

Hospital Patient Management System

Document ID: ASP-CMS-SRS-02.doc

Author(s): Janani D P

Version: 0.2

Date: March 21, 2024



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1. Objective and Scope

The objective and the scope of the project is to build a Hospital Management System to improve and simplify the operational, clinical, and administrative procedures in a hospital setting for patients. The scope of the product includes the following basic features:

- Enable users to securely access the Hospital Patient Management System with personalized credentials.
- Facilitate the booking of patient appointments, healthcare provider assignments, and time slot management.
- Monitor and update real-time bed availability, ensuring efficient allocation and utilization of hospital resources.
- Simplify the prescribing, administration, and tracking of patient medications within the hospital.
- Simplify billing and insurance to ensure payments are accurate and received on time.
- Viewing all the transaction details.

2. Project End Users

The end users of HPMS are hospital staffs, administrators and patients.

2.1 Administrators

Administrators are responsible for managing the user accounts, monitoring system functionality and ensuring data security. They can also handle system configurations and troubleshoot any technical issues that may arise.

2.2 Staffs

Staff are responsible for scheduling patient appointments, updating patient records, and ensuring smooth communication between patients and healthcare providers. They can also handle administrative tasks such as billing and generating reports.

2.3 Patients

Patients can access their health information and appointment schedules through the patient portal, while also receiving timely communication and reminders regarding their

healthcare needs.

3. Features

3.1 Login to the system

Each and every user should be authenticated with a User Name and Password to login into the system.

Validations for User Name and Password.

User Name: It accepts only Alphabets, Numbers, Dot (.) symbol and Underscore (_) symbol.

Password: It can be anything of the users' choice.

(Next release we have plan to integrate IDM for windows authentication)

3.2 Appointment Scheduling

Hospital staffs can easily select appointment types, assign appropriate healthcare providers, and manage available time slots.

Patients benefit from convenient scheduling options, reduced wait times, and improved access to timely healthcare services.

3.3 Medication Management

Medication management in the Hospital Patient Management System involves keeping track of patient medications to ensure safe treatment.

Doctors can prescribe and track medications easily, while the system helps prevent errors. Integration with pharmacies makes ordering and dispensing medication efficient, ensuring patients take their medications correctly.

3.4 View Transaction Details

Viewing transaction details within the Hospital Patient Management System allows authorized users to access information about financial transactions, such as payments,

invoices, and insurance claims. Users can review transaction dates, amounts and payment methods.