are one of the core functionalities of EMIS Health's JCC.

Integrated Care Cases

Arianne MJ Elissen et al (2016) in their research "Profiling Patient's Healthcare Needs to Support Integrated,

Person-Centered Models for Long-Term Disease Management (Profile): Research Design" stated that PROFILe is an innovated study which uses uniquely holistic approach to assess the health care needs and preferences of chronically ill. The project aims to develop and validate a novel, practical instrument in the form of patient profiles that supports more tailored chronic care management in practice. This will combine (bio) medical and non-(bio) medical patient characteristics relevant for determining an optimal treatment strategy for subgroups of patients with similar care needs and preferences.

Public Health Surveillance System

According to an article of Rob Lyerla, PhD, MGIS and Donna F. Stroup, PhD, MSc (2018) entitled "Toward a Public Health Surveillance System for Behavioral Health". Public health surveillance is the systematic reporting of cases of diseases to monitor trends in their incidence and prevalence, detect irregularities in these trends, suggest hypotheses for research, and guide implementation and evaluation of interventions. For most of its history, public health surveillance has focused on infectious diseases, but in recent decades, it has been expanded to

other areas of health, such as chronic diseases and environmental and occupational hazards.

Benefits of Health Information

Melinda Beeuwkes Buntin et al. (2011), in their research entitled "The Benefits of Health Information: A Review of The Recent Literatures Shows Predominantly Positive Results". An unprecedented federal effort is under way to boost the adoption of electronic health records and spur innovation in health care delivery. They reviewed the recent literature on health information technology to determine its effect on outcomes, including quality, efficiency, and provider satisfaction. They found that 92 percent of the recent articles on health information technology reached conclusions that were positive overall. They also found that the benefits of the technology are beginning to emerge in smaller practices and organizations, as well as in large organizations that were early adopters. However, dissatisfaction with electronic health records among some providers remains a problem and a barrier to achieving the potential of health information technology. These realities highlight the need for studies that document the challenging aspects of implementing health

information technology more specifically and how these challenges might be addressed.

Relevance of Surveyed Literature and Studies to the Present Study

The online article entitled "Case Management EHR Software| Orion Healthcare Technology" (2018), gave the present study the concept of using electronic health record system (EHR) for case management services. With the use of this system; compiling, creating and organizing information will be easy to access. It also means that the data will be easily collected for reporting and analysis functions.

The online article entitled "Integrated case management system" (2013), gave the present study the concept of using electronic patient record that can deliver a high-quality care across different sites. It has a robust security to manage data and system integrity and safeguard patient confidentially. Secure Access, Information at Point of Care, and Comprehensive Reporting and Graphing are one of its functionalities.

The article of Rob Lyerla, PhD, MGIS and Donna F. Stroup, PhD, MSc (2018) entitled "Toward a Public Health Surveillance System for Behavioral Health"), gave the present study the concept of Public Surveillace System in

monitoring the health, case of diseases and some health issues.

The study of Melinda Beeuwkes Buntin et al. (2011) entitled "The Benefits of Health Information: A Review of The Recent Literatures Shows Predominantly Positive Results"), gave the present study the concept of the adoption of electronic record. They found that the benefits of the technology are arise in smaller particles and organization and reached an overall positive conclusion.

Personal/ Professional Expectations

The system was developed for health center workers and it intended to benefit the staff of the health center and the barangay health worker/s professionally and personally. The system will gradually convert the manual method of health center into computerized system. The workers of the center will be able to manage workflow inside the institution and organize their records in a easier manner.

We expect that this system will lessen the time in collecting and tallying health case records in the health center. It also provides access for the authorized staff to manage the health cases records of every barangay which can help ease the task of the in charged personnel in consolidating records.

CHAPTER III

METHODOLOGY

This chapter presents the method of research used and how each stage of the method were done and contributed to the development of the system.

Agile Software Model

The researchers used the Agile method as a software development model. Some companies used this as their guidelines in building a project. This method uses an iterative work sequences known as "sprint". The sprint contains Analysis, Design, Development, Test, Evaluation and Deployment. The starting point of the sprint, starting at Analysis Stage wherein requirements are gathered and risk are assessed. Each subsequent sprint builds on the starting point sprint.

The first stage in an iteration is **Analysis**. In this stage, gathering data from the authorized personnel was done by conducting one on one interviews. Our team analyzed the possible solution for the desired needs of our client.

The second stage next to analysis is **Design**. Creating normalized tables, diagrams and conceptualizing interface was done before we proceeded to the next stages.

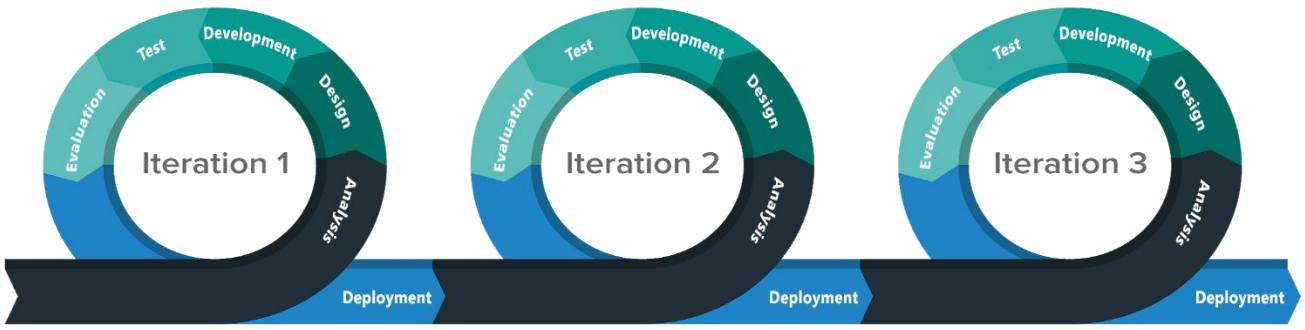
The third stage is **Development.** The system was developed using HTML 5.0 (Hypertext Markup Language) together with Bootstrap ver.4 and JavaScript as markup and scripting language and also PHP Script 7.1.2 together with MySQL as scripting and query languages were used to manage and manipulate data in the system.

After development, the next stage is **Test.** This stage was all about checking and testing the functionality and stability of the developed system by the IT experts and the Clients/End Users.

Then, the second to the last stage is **Evaluation** wherein the gathered data and feedback from the conducted testing process were analyzed. The feedback served as recommendations for the development of the system.

And the last stage in the chosen software model is **Deployment.** All the requirements and recommendations for the system were accomplished. Thus, the system is then ready to be released and used.

Figure 2. Agile Software Model

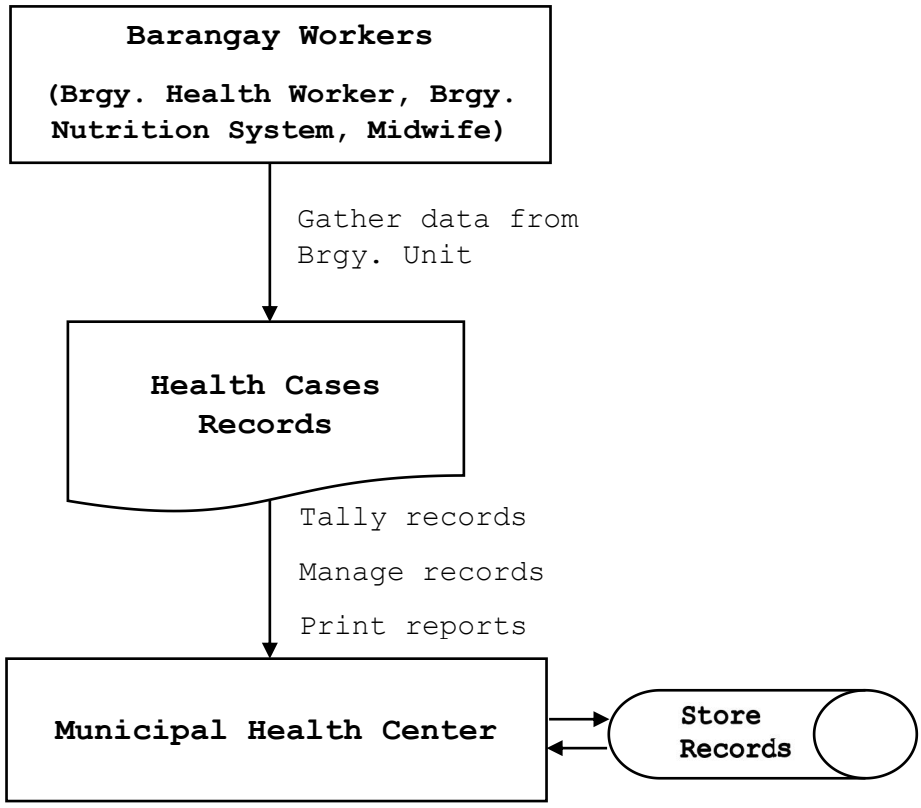


CHAPTER IV

SOFTWARE MODELS

This chapter contains mainly of figures and diagrams that show and explain the data flow of the existing process and the developed system and also the entity relationships and data normalization between tables. These were used in order to check if the designed process flow of the system will be met in the development phase.

Figure 3. Existing System of San Isidro Municipal Health Center



The figure above shows the existing workflow process in San Isidro Municipal Health Center which is being done

manually. Barangay units collect data from smaller units of the community, the streets. Then it will be consolidated and pass through the assigned personnel in the barangay offices who will then submit the tallied records to the municipal unit where information are being centralized.

Figure 4. Level 0 Proposed Context Diagram for Health Case Profiling System of San Isidro Municipal Health Center

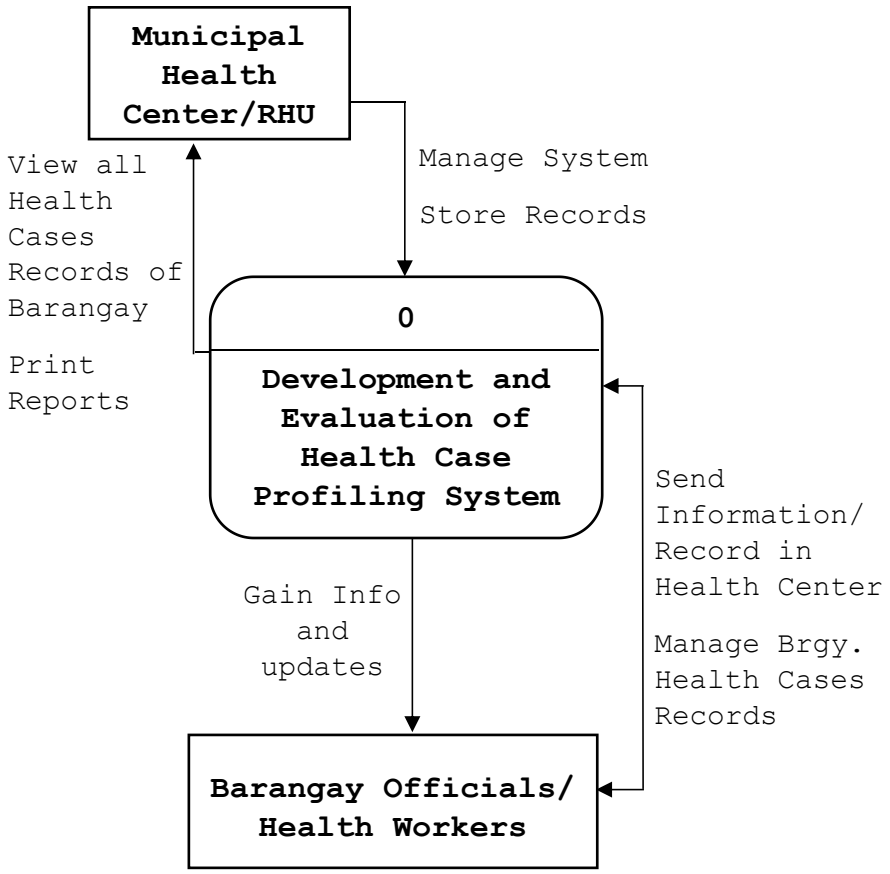


Figure 5. Level 1 Data Flow Diagram of Health Case Profiling System of San Isidro Municipal Health Center

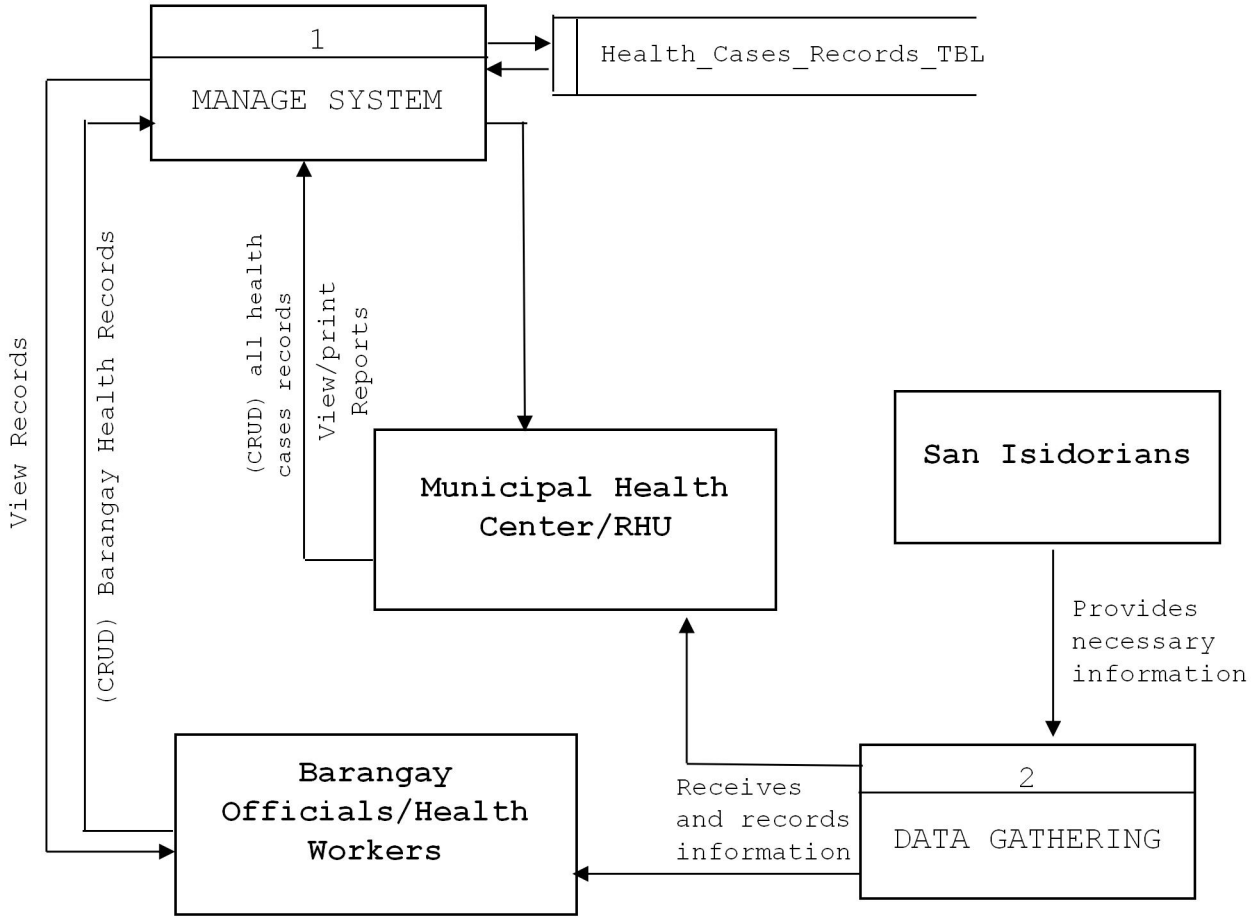
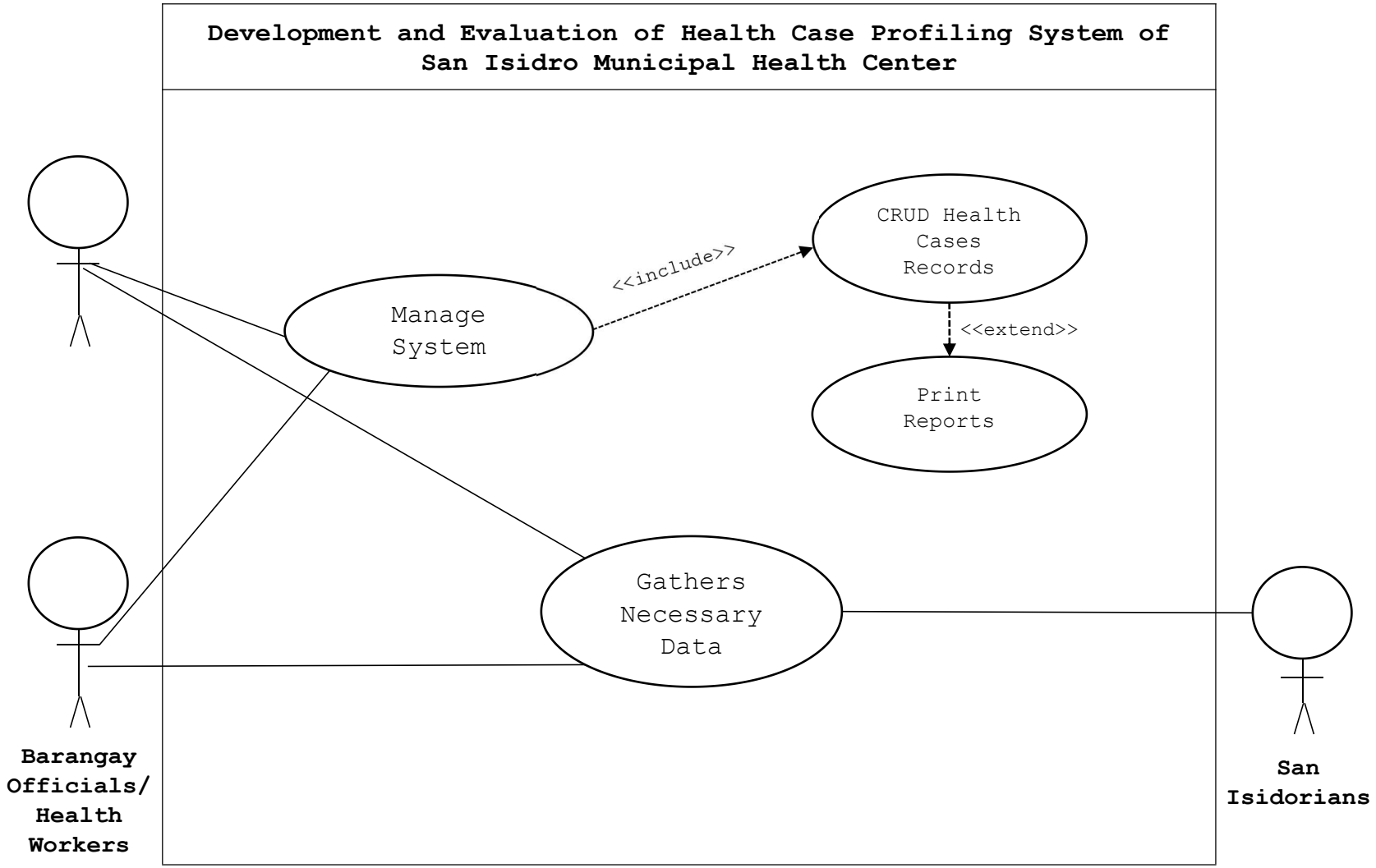


Figure 6. Use Case Diagram of Health Case Profiling System of San Isidro Municipal Health Center



Normalization

This section contains table representations of how data contained in tables are being related to one another which also represents the flow of data inside the database. Following are Un-normalized, First Normal, Second Normal and Third Normal Form of system's data tables.

