



People's Health

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System Requirements Specification Document v 1.0

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1. Introduction

1.1 Scope:

This document describes the scope of the requirements for the Hospital Appointment booking System. It covers all aspects of making appointments with doctors. The users can view the available booking slots and select the preferred date and time of appointment. This document should be used by the Architect and the developers to design the Solution Architecture for the project.

The key priorities of People's Health are:

- Patient Registration and Login.
- Booking hospital appointments.
- Providing hospital and branch specific feedback.
- Paying Hospital bills online.
- Admin can add doctors to particular branch and specialization.
- Admin manages all appointment details and also reply to the enquiries made during appointment.

1.2 Management Summary:

People's Health manages user and hospital data in order to facilitate the patient/users of the system to book hospital appointments as well as view their already booked appointments remotely. It enables users to access and pay for healthcare services without much difficulty. The software also includes a provision for users to make online payments and post their queries and feedback, if any.

1.3 Definitions:

- Spring Boot: For developing Microservices(Middleware)
- MySQL: For developing database for storing all data(Back end)
- Angular: For developing functional Web pages(Front end)
- Bootstrap: For designing user interface.

1.4 Overview:

This document will describe all the main requirements that will be required to develop the application. The document will specifically outline the type of database used, technology used for front end, back end and user interface. It also outlines the infrastructure and working of application.

2. System Objectives

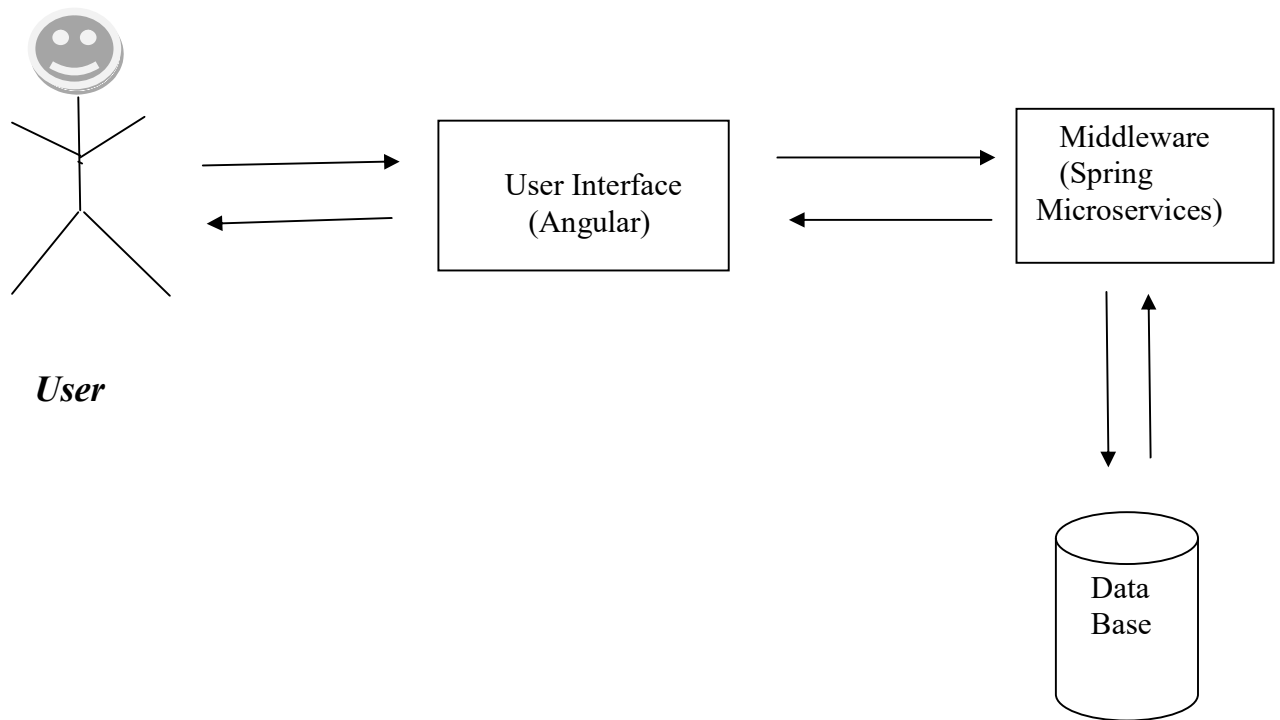


Figure 2.1 System Context Diagram

The diagram above explains the main conceptual elements in the solution and its relationships with the architecture. A user first interacts with user interface which will process the request to spring micro services which will further insert the data into the database. In response, data will be checked in database and the response will be returned to the user interface.

