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 iOS.
- Explain features and interfaces of the system.
- Explain functions and use cases of the system.

1.2 Scope
- The System developed will enable patients to book appointments with doctors.
- Searching doctors based on Specialty or Location.
- Doctor can write prescriptions directly through the app.
- Patients can view prescriptions.
- Doctors have a view called "Today's Schedule" through which they can view their appointments for that day and manage patients.
- Similarly Patients too have a view called "My Appointments" where they can view all the appointments which they have booked.

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

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.
- It operates on Apple's iPhone operating system, iOS, and requires a newer generation of iPhone which can run iOS 7.0 or newer

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*
- *Google Maps*
- *SDWebImage*

3 Specific Requirements

3.1 Functional Requirements

3.1.1 Doctor

3.1.1.1 Access patient record
- *Input*: Patient Identification
- *Process*: Query for information from database

3.1.1.2 Edit Patient Diagnosis
- *Input*: Patient Identification, Diagnosis details
- *Process*: Update values to the database

3.1.2 Patient

3.1.2.1 Search doctors based on Specialty or Location
- *Input*: Doctor Identification
- *Process*: Query for information from database

3.2 Non-Functional Requirements
The Hospital management System should have:
- Security

- Network connection
- Efficiency

3.3 External Interfaces

3.3.1 Hardware Interfaces
- iPhone which can run iOS 7 or later

3.3.2 IDE Interfaces
- Xcode Version 8.2.1 (8C1002)
- Swift 3

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.

3.3.3 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 are described.