Table 2. Un-normalized Form

Pat_ID
Pat_Name
Pat_Gender
Pat_Age
Pat_Address (Brgy, Purok)
Admin_ID
Admin_Name
Admin_Position
Admin_Address
Admin_Assigned_Brgy
H_Case_ID
H_Case_Name
H_Case_Desc
H_Case_Symptoms
H_Case_Count

Table 3. First Normal Form

Admin_ID	Admin_Name	Usr_Admin_ID	Usr_Admin_Name	Pat_ID	Pat_Name	Pat_Address	Pat_H_Case_ID	Pat_H_Case_Name
Ad01	Carl Santos	UsrAd01]	Mila Reyes	Pat01	John Cruz	368 Calumpit, Sto. Cristo	De01	Dengue Fever

Table 4. Second Normal Form

Admin_ID	Admin_Name
Ad01	Carl Santos

Usr_Admin_ID	Usr_Admin_Name
UsrAd01	Mila Reyes

Pat_ID	Pat_Name	Pat_Address	Pat_H_Case_ID	Pat_H_Case_Name
Pat01	John Cruz	368 Calumpit, Sto. Cristo	De01	Dengue Fever

H_Case_ID	H_Case_Name
De01	Dengue Fever

Pat_ID	Pat_Name	Pat_Address
Pat01	John Cruz	368 Calumpit, Sto. Cristo

Table 5. Third Normal Form

persons_tbl
per_id (PK)
per_name
lname
mname
suffix
per_bday
per_age
per_sex
per_height
per_weight
per_bmi
per_hcaseid (FK)
per_roleid (FK)
per_houseNo
per_street (FK)
per_brgyid (FK)
per_reportdate

street_tbl
street_name (PK)

brgy_tbl
brgy_id (PK)
brgy_name

hcases_tbl
hcase_id (PK)
hcase_name
hcase_desc

role_tbl
role_id (PK)
role_name

user_tbl
user_id (PK)
reqrole_id (FK)
name
lname
mname
suffix
age
bday
houseNo
street
brgyid
username
password
email
date_requested

requests_tbl
req_id (PK)
reqrole_id (FK)
name
lname
mname
suffix
age
bday
houseNo
street
brgyid
username
password
email
date_requested

Figure 7. Entity Relationship Diagram of Health Case Profiling System of San Isidro Municipal Health Center

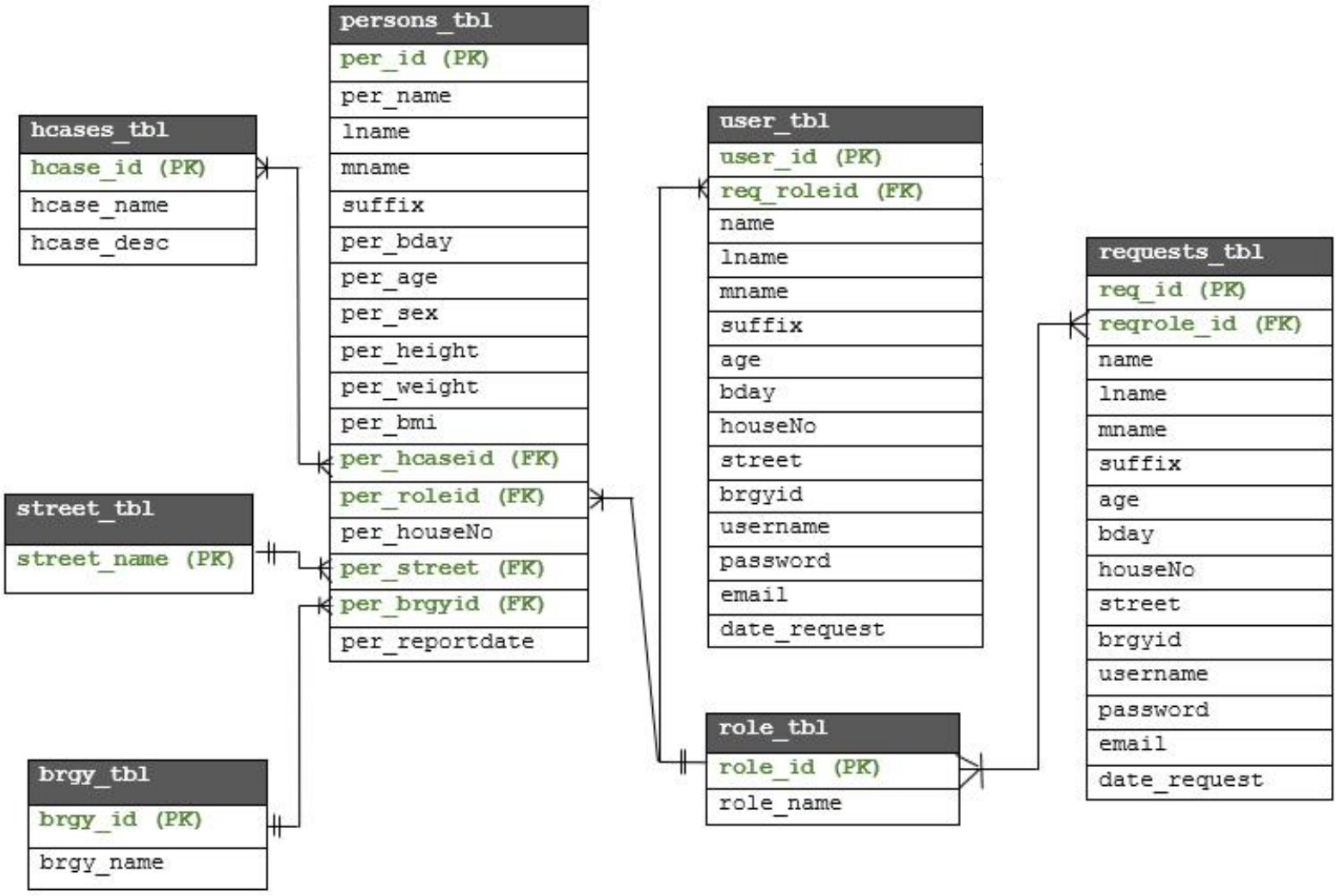


Table 6. Data Dictionary

Table Name	Attribute Name	Contents	Type	Null	Key	Default	Extra
user_tbl	user_id	User's ID	INT (10)	NO	PK	*NONE*	AUTO_INCREMENT
	reqrole_id	Request role ID	VARCHAR (20)	NO	FK	*NONE*	
	name	User's First name	VARCHAR (20)	NO		*NONE*	
	lname	User's Last name	VARCHAR (20)	NO		*NONE*	
	mname	User's Middle name	VARCHAR (20)	NO		*NONE*	
	suffix	User's Suffix	VARCHAR (10)	YES		*NULL*	
	age	User's age	INT (11)	YES		*NULL*	
	bday	User's Birthday	DATE	NO		*NONE*	
	houseNo	User's House Number	INT (5)	NO		*NONE*	
	street	User's Street	VARCHAR (20)	NO		*NONE*	
	brgyid	User's Barangay ID	VARCHAR (255)	NO		*NONE*	
	username	Username	VARCHAR (50)	NO		*NONE*	
	password	User's Password	VARCHAR (255)	NO		*NONE*	
	email	User's Email	VARCHAR (255)	NO		*NONE*	
	date_requested	User's date requested	DATE	NO		*NONE*	

Table Name	Attribute Name	Contents	Type	Null	Key	Default	Extra
hcases_tbl	hcase_id	Health Case ID	INT (11)	NO	PK	*NONE*	AUTO_INCREMENT
	hcase_name	Health Case name	VARCHAR (255)	NO		*NONE*	
	hcase_desc	Health Case description	TEXT	YES		*NULL*	

Table Name	Attribute Name	Contents	Type	Null	Key	Default	Extra
street_tbl	street_name	Street name	VARCHAR (100)	NO	PK	*NONE*	

Table Name	Attribute Name	Contents	Type	Null	Key	Default	Extra
brgy_tbl	brgy_id	Barangay ID	INT (11)	NO	PK	*NONE*	AUTO_INCREMENT
	brgy_name	Barangay name	VARCHAR (20)	NO		*NONE*	

Table Name	Attribute Name	Contents	Type	Null	Key	Default	Extra
role_tbl	role_id	Role ID	VARCHAR (20)	NO	PK	*NONE*	
	role_name	Role name	VARCHAR (50)	NO		*NONE*	

Table Name	Attribute Name	Contents	Type	Null	Key	Default	Extra
requests_tbl	req_id	Request ID	INT (10)	NO	PK	*NONE*	AUTO_INCREMENT
	reqrole_id	Request role ID	VARCHAR (20)	NO	FK	*NONE*	
	name	Request First name	VARCHAR (20)	NO		*NONE*	
	lname	Request Last name	VARCHAR (20)	NO		*NONE*	
	mname	Request Middle name	VARCHAR (20)	NO		*NONE*	
	suffix	Request Suffix	VARCHAR (10)	YES		*NULL*	
	age	Request age	INT (11)	YES		*NULL*	
	bday	Request Birthday	DATE	NO		*NONE*	
	houseNo	Request House Number	INT (5)	NO		*NONE*	
	street	Request Street	VARCHAR (20)	NO		*NONE*	
	brgyid	Request Barangay ID	VARCHAR (255)	NO		*NONE*	
	username	Request Username	VARCHAR (50)	NO		*NONE*	
	password	Request Password	VARCHAR (255)	NO		*NONE*	
	email	Request Email	VARCHAR (255)	NO		*NONE*	
	date_requested	Date of request	DATE	NO		*NONE*	

Table Name	Attribute Name	Contents	Type	Null	Key	Default	Extra
persons_tbl	per_id	Person's ID	INT (11)	NO	PK	*NONE*	AUTO_INCREMENT
	per_name	Person's First name	VARCHAR (255)	NO		*NONE*	
	lname	Person's Last name	VARCHAR (20)	NO		*NONE*	
	mname	Person's Middle name	VARCHAR (20)	NO		*NONE*	
	suffix	Person's Suffix	VARCHAR (10)	YES		*NULL*	
	per_bday	Person's Birthday	DATE	YES		*NULL*	
	per_age	Person's age	VARCHAR (20)	NO		*NONE*	
	per_sex	Person's Sex	VARCHAR (6)				
	per_height	Person's Height	FLOAT	NO		*NONE*	
	per_weight	Person's weight	FLOAT	NO		*NONE*	
	per_bmi	Person's Body Mass Index	FLOAT	NO		*NONE*	
	per_hcaseid	Person's Health case ID	INT (11)	NO	FK	*NONE*	
	per_roleid	Person's role ID	VARCHAR (20)	NO	FK	*NONE*	
	per_houseNo	Person's House number	INT (5)	NO		*NONE*	
	per_street	Person's street	VARCHAR (20)	NO	FK	*NONE*	
	per_brgyid	Person's barangay ID	INT (11)	NO	FK	*NONE*	
	per_reportdate	Person's report date	DATE	NO		*NONE*	

Evaluation

This section includes the results of evaluation that was done by the IT experts, Clients/End-users and Instructors/Professors during the testing stage of the developed system.

The following Criteria uses are the following:

Functionality states that the developed system provides functions that meet stated and implied needs or meet the target objectives.

Reliability is a degree to which a system, product or component performs specified functions under specified conditions for a specified period of time.

Usability refers to the degree to which a product or system can be used by specified users to achieve specified goals with effectiveness, efficiency and satisfaction in a specified context of use.

Efficiency refers to time, human resource and other resources expended in relation to the accuracy and completeness with which users achieve goals.

Portability refers to the degree of effectiveness and efficiency with which a system, product or component can be transferred from one hardware, software or other operational or usage environment to another.

Below are the following Criteria and its assessment results made from the Clients/End Users evaluation.

1. **FUNCTIONALITY**
2. **USABILITY**

Table 7. Assessment Results on the Functionality of the System made by the Clients/End Users.

	Criteria	Mean Rating	Verbal Description	Comments and Recommended Revisions
1.	Profiles health case records	4.78	Excellent	
2.	Track/Monitor the health of Municipality	4.83	Excellent	
3.	Produce tabular & graphical presentations of records.	4.78	Excellent	
4.	User management	4.90	Excellent	
5.	Print reports	4.72	Excellent	
6.	Store data/records	4.94	Excellent	
	WEIGHTED MEAN:	**4.83**	Excellent	

Table 7 shows the result of the evaluation for the Clients/End Users in system's functionality. It has a weighted mean of 4.83 which is excellent with no any comments or recommendation for revisions.

Table 8. Assessment Results on the Usability of the System made by the Clients/End Users.

	Criteria	Mean Rating	Verbal Description	Comments and Recommended Revisions
1.	Easy to use and understand	4.67	Excellent	
2.	Performs its functions well	4.83	Excellent	
3.	Clear function statements	5.00	Excellent	
	WEIGHTED MEAN:	**4.83**	Excellent	

Table 8 shows the result of evaluation in System's Usability that was done by the Clients and End Users. With a total weighted mean of 4.83 which is excellent with no any comments or recommendation for revisions.

Table 9. Total Assessment Results of the Developed System made by the Clients/End Users

	Criteria	Weighted Mean	Verbal Description	Comments and Recommended Revisions
1.	Functionality	4.83	Excellent	
2.	Usability	4.83	Excellent	
	AVERAGE:	**4.83**	Excellent	

Table 9 shows the total result of evaluation in System's Functionality and Usability that was done by the Clients and End Users. With a total average of 4.83 which is excellent with no any comments or recommendation for revisions.

Below are the following Criteria and its assessment results made from the IT Experts Users evaluation.

1. Functionality

Table 10. Assessment Results on the Functionality of the System made by the IT Experts.

	Criteria	Mean Rating	Verbal Description	Comments and Recommended Revisions
1.	Profiles health case records	4.50	Excellent	
2.	Track/Monitor the health of Municipality	5.00	Excellent	
3.	Produce tabular & graphical presentations of records.	4.00	Excellent	
4.	User management	4.50	Excellent	
5.	Print reports	5.00	Excellent	
6.	Store data/records	5.00	Excellent	
	WEIGHTED MEAN:	**4.67**	Excellent	

Table 10 shows the result of evaluation in System's Functionality that was done by the IT Experts. With a total mean of 4.67 which is excellent with no any comments or recommendation for revisions.

2. Reliability

Table 11. Assessment Results on the Reliability of the System made by the IT Experts.

	Criteria	Mean Rating	Verbal Description	Comments and Recommended Revisions
1.	Provision of error handling mechanism.	5.00	Excellent	
2.	Helpful alerts or pop overs.	5.00	Excellent	
	WEIGHTED MEAN:	**5.00**	Excellent	

Table 11 shows the result of evaluation in System's Reliability that was done by the IT Experts. With a total mean of 5.00 which is excellent with no any comments or recommendation for revisions.

3. Usability

Table 12. Assessment Results on the Usability of the System made by the IT Experts.

	Criteria	Mean Rating	Verbal Description	Comments and Recommended Revisions
1.	Easy to use and understand	4.50	Excellent	
2.	Performs its functions well	5.00	Excellent	
3.	Helpful for data analytics	5.00	Excellent	
4.	Clear function statements	4.50	Excellent	
	WEIGHTED MEAN:	**4.75**	Excellent	

Table 12 shows the result of evaluation in System's Usability that was done by the IT Experts. With a total mean of 4.75 which is excellent with no any comments or recommendation for revisions.

4. Efficiency

Table 13. Assessment Results on the Efficiency of the System made by the IT Experts.

	Criteria	Mean Rating	Verbal Description	Comments and Recommended Revisions
1.	Capability to launch a system with ease.	4.50	Excellent	
2.	Capability to respond quickly to user's request.	4.50	Excellent	
3.	Capability to prompt messages in times when the user points to tabs and links.	5.00	Excellent	
	WEIGHTED MEAN:	**4.67**	Excellent	

Table 13 shows the result of evaluation in System's Reliability that was done by the IT Experts. With a total mean of 4.67 which is excellent with no any comments or recommendation for revisions.

5. Portability

Table 14. Assessment Results on the Portability of the System made by the IT Experts.

	Criteria	Mean Rating	Verbal Description	Comments and Recommended Revisions
1.	Capability to run in any type of browser.	4.00	Excellent	
2.	Capability to open in any type of device.	4.50	Excellent	
	WEIGHTED MEAN:	**4.25**	Excellent	

Table 14 shows the result of evaluation in System's Portability that was done by the IT Experts. With a total mean of 4.25 which is excellent with no any comments or recommendation for revisions.

Table 15. Total Assessment Results of the Developed System made by the IT Experts.

	Criteria	Weighted Mean	Verbal Description	Comments and Recommended Revisions
1.	Functionality	4.67	Excellent	
2.	Reliability	5.00	Excellent	
3.	Usability	4.75	Excellent	
4.	Efficiency	4.67	Excellent	
5.	Portability	4.25	Excellent	
	AVERAGE:	**4.67**	Excellent	

Table 15 shows the total result of evaluation in System's Functionality, Reliability, Usability, Efficiency and Portability that was done by the IT Expert. With a total average of 4.67 which is excellent with no any comments or recommendation for revisions.

CHAPTER V

GRAPHICAL USER INTERFACE (GUI) AND CODING

This chapter contains the preview of the user interface mainly of the admin side and the user side and also the source code of some of the core elements of the system which includes both back-end and front-end development.