People's Health	Core application that is to be developed which manages user and hospital data in order to facilitate the patient/users of the system to book hospital appointments as
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	well as view the already booked appointments remotely and thus access healthcare services without much difficulty. The software also includes provision for users to pay appointment bills online and post their queries and feedback, if any.
User Interface	It is an angular application using which the user can register and log in to his/her account, book and view hospital appointments, and make online payments to the hospital as well as send hospital relevant feedback.
Middleware	Spring Micro services are used as middleware.
Database	MySQL database is used to store all user, doctors, appointment and payment data. H2 database is in-memory database used to store OTP.

3. Functional Requirements

3.1 Brief Description

The People's Health software requires a user to login using his/her credentials or create a new account and login, in case the user does not have an existing account. Upon successful authentication, the user will be entitled to book an appointment and view the already booked appointments. The user can also view the details of the branches of People's Health group, post queries on the portal, make online payments after booking appointments and provide hospital and branch specific feedback.

3.2 Interface Details

Please see the System Objective diagram.

3.3 Table of requirement

Flow	People's Health application first requires the user to login into his/her account using the login credentials. In case of a new user, it is necessary to complete user registration by providing his/her details. An OTP (One Time Password) would be sent to the user's mail ID for verification. Upon successful verification, the user is required to login using his/her new credentials. Once user authentication is done, he can perform personalized operations such as viewing appointments already booked at the hospital, booking an appointment with a
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	<p>doctor of the required specialty and at the required hospital branch. The user can also edit his/her profile when needed, pay bills online, provide hospital and branch specific feedback and also raise hospital-related queries whenever needed.</p>
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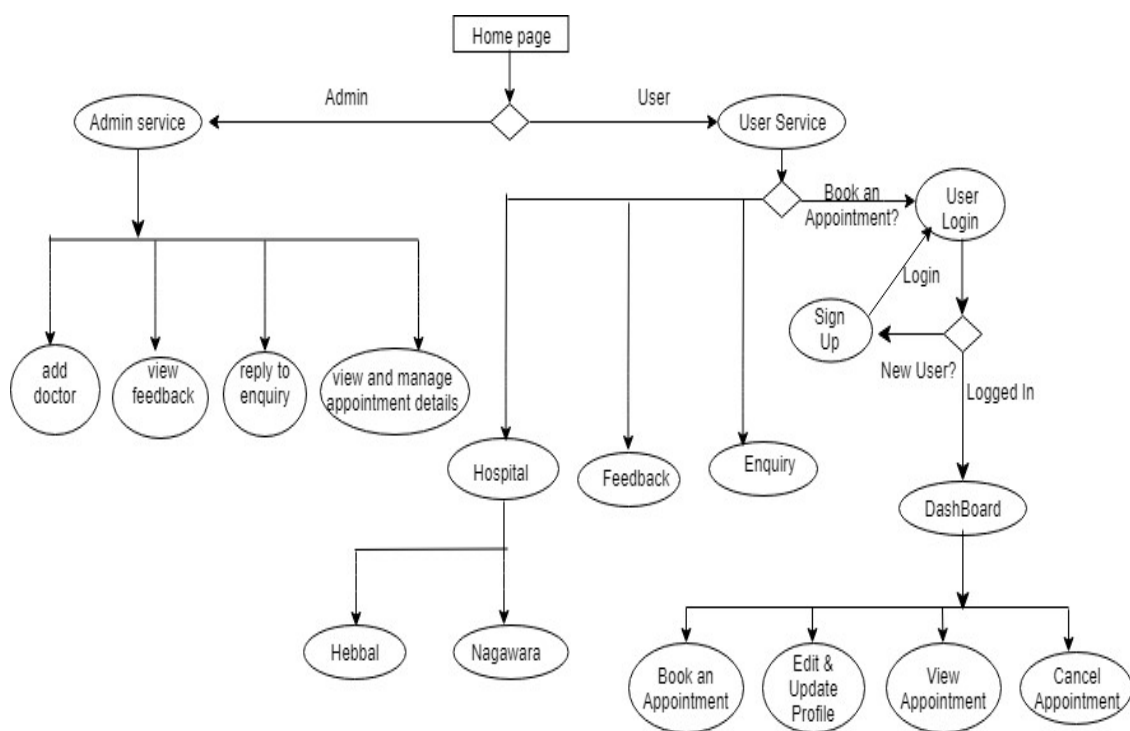


