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1. **Introduction:**
   1. **Purpose:**

The proposed project is a smart appointment booking system that provides patients or any user an easy way of booking a doctor’s appointment online. This is a android based application that overcomes the issue of managing and booking appointments according to user’s choice or demands.

* 1. **Intended Audience:**

This SRS would be read by app developers, project manager and testers to make this app further better and updated. Most important audience are users. By reading this SRS users or patients will completely understand the use of app and its features.

* 1. **Intended Use:**

App developers, project manager and testers will read user story from section 2 thoroughly to understand the needs of the users’ pain point and functional requirements from section 3 for this that are already used. Users will read the section 2 for the assumptions to know what are the facilities that are fulfilled in this app and to know about features for knowing how this works.

* 1. **Product Scope:**

By this app users can appoint doctors through online. They can search doctors and there should be added their medical records so that doctors and users can easily contact each other and without wasting many times. The main purpose of the app is to make easy the users to contact with their needed and good doctors easily and they don’t have to waste their time for the queues. People want comfort and easy way from technologies. This app will give them all with detailed information. The main strategy is to give people the easiest way for their healthcare which is very important.

* 1. **Risk Definition:**

Software risk exists because the future is uncertain and there are many known and unknown things that cannot be incorporated in the project plan. A software risk can be of two types (a) internal risks that are within the control of the project manager and (2) external risks that are beyond the control of project manager. Risk management is carried out to:

Identify the risk, reduce the impact of risk, reduce the probability or likelihood of risk, risk monitoring.

**2. Overall Description:**

This section will give an overview of the whole system. The system will be explained in its context to show how the system interacts with other systems. It will also describe what functionality is available for each type. At last, the constraints and assumptions for the system will be presented.

* 1. **User Classes and Characteristics:**

This project refers to several types of any computer system. However, this project is meant to be used by two major use classes. Both types of user has different use of the system so each of them has their own requirements.

* Admin should be able to insert, modify and delete doctor’s info.
* Add and edit doctor categories and arrange them by categories.
* Can record patient information and prescription.
* Responsible to resolve any bugs and issues.
* Maintain User data in the server.
* Update the application and provide new versions when required.

Patient are given a provision to check their information and change it. They can create their profile, add information, update the information. Patient have the ability to search through doctor by categories, information related to doctor. They can book for appointment and cancel appointment.

* 1. **User Needs:**

Primary user: Patients

Secondary user: Doctor, Hospital authority

Patients need to get a hold of their doctor or specialist in a more convenient way. This app solves the issue of managing and booking appointments according to patient’s choice or demands.

* 1. **Operating Environment:**

This is an Android application and it runs on all Android based smart phones of which version is 2.2 or higher. Internet connection of smart phone is also required. Being a collector or general user does not affect the hardware requirements of application.

* 1. **Constraints:**

The mobile application is constrained by the system interface to the GPS navigation system within the mobile phone. Since there are multiple system and multiple GPS manufacturers, the interface will most likely not be the same for every one of them. Also, there may be a difference between what navigation features each of them provide. The Internet connection is also a constraint for the application. Since the application fetches data from the database over the Internet, it is crucial that there is an Internet connection for the application to function. The mobile application will be constrained by the capacity of the database. Since the database is shared between both application it may be forced to queue incoming requests and therefor increase the time it takes to fetch data.

**2.5 Assumptions:**

A working Android based smart phone with version 2.2 or above and internet connection are necessary. One assumption is it will always be used on mobile phones that have enough performance. If the phone does not have enough hardware resources available for the application, for example the users might have allocated them with other applications, there may be scenarios where the application does not work as intended or even at all. Another assumption is that the GPS components in all phones work in the same way. If the phones have different interfaces to the GPS, the application need to be specifically adjusted to each interface and that would mean the integration with the GPS would have different requirements than what is stated in this specification.

**3. Requirements:**

We divide requirements into 2 types: functional and non functional.

**3.1 Functional Requirements:**

* User should be able to register and manage his appointments.
* Database should be capable to register all the information efficiently without any loss of data.
* User should be able to select the disease for which he/she needs to check up.
* User should able to search for doctors and also working time and gender of the doctor.
* User should be able to change his/her profile information.
* Doctors can manage all the appointments made with him on his account.

**3.2 Non-Functional Requirements:**

* Time required for registration should be less than 5 minutes.
* The system should be compatible with different popular web browsers.
* User should be able to understand the use of the system easily.
* Error message should be shown.
* The system should be able to explain how to recover the error.
* User’s should be safe and protected.
* Unwanted access in the system should be restricted.
* Responsive design should be implemented