Graphical User Interface (GUI)

Figure 8. User's Registration View

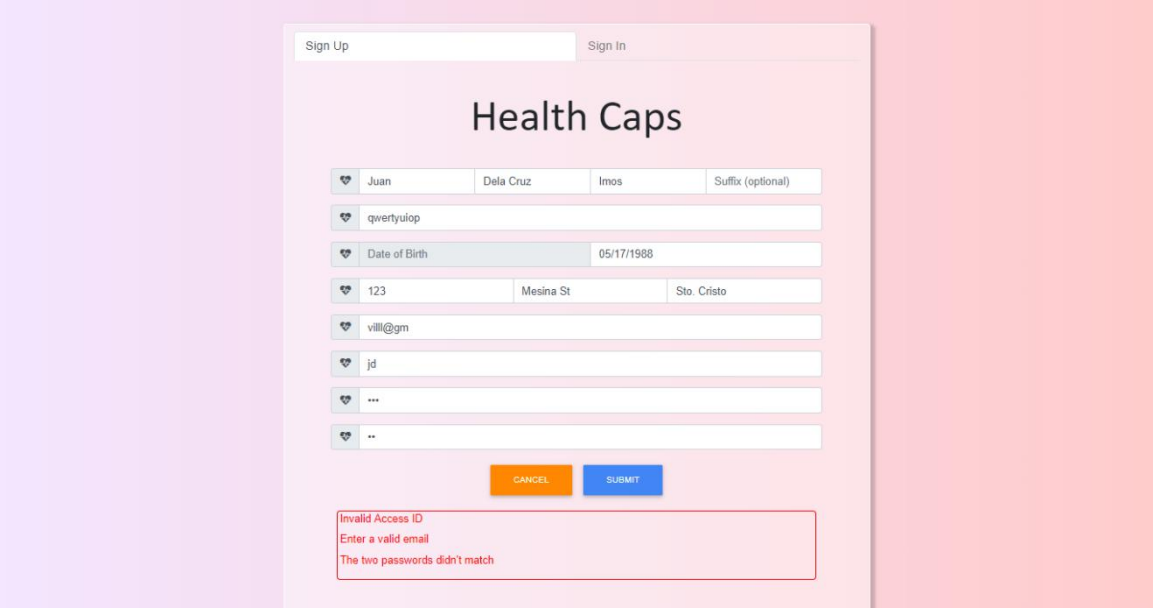
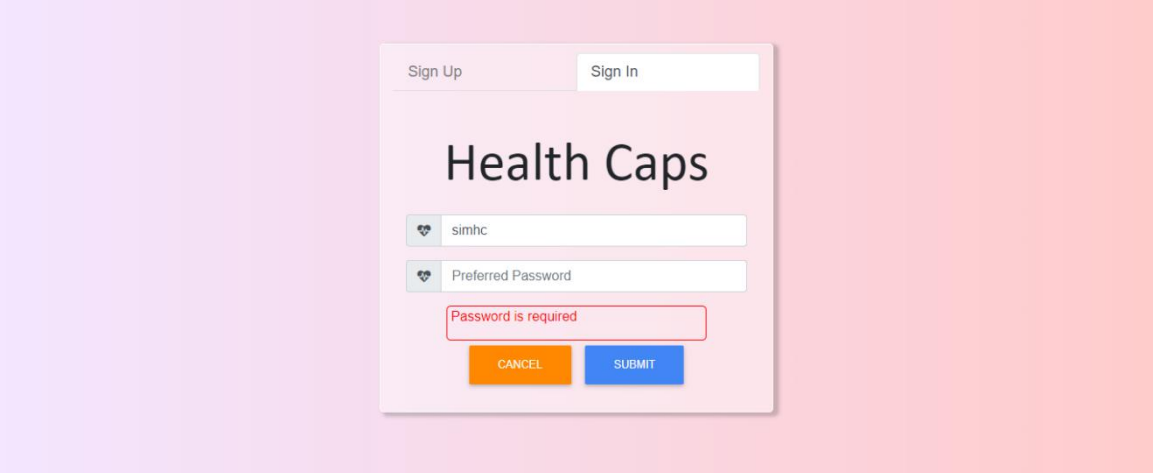
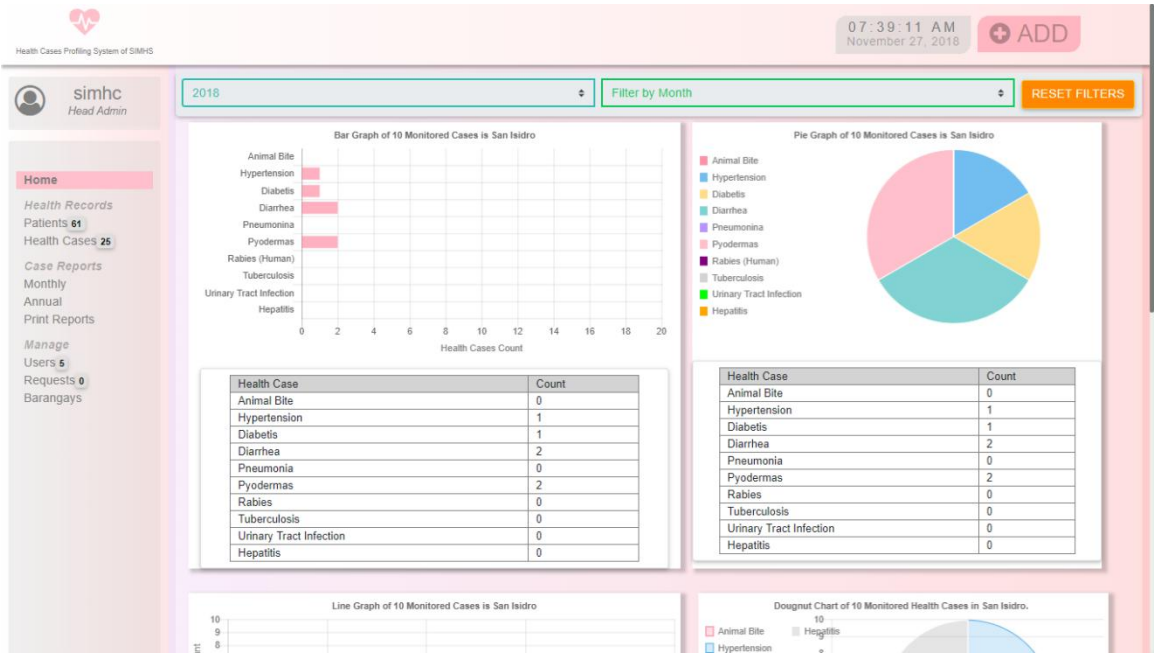


Figure 9. User's Sign in View



Figures 8 and 9 are two necessary views for a user to gain access and access the system itself. It is also accompanied by the presented error handlers for invalid inputs, empty required inputs and unmatched required inputs.

Figure 10. User's Dashboard



The presented view above is the admin dashboard which contains the actions that an admin account can do, add data, view data, filter data, present data, print data and so on and so forth.

The top-right section of this page is where the dynamic clock and the add-case button are located. While the central section of this page contains the 'home' view of the user, it is

the first view that a valid user will see as they access the system.

These contains these charts and tables which graphically displays the profiled records of cases in San Isidro. By having these, a user or an authorized viewer will be able to recognize which or what cases are arising in the vicinity and when did it occur.

The left-side section contains the sidebar and its action buttons or navigation links that will load the user's requested view.

Figure 11. Add Case View

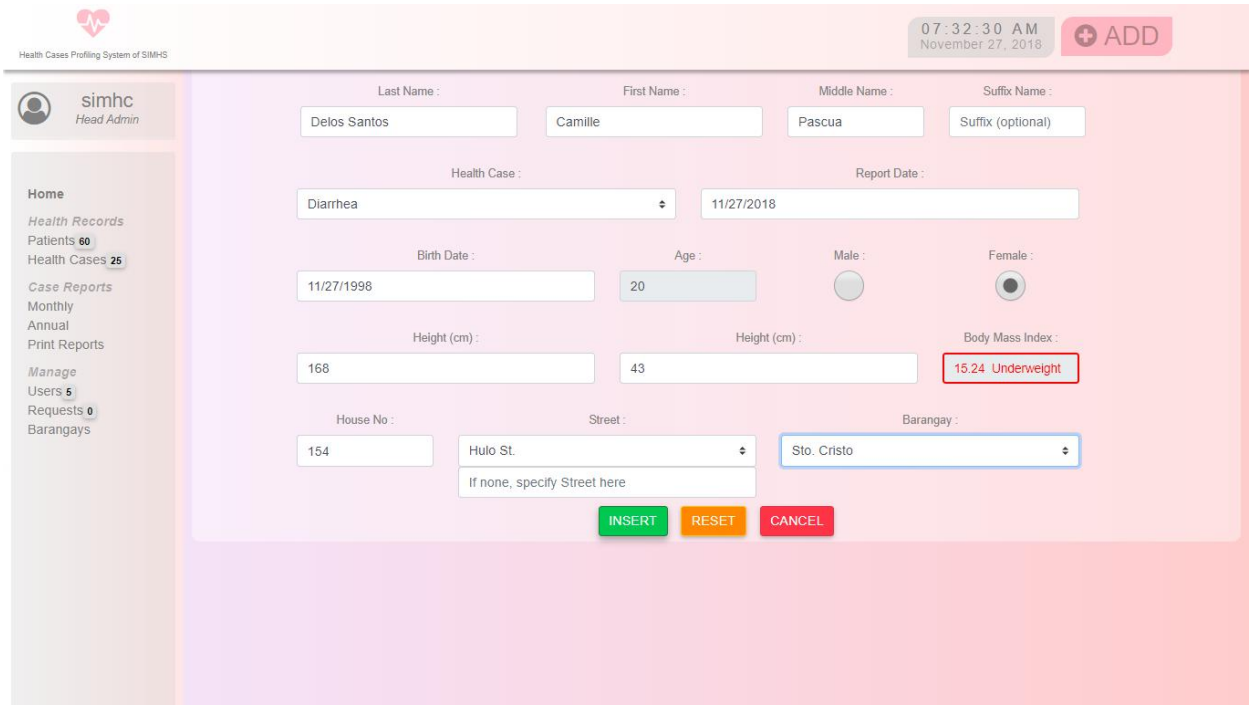


Figure 11 is the section that will be loaded when the user clicked the "ADD" button from the top-right corner of the

dashboard. These contains the necessary information needed in order to record a so called "health case".

The needed inputs are patient's full name (last name, first name, middle name, and if there's any suffix name), the health case which can be chosen from the drop-down selection box, report report is also required as well as the date of birth of the patient that will automatically compute the age, gender which can be picked from the radio buttons, height and weight for the computation and comparison of body mass index(bmi), then the house number, street and from which barangay of San Isidro for the patient's house location.

Figure 12. Patient's Records

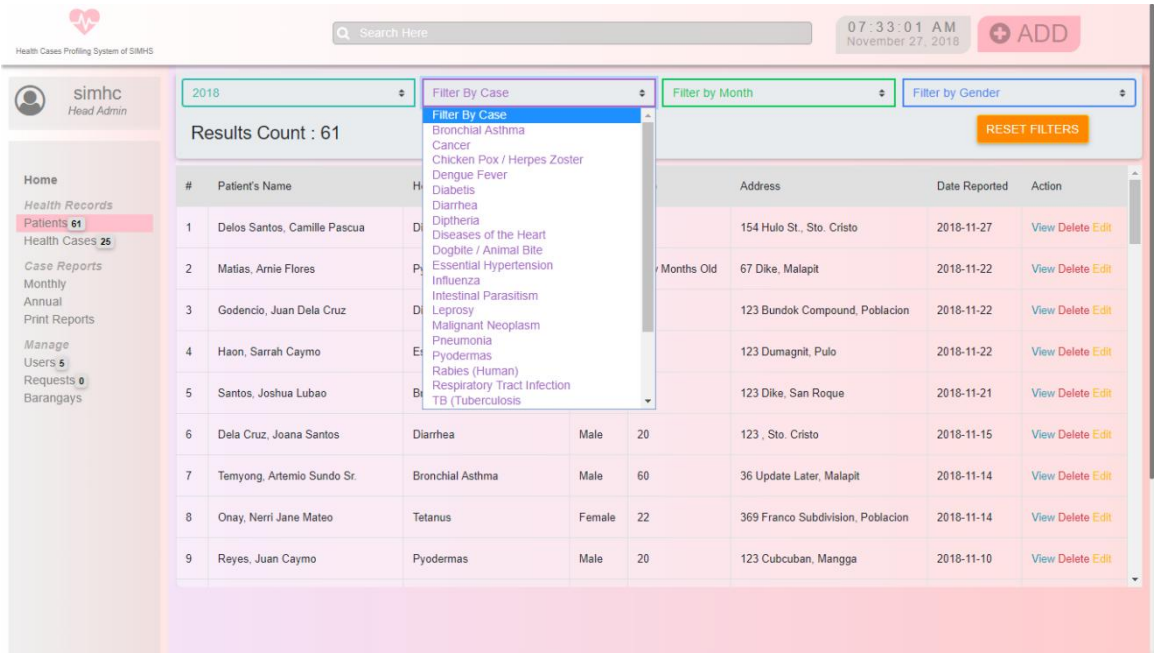


Figure 12 shows the patient record information where users can view , delete, and update data from the patient records.

Figure 13. Patient Information

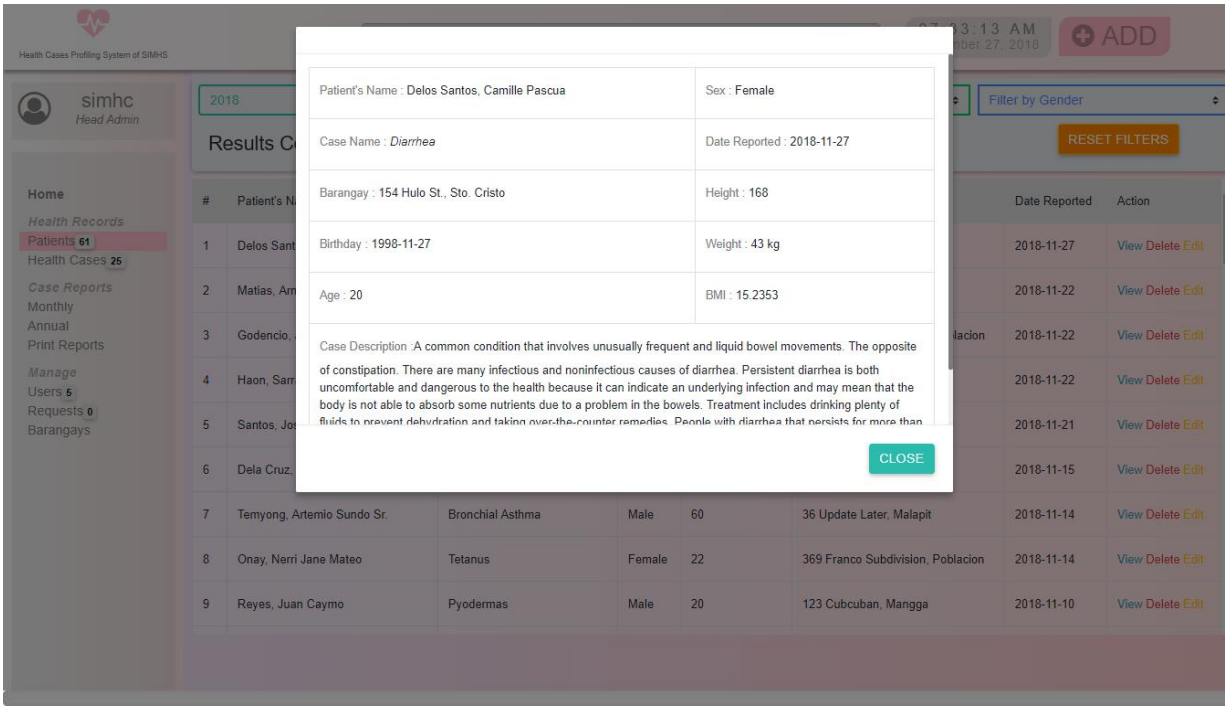


Figure 13 shows the sample patient information that was added in the profiling system.