Figure 3.3.1 Application Flow Diagram

4. Database Schema:

There are a total of 10 tables which the application uses to save and display data and book an appointment. Patient Registration class is used for saving the details of users who are registering for the first time on the application. Appointment class is used to book an available slot. The users can provide feedback and can also enquire about any information regarding the appointment. Payment class is used to pay the hospital bill online. Once the user has successfully completed the registration, an OTP will be sent to their registered mail.

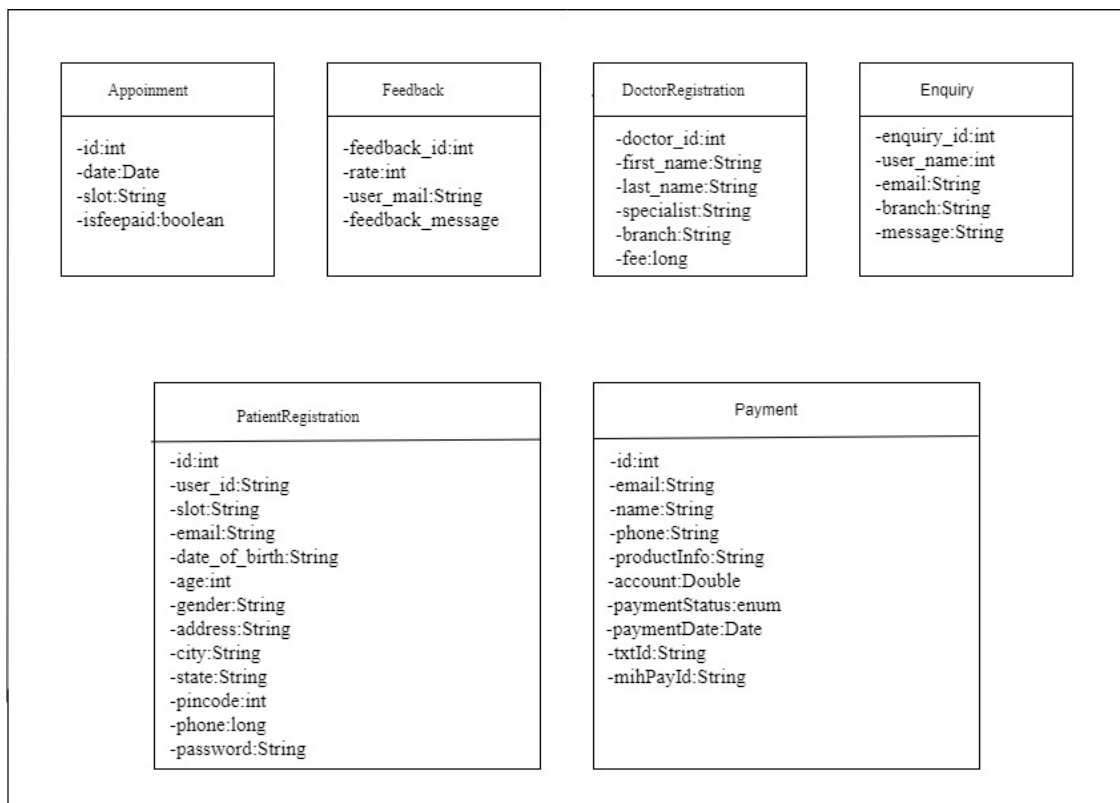


Figure 4.1: Class diagram of the application