**HOSPITAL MANAGEMENT SYSTEM**

**Software Requirements Specification**

**Document**

**Date: 23/06/2021**

**Table of Contents**

1. INTRODUCTION

1.1 Purpose

1.2 Scope

1.3 Intended Audience

1.4 Intended Use

1.5 Overview

2. THE OVERALL DESCRIPTION

2.1 Product Perspective

2.1.1 User Interfaces

2.1.3 Hardware Interfaces

2.1.4 Software Interfaces

2.1.5 Communication Interfaces

2.2 Project Features

2.3 Product Functions

2.4 Constraints

2.5 Assumptions and Dependencies

3. SYSTEM FEATURES AND REQUIREMENTS

3.1 Functional Requirements

3.1.1 Basic Functions

3.1.2 Database

3.2 External interface requirements

3.2.1 Hardware Requirements

3.2.2 Software Requirements

# 1. Introduction

Our project, **HOSPITAL MANAGEMENT SYSTEM**, is based on the regular workings of a hospital. We are going to perform a few basic operations where one will be able to add records, update records, delete records, etc. This makes it easier to implement the regular day to day work of hospital management since it takes place through an online interface and hence reduces the need for maintaining records in thick log books.

## 1.1 Purpose

* The Software is for the automation of Hospital Management.
* It makes it easier to implement the regular day to day work of a hospital
* The Software includes making patient appointments and uploading them to the database.
* It can also update the patient records as well as delete it if required.
* It can also display the patient records along with patient ID for ease.

## 1.2 Scope

* The proposed software product is the Hospital Management System .The system will be used to get the information of a patient, book an appoitment and then store that data in the database.
* The current system in use is a paper-based system. It is too slow and cannot provide updated list of patients within a reasonable timeframe. Also, booking appoitnments and updating those in database can take up a lot of time.
* The intention of the system is to reduce over-time pay and increase the number of patients that can be treated accurately.

**1.3 Intended Audience**

This system can be used by ----

1. RECEPTIONIST : They can use it to book an appointment and update it in the database. They can also update or delete any record if required.
2. ADMIN : They can update or delete records from the database according to requirements.
3. DOCTOR : They can cancel or reschedule(update appointment time) any appointment if required.

**1.4 Intended Use**

* The Software includes making patient appointments and uploading them to the database.
* It can also update the patient records as well as delete it if required.
* It can also display the patient records along with patient ID for ease.

## 1.5 Overview

* This Software Requirements Specification (SRS) mentions the requirements for creating an online interface to implement Hospital Management System.
* The objective of this document, therefore, is to formally describe the system’s high level requirements including functional requirements, non-functional requirements and constraints.

# 

# 2. The Overall Description

The aim of our project is the automation of Hospital Management System. It makes it easier to implement the regular day to day work of a hospital .The software includes making patient appointments and uploading them to the database. It can also update the patient records as well as delete it if required. It can also display the patient records along with patient ID for ease. This helps to ease the work of the hospital workers and hence ensure faster and more smooth experience for the patients.

## 2.1 Product Perspective

* This Hospital Management System is a self-contained system that manages activities of the hospital.

* The product’s main aim is to ease the w orkload of hospital staff and maintain a more organized form of database in the hospital.

### 2.1.1 User Interfaces

* The software provides good graphical interface for the user. Any administrator can operate on the system, performing the required task such as create, update, delete and viewing the details of the patient.
* Allows user to view quick details of the patient in between a particular time.
* Search facility based on patients’ name.

### 2.1.2 Hardware Interfaces

### 

* Operating system : Windows, Mac OS, Chrome Book
* Hard disk :40 GB
* RAM : 256 MB
* Processor : Pentium(R)Dual-core CPU or above

### 2.1.3 Software Interfaces

* Language: Python
* Database: SQLlite
* IDE: Jupyter Notebook

### 2.1.4 Communication Interfaces

* WINDOWS 7 or higher
* MacOS
* ChromeBook

**2.2 Project Features**

### APPOINTMENTS : The staff takes the following information from the patients and book an appointment for him/her-

1. PATIENT’S NAME

2. AGE

3. GENDER

4. LOCATION

5. APPOINTMENT TIME

6. PHONE NO.

* SEARCH : The staff can enter patient’s name to search if his/her record exists and, if it exists, it will display the patient’s details.
* UPDATE : The staff can make any update if required to the patients’ records.
* DELETE : The staff can delete the patients’ records in case of cancellation or after the appointment is over.
* DISPLAY : The records can also be displayed according to the patient id given at the time of appointment.

## 2.3 Product Functions

* Hospital staff will take the patients details and book an appointment for the patient and will provide him with the id.
* Data can be searched by the hospital staffs using the patients’ name. It will provide the details of the patient to the user.
* Patients’ details can be updated like change time, location phone no. etc.
* Patients details can be deleted by the hospital staffs(if required)
* Display Patients’ name along with the id so that it becomes easy for the patient to know when their turn is.

## 2.4 Constraints

1. USER INTERFACE CONSTRAINTS

* This application is fairly simple. A user familiar with basic browsing skills should be able to understand it’s functionality.

1. HARDWARE CONSTRAINTS

* The application should work with all the laptops and computer with basic configuration in the hospital

1. SOFTWARE CONSTRAINTS

* The application is desgined such a way that it will have it’s own window.

1. DATA MANAGEMENT CONSTRAINTS

* Application shall be able to interface with other components according to its’ specification

1. DESIGN STANDARDS COMPLIANCE

* This application should be implemented in Python

## 2.5 Assumptions and Dependencies

* It is assumed that the application is only used by the hospital staff members who have the permission to access it.
* It is assumed that all the devices to be used are compatible for the application to be installed.

**3.System Features And Requirements**

**3.1 Functional Requirements**

**3.1.1 Basic Functions**

### APPOINTMENTS : The staff takes the following information from the patients and book an appointment for him/her-

1. PATIENT’S NAME

2. AGE

3. GENDER

4. LOCATION

5. APPOINTMENT TIME

6. PHONE NO.

* SEARCH : The staff can enter patient’s name to search if his/her record exists and, if it exists, it will display the patient’s details.
* UPDATE : The staff can make any update if required to the patients’ records.
* DELETE : The staff can delete the patients’ records in case of cancellation or after the appointment is over.
* DISPLAY : The records can also be displayed according to the patient id given at the time of appointment.

**3.1.2 Database**

* PATIENT INFORMATION : Patient’s name, age, phone no., gender, location along with their appointment time is stored.

**3.2 External Interface Requirements**

### 3.2.1 Hardware Interfaces

* Operating system : Windows, Mac OS, Chrome Book
* Hard disk :40 GB
* RAM : 256 MB
* Processor : Pentium(R)Dual-core CPU or above

### 3.2.2 Software Interfaces

* Language: Python
* Database: SQLlite
* IDE: Jupyter Notebook

**4. CONCLUSION**

THIS SRS DOCUMENT IS DESIGNED IN ORDER TO REDUCE THE BURDEN OF MAINTAINING BULK OF RECORDS OF ALL THE STUDENTS’ FEEDBACK DETAILS. INSERTING,RETRIEVING AND UPDATING INFORMATION IS EASIER AND HENCE SAVES TIME.