Figure 14. Add User

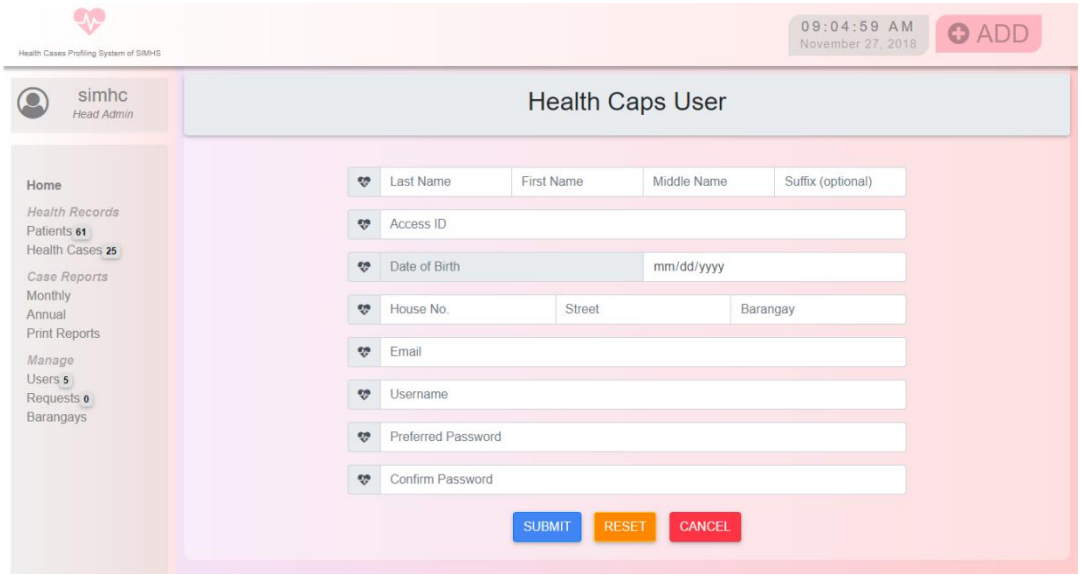
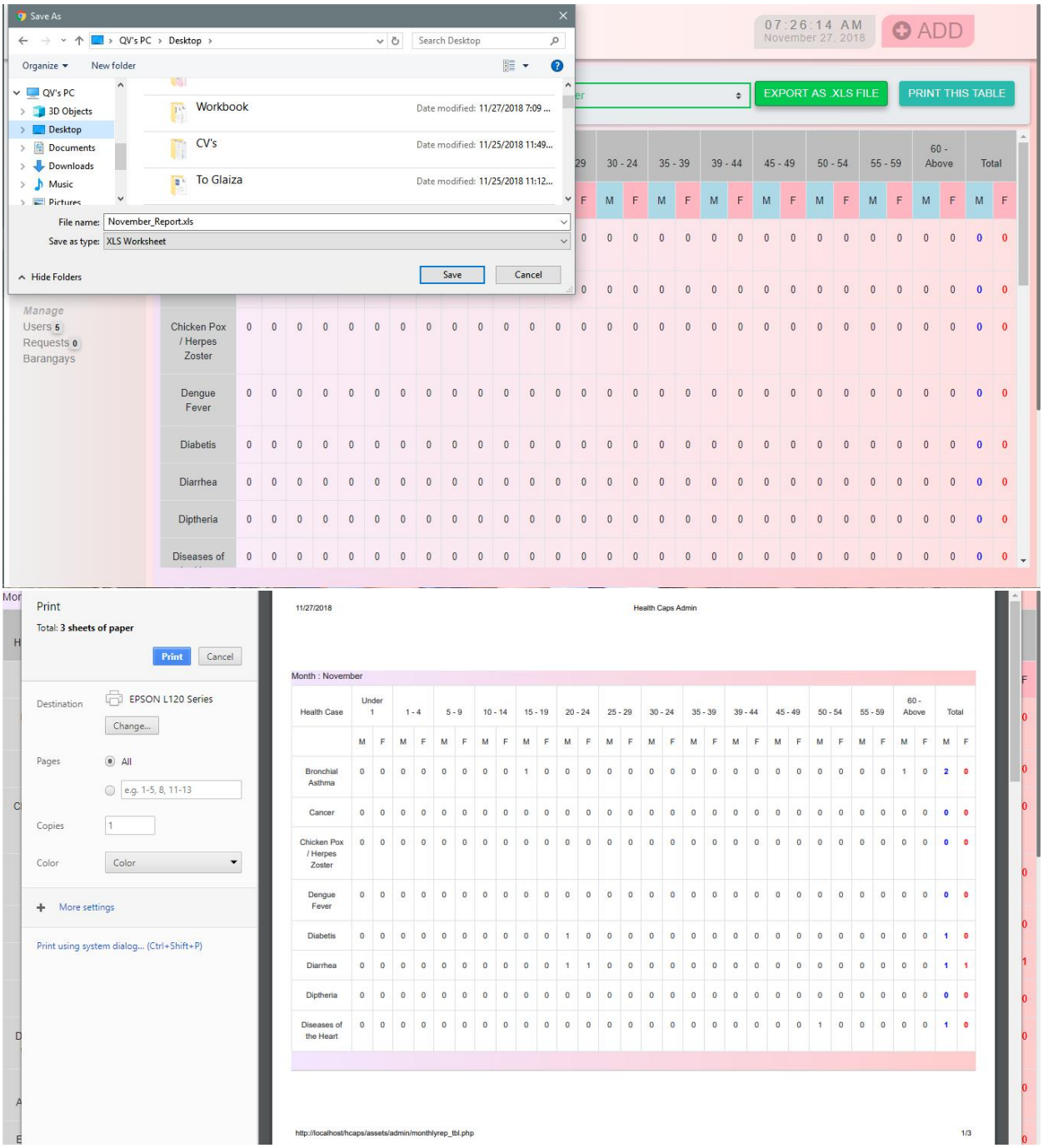


Figure 14 shows the Add user section where the admin can also add people who will can access the system.

Figure 15. View List of Users

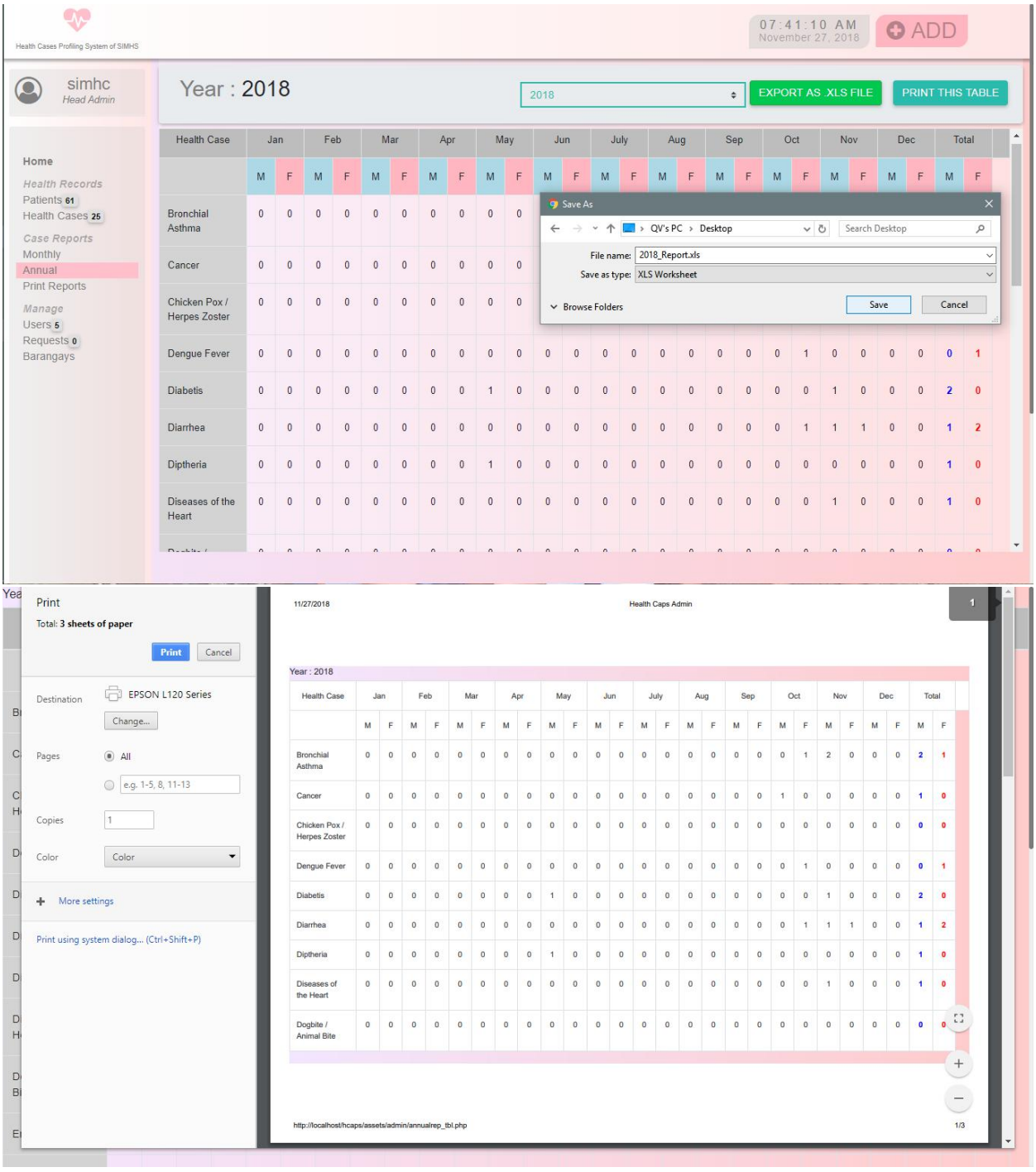
Figure 15 shows the users section where the list of authorized users can be viewed by the admin of the system.

Figure 16. Monthly Report



Figures above are the monthly report tables where the health cases filtered by a specific month can be viewed, printed and exported as an excel spreadsheet file.

Figure 17. Annual Report



Figures above shows the annual report tables where the health cases filtered by a specific year can be viewed, printed and exported as an excel spreadsheet file.

Figure 18. Filters

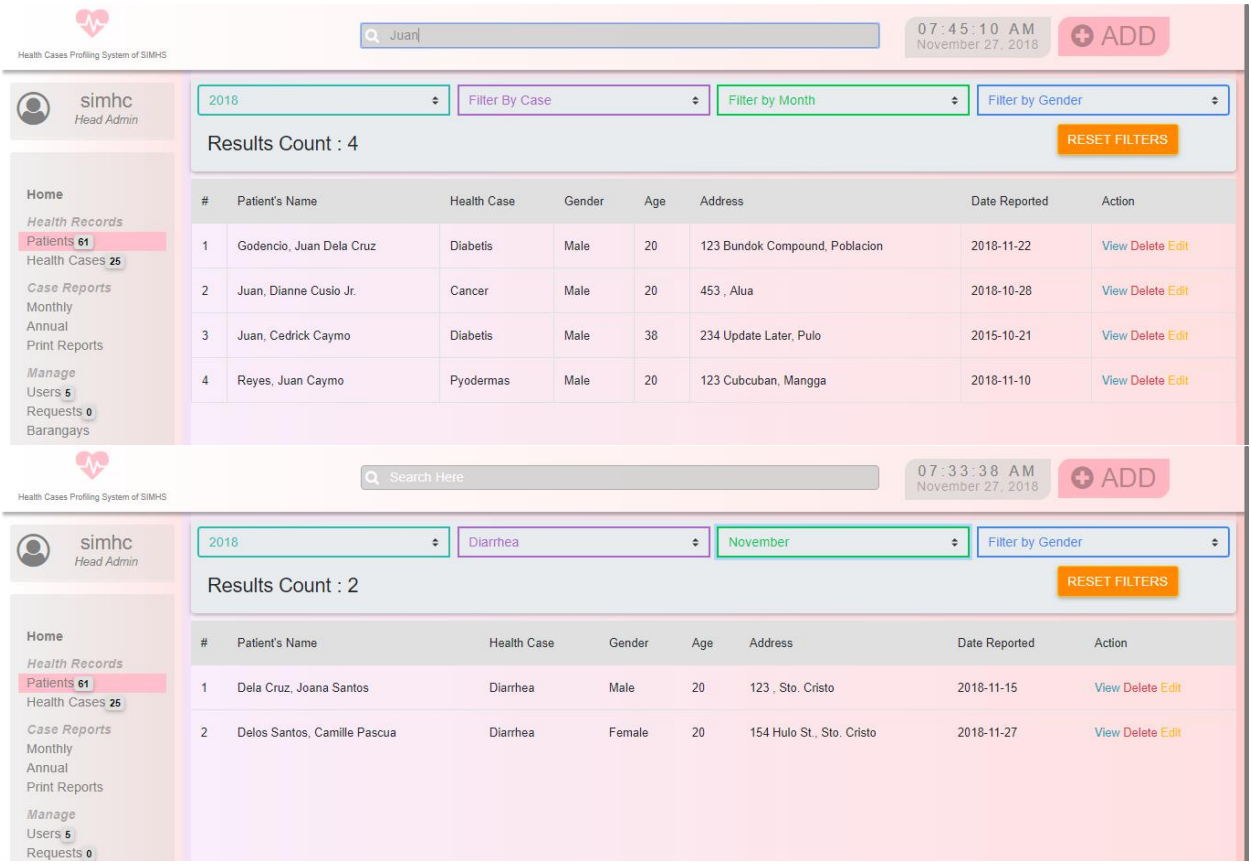


Figure 19. Print Filtered Data

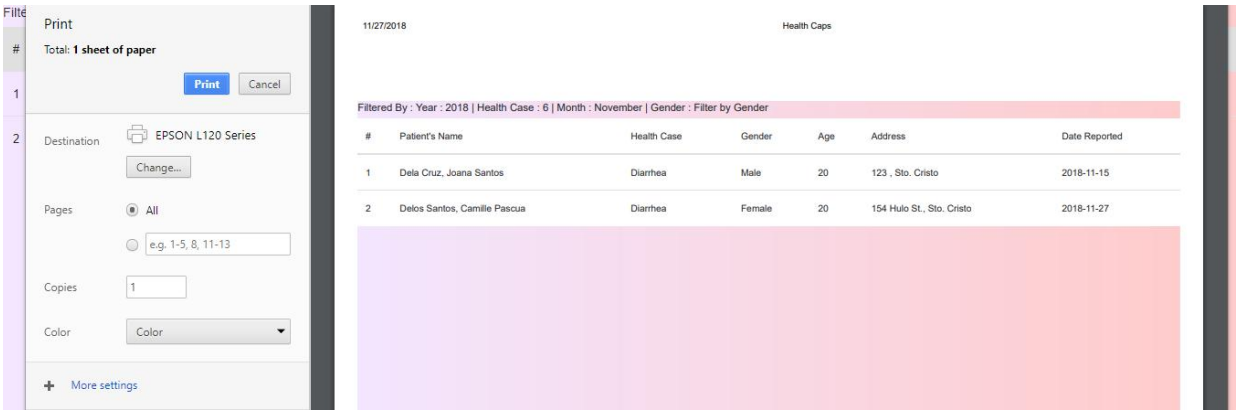


Figure 18 and 19 shows the Patient records which can be filtered by year, month, health case name, gender and the filtered data can be printed.

Coding

conn_config.php :

```
<?php
$servername = 'localhost';
$username = '****';
$password = '********';
$database = 'healthcasesps_db';
     try{
          $dbConn = new PDO("mysql:host
=$servername;dbname=$database", $username, $password);

            $dbConn->setAttribute(PDO::ATTR_ERRMODE,
PDO::ERRMODE_EXCEPTION);
     }catch (PDOExeption $e){
          echo "Connection failed: " . $e->getMessage();
     }
?>
```

server.php :

```
<?php
session_start();
include("conn_config.php");
include("notifcount.php");
$per_name= "";
$lname= "";
$mname= "";
$suffix="";
$per_bday ="";
$per_sex = "";
$per_houseNo = "";
$per_street = "";
$per_brgyid = "";
$per_roleid = "";
$per_username = "";
$per_email = "";
$hashpassword="";
$per_password="";
$per_reportdate ="";
$errors = array();
if(isset($_POST['register']))
{
     $per_name =   $_POST['per_name'];
$lname = $_POST['lname'];
$mname = $_POST['mname'];
$suffix = $_POST['suffix'];
$per_bday = $_POST['per_bday'];
```

```
$per_houseNo = $_POST['per_houseNo'];
$per_street = $_POST['per_street'];
$per_brgyid = $_POST['per_brgyid'];
$per_roleid =N$_POST['per_roleid'];
$dob = new DateTime($per_bday);
$now = new DateTime();
$difference = $now->diff($dob);
$per_age= $difference->y;
$per_reportdate= date("Y/m/d");
$per_username = $_POST['per_username'];
$per_email = $_POST['per_email'];
$password_1= $_POST['password_1'];
$password_2 =$_POST['password_2'];
$chkroleid = "SELECT COUNT(role_id) AS 'count' FROM
role_tbl WHERE role_id='$per_roleid'";

     $result = $dbConn->query($chkroleid);
     while($row = $result->fetch(PDO::FETCH_ASSOC)) {
      $roleid=$row['count'];
     }

if(!empty($per_roleid) && $roleid == 0 && $roleid != 1){
     array_push($errors, "Invalid Access ID");
}
if(empty($per_email)){
     array_push($errors, "E-mail is required");
}

if(!empty($per_email) && !filter_var($per_email,
FILTER_VALIDATE_EMAIL)){
     array_push($errors, "Enter a valid email");
}
$chkusername= "SELECT COUNT(username) AS 'count' FROM
user_tbl WHERE username='$per_username'";

     $result = $dbConn->query($chkusername);
     while($row = $result->fetch(PDO::FETCH_ASSOC)) {
      $username=$row['count'];
     }
if($username!=0){
     array_push($errors, "Username already taken");
}
if(empty($per_name)){
     array_push($errors, "Username is required");
}

if(empty($password_1)){
```

```
     array_push($errors, "Password is required");
}
if($password_1 != $password_2){
     array_push($errors, "The two passwords didn't match");
}

if(empty($suffix)){
     $suffix =  "";
}

if(count($errors) == 0)
{
     $per_password= password_hash($password_1,
PASSWORD_DEFAULT);
     $insert = "INSERT INTO requests_tbl (name, lname,
mname, suffix, bday, age, houseNo, street, brgyid,
reqrole_id, username, password, email, date_requested)
VALUES
(:name, :lname, :mname, :suffix, :bday, :age, :houseNo, :st
reet, :brgyid, :reqrole_id, :username, :password, :email, :
date_requested)";

     $query = $dbConn->prepare($insert);
     $query->bindparam(':name', $per_name);
     $query->bindparam(':lname', $lname) ;
     $query->bindparam(':mname', $mname) ;
     $query->bindparam(':suffix', $suffix);
     $query->bindparam(':bday', $per_bday);
     $query->bindparam(':age', $per_age);
     $query->bindparam(':houseNo', $per_houseNo);
     $query->bindparam(':street', $per_street);
     $query->bindparam(':brgyid', $per_brgyid);
     $query->bindparam(':reqrole_id', $per_roleid);
     $query->bindparam(':username', $per_username);
     $query->bindparam(':password', $per_password);
     $query->bindparam(':email', $per_email);
     $query->bindparam(':date_requested', $per_reportdate);
     $query->execute();
     $_SESSION['username'] = $per_username;
echo '<script>
window.location.href=\'register_response.php\';
</script>';
}
}
               //SIGN IN
if(isset($_POST['signin'])){
     $per_username = $_POST['per_username'];
```

```
     $per_password= $_POST['per_password'];
if(empty($per_username)){
     array_push($errors, "Username is required");
}
if(empty($per_password)){
     array_push($errors, "Password is required");
}

if(count($errors) == 0)
{
     $select = "SELECT * FROM user_tbl WHERE
username='$per_username'";
     $result = $dbConn->query($select);
     while($row = $result->fetch(PDO::FETCH_ASSOC)) {
      $hashpassword=$row['password'];
      $role= $row['reqrole_id'];
     }

     if($role!='head_admin')
     {
          if(password_verify($per_password,
$hashpassword)){
          $_SESSION['username'] = $per_username;
          $_SESSION['success'] = "You have signed in
successfully!";
          header('location: poblacion_adm.php');
          }
     }
     if($role=='head_admin'){
          if(password_verify($per_password,
$hashpassword)){
          $_SESSION['username'] = $per_username;
          $_SESSION['success'] = "You have signed in
successfully!";
          header('location: dashboard.php');
          }
     }
     else{
          array_push($errors, "wrong username/password
combination");
     }
}
}
                         //   SIGN OUT
if(isset($_GET['logout'])){
     session_destroy();
     unset($_SESSION['username']);
```

```
     header('location: signin.php');

}
                          //   OK in register
if(isset($_GET['ok'])){
     session_destroy();
     unset($_SESSION['username']);
     header('location: register.php');

}
?>
```

