Health+ Technical Design Document

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1.0 Introduction

1.1 Purpose of this document

The purpose of this document is to document the technical design, component details and Database design. This will also capture the scope, assumptions, risk, dependencies of this project.

1.2 Project overview

Hospital Management System came into the picture of hospital management as early as 1960 and have ever since been evolving and synchronizing with the technologies while modernizing healthcare facilities. In today's world, the management of healthcare starts from the hands of the patients through their mobile phones and facilitates the needs of the patient. Hospitals and healthcare facilities improve the quality of healthcare services and improve the revenue cycle by using such hospital management systems.

Health+ *is a Hospital Management System which is an integrated information system for managing all aspects of a hospital's operations such as medical, administrative and compliance. It includes electronic health records, appointment scheduling. This Hospital Management System is a patient-centric system which includes online appointment scheduling and tracking, managing diagnostic reports, doctor and patient portal/dashboard, medicine and diet prescribing solution.*

2.0 Solution Summary

2.1 Scope

To develop a Hospital Management System that contains the following modules:

1. *Appointment Booking management.*
2. *Information/Helpdesk page with information of all the doctors and the departments they are involved in.*
3. *A calendar like schedule for all types of users to track their scheduled appointment dates.*
4. *Report uploading and management system for the patients.*
5. *System for doctors to prescribe medicines to patients i.e. prescriptions.*

2.2 User and Features

Patient

1. *Should be able to create an account in order to access hospital services.*
2. *Should be able to log in to my account easily with my username and password.*
3. *Should be able to book appointments online with a doctor.*
4. *Should be able to update my health information and access them.*
5. *Should be able to upload my medical test reports in the portal.*

Doctor

