

Software Requirements Specification

for

Rural Healthcare Management System using SMS API

Version 1.0 approved

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1. Introduction

1.1 Purpose

This Project system aims to provide a quality yet satisfactory health management process that meets the requirement for its intended users. Through the use of the proposed system the process of scheduling check-ups and other medical concerns in a health care unit will be optimized. It will serve as a tool with accurate information to do the task way more efficiently and effectively than the traditional method.

1.2 Document Conventions

The Proposed System aims to produce a quality and efficient software with integration of analytics that can be used in real time operation and analysis. Following these goals and objectives, the developers strictly follow the rules in disclosing confidential information such as medical records, it is a one requirement that is very crucial in developing this system and also keeping it safe and secure for leaks and data threats.

1.3 Intended Audience and Reading Suggestions

While the Software Requirement Specification is written with more general audience members, this SRS is intended for System developers who are in development of the same system. This document may not necessarily need to be read sequentially, users and readers may jump to any section relevant to their interest.

1. Introduction

This section offers the summary of the proposed system including the goals, objectives, purposes, scope of the project and general system details together with its intended platform.

2. Overall Description

This section contains the system requirements alongside with its system features and functionality. The proposed system's environment, Characteristics and Assumptions is written in this section.

3. External Interface Requirements

In this section, all of the interfaces from the user requirements interfaces up to the Hardware and Software will be described in here and elaborate the use of those.

4. Other Nonfunctional Requirements

This section contains all of the information and requirements of the proposed system which includes the Safety Requirements, Software Requirements, Performance Requirements and its Software Quality Attributes that is a must have in every system building.

1.4 Project Scope

The project is Medical Record Management for Rural Healthcare Unit which includes insertion and extraction of data. The purpose of the project is to record data in a centralized database for easier encoding and querying of the information from different Barangay. The goal of this system is to provide a less-paper transaction and ease for Barangay Health Workers.

1.5 References

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2. Overall Description

2.1 Product Perspective

This system is proposed to modernize the traditional process of Rural Health Care Unit, which includes the collection of information and compiling it in papers. This project is the main process of a fully developed Rural Healthcare Management System. This project lets the Rural Healthcare Management System gather data and store it to repositories and extract it.

2.2 Product Features

- Insert Record different records
- Management of Records
- Extraction of Information

2.3 User Classes and Characteristics

There are 4 types of Users

1. Admin - it is Admin user type that has the highest privilege and has the ability to create account for RHU Staffs. They usually have high knowledge about the system.
2. Rural Healthcare Staff - Management Users, they have the privilege to modify records and extract overall reports for the barangay.
3. Barangay Healthcare Workers - they are the operational users. They insert different records.
4. Citizens, they are general users. They don't have a particular role in the system.

2.4 Operating Environment

The system will be operating on web and mobile phones. The use of this system is limited to Tuy, Batangas only. The mobile version will be deployed in the Playstore. This system will be used for the healthcare section of the community. The database that we will be using is MySQL since we have prior knowledge about it making it quite easier to use though there are cons on using MySQL, it needed additional plugin to be able to accommodate big data.

2.5 Design and Implementation Constraints

The developers will be using wireframe for the design though not all the components of the wireframe can be copied as it will require more time and plugin. There is also hardware limitation as the developers device is only average having only 4GB RAM

2.6 Assumptions and Dependencies

So far, there are no dependencies required for the development of the system since it is only 30%.

3. System Features

3.1 Insertion of Records

Insertion of Records is a High Priority feature. This feature is responsible for collection of records through different forms and will be saved to our repository.

Stimulus - The system will show errors when inserting invalid data and will clear the invalid input.

Functional Requirements- The input will be encoded to database

3.2 Management Records

Management Records this is High Priority. This feature is for editing and deletion of records in the system.

- Stimulus - The inputs will be checked if it is incomplete, invalid or anomaly.

Functional Requirement the system will ask a secret code to change the data in the system. Also track down user who modify the data

3.3 Extraction of data

Extraction of data, this is High Priority also. This features generates reports from the information in the system

Stimulus - The system will identify the user that would like to generate a report.

Functional Requirement - The system will generate based on query of the user and privilege.

4. External Interface Requirements

4.1 User Interfaces

The user interface will be based on the 30% target of the team for the project. Every interface will be made manually and customized, and it is minimalist and easy to interact with.. The interfaces that will be seen on the screen have their own purpose of action to make, along with the designated buttons to be used.

4.2 Hardware Interfaces

As for the logical and physical characteristics of interfaces, it uses components of the computer such as the monitor in order to display the forms which it is connected to the database for viewing the data.

4.3 Software Interfaces

As for the software interfaces the system uses Database: MySQL/ Xampp to hold all the data into the database and make it organized and easy to manipulate.

4.4 Communications Interfaces

5. Other Nonfunctional Requirements

5.1 Performance Requirements

The system will hold forms in order to view real-time data that is from the data being inserted into the database, details in the forms are being extracted. This form needs to be kept securely and confidentially, by this the developer has the idea to make the forms viewable only for those who have authorities.

5.2 Safety Requirements

The system will use the database in order to query, keep and store data, by this database, it will assure that data is kept and in an organized manner to prevent data loss and damage of data. Losing the data will result in the inauthentic forms that will produce a wrong detail to be produced whenever the forms are generated or viewed.

5.3 Security Requirements

The system is used in order to insert and extract data from the database and produce forms with detailed data. To keep the data confidential there are only authorized staff (admin) that can manage the data and records.

5.4 Software Quality Attributes