case_add.php :

```
<?php
include("default.php");
require("conn_config.php");
include("case_add2.php");
$qhcases ="SELECT * FROM hcases_tbl";
$qstreet ="SELECT * FROM street_tbl";
$qbrgy ="SELECT * FROM brgy_tbl";
?>
     <section id="doccontent">
        <div id="div1">
     <form method="POST" name="form1" id="red"
action="case_add.php">
        <div class="mr-0" style="margin-left: 10%;">
        <div class="row">
           <div class="m-1 col-xs-12 col-sm-3" style="text-
align: center;">
             <label class="headerlabel">Last Name :
</label>
             <input required  autofocus placeholder="Last
Name" type="text" id="lname" name="lname" class="form-
control" value="<?php echo $lname; ?>"> </div>

            <div class="mt-1 col-xs-12 col-sm-3"
style="text-align: center;">
            <label class="headerlabel">First Name :
</label>
            <input required  required autofocus
placeholder="First Name" type="text" id="per_name"
name="per_name" class="form-control" value="<?php echo
$per_name; ?>"> </div>
            <div class="mb-1 mt-1 col-xs-12 col-sm-2"
style="text-align: center;">
            <label class="headerlabel">Middle Name :
</label>
```

```
            <input required  type="text" class="form-
control" name="mname" placeholder="Middle Name" aria-
label="Small" aria-describedby="inputGroup-sizing-sm"
value="<?php echo $mname; ?>"></div>

            <div class="mb-1 mt-1 col-xs-12 col-sm-2"
style="text-align: center;">
             <label class="headerlabel">Suffix Name :
</label>
            <input type="text" class="form-control"
name="suffix" placeholder="Suffix (optional)" aria-
label="Small" aria-describedby="inputGroup-sizing-sm"
value="<?php echo $suffix; ?>"></div>
          </div>

        <div class="mt-4 row">
            <div class="mb-1 mt-1 col-xs-12 col-sm-5"
style="text-align: center;">
            <label class="headerlabel">Health Case :
</label>
            <select required class="custom-select"
id="per_hcaseid" name="per_hcaseid">
            <option hidden>--Select from the following--
</option>
       <?php
       foreach ($dbConn->query($qhcases) as $row) {
          echo "<option
value=".$row['hcase_id'].">".$row['hcase_name']."</option>";
                }
             ?>
             </select>
            </div>

         <div class="mb-1 mt-1 col-xs-12 col-sm-5"
style="text-align: center;">
        <label class="headerlabel">Report Date : </label>
            <input required type="date" max="<?php
         echo date('Y-m-d');?>" value="<?php echo date('Y-
m-d');?>" id="per_reportdate" name="per_reportdate"
class="form-control"></div>
        </div>

        <div class="mt-4 row">
          <div class="mb-1 mt-1 col-xs-12 col-sm-4"
style="text-align: center;">
          <label class="headerlabel">Birth Date : </label>
```

```
          <input required type="date" id="per_bday"
name="per_bday" class="form-control" min="1900-01-01"
max="<?php echo date('Y-m-d');?>" value="<?php echo
date('Y-m-d');?>"></div>

            <div class="mb-1 mt-1 col-xs-12 col-sm-2"
style="text-align: center;">
            <label class="headerlabel">Age : </label>
            <input disabled type="text" maxlength="3"
id="per_age" placeholder="Age" name="per_age" class="form-
control"></div>

            <div class="mb-1 mt-1 col-xs-2 col-sm-2"
style="text-align: center;">
            <label class="headerlabel">Male : </label>
             <input checked type="radio" class="form-
control" value="Male" id="per_sex" name="per_sex">
            </div>
            <div class="mb-1 mt-1 col-xs-2 col-sm-2"
style="text-align: center;">
            <label class="headerlabel">Female : </label>
             <input type="radio" class="form-control"
value="Female" id="per_sex" name="per_sex">
            </div>
          </div>

        <div class="mt-4 row">
            <div class="mb-1 mt-1 col-xs-12 col-sm-4"
style="text-align: center;">
            <label class="headerlabel">Height (cm) :
</label>
            <input autofocus placeholder="Height"
type="number" maxlength="3" id="per_height"
name="per_height" class=" form-control" value="<?php echo
$per_height; ?>"></div>

            <div class="mb-1 mt-1 col-xs-12 col-sm-4"
style="text-align: center;">
            <label class="headerlabel">Height (cm) :
</label>
            <input type="number" id="per_weight"
name="per_weight" placeholder="Weight"class="form-control"
value="<?php echo $per_weight; ?>">
            </div>
            <div class="mb-1 mt-1 col-xs-12 col-sm-2"
style="text-align: center;">
```

```
              <label class="headerlabel">Body Mass Index :
</label> <input disabled type="text" id="per_bmi"
name="per_bmi" data-toggle="tooltip" title="" data-
placement="right" placeholder="BMI" class="form-control"
value="<?php echo $per_bmi; ?>">
            </div>
          </div>
         <div class="mt-4 row">
             <div class="mb-1 mt-1 col-xs-12 col-sm-2"
style="text-align: center;">
              <label class="headerlabel">House No : </label>
                <input type="number" id="per_houseNo"
name="per_houseNo" class="form-control" value="<?php echo
$per_houseNo; ?>">
              </div>
             <div class="mb-1 mt-1 col-xs-12 col-sm-4"
style="text-align: center;">
             <label class="headerlabel">Street : </label>
                <select class="custom-select" id="street1"
name="street1">
             <option hidden>--Select from the following--
</option>
              <?php
              foreach ($dbConn->query($qstreet) as $row) {
            echo "<option>".$row['street_name']."</option>";
                 }
              ?>
              </select>
              <input type="text" id="street2" name="street2"
class="form-control" placeholder="If none, specify Street
here">
             </div>
             <div class="mb-1 mt-1 col-xs-12 col-sm-4"
style="text-align: center;">
             <label class="headerlabel">Barangay : </label>
            <select class="custom-select" id="per_brgyid"
name="per_brgyid">
           <option hidden>--Select from the following--
</option>
              <?php
              foreach ($dbConn->query($qbrgy) as $row) {
            echo "<option id=\"per_brgyid\"
value=".$row['brgy_id']."">".$row['brgy_name']."</option>";
          }
?>
         </select>
            </div>
```

```
        </div>
    </div>
    <div class="row">
            <div class="col-xs-12 col-sm-12" style="text-
align: center;">
                <center>
             <button type="submit" class="btn btn-success"
name="add">INSERT</button>
             <input hidden type="text" name="per_id"
value=<?php echo $per_id;?>>
             <button class="btn btn-warning" type="reset"
name="reset">RESET</button>
            <a href="dashboard.php"><button class="btn btn-
danger">CANCEL</button></a>
            </center>
            </div>
    </div>
        </div>
    </div>

      <?php
         include("errors.php"); ?>
    </form>

</div>
</section>

<script src="../js/jquery-3.3.1.min.js"></script>
<script type="text/javascript">
$(document).ready(function(){
       $('[data-toggle="tooltip"]').tooltip();
   });
</script>
<script type="text/javascript">
$(document).ready(function(){
   $("#per_height, #per_weight").keyup(function(){
     var per_height = $("#per_height").val();
     var per_weight = $("#per_weight").val();
     var heightsq= per_height * per_height;
     var height= heightsq*0.0001;
     var per_bmi =per_weight/height;
     var rounded_bmi= per_bmi.toPrecision(4);
    if(rounded_bmi <= 18 && rounded_bmi >=15){
       $("#per_bmi").css("border","2px solid red");
        $("#per_bmi").css("font-size", "15px");
        $("#per_bmi").css("color", "red");
```

```
        $("#per_bmi").val(rounded_bmi+ "
Underweight").trigger(change);
    }

    else if(rounded_bmi <= 30 && rounded_bmi >18){
        $("#per_bmi").css("border","2px solid lightgreen");
        $("#per_bmi").css("color", "lightgreen");
         $("#per_bmi").val(rounded_bmi + "
Normal").trigger(change);
    }

    else if(per_height =="" || per_weight ==""){
        $("#per_bmi").css("border", "");
        $(".indicator").text("");
        $("#per_bmi").val("").trigger(change);
    }
    });
});
</script>

<script type="text/javascript">
$(document).ready(function(){

    $("#per_bday").change(function(){
    var Bdate = document.getElementById('per_bday').value;
    var Bday = +new Date(Bdate);
    var per_age= ((Date.now() - Bday) / (31557600000));
    // var roundedage= per_age.toPrecision(3)
    var rounded_age = Math.round(per_age);
    $("#per_age").val(rounded_age).trigger(change);
    });
});
</script>
    <script src="../js/myscript.js"
type="text/javascript"></script>
    <script src="../js/popper.min.js"
type="text/javascript"></script>
    <script src="../js/bootstrap.min.js"
type="text/javascript"></script>
    <script src="../js/bootstrap.js"
type="text/javascript"></script>
    <script src="../js/mdb.min.js"></script>
<script src="../js/mdb.js" type="text/javascript"></script>
</body>
</html>
```

case_add2.php :

```php
<?php
include("conn_config.php");
$per_name ="";
$lname= "";
$mname= "";
$suffix="";
$per_age ="";
$per_bday ="";
$per_bmi ="";
$per_brgyid ="";
$per_email ="";
$per_hcaseid ="";
$per_height ="";
$per_houseNo ="";
$per_id ="";
$per_password ="";
$per_reportdate ="";
$per_roleid ="";
$per_sex ="";
$per_street ="";
$per_username ="";
$per_weight ="";
$errors = array();

if(isset($_POST['add'])) {

$per_bday =$_POST['per_bday'];
$per_brgyid =$_POST['per_brgyid'];
$per_hcaseid =$_POST['per_hcaseid'];
$per_height =$_POST['per_height'];
$per_weight =$_POST['per_weight'];
$heightsq= $per_height * $per_height;
$height= $heightsq*0.0001;
$per_houseNo =$_POST['per_houseNo'];
$per_name =$_POST['per_name'];
$lname =   $_POST['lname'];
$mname =   $_POST['mname'];
$suffix =   $_POST['suffix'];
$per_reportdate =$_POST['per_reportdate'];
$per_sex =$_POST['per_sex'];
$street1 = $_POST['street1'];
$street2 = $_POST['street2'];
$dob = new DateTime($per_bday);
$now = new DateTime();
$difference = $now->diff($dob);
$per_age= $difference->y;
```

```
$per_roleid = 'patient';
if(empty($street1))
{
    $per_street=$street2;
}
if(empty($street2))
{
    $per_street= $street1;
}
if (empty($street1) && empty($street2)){

    $per_street='Update Later';
}
if(empty($per_houseNo)){
    $per_houseNo =  " ";
}
if(empty($per_height)){
    $per_height =  "";
    $per_bmi="";
}
if(empty($per_weight)){
    $per_weight =  "";
    $per_bmi="";
}
if(!empty($per_height) && !empty($per_weight)){

    $round_bmi =$per_weight/$height;
    $per_bmi = round($round_bmi, 4);
}
if($per_age <= 1 ){
    $per_age ="Months Old";
}
$insert = "INSERT INTO persons_tbl(
   per_age,
   per_bday,
   per_bmi,
   per_brgyid,
   per_hcaseid,
   per_height,
   per_houseNo,
   per_name, lname, mname, suffix,
   per_reportdate,
   per_roleid,
   per_sex,
   per_street,
   per_weight)
 VALUES (:per_age,
```

```
 :per_bday,
 :per_bmi,
 :per_brgyid,
 :per_hcaseid,
 :per_height,
 :per_houseNo,
 :per_name, :lname, :mname, :suffix,
 :per_reportdate,
 :per_roleid,
 :per_sex,
 :per_street,
 :per_weight)";

 $query = $dbConn->prepare($insert);
 $query->bindparam(':per_age', $per_age);
 $query->bindparam(':per_bday', $per_bday);
 $query->bindparam(':per_bmi', $per_bmi);
 $query->bindparam(':per_brgyid', $per_brgyid);
 $query->bindparam(':per_hcaseid', $per_hcaseid);
 $query->bindparam(':per_height', $per_height);
 $query->bindparam(':per_houseNo', $per_houseNo);
 $query->bindparam(':per_name', $per_name);
 $query->bindparam(':lname', $lname);
 $query->bindparam(':mname', $mname);
 $query->bindparam(':suffix', $suffix);
 $query->bindparam(':per_reportdate', $per_reportdate);
 $query->bindparam(':per_roleid', $per_roleid);
 $query->bindparam(':per_sex', $per_sex);
 $query->bindparam(':per_street', $per_street);
 $query->bindparam(':per_weight', $per_weight);
 $query->execute();
 echo
"<script>window.location.href='patient.php';</script>";
}
?>
```

