

Software Requirement Specification for Hospital Management

1 Introduction

1.1 Purpose

The purpose of this document is to:

- Provide detailed description of Hospital Management Application for Web Application.
- Explain features and interfaces of the system.
- Explain functions and use cases of the system.

1.2 Scope

- The System developed will enable web administrator to search doctors based on departments, patients based on file numbers.
- Searching doctors based on Specialty.
- The web admin can get a list of top doctors based on number of appointments.

1.3 Overview

The document will provide information on

- Definitions and Terms used
- General Description of the System
- Characteristics of Users
- Functional and Non-Functional Requirements
- Interfaces Required

1.4 Definitions

Hospital

A Institute where a person gets treatment/'checkup by the Doctors

Doctor

A person who treats the patient

Patient

The person who needs the treatment

Web admin

A webmaster (from **web** and master), also called a **web** architect, **web** developer, site author, **website administrator**, **website** coordinator, or **website** publisher is a person responsible for maintaining a website.

2 General Description

2.1 Product Description

- Hospital Management System is a computerized system for easy maintenance of Hospital operations.
- The system enables Doctor for easy access to patient records and history.

- Angular2 is an open source JavaScript framework to build web applications in HTML and JavaScript and has been conceived as a mobile first approach..

2.2 User Characteristics

Any user of the System has following characteristics:

- Has no special training or education
- Has access to a computerized

2.3 Design and Implementation Constraints

2.3.1 Services Used

- Firebase Database
- Firebase Storage

3 Specific Requirements

3.1 Functional Requirements

3.1.1 Web Administrator

3.1.1.1 Access patient record

- Input: Patient Identification
- Process: Query for information from database

3.1.1.2 Search doctors based on Specialty

- Input: Doctor Identification
- Process: Query for information from database

3.1.1.3 Top Doctors

Output: Name of the doctors based on the number of appointments

3.1.1.4 Most common diagnosis of a week

Output: returns diagnosis

3.2 Non-Functional Requirements

The Hospital management System should have:

- Security
- Network connection
- Efficiency

3.3 External Interfaces

3.3.1 Hardware Interfaces

- Laptop that can run web application.

3.3.2 IDE Interfaces

- Visual Studio

3.3.3 Software Interfaces

- The system should have friendly and reliable Graphical User Interface.
- The system should also have program interfaces for all the functions of the system.

3.3.4 Communication Interfaces

The Communication Network must have:

- Fast and reliable network medium
- Secure protocols

3.4 Other Requirements

The System must have a fast and reliable Server, powerful enough to handle multiple requests.

The System must have a Database for storing:

- Doctor Details
- Patient Details

4 Conclusion

Thus, all the requirements of the Hospital Management System from Doctor to Patient are described.

5 Logo Design

