Software Requirements Specification
Version 1.0

HealthPlus

A Personal Health InfoPortal

Category: Website Design and Development

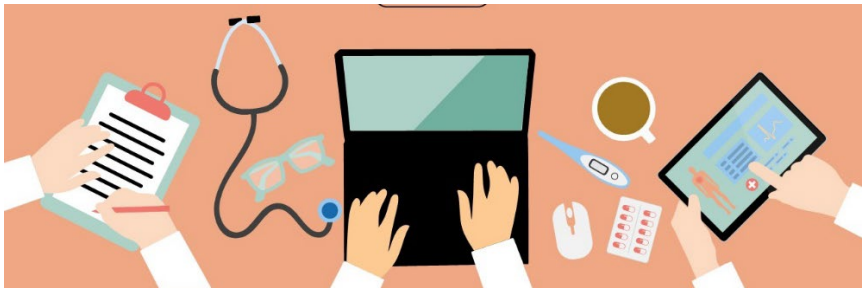
Contents

1.1 Background and Need for the Portal

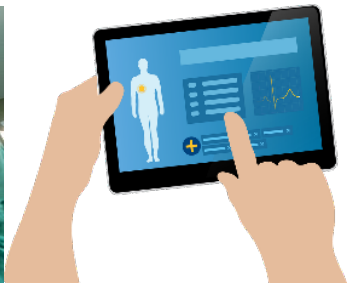
Health is one of the most important factors in today's era and should be our first priority. With the increase in sickness and large numbers of urban population, it becomes difficult to book appointments or visit a doctor.

There may be scenarios where a person wants to check his/her Blood Pressure (BP), Weight, and so on, and for this purpose, they require to keep visiting clinics. Sometimes, even after an appointment is booked, a person may forget about this or may reach at the hospital/doctors clinic and discover that the doctor is not available.

What individuals seek is an easy means to help them monitor and track their health. They should be able to view doctor appointments, medicine dosage schedules, and track their weight, BP, and glucose levels, and more.



1.2 Proposed Solution



You will design and build a Website named 'HealthPlus' which will allow users to view appointment details, information regarding their personal health vitals such as BP, Glucose, and so on, view medicine dosage details, and more.

1.3 Purpose of the Document

HealthPlus is proposed as an online portal for individuals.

This document:

- Presents purpose and features of the portal
- Explains interfaces of the portal
- Describes what the portal will do
- Lists the constraints under which it must operate

1.3.1 Who Can Use this Document?

Stakeholders and developers of the portal

Sample Site Map
(After Providing Username in Landing Page)

<table>
<tr><td colspan="7">Hello, Sarah!
 

Appointments
Form to add Appointment Details

Medicine Dosage
Form to add medicine dosage Details

Personal Health Vitals
Form to add personal health vitals such as BP, glucose, weight, and more with date</td></tr>
<tr><td>View Appointments

Bulleted list</td><td>View Medicine Dosage Schedules
Bulleted list</td><td>View Personal Health Vitals
Personal health vitals such as BP, glucose, weight, and more with date</td><td>Self-Health Tips

(Videos)</td><td>Health Measures

(Audios)</td><td>Feedback

Form to accept feedback</td><td>Contact Us

Contact info</td></tr>
</table>

Hard-coded values will be displayed since, there is no scope for database fetching in this Website.

1.4 Scope of Project

This Web portal will be a responsive and visually appealing Website to be used by individuals who wish to track their health statistics and appointments and medicine schedules.

1.5 Constraints

The Web portal will not have any facility to store information on the server. Information can be fetched from pre-populated JSON or TXT files and displayed, however, information cannot be written to the files from within the portal.

1.6 Functional Requirements

The portal will be designed as a Single-Page-Application and responsive Website with a set of pages and menus that represent choice of activities to be performed. The pages, menus, and other visual elements must be designed in a visually appealing manner with attractive fonts, colors, and animations. All of these should also be laid out in a responsive manner.

Following are the functional requirements of the portal:

Note: For several of these options, information will be retrieved from a pre-populated JSON file and displayed.
(Hint: Use AngularJS directives, filters, services, controllers, and other features to implement this).

Welcome Message: The home page should accept first name from the user and then, display a personalized welcome message on the next page. At the top corner, the user's first name should be displayed for the entire duration that the portal is loaded.

Appointments: Users can add appointment details via a form.

Medicine Dosage Schedules: Users can add medicine dosage details via a form. The dosage schedules can be entered for the day, week, or on a custom basis.

Personal Health Vitals: Users can add personal vitals such as BP, weight, glucose levels, and others via a form.

Note that any of these data entered will not be stored anywhere since, there is no scope for databases in this project.

- **View Appointment Details**
- **View Medicine Dosage Schedules**
- **View Personal Health Vitals**

These menu options will display the respective data. Since there is no database being used, hardcoded data can be displayed here.

Self-Health Tips: This menu option will allow users to view videos containing self-health tips.

Health Measures: This menu option will play audio files giving information about general health measures that one can take.

Note: The audio and video files should be of appropriate browser-supported formats and should be short in duration.

Feedback: This menu option will display the feedback regarding the portal.

Contact Us: This menu option should display Email id, address, and contact number of the team behind Health Plus.

Over and above this, the portal should implement following functionalities:

- Display a continuous scrolling ticker at the bottom of the page with current date, time, and location (hint: Use geolocation features of HTML5).
- Display a visitor count at the top right corner of the page beside a logo image.
- Menu options should change color on hover and also after clicking.
- Fade-in and fade-out options can be used for the menus.

Important: Do NOT use boilerplate templates or readymade templates for development as it will adversely affect your evaluation. Your own Website design and development skills will be tested, hence no third party templates should be used here.

1.7 Non-Functional Requirements

There are several non-functional requirements that should be fulfilled by the Website, henceforth called the 'system'.

The system should be:
Safe to use: The system should not result in any malicious downloads or unnecessary file downloads.

Accessible: The system should have clear and legible fonts, user-interface elements, and navigation elements.

User-friendly: The system should be easy to navigate with clear menus and other elements and easy to understand.

Operability: The system should operate in a reliably efficient manner.

Performance: The system should demonstrate high value of performance through speed and throughput. In simple terms, the system should be fast to load and page redirection should be smooth.

Capacity: The system should support large number of users.

Availability: The system should be available 24/7 with minimum down time.

Compatibility: The system should be compatible with latest browsers.

These are the bare minimum expectations from the project. Once the functional and non-functional requirements are fulfilled, you can use your own creativity and imagination to add more features.

1.8 Interface Requirements

1.8.1 Hardware

Intel Core i5 Processor or higher
8 GB RAM or above
Color SVGA
500 GB Hard Disk space
Mouse
Keyboard

1.8.2 Software

Technologies to be used:

1. **Frontend**: HTML5, CSS3, Bootstrap, JavaScript, jQuery, AngularJS, and XML
2. **Data Store**: JSON files or TXT files

1.9 Project Deliverables

You need to design and build the project and submit it along with a complete project report that includes:

- Problem Definition
- Design specifications
- Diagrams such as flowcharts for various activities, Data Flow Diagrams, and so on
- Source Code
- Test Data Used in the Project
- Project Installation Instructions (if any)

Documentation is considered as a very important part of the project. Ensure that documentation is complete and comprehensive. The consolidated project will be submitted as a zip file with a ReadMe.doc file listing assumptions (if any) made at your end and JSON/TXT files containing test data.

Over and above the given specifications, you can apply your creativity and logic to improve the portal.

~~~ End of Document ~~~