patient_delete :

```
<?php
 require("conn_config.php");
$per_id = $_POST['per_id'];
$sql = "DELETE FROM persons_tbl WHERE per_id=:per_id;";

$query = $dbConn->prepare($sql);
$query->execute(array(':per_id' => $per_id));
```

```
?>
```
patient_update :
```
<?php
include("default.php");
require("conn_config.php");
$per_id= $_REQUEST['per_id'];

if (!empty($_GET['per_id'])){
    $per_id=$_REQUEST['per_id'];
}
if(null==$per_id){
    header("Location: patient.php");
}
if(!empty($_POST))
{
    $per_id=$_POST['per_id'];
    $per_bday =$_POST['per_bday'];
    $per_brgyid =$_POST['per_brgyid'];
    $per_hcaseid =$_POST['per_hcaseid'];
    $per_height =$_POST['per_height'];
    $per_weight =$_POST['per_weight'];
    $heightsq= $per_height * $per_height;
    $height= $heightsq*0.0001;
    $per_bmi =$per_weight/$height;
    $per_houseNo =$_POST['per_houseNo'];
    $per_name =$_POST['per_name'];
    $lname =   $_POST['lname'];
    $mname =   $_POST['mname'];
    $suffix =   $_POST['suffix'];
    $per_reportdate =$_POST['per_reportdate'];
    $per_sex =$_POST['per_sex'];
    $per_street= $_POST['per_street'];
    $dob = new DateTime($per_bday);
    $now = new DateTime();
    $difference = $now->diff($dob);
    $per_age= $difference->y;

    if(empty($suffix)){
    $suffix =  "";
}

if (empty($per_street)){

    $per_street='Update Later';
}
if(empty($per_houseNo)){
    $per_houseNo =  "";
```

```
}
if(empty($per_height)){
    $per_height =  "";
    $per_bmi="";
}

if(empty($per_weight)){
    $per_weight =  "";
    $per_bmi="";
}

if($per_age <= 1 ){
    $per_age ="Few Months Old";
}

$valid=true;

if($valid)
{
     $sql = "UPDATE persons_tbl SET
        per_age=:per_age,
        per_bday=:per_bday,
        per_bmi=:per_bmi,
        per_brgyid=:per_brgyid,
        per_hcaseid=:per_hcaseid,
        per_height=:per_height,
        per_houseNo=:per_houseNo,
        per_name=:per_name, lname=:lname, mname=:mname,
suffix=:suffix,
        per_reportdate=:per_reportdate,
        per_sex=:per_sex,
        per_street=:per_street,
        per_weight=:per_weight
        WHERE
        per_id=:per_id";

         $query = $dbConn->prepare($sql);
        $query->bindparam(':per_id', $per_id);
        $query->bindparam(':per_age', $per_age);
        $query->bindparam(':per_bday', $per_bday);
        $query->bindparam(':per_bmi', $per_bmi);
        $query->bindparam(':per_brgyid', $per_brgyid);
        $query->bindparam(':per_hcaseid', $per_hcaseid);
        $query->bindparam(':per_height', $per_height);
        $query->bindparam(':per_houseNo', $per_houseNo);
        $query->bindparam(':per_name', $per_name);
        $query->bindparam(':lname', $lname);
```

```
        $query->bindparam(':mname', $mname);
        $query->bindparam(':suffix', $suffix);
        $query->bindparam(':per_reportdate',
$per_reportdate);
        $query->bindparam(':per_sex', $per_sex);
        $query->bindparam(':per_street', $per_street);
        $query->bindparam(':per_weight', $per_weight);
        $query->execute();

        echo
"<script>window.location.href='patient.php';</script>";
}
}
else{
 $sql ="SELECT per_id, per_age,
        per_bday,
        per_bmi,
        per_brgyid,
        per_hcaseid,
        per_height,
        per_houseNo,
        per_name, lname, mname, suffix,
        per_reportdate,
        per_roleid,
        per_sex,
        per_street,
        per_weight, brgy_name, hcase_name FROM persons_tbl,
hcases_tbl, brgy_tbl where per_id=? AND
persons_tbl.per_hcaseid=hcases_tbl.hcase_id AND
persons_tbl.per_brgyid=brgy_tbl.brgy_id";
$per_id= $_REQUEST['per_id'];
$query=$dbConn->prepare($sql);
$query->execute(array($per_id));
$data=$query->fetch(PDO::FETCH_ASSOC);
$per_id=$data['per_id'];
$per_bday =$data['per_bday'];
$per_brgyid =$data['per_brgyid'];
$per_hcaseid =$data['per_hcaseid'];
$per_height =$data['per_height'];
$per_weight =$data['per_weight'];
$per_bmi = $data['per_bmi'];
$per_houseNo =$data['per_houseNo'];
$per_name =$data['per_name'];
$lname = $data['lname'];
$mname = $data['mname'];
$suffix = $data['suffix'];
$per_reportdate =$data['per_reportdate'];
```

```
$per_sex =$data['per_sex'];
$per_street =$data['per_street'];
$per_age= $data['per_age'];
$brgy_name= $data['brgy_name'];
$hcase_name= $data['hcase_name'];
$hcase_name= $data['hcase_name'];
}

$qhcases ="SELECT * FROM hcases_tbl";
$qstreet ="SELECT * FROM street_tbl";
$qbrgy ="SELECT * FROM brgy_tbl";
?>
<section id="doccontent">

    <form method="POST" name="form2" id="red"
action="patient_update.php">  <!-- onsubmit="return
submitdata(); -->
    <div class="p-3 m-0 jumbotron row">
        <h3 class="col-sm-6">Patient Information
Update</h3>
            <div class="col-xs-12 col-sm-6" style="text-
align: center;">
             <button type="submit" class="btn btn-success"
name="update">UPDATE</button>
             <input hidden type="text" name="per_id"
value="<?php echo $per_id;?>">
             <button class="btn btn-warning" type="reset"
name="reset">RESET</button>
            <a href="patient.php"><button class="btn btn-
danger">CANCEL</button></a>
        </div>
    </div>

    <div class="container">
        <div class="mr-0" style="margin-left: 10%;">
        <div class="row">
           <div class="m-1 col-xs-12 col-sm-3" style="text-
align: center;">
             <label class="headerlabel">Last Name :
</label>
             <input required  autofocus placeholder="Last
Name" type="text" id="lname" name="lname" class="form-
control" value="<?php echo $lname; ?>"> </div>

            <div class="mt-1 col-xs-12 col-sm-3"
style="text-align: center;">
```

```
            <label class="headerlabel">First Name :
</label>
             <input required  required autofocus
placeholder="First Name" type="text" id="per_name"
name="per_name" class="form-control" value="<?php echo
$per_name; ?>"> </div>

            <div class="mb-1 mt-1 col-xs-12 col-sm-2"
style="text-align: center;">
            <label class="headerlabel">Middle Name :
</label>
            <input required  type="text" class="form-
control" name="mname" placeholder="Middle Name" aria-
label="Small" aria-describedby="inputGroup-sizing-sm"
value="<?php echo $mname; ?>"></div>

            <div class="mb-1 mt-1 col-xs-12 col-sm-2"
style="text-align: center;">
             <label class="headerlabel">Suffix Name :
</label>
            <input type="text" class="form-control"
name="suffix" placeholder="Suffix (optional)" aria-
label="Small" aria-describedby="inputGroup-sizing-sm"
value="<?php echo $suffix; ?>"></div>
        </div>

        <div class="mt-4 row">
            <div class="mb-1 mt-1 col-xs-12 col-sm-5"
style="text-align: center;">
            <label class="headerlabel">Health Case :
</label>
            <select required class="custom-select"
id="per_hcaseid" name="per_hcaseid">
             <?php
              echo "<option hidden selected
value=".$per_hcaseid.">".$hcase_name."</option>";
                foreach ($dbConn->query($qhcases) as $row)
{
                echo "<option
value=".$row['hcase_id'].">".$row['hcase_name']."</option>";
                }
             ?>
             </select>
            </div>
         <div class="mb-1 mt-1 col-xs-12 col-sm-5"
style="text-align: center;">
        <label class="headerlabel">Report Date : </label>
```

```
            <input required type="date" max="<?php
         echo date('Y-m-d');?>" value="<?php echo
$per_reportdate;?>" id="per_reportdate"
name="per_reportdate" class="form-control"></div>
        </div>

        <div class="mt-4 row">
            <div class="mb-1 mt-1 col-xs-12 col-sm-4"
style="text-align: center;">
            <label class="headerlabel">Birth Date :
</label>
            <input required type="date" id="per_bday"
name="per_bday" class="form-control" min="1900-01-01"
max="<?php echo date('Y-m-d');?>" value="<?php echo
$per_bday;?>"></div>

            <div class="mb-1 mt-1 col-xs-12 col-sm-2"
style="text-align: center;">
            <label class="headerlabel">Age : </label>
            <input disabled type="text" maxlength="3"
id="per_age" placeholder="Age" name="per_age" class="form-
control" value="<?php echo $per_age; ?>"></div>

            <div class="mb-1 mt-1 col-xs-12 col-sm-2"
style="text-align: center;">
            <label class="headerlabel">Male : </label>
             <input checked type="radio" class="form-
control" value="Male" id="per_sex" name="per_sex">
            </div>

            <div class="mb-1 mt-1 col-xs-12 col-sm-2"
style="text-align: center;">
            <label class="headerlabel">Female : </label>
             <input type="radio" class="form-control"
value="Female" id="per_sex" name="per_sex">
            </div>
        </div>

        <div class="mt-4 row">
            <div class="mb-1 mt-1 col-xs-12 col-sm-4"
style="text-align: center;">
            <label class="headerlabel">Height (cm) :
</label>
            <input autofocus placeholder="Height"
type="text" maxlength="3" id="per_height" name="per_height"
class=" form-control" value="<?php echo
$per_height; ?>"></div>
```

```
            <div class="mb-1 mt-1 col-xs-12 col-sm-4"
style="text-align: center;">
            <label class="headerlabel">Height (cm) :
</label>
            <input type="text" id="per_weight"
name="per_weight" placeholder="Weight"class="form-control"
value="<?php echo $per_weight; ?>">
            </div>

            <div class="mb-1 mt-1 col-xs-12 col-sm-2"
style="text-align: center;">
              <label class="headerlabel">Body Mass Index :
</label> <input disabled type="text" id="per_bmi"
name="per_bmi" data-toggle="tooltip" title="" data-
placement="right" placeholder="BMI" class="form-control"
value="<?php echo $per_bmi; ?>">
            </div>

         </div>

        <div class="mt-4 row">
            <div class="mb-1 mt-1 col-xs-12 col-sm-2"
style="text-align: center;">
             <label class="headerlabel">House No : </label>
            <input type="text" id="per_houseNo"
name="per_houseNo" class="form-control" value="<?php echo
$per_houseNo; ?>">
             </div>

            <div class="mb-1 mt-1 col-xs-12 col-sm-4"
style="text-align: center;">
            <label class="headerlabel">Street : </label>
            <select class="custom-select" id="per_street"
name="per_street">
            <option hidden>--Select from the following--
</option>
             <?php
            echo "<option hidden selected
value=".$per_street.">".$per_street."</option>";
            foreach ($dbConn->query($qstreet) as $row) {
            echo "<option>".$row['street_name']."</option>";
                }
             ?>
             </select>
            </div>
            <div class="mb-1 mt-1 col-xs-12 col-sm-4"
style="text-align: center;">
```

```
            <label class="headerlabel">Barangay : </label>
           <select class="custom-select" id="per_brgyid"
name="per_brgyid">
           <option hidden>--Select from the following--
</option>
             <?php
              echo "<option hidden selected
value=".$per_brgyid.">".$brgy_name."</option>";
            foreach ($dbConn->query($qbrgy) as $row) {
           echo "<option id=\"per_brgyid\"
value=".$row['brgy_id'].">".$row['brgy_name']."</option>";
                }
             ?>
          </select>
             </div>
         </div>
    </div>
    <div class="row">
    </div>

        <?php
         include("errors.php"); ?>
    </form>
    </div>

</section>

<script src="../js/jquery-3.3.1.min.js"></script>
<script type="text/javascript">
$(document).ready(function(){
       $('[data-toggle="tooltip"]').tooltip();
   });
</script>

<script type="text/javascript">
$(document).ready(function(){
   $("#per_height, #per_weight").keyup(function(){
    var per_height = $("#per_height").val();
    var per_weight = $("#per_weight").val();
    var heightsq= per_height * per_height;
    var height= heightsq*0.0001;
    var per_bmi =per_weight/height;
    var rounded_bmi= per_bmi.toPrecision(4);

    if(rounded_bmi <= 18 && rounded_bmi >=15){
       $("#per_bmi").css("border","2px solid red");
        $("#per_bmi").css("font-size", "15px");
```

```
        $("#per_bmi").css("color", "red");
        $("#per_bmi").val(rounded_bmi+ "
Underweight").trigger(change);
    }

    else if(rounded_bmi <= 30 && rounded_bmi >18){
        $("#per_bmi").css("border","2px solid lightgreen");
        $("#per_bmi").css("color", "lightgreen");
         $("#per_bmi").val(rounded_bmi + "
Normal").trigger(change);
    }

    else if(per_height =="" || per_weight ==""){
        $("#per_bmi").css("border", "");
        $(".indicator").text("");
        $("#per_bmi").val("").trigger(change);
    }
    });
});
</script>

<script type="text/javascript">
$(document).ready(function(){
    $("#per_bday").change(function(){
    var Bdate = document.getElementById('per_bday').value;
    var Bday = +new Date(Bdate);
    var per_age= ((Date.now() - Bday) / (31557600000));
    // var roundedage= per_age.toPrecision(3)
    var rounded_age = Math.round(per_age);
    $("#per_age").val(rounded_age).trigger(change);
    });
});
</script>
     <script src="../js/myscript.js"
type="text/javascript"></script>
    <script src="../js/popper.min.js"
type="text/javascript"></script>
    <script src="../js/bootstrap.min.js"
type="text/javascript"></script>
    <script src="../js/bootstrap.js"
type="text/javascript"></script>
    <script src="../js/mdb.min.js"></script>
    <script src="../js/mdb.js"
type="text/javascript"></script>
</body>
</html>
```

patient_view.php :

```
     <div class="table-responsive">
    <table class="table table-bordered">

     <?php
     require("conn_config.php");
          $per_id= $_REQUEST['per_id'];
      $sql ="SELECT per_age,
        per_bday,
        per_bmi,
        brgy_name,
        hcase_name,
        hcase_desc,
        per_height,
        per_houseNo,
        per_name, lname, mname, suffix,
        per_reportdate,
        per_roleid,
        per_sex,
        per_street,
        per_weight FROM persons_tbl, hcases_tbl, brgy_tbl
where per_id=:per_id AND
persons_tbl.per_hcaseid=hcases_tbl.hcase_id AND
persons_tbl.per_brgyid=brgy_tbl.brgy_id";

     $query=$dbConn->prepare($sql);
     $query->bindparam(':per_id', $per_id);
    $query->execute();
     $data=$query->fetch(PDO::FETCH_ASSOC);

             echo '<tr> <td><label
class="headerlabel">Patient\'s Name :</label>
'.$data["lname"].', '.$data["per_name"].' '.
$data["mname"].' '.$data["suffix"].'</td>
             <td><label class="headerlabel">Sex :</label>
' .$data['per_sex'].'</td></tr>';
             echo '<tr><td><label class="headerlabel">Case
Name :</label> <i>'.$data['hcase_name'].'</i></td>
             <td><label class="headerlabel"> Date Reported :
</label> '.$data['per_reportdate'].'</td></tr>';
             echo '<tr><td><label
class="headerlabel">Barangay :</label>
'.$data['per_houseNo'] ." " .$data['per_street'] .",
" .$data['brgy_name'].'</td>
             <td><label
class="headerlabel">Height :</label>
' .$data['per_height'].'</td></tr>';
```

```
            echo '<tr><td><label
class="headerlabel">Birthday :</label>
' .$data['per_bday'].'</td><td><label
class="headerlabel">Weight :</label>
' .$data['per_weight'].' kg</td></tr>';
            echo '<tr><td><label
class="headerlabel">Age :</label>
' .$data['per_age'].'</td>
            <td><label class="headerlabel">BMI :</label>
' .$data['per_bmi'].'</td></tr>';
            echo '<tr><td colspan=2><label
class="headerlabel">Case
Description :</label>'.$data['hcase_desc'].'</td></tr></tab
le>';
     ?>
```

