

SOFTWARE REQUIREMENT SPECIFICATION

2.1: INTRODUCTION:

A Software Requirements Specification (SRS) is a document that describes what the software will do and how it will be expected to perform.

The following section provides an overview of the derived Software Requirement Specification (SRS) for the application. To begin with, the purpose of the document is presented, and its intended audience is outlined. Subsequently, the scope of the project specified by the document is given with a particular focus on what the resultant software will do and the relevant benefits associated with it. To conclude, a complete document overview is provided to facilitate increased reader comprehension and navigation.

The main advantages of SRS are: It establishes the basis of agreement between the Client and the Supplier on what the software product will do. It provides a reference for validation of the product.

2.2: OVERALL DISCRIPTION:

2.2.1: PRODUCT PERSPECTIVE

HOSPITO is a system that will help doctors in their work and will also help patients to book doctor appointments and view medical progress. The system provides placing a new appointment, deleting an existing appointment and showing daily schedule.

2.2.2: Product Functions:

- Application has a user-friendly interface and it is easy to use.
- Automation of manual work.
- Data loss and misuse of data is avoided.
- Provides data security.
- Patients can access their reports anywhere.
- Patients can take appointments and cancel appointments anywhere anytime.

2.2.3: User Characteristics:

The user should be familiar with the internet and a web browser. The user should also be able to operate the browser by the computer and mobile.

There are three kinds of users for the proposed system.

- Admin: Admin is the one who has the authority to make changes or take decisions on doctors and patients. Admin can login view, manage and update patients.
- Doctor: Doctor is one of the user who can view patients details and reports, attend appointment, add prescription.

- **Patient:** Patient is end user who can login, take appointments, cancel appointments, can view reports and prescription.

2.2.4: General Constraints:

The key restriction here will be to verify the validity of the purchaser, which is not always feasible. Security threats may be involved. The built framework can run on any platform.

2.2.5: Assumptions:

- One assumption about the project is that it will always be used on computer or mobile phones that have enough performance.
- If the computer or phone does not have enough hardware resources available and software of the website portal will have poor performance.

2.3: Special Requirements (Software/Hardware used for the Implementation):

- **Browser:** Internet Explorer, Google Chrome, Mozilla Firefox
- **Server:** Apache
- **Front end:** HTML,CSS,JAVASCRIPT
- **Back end:** PHP
- **Processors:** Intel Pentium Dual-core or above
- **RAM:** 2GB and above
- **Hard Disk utilization:** 40GB and above
- **Input Devices:** Mouse, Keyboard

2.4: Functional Requirements:

ADMIN:

- **Login:** Admin will enter the website using username and password.
- **View Client:** In this module the admin can approve or reject the registered users.
- **Manage Report:** The admin can view monthly reports of bookings made by the user.
- **Manage Doctors:** In this module the admin can check for doctor's updates and performance.
- **View Report:** The admin can view the report of the users.

- **Manage feedback:** In this module the admin can view feedback given by the user.
- **Manage Payments:** In this Module, Admin can view payment details.

DOCTOR:

- **Login:** In this module, the doctor can log in using username and password.
- **View Patients:** In this module, the doctor can view the patients appointments and patients' reports
- **View Appointments:** In this module, the doctor can view the appointment status.
- **Update Schedule:** In this module, the doctor will update the time according to his/her convenience whether he/she is available or not available will be visible in this schedule.
- **Add Prescription Details:** In this Module, the doctor can add the prescription details of patients.

PATIENTS:

- **Registration:** In this module, the patient can register by giving their personal details.
- **Login:** In this module, the patient can log in using username and password.
- **Manage profile:** In this module, the patient can update his profile details.
- **View details:** In this module, the patient can view the available medication, reports.
- **Manage Appointments:** In this module, the patient can take appointments or cancel appointments.
- **Payments:** In this Module, User can make payments.
- **Send Feedback:** In this module, the patient can send feedback for service provided.

2.5: Design constraints:

System has following design and Implementation constraints.

- System should allow the user to login to use it only after their registration.
- System should allow user to update the system with new features.
- System will display list of patients based on the category selected by the doctors.

2.6: System attributes:

- Performance: the database used here is robust, reliable and fast. So, users will have to wait for the output very short time.
- Reliability: there is no case of redundancy in the database so it will not take extra memory space.
- Availability: system can be made use of at any time.
- Maintainability: maintenance is easy and economical.

2.7: Other non-functional requirements:

2.7.1: Performance requirements

- Usability: software should be usable, without any effort and it should have appropriate user interface.
- Response Time: Software should response within the estimated time to display result to the user.

2.7.2: Safety Requirements:

- People other than registered user should not be able to access the system.
- Only the respective user can change their details.
- Authentication is done during the login.
- The system searches for the mobile number during Registration of user. If the user already exists with the same mobile number, then a message is shown.

2.7.3: Security Requirements:

- Only the authorized users will gain access to the android using phone number and password to login.
- Reports will be kept secure allowing access to only authorized users.
- Admin has more rights than the sub users.
- The proposed online web and android system is secured. Depending upon the category of user the access rights are decided.