san_isidro_yearly.php :

```
<?php
require("conn_config.php");
$curryear='';
$total="";
$total2="";
$hcases="SELECT * FROM hcases_tbl ORDER BY hcase_name ASC";

if(isset($_POST['year']))
{
  $curryear= $_POST["year"];

echo'
 <table id="yeartable" class="header table table-bordered"
style="text-align: center;">
    <tr>
    <thead class="grey lighten-1">
    <th style="width:150px;">Health Case</th>
    <th colspan="2">Jan</th>
    <th colspan="2">Feb</th>
    <th colspan="2">Mar</th>
    <th colspan="2">Apr</th>
    <th colspan="2">May</th>
    <th colspan="2">Jun</th>
    <th colspan="2">July</th>
    <th colspan="2">Aug</th>
    <th colspan="2">Sep</th>
    <th colspan="2">Oct</th>
    <th colspan="2">Nov</th>
```

```
    <th colspan="2">Dec</th>
    <th colspan="2">Total</th>
    <th style="width:1%;"></th>
    </thead>
    </tr>
   <tr>
  <td style="width: 150px; background-
color:lightgray;"></td>';

for($x=0; $x<=12; $x++)
{
echo '<td style="width:3.44%; background-
color:lightblue;">M</td><td style="width:3.44%; background-
color:lightpink;">F</td>';
}

foreach($dbConn->query($hcases) as $row) {
$hcid=$row['hcase_id'];
$hname=$row['hcase_name'];

// query 1
$jan="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
AND per_sex='Male' AND MONTHNAME(per_reportdate)='January'
AND YEAR(per_reportdate)='".$curryear."'";

$jan2="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
AND per_sex='Female' AND
MONTHNAME(per_reportdate)='January' AND
YEAR(per_reportdate)='".$curryear."'";

    foreach($dbConn->query($jan) as $count) {
        $january=$count['casecount'];
}
    foreach($dbConn->query($jan2) as $count) {
        $january2=$count['casecount'];
}

// query 2
$feb="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
AND per_sex='Male' AND MONTHNAME(per_reportdate)='February'
AND YEAR(per_reportdate)='".$curryear."'";
$feb2="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
AND per_sex='Female' AND
```

```
MONTHNAME(per_reportdate)='February' AND
YEAR(per_reportdate)='".$curryear."'";

    foreach($dbConn->query($feb) as $count) {
        $february=$count['casecount'];
    }

    foreach($dbConn->query($feb2) as $count) {
        $february2=$count['casecount'];
    }

// query 3
$mar="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
AND per_sex='Male' AND MONTHNAME(per_reportdate)='March'
AND YEAR(per_reportdate)='".$curryear."'";

    foreach($dbConn->query($mar) as $count) {
        $march=$count['casecount'];
}

$mar2="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
AND per_sex='Female' AND MONTHNAME(per_reportdate)='March'
AND YEAR(per_reportdate)='".$curryear."'";

    foreach($dbConn->query($mar2) as $count) {
        $march2=$count['casecount'];
}

// query 4
$apr="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
AND per_sex='Male' AND MONTHNAME(per_reportdate)='April'
AND YEAR(per_reportdate)='".$curryear."'";

    foreach($dbConn->query($apr) as $count) {
        $april=$count['casecount'];
}
$apr2="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
AND per_sex='Female' AND MONTHNAME(per_reportdate)='April'
AND YEAR(per_reportdate)='".$curryear."'";

    foreach($dbConn->query($apr2) as $count) {
        $april2=$count['casecount'];
}
```

```
// query 5
$may="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
AND per_sex='Male' AND MONTHNAME(per_reportdate)='May' AND
YEAR(per_reportdate)='".$curryear."'";

    foreach($dbConn->query($may) as $count) {
        $mayo=$count['casecount'];
}

$may2="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
AND per_sex='Female' AND MONTHNAME(per_reportdate)='May'
AND YEAR(per_reportdate)='".$curryear."'";

    foreach($dbConn->query($may2) as $count) {
        $mayo2=$count['casecount'];
}

// query 6
$jun="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
AND per_sex='Male' AND MONTHNAME(per_reportdate)='June' AND
YEAR(per_reportdate)='".$curryear."'";

    foreach($dbConn->query($jun) as $count) {
        $june=$count['casecount'];
}

$jun2="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
AND per_sex='Female' AND MONTHNAME(per_reportdate)='June'
AND YEAR(per_reportdate)='".$curryear."'";

    foreach($dbConn->query($jun2) as $count) {
        $june2=$count['casecount'];
}

// query 7
$jul="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
AND per_sex='Male' AND MONTHNAME(per_reportdate)='July' AND
YEAR(per_reportdate)='".$curryear."'";

    foreach($dbConn->query($jul) as $count) {
        $july=$count['casecount'];
}
```

```
$jul2="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
AND per_sex='Female' AND MONTHNAME(per_reportdate)='July'
AND YEAR(per_reportdate)='".$curryear."'";

    foreach($dbConn->query($jul2) as $count) {
        $july2=$count['casecount'];
}

// query 8
$aug="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
AND per_sex='Male' AND MONTHNAME(per_reportdate)='August'
AND YEAR(per_reportdate)='".$curryear."'";

    foreach($dbConn->query($aug) as $count) {
        $august=$count['casecount'];
}
$aug2="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
AND per_sex='Female' AND MONTHNAME(per_reportdate)='August'
AND YEAR(per_reportdate)='".$curryear."'";

    foreach($dbConn->query($aug2) as $count) {
        $august2=$count['casecount'];
}

// query 9
$sep="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
AND per_sex='Male' AND
MONTHNAME(per_reportdate)='September' AND
YEAR(per_reportdate)='".$curryear."'";

    foreach($dbConn->query($sep) as $count) {
        $september=$count['casecount'];
}
$sep2="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
AND per_sex='Female' AND
MONTHNAME(per_reportdate)='September' AND
YEAR(per_reportdate)='".$curryear."'";

    foreach($dbConn->query($sep2) as $count) {
        $september2=$count['casecount'];
}
// query 10
```

```
$oct="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
AND per_sex='Male' AND MONTHNAME(per_reportdate)='October'
AND YEAR(per_reportdate)='".$curryear."'";

    foreach($dbConn->query($oct) as $count) {
        $october=$count['casecount'];
}
$oct2="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
AND per_sex='Female' AND
MONTHNAME(per_reportdate)='October' AND
YEAR(per_reportdate)='".$curryear."'";

    foreach($dbConn->query($oct2) as $count) {
        $october2=$count['casecount'];
}

// query 11
$nov="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
AND per_sex='Male' AND MONTHNAME(per_reportdate)='November'
AND YEAR(per_reportdate)='".$curryear."'";

    foreach($dbConn->query($nov) as $count) {
        $november=$count['casecount'];
}
$nov2="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
AND per_sex='Female' AND
MONTHNAME(per_reportdate)='November' AND
YEAR(per_reportdate)='".$curryear."'";

    foreach($dbConn->query($nov2) as $count) {
        $november2=$count['casecount'];
}
// query 12
$dec="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
AND per_sex='Male' AND MONTHNAME(per_reportdate)='December'
AND YEAR(per_reportdate)='".$curryear."'";

    foreach($dbConn->query($dec) as $count) {
        $december=$count['casecount'];
}
$dec2="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
```

```
AND per_sex='Female' AND
MONTHNAME(per_reportdate)='December' AND
YEAR(per_reportdate)='".$curryear."'";

    foreach($dbConn->query($dec2) as $count) {
        $december2=$count['casecount'];
}

$totalMale=$january+$february+$march+$april+$mayo+$june+$ju
ly+$august+$september+$october+$november+$december;

$totalFemale=$january2+$february2+$march2+$april2+$mayo2+$j
une2+$july2+$august2+$september2+$october2+$november2+$dece
mber2;

        echo '<tr><td style="width:150px; background-
color:pink; text-align:left;">';
        echo $hname . '</td>
        <td style="width:3.44%;">'.$january.'</td>
        <td style="width:3.44%;">'.$january2.'</td>
        <td style="width:3.44%;">'.$february.'</td>
        <td style="width:3.44%;">'.$february2.'</td>
        <td style="width:3.44%;">'.$march.'</td>
        <td style="width:3.44%;">'.$march2.'</td>
        <td style="width:3.44%;">'.$april.'</td>
        <td style="width:3.44%;">'.$april2.'</td>
        <td style="width:3.44%;">'.$mayo.'</td>
        <td style="width:3.44%;">'.$mayo2.'</td>
        <td style="width:3.44%;">'.$june.'</td>
        <td style="width:3.44%;">'.$june2.'</td>
        <td style="width:3.44%;">'.$july.'</td>
        <td style="width:3.44%;">'.$july.'</td>
        <td style="width:3.44%;">'.$august.'</td>
        <td style="width:3.44%;">'.$august.'</td>
        <td style="width:3.44%;">'.$september.'</td>
        <td style="width:3.44%;">'.$september2.'</td>
        <td style="width:3.44%;">'.$october.'</td>
        <td style="width:3.44%;">'.$october2.'</td>
        <td style="width:3.44%;">'.$november.'</td>
        <td style="width:3.44%;">'.$november2.'</td>
        <td style="width:3.44%;">'.$december.'</td>
        <td style="width:3.44%;">'.$december2.'</td>
        <td style="width:3.44%; font-weight:bold;
color:blue; ">'.$totalMale.'</td>
        <td style="width:3.44%; font-weight:bold; color:
red;">'.$totalFemale.'</td></tr>';
}
```

```
}

else{
     $curryear= date("Y");

     echo'
 <table id="yeartable" class="header table table-bordered"
style="text-align: center;">
    <tr>
    <thead class="grey lighten-1">
    <th style="width:150px;">Health Case</th>
    <th colspan="2">Jan</th>
    <th colspan="2">Feb</th>
    <th colspan="2">Mar</th>
    <th colspan="2">Apr</th>
    <th colspan="2">May</th>
    <th colspan="2">Jun</th>
    <th colspan="2">July</th>
    <th colspan="2">Aug</th>
    <th colspan="2">Sep</th>
    <th colspan="2">Oct</th>
    <th colspan="2">Nov</th>
    <th colspan="2">Dec</th>
    <th colspan="2">Total</th>
    <th style="width:1%;"></th>
    </thead>
    </tr>
   <tr>
  <td style="width: 150px; background-
color:lightgray;"></td>';

for($x=0; $x<=12; $x++)
{
echo '<td style="width:3.44%; background-
color:lightblue;">M</td><td style="width:3.44%; background-
color:lightpink;">F</td>';
}
echo '</tr>';


    foreach($dbConn->query($hcases) as $row) {
    $hcid=$row['hcase_id'];
    $hname=$row['hcase_name'];

// query 1
$jan="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
```

```
AND per_sex='Male' AND MONTHNAME(per_reportdate)='January'
AND YEAR(per_reportdate)='".$curryear."'";

$jan2="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
AND per_sex='Female' AND
MONTHNAME(per_reportdate)='January' AND
YEAR(per_reportdate)='".$curryear."'";

    foreach($dbConn->query($jan) as $count) {
        $january=$count['casecount'];
}
    foreach($dbConn->query($jan2) as $count) {
        $january2=$count['casecount'];
}

// query 2
$feb="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
AND per_sex='Male' AND MONTHNAME(per_reportdate)='February'
AND YEAR(per_reportdate)='".$curryear."'";
$feb2="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
AND per_sex='Female' AND
MONTHNAME(per_reportdate)='February' AND
YEAR(per_reportdate)='".$curryear."'";

    foreach($dbConn->query($feb) as $count) {
        $february=$count['casecount'];
    }

    foreach($dbConn->query($feb2) as $count) {
        $february2=$count['casecount'];
    }

// query 3
$mar="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
AND per_sex='Male' AND MONTHNAME(per_reportdate)='March'
AND YEAR(per_reportdate)='".$curryear."'";

    foreach($dbConn->query($mar) as $count) {
        $march=$count['casecount'];
}
$mar2="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
```

```
AND per_sex='Female' AND MONTHNAME(per_reportdate)='March'
AND YEAR(per_reportdate)='".$curryear."'";

    foreach($dbConn->query($mar2) as $count) {
        $march2=$count['casecount'];
}

// query 4
$apr="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
AND per_sex='Male' AND MONTHNAME(per_reportdate)='April'
AND YEAR(per_reportdate)='".$curryear."'";

    foreach($dbConn->query($apr) as $count) {
        $april=$count['casecount'];
}
$apr2="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
AND per_sex='Female' AND MONTHNAME(per_reportdate)='April'
AND YEAR(per_reportdate)='".$curryear."'";

    foreach($dbConn->query($apr2) as $count) {
        $april2=$count['casecount'];
}


// query 5
$may="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
AND per_sex='Male' AND MONTHNAME(per_reportdate)='May' AND
YEAR(per_reportdate)='".$curryear."'";

    foreach($dbConn->query($may) as $count) {
        $mayo=$count['casecount'];
}

$may2="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
AND per_sex='Female' AND MONTHNAME(per_reportdate)='May'
AND YEAR(per_reportdate)='".$curryear."'";

    foreach($dbConn->query($may2) as $count) {
        $mayo2=$count['casecount'];
}

// query 6
```

```
$jun="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
AND per_sex='Male' AND MONTHNAME(per_reportdate)='June' AND
YEAR(per_reportdate)='".$curryear."'";

    foreach($dbConn->query($jun) as $count) {
        $june=$count['casecount'];
}
$jun2="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
AND per_sex='Female' AND MONTHNAME(per_reportdate)='June'
AND YEAR(per_reportdate)='".$curryear."'";

    foreach($dbConn->query($jun2) as $count) {
        $june2=$count['casecount'];
}

// query 7
$jul="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
AND per_sex='Male' AND MONTHNAME(per_reportdate)='July' AND
YEAR(per_reportdate)='".$curryear."'";

    foreach($dbConn->query($jul) as $count) {
        $july=$count['casecount'];
}
$jul2="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
AND per_sex='Female' AND MONTHNAME(per_reportdate)='July'
AND YEAR(per_reportdate)='".$curryear."'";

    foreach($dbConn->query($jul2) as $count) {
        $july2=$count['casecount'];
}

// query 8
$aug="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
AND per_sex='Male' AND MONTHNAME(per_reportdate)='August'
AND YEAR(per_reportdate)='".$curryear."'";

    foreach($dbConn->query($aug) as $count) {
        $august=$count['casecount'];
}
$aug2="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
```

```
AND per_sex='Female' AND MONTHNAME(per_reportdate)='August'
AND YEAR(per_reportdate)='".$curryear."'";

    foreach($dbConn->query($aug2) as $count) {
        $august2=$count['casecount'];
}

// query 9
$sep="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
AND per_sex='Male' AND
MONTHNAME(per_reportdate)='September' AND
YEAR(per_reportdate)='".$curryear."'";

    foreach($dbConn->query($sep) as $count) {
        $september=$count['casecount'];
}

$sep2="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
AND per_sex='Female' AND
MONTHNAME(per_reportdate)='September' AND
YEAR(per_reportdate)='".$curryear."'";

    foreach($dbConn->query($sep2) as $count) {
        $september2=$count['casecount'];
}

// query 10
$oct="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
AND per_sex='Male' AND MONTHNAME(per_reportdate)='October'
AND YEAR(per_reportdate)='".$curryear."'";

    foreach($dbConn->query($oct) as $count) {
        $october=$count['casecount'];
}

$oct2="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
AND per_sex='Female' AND
MONTHNAME(per_reportdate)='October' AND
YEAR(per_reportdate)='".$curryear."'";

    foreach($dbConn->query($oct2) as $count) {
        $october2=$count['casecount'];
}
```

```
// query 11
$nov="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
AND per_sex='Male' AND MONTHNAME(per_reportdate)='November'
AND YEAR(per_reportdate)='".$curryear."'";

    foreach($dbConn->query($nov) as $count) {
        $november=$count['casecount'];
}

$nov2="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
AND per_sex='Female' AND
MONTHNAME(per_reportdate)='November' AND
YEAR(per_reportdate)='".$curryear."'";

    foreach($dbConn->query($nov2) as $count) {
        $november2=$count['casecount'];
}

// query 12
$dec="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
AND per_sex='Male' AND MONTHNAME(per_reportdate)='December'
AND YEAR(per_reportdate)='".$curryear."'";

    foreach($dbConn->query($dec) as $count) {
        $december=$count['casecount'];
}

$dec2="SELECT per_id, per_hcaseid, COUNT(per_hcaseid) as
'casecount' FROM persons_tbl where per_hcaseid='".$hcid."'
AND per_sex='Female' AND
MONTHNAME(per_reportdate)='December' AND
YEAR(per_reportdate)='".$curryear."'";

    foreach($dbConn->query($dec2) as $count) {
        $december2=$count['casecount'];
}

$totalMale=$january+$february+$march+$april+$mayo+$june+$ju
ly+$august+$september+$october+$november+$december;

$totalFemale=$january2+$february2+$march2+$april2+$mayo2+$j
une2+$july2+$august2+$september2+$october2+$november2+$dece
mber2;
```

```
        echo '<tr><td style="width:150px; background-
color:lightgray; text-align:left;">';
        echo $hname . '</td>
        <td style="width:3.44%;">'.$january.'</td>
        <td style="width:3.44%;">'.$january2.'</td>
        <td style="width:3.44%;">'.$february.'</td>
        <td style="width:3.44%;">'.$february2.'</td>
        <td style="width:3.44%;">'.$march.'</td>
        <td style="width:3.44%;">'.$march2.'</td>
        <td style="width:3.44%;">'.$april.'</td>
        <td style="width:3.44%;">'.$april2.'</td>
        <td style="width:3.44%;">'.$mayo.'</td>
        <td style="width:3.44%;">'.$mayo2.'</td>
        <td style="width:3.44%;">'.$june.'</td>
        <td style="width:3.44%;">'.$june2.'</td>
        <td style="width:3.44%;">'.$july.'</td>
        <td style="width:3.44%;">'.$july.'</td>
        <td style="width:3.44%;">'.$august.'</td>
        <td style="width:3.44%;">'.$august.'</td>
        <td style="width:3.44%;">'.$september.'</td>
        <td style="width:3.44%;">'.$september2.'</td>
        <td style="width:3.44%;">'.$october.'</td>
        <td style="width:3.44%;">'.$october2.'</td>
        <td style="width:3.44%;">'.$november.'</td>
        <td style="width:3.44%;">'.$november2.'</td>
        <td style="width:3.44%;">'.$december.'</td>
        <td style="width:3.44%;">'.$december2.'</td>
        <td style="width:3.44%; font-weight:bold;
color:blue; ">'.$totalMale.'</td>
        <td style="width:3.44%; font-weight:bold; color:
red;">'.$totalFemale.'</td></tr>';
}
}
?>
```

si_graph_3.php :

```
<?php
    $c1 = "SELECT COUNT(per_id) AS c1 FROM persons_tbl
where per_hcaseid=9 AND
YEAR(per_reportdate)='".$curryear."'"; //Animal Bite
    $c2="SELECT COUNT(per_id) AS c2 FROM persons_tbl where
per_hcaseid=10 AND YEAR(per_reportdate)='".$curryear."'";//
Hyperstesnon
```

```
    $c3="SELECT COUNT(per_id) AS c3 FROM persons_tbl where
per_hcaseid=5 AND YEAR(per_reportdate)='".$curryear."'"; //
Diabetis
    $c4="SELECT COUNT(per_id) AS c4 FROM persons_tbl where
per_hcaseid=6 AND YEAR(per_reportdate)='".$curryear."'"; //
Diarrhea
    $c5="SELECT COUNT(per_id) AS c5 FROM persons_tbl where
per_hcaseid=15 AND YEAR(per_reportdate)='".$curryear."';
// Pneumonina
    $c6="SELECT COUNT(per_id) AS c6 FROM persons_tbl where
per_hcaseid=16 AND YEAR(per_reportdate)='".$curryear."';
// Pyodermas
    $c7="SELECT COUNT(per_id) AS c7 FROM persons_tbl where
per_hcaseid=17 AND YEAR(per_reportdate)='".$curryear."';
//Rabies
    $c8="SELECT COUNT(per_id) AS c8 FROM persons_tbl where
per_hcaseid=19 AND YEAR(per_reportdate)='".$curryear."';
//TB
    $c9="SELECT COUNT(per_id) AS c9 FROM persons_tbl where
per_hcaseid=21 AND
YEAR(per_reportdate)='".$curryear."';//uti
    $c10="SELECT COUNT(per_id) AS c10 FROM persons_tbl
where per_hcaseid=22 AND
YEAR(per_reportdate)='".$curryear."'"; //Hepatitis

foreach($dbConn->query($c1) as $row) {
 $c1=$row['c1'] . " ";
}

foreach($dbConn->query($c2) as $row) {
 $c2=$row['c2'];
}

foreach($dbConn->query($c3) as $row) {
 $c3=$row['c3'];
}

foreach($dbConn->query($c4) as $row) {
 $c4=$row['c4'];
}

foreach($dbConn->query($c5) as $row) {
 $c5=$row['c5'];
}

foreach($dbConn->query($c6) as $row) {
 $c6=$row['c6'];
```

```
}
foreach($dbConn->query($c7) as $row) {
 $c7=$row['c7'];
}
foreach($dbConn->query($c8) as $row) {
 $c8=$row['c8'];
}
foreach($dbConn->query($c9) as $row) {
 $c9=$row['c9'];
}

foreach($dbConn->query($c10) as $row) {
 $c10=$row['c10'];
}
?>

<div class="pl-2 row">
<div class="ml-4 mr-2 mb-3 col-sm-12 col-md-6"
style="background-color:white; box-shadow: 5px 3px 5px 2px
rgba(0, 0, 0, 0.19);">

<canvas id="barChart"></canvas>
<script type="text/javascript">
    $(document).ready(function(){
    $.ajax({
        success: function(data) {
            console.log(data);
        var c1=<?php echo json_encode($c1); ?>;
        var c2=<?php echo json_encode($c2); ?>;
        var c3=<?php echo json_encode($c3); ?>;
        var c4=<?php echo json_encode($c4); ?>;
        var c5=<?php echo json_encode($c5); ?>;
        var c6=<?php echo json_encode($c6); ?>;
        var c7=<?php echo json_encode($c7); ?>;
        var c8=<?php echo json_encode($c8); ?>;
        var c9=<?php echo json_encode($c9); ?>;
        var c10=<?php echo json_encode($c10); ?>;

            var chartdata = {
                labels: ["Animal Bite", "Hypertension",
"Diabetis", "Diarrhea", "Pneumonina", "Pyodermas", "Rabies
(Human)", "Tuberculosis", "Urinary Tract Infection",
"Hepatitis"],
                datasets : [

                    {
```

```
                    data: [c1, c2, c3, c4, c5, c6, c7, c8,
c9, c10],
                    label: "1st dataset",
                    fillColor: "rgba(151,187,205,0.3)",
                    backgroundColor: "rgba(255,99,132, 0.5",
                    borderColor: 'rgba(255, 255, 255, 0.7)'
                     }
                ]
            };
            var ctxB = $("#barChart");
            var barGraph = new Chart(ctxB, {
                type: 'horizontalBar',
                data: chartdata,
         options: {
              scales: {
                 xAxes: [{
                    scaleLabel: {
                        display: true,
                        labelString: "Health Cases Count",
                        fontColor: "grey"
                      },
                       ticks: {
                        beginAtZero:true,
                        max:20
                    }
                 }]
                },

            legend: {
            display: false,
            labels: {
                fontColor: 'rgb(255, 99, 132)'
                     }
                    },
            title: {
            display: true,
            text: 'BAR GRAPH'
                 }
             }
          });
    },
        error: function(data) {
            console.log(data);
        }
    });
});
</script>
```

```
<div class="mt-3 p-2 card">
<table id="interprettbl">
<tr><th>Health Case</th><th>Count</th></tr>
<?php
echo'
    <tr>
    <td>Animal Bite</td><td>'.$c1.'</td>
</tr>
<tr>
    <td>Hypertension</td><td>'.$c2.'</td>
</tr>
<tr>
    <td>Diabetis</td><td>'.$c3.'</td>
</tr>
<tr>
    <td>Diarrhea</td><td>'.$c4.'</td>
</tr>
<tr>
    <td>Pneumonia</td><td>'.$c5.'</td>
</tr>
<tr>
    <td>Pyodermas</td><td>'.$c6.'</td>
</tr>
<tr>
    <td>Rabies</td><td>'.$c7.'</td>
</tr>
<tr>
    <td>Tuberculosis</td><td>'.$c8.'</td>
</tr>
<tr>
    <td>Urinary Tract Infection</td><td>'.$c9.'</td>
</tr>
<tr>
    <td>Hepatitis</td><td>'.$c10.'</td>
</tr>';
?>

</table>
</div>
</div>

<div class="p-0 ml-2 mr-2 mb-3 mt-0 col-sm-12 col-md-5"
style="background-color:white; box-shadow: 5px 3px 5px 2px
rgba(0, 0, 0, 0.19);">

<canvas id="pieChart"></canvas>
```

```
<script type="text/javascript">
        var c1=<?php echo json_encode($c1); ?>;
        var c2=<?php echo json_encode($c2); ?>;
        var c3=<?php echo json_encode($c3); ?>;
        var c4=<?php echo json_encode($c4); ?>;
        var c5=<?php echo json_encode($c5); ?>;
        var c6=<?php echo json_encode($c6); ?>;
        var c7=<?php echo json_encode($c7); ?>;
        var c8=<?php echo json_encode($c8); ?>;
        var c9=<?php echo json_encode($c9); ?>;
        var c10=<?php echo json_encode($c10); ?>;
        var c1=(c1/10)*100;
        var c2=(c2/10)*100;
        var c3=(c3/10)*100;
        var c4=(c4/10)*100;
        var c5=(c5/10)*100;
        var c6=(c6/10)*100;
        var c7=(c7/10)*100;
        var c8=(c8/10)*100;
        var c9=(c9/10)*100;
        var c10=(c10/10)*100;
var ctxP =
document.getElementById("pieChart").getContext('2d');
var myChart = new Chart(ctxP, {
    type: 'pie',
    data: {
        title:{
            text: ["Health Case Count"]
        },
    labels: ["Animal Bite", "Hypertension", "Diabetis",
"Diarrhea", "Pneumonina", "Pyodermas", "Rabies (Human)",
"Tuberculosis", "Urinary Tract Infection", "Hepatitis"],
        datasets: [{
            label: 'aaa',
             data: [c1, c2, c3, c4, c5, c6, c7, c8, c9,
c10],
            backgroundColor: [
                'rgba(255, 99, 132, 0.7)',
                'rgba(54, 162, 235, 0.7)',
                'rgba(255, 206, 86, 0.7)',
                'rgba(75, 192, 192, 0.7)',
                'rgba(153, 102, 255, 0.7)',
                'pink',
                'purple',
                'lightgray',
                'lime',
                'orange'
```

```
            ],
            borderColor: [
            ],
            borderWidth: 1
        }]
    },
    options: {
        scales: {
        },
        legend: {
            display: true,
            position :'left',

            labels: {
                boxWidth : 10,
                fontColor: 'grey'
                 }
        },
         title: {
            display: true,
            text: 'PIE GRAPH OF '
        }
    }
});
</script>

<div class="mt-5 p-2 card">
<table id="interprettbl">
<tr><th>Health Case</th><th>Count</th></tr>
<?php
echo'
    <tr>
    <td>Animal Bite</td><td>'.$c1.'</td>
</tr>
<tr>
    <td>Hypertension</td><td>'.$c2.'</td>
</tr>
<tr>
    <td>Diabetis</td><td>'.$c3.'</td>
</tr>
<tr>
    <td>Diarrhea</td><td>'.$c4.'</td>
</tr>
<tr>
    <td>Pneumonia</td><td>'.$c5.'</td>
</tr>
<tr>
```

```
    <td>Pyodermas</td><td>'.$c6.'</td>
</tr>
<tr>
    <td>Rabies</td><td>'.$c7.'</td>
</tr>
<tr>
    <td>Tuberculosis</td><td>'.$c8.'</td>
</tr>
<tr>
    <td>Urinary Tract Infection</td><td>'.$c9.'</td>
</tr>
<tr>
    <td>Hepatitis</td><td>'.$c10.'</td>
</tr>';
?>

</table>
</div>

</div>

<div class="p-0 m-3 ml-4 col-sm-12 col-md-6"
style="background-color:white; box-shadow: 5px 3px 5px 2px
rgba(0, 0, 0, 0.19);">

<canvas id="lChart"></canvas>

<script type="text/javascript">
        var c1=<?php echo json_encode($c1); ?>;
        var c2=<?php echo json_encode($c2); ?>;
        var c3=<?php echo json_encode($c3); ?>;
        var c4=<?php echo json_encode($c4); ?>;
        var c5=<?php echo json_encode($c5); ?>;
        var c6=<?php echo json_encode($c6); ?>;
        var c7=<?php echo json_encode($c7); ?>;
        var c8=<?php echo json_encode($c8); ?>;
        var c9=<?php echo json_encode($c9); ?>;
        var c10=<?php echo json_encode($c10); ?>;

var ctxL =
document.getElementById("lChart").getContext('2d');
var myChart = new Chart(ctxL, {
    type: 'line',
    data: {
        title:{
            text: ["Health Case Count"]
        },
```

```
            labels: ["Animal Bite", "Hypertension",
"Diabetis", "Diarrhea", "Pneumonina", "Pyodermas", "Rabies
(Human)", "Tuberculosis", "Urinary Tract Infection",
"Hepatitis"],
             datasets: [{
            label: 'aaa',
            data: [c1, c2, c3, c4, c5, c6, c7, c8, c9, c10],
            backgroundColor: [
                'rgba(255, 206, 86, 0.5)'

            ],
            borderColor: [
            ],
            borderWidth: 1
        }]
    },
    options: {
        scales: {
            yAxes: [{

                 scaleLabel: {
                        display: true,
                        labelString: "Health Cases Count",
                        fontColor: "grey"
                      },
                ticks: {
                        max:10
                }
            }]
        },

        legend: {
            display: false,
            position :'left',

            labels: {
                boxWidth : 10,
                fontColor: 'grey'
                // 'rgb(255, 99, 132)'
                 }
        },

         title: {
            display: true,
            text: 'LINE GRAPH'
        }
    }
```

```
});
</script>
<div class="mt-3 p-2 card">
<table id="interprettbl">
<tr><th>Health Case</th><th>Count</th></tr>
<?php
echo'
    <tr>
    <td>Animal Bite</td><td>'.$c1.'</td>
</tr>
<tr>
    <td>Hypertension</td><td>'.$c2.'</td>
</tr>
<tr>
    <td>Diabetis</td><td>'.$c3.'</td>
</tr>
<tr>
    <td>Diarrhea</td><td>'.$c4.'</td>
</tr>
<tr>
    <td>Pneumonia</td><td>'.$c5.'</td>
</tr>
<tr>
    <td>Pyodermas</td><td>'.$c6.'</td>
</tr>
<tr>
    <td>Rabies</td><td>'.$c7.'</td>
</tr>
<tr>
    <td>Tuberculosis</td><td>'.$c8.'</td>
</tr>
<tr>
    <td>Urinary Tract Infection</td><td>'.$c9.'</td>
</tr>
<tr>
    <td>Hepatitis</td><td>'.$c10.'</td>
</tr>';
?>

</table>
</div>

</div>

<div class="p-0 ml-2 mr-2 mt-3 mb-4 col-sm-12 col-md-5"
style="background-color:white; box-shadow: 5px 3px 5px 2px
rgba(0, 0, 0, 0.19);">
```

```
<canvas id="barChart2"></canvas>


<script type="text/javascript">
         var c1=<?php echo json_encode($c1); ?>;
        var c2=<?php echo json_encode($c2); ?>;
        var c3=<?php echo json_encode($c3); ?>;
        var c4=<?php echo json_encode($c4); ?>;
        var c5=<?php echo json_encode($c5); ?>;
        var c6=<?php echo json_encode($c6); ?>;
        var c7=<?php echo json_encode($c7); ?>;
        var c8=<?php echo json_encode($c8); ?>;
        var c9=<?php echo json_encode($c9); ?>;
        var c10=<?php echo json_encode($c10); ?>;


var ctxZ =
document.getElementById("barChart2").getContext('2d');
var myChart = new Chart(ctxZ, {
    type: 'bar',
    data: {
        title:{
            text: ["Health Case Count"]
        },
     labels: ["Animal Bite", "Hypertension", "Diabetis",
"Diarrhea", "Pneumonina", "Pyodermas", "Rabies (Human)",
"Tuberculosis", "Urinary Tract Infection", "Hepatitis"],
        datasets: [{
            label: '',
            data: [c1, c2, c3, c4, c5, c6, c7, c8, c9, c10],
            backgroundColor: [
                'rgba(255, 99, 132, 0.2)',
                'rgba(54, 162, 235, 0.2)',
                'rgba(255, 206, 86, 0.2)',
                'rgba(75, 192, 192, 0.2)',
                'rgba(153, 102, 255, 0.2)'

            ],
            borderColor: [
                'rgba(255,99,132,1)',
                'rgba(54, 162, 235, 1)',
                'rgba(255, 206, 86, 1)',
                'rgba(75, 192, 192, 1)',
                'rgba(153, 102, 255, 1)'
            ],
            borderWidth: 1
```

```
        }]
    },
    options: {
        scales: {
            yAxes: [{

                 scaleLabel: {
                        display: true,
                        labelString: "Health Cases Count",
                        fontColor: "grey"
                      },
                ticks: {
                        max:10
                }
            }]
        },

        legend: {
            display: true,
            position :'left',

            labels: {
                boxWidth : 10,
                fontColor: 'grey'
                // 'rgb(255, 99, 132)'
                 }
        },

         title: {
            display: true,
            text: 'BAR GRAPH'
        }
    }
});
</script>

<div class="mt-5 p-2 card">
<table id="interprettbl">
<tr><th>Health Case</th><th>Count</th></tr>
<?php
echo'
    <tr>
    <td>Animal Bite</td><td>'.$c1.'</td>
</tr>
<tr>
    <td>Hypertension</td><td>'.$c2.'</td>
</tr>
```

```
<tr>
    <td>Diabetis</td><td>'.$c3.'</td>
</tr>
<tr>
    <td>Diarrhea</td><td>'.$c4.'</td>
</tr>
<tr>
    <td>Pneumonia</td><td>'.$c5.'</td>
</tr>
<tr>
    <td>Pyodermas</td><td>'.$c6.'</td>
</tr>
<tr>
    <td>Rabies</td><td>'.$c7.'</td>
</tr>
<tr>
    <td>Tuberculosis</td><td>'.$c8.'</td>
</tr>
<tr>
    <td>Urinary Tract Infection</td><td>'.$c9.'</td>
</tr>
<tr>
    <td>Hepatitis</td><td>'.$c10.'</td>
</tr>';
?>

</table>
</div>
</div>
</div>

<script src="assets/js/jquery-3.3.1.min.js"></script>
<script src="../js/myscript.js"></script>
<script src="../js/popper.min.js"> </script>
<script src="../js/bootstrap.min.js"
type="text/javascript"></script>
<script src="../js/bootstrap.js"></script>
<script src="../js/mdb.min.js"></script>
<script src="../js/mdb.js"></script>
```

CHAPTER VI

SUMMARY OF FINDINGS, CONCLUSIONS, AND RECOMMENDATIONS

The completed study came up with the following summary of findings, conclusions, and recommendations from the analyzed results and observations.

Summary of Findings

1. This study was developed to help the San Isidro Municipal Health Center in terms of recording and tallying the health case records of each barangay. Also, in monitoring the health condition of the residents.
2. Based on our observation, the Municipal Health Center uses a manual method in recording and tallying the health case records of every barangay. And it takes time to transfer the records to the Health Center because of many involved personnel. Thus, it takes a long time before authorities could take action when one of the barangay needs help or has an outbreak.
3. The main goal of this system is to develop and provide a computerized method for recording and tallying health case records of San Isidro Municipal Health Center. All the data collected from each

barangay will be organized in the system which can be used for reporting and data analytics.

4. In software development model, Agile Method was used to develop the system. It has six (6) phases that were followed and accomplished by the researchers in order to develop this system.

Conclusions

Based on the summary of findings, the researchers came up with the following conclusions:

1. When the evaluation was done through testing, the researchers concluded that the developed Health Case Profiling System for San Isidro Municipal Health Center has reached the requirements needed. It can provide an effective way of profiling and monitoring the health condition of the barangay through immediate consolidation of health cases.
2. Recording and tallying health case records of the authorized personnel of San Isidro can now easily be done. It will also be useful for monitoring health condition and outbreak occurrence in every barangay through the reports.

3. San Isidorians will be informed regarding the health condition of their barangay through the assigned barangay personnel.

Recommendations

Based on the result of the findings and conclusions gathered, the researchers would like to recommend the developed system to the following:

The San Isidro Municipal Health Center, who will use it in recording and tallying the health case records of every barangay. Profiling and monitoring the health condition of the barangay will be easier for them to perform.

The San Isidro Barangay Health Workers who will use the developed system to easily create, organize and submit health case records to the Municipal Health Center. And also, to monitor the health condition of their residents with ease.

The Researchers, in improving their skills and gain more knowledge in the field of information technology.

And lastly, to the Future Researchers who can use this as a basis for their study or aims to continue this capstone project.

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APPENDICES

Republic of the Philippines
NUEVA ECIJA UNIVERSITY OF SCIENCE AND TECHNOLOGY
San Isidro Campus
San Isidro, Nueva Ecija

August 24 , 2018

MRS. ELLEN JANE G. REYES
IT Instructor
San Isidro, Nueva Ecija

Madam,

Greetings!

We, the Bachelor of Science in Information Technology students, are in the preliminary stages of writing our Capstone Project entitled **"Development and Evaluation of Health Case Profiling System of San Isidro Municipal Health Center".**

It would be a great help for us if you will be part of our study as our **Thesis Adviser.** We believe that your expertise and technical knowledge will be a great help for us to fully accomplish the requirements of the course BSIT. Although it will not be financially rewarding, we assure you that the time and guidance that you will share would be utilized responsibly.

Your acceptance in this regard is highly appreciated.

Respectfully yours,

MS. GLAIZA I. GAMBOA **MS. MARIQUITA L. VILLORANTE**

MS. ANGEL MANALASTAS **MR. KEVIN JAMES P. JIMENA**

Conforme: Acknowledged by:

MRS. ELLEN JANE G. REYES **MR. EMMANUEL C. NAVARRO**
Thesis Adviser Capstone Project Instructor

Republic of the Philippines
NUEVA ECIJA UNIVERSITY OF SCIENCE AND TECHNOLOGY
San Isidro Campus
San Isidro, Nueva Ecija

November 9, 2018

MS. JEWEL L. VILLORANTE
Senior High School Instructor
Kinect Academy
Gapan City, Nueva Ecija

Madam,

Greetings!

We, the Bachelor of Science in Information Technology students, are in the preliminary stages of writing our Capstone Project entitled **"Development and Evaluation of Health Case Profiling System of San Isidro Municipal Health Center".**

It would be a great help for us if you will be part of our study as our **English Critic.** We believe that your expertise and technical knowledge will be a great help for us to fully accomplish the requirements of the course BSIT. Although it will not be financially rewarding, we assure you that the time and guidance that you will share would be utilized responsibly.

Your acceptance in this regard is highly appreciated.

Respectfully yours,

MS. GLAIZA I. GAMBOA

MS. MARIQUITA L. VILLORANTE

MS. ANGEL MANALASTAS

MR. KEVIN JAMES P. JIMENA

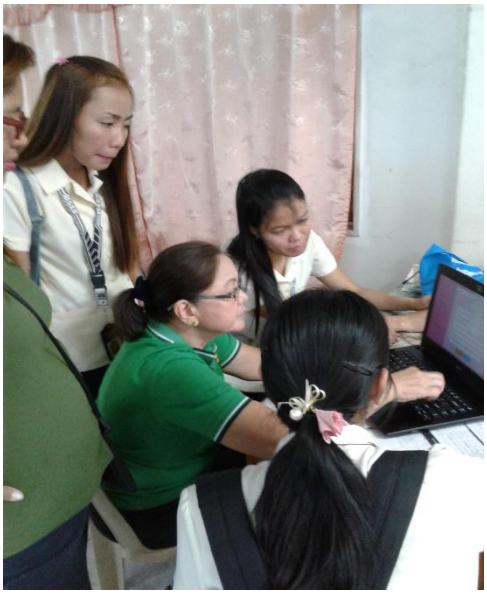
Conforme:

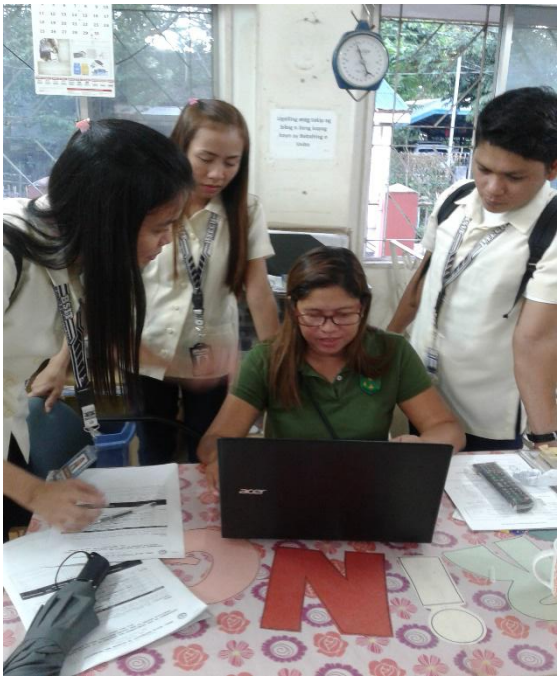
MS. JEWEL L. VILLORANTE
English Critic

Acknowledged by:

MR. EMMANUEL C. NAVARRO
Capstone Project Instructor

Figure 20. Clients/End Users Testing





The researchers gathered the San Isidro Municipal Health Center workers to test and check their system in terms of its functionality and usability.

Figure 21. IT Experts Testing

The researchers met their professors, Mrs. Ellen Jane G. Reyes and Mr. Marvin DG. Garcia to test and check the system in terms of its functionality, reliability, usability, efficiency and portability.

CURRICULUM VITAE

GLAIZA I. GAMBOA
Brgy. Pakul,
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PERSONAL INFORMATION

BIRTHDAY: December 15, 1997
AGE: 20 years old
RELIGION: Roman Catholic
NATIONALITY: Filipino
CIVIL STATUS: Single

FATHER'S NAME: Mario B. Gamboa
MOTHER'S NAME: Rosalie I. Gamboa
SIBLING/S: 2 (two)

EDUCATIONAL BACKGROUND

PRIMARY EDUCATION (S.Y. 2004 – 2010)
PAKUL ELEMENTARY SCHOOL
Brgy. Pakul, Jaen, Nueva Ecija

SECONDARY EDUCATION (S.Y. 2010 – 2014)
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Bachelor of Science in Information Technology, Major in Web Applications Programming
Poblacion, San Isidro, Nueva Ecija, 3106

SKILLS

- Computer Proficiency (Intermediate)
- MS Office 2007, 2010, 2013, 2016 (Word, Excel, PowerPoint)
- JAVA Programming (Basic), Web Development (HTML, CSS, JS (Basic))
- Ability to work independently or as a team

KEVIN JAMES P. JIMENA
P.Carmen St, Poblacion,
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0926 357 3566· jimenakevinjames@gmail.com

PERSONAL INFORMATION

BIRTHDAY: July 20, 1993
AGE: 25 years old
RELIGION: Roman Catholic
NATIONALITY: Filipino
CIVIL STATUS: Single

FATHER'S NAME: Rodrigo B. Jimena
MOTHER'S NAME: Yolanda R. Pabillo
SIBLING/S: 5 (five)

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SKILLS

- MS Office 2007, 2010, 2013, 2016 (Word, Excel, PowerPoint)
- Java Programming (Basic), Web Development (HTML, CSS, JS (Basic))

ANGEL MANALASTAS
San Francisco,
San Antonio, Nueva Ecija
0997 556 5849· ManalastasAngel376@gmail.com

PERSONAL INFORMATION

BIRTHDAY: January 4, 1998
AGE: 20 years old
RELIGION: Iglesia Ni Cristo
NATIONALITY: Filipino
CIVIL STATUS: Single

FATHER'S NAME: Benjamin Liwanag
MOTHER'S NAME: Aurea Manalastas
SIBLING/S: 3 (three)

EDUCATIONAL BACKGROUND

PRIMARY EDUCATION (S.Y. 2004 – 2009)
SAN FRANCISCO ELEMENTARY SCHOOL
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Bachelor of Science in Information Technology, Major in Web Applications Programming
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SKILLS

- I am literate in Microsoft Office (Word, Excel, Powerpoint), willing to learn new things. I can finish the project with given time and can work with different people.

MARIQUITA L. VILLORANTE
565 Hulo St., Sto. Cristo,
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PERSONAL INFORMATION

BIRTHDAY: May 17, 1998
AGE: 20 years old
RELIGION: Born Again Christian
NATIONALITY: Filipino
CIVIL STATUS: Single

FATHER'S NAME: Wilfredo Palon Villorante
MOTHER'S NAME: Jean Lumbao Villorante
SIBLING/S: 3 (three)

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PRIMARY EDUCATION (S.Y. 2005 – 2011)
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SKILLS

- MS Office 2007, 2010, 2013, 2016 (Word, Excel, Powerpoint)
- Programming - C++, Java (Intermediate)
- Web Development - HTML 5, CSS, PHP 7.2, JS (Intermediate)
- Basic Computer Troubleshooting (Hardware and Software)
- Network Configuration (Basic)
- Multimedia Systems - Adobe Photoshop CC, Adobe Premiere Pro)
- English Proficiency (Intermediate)
- Events Management (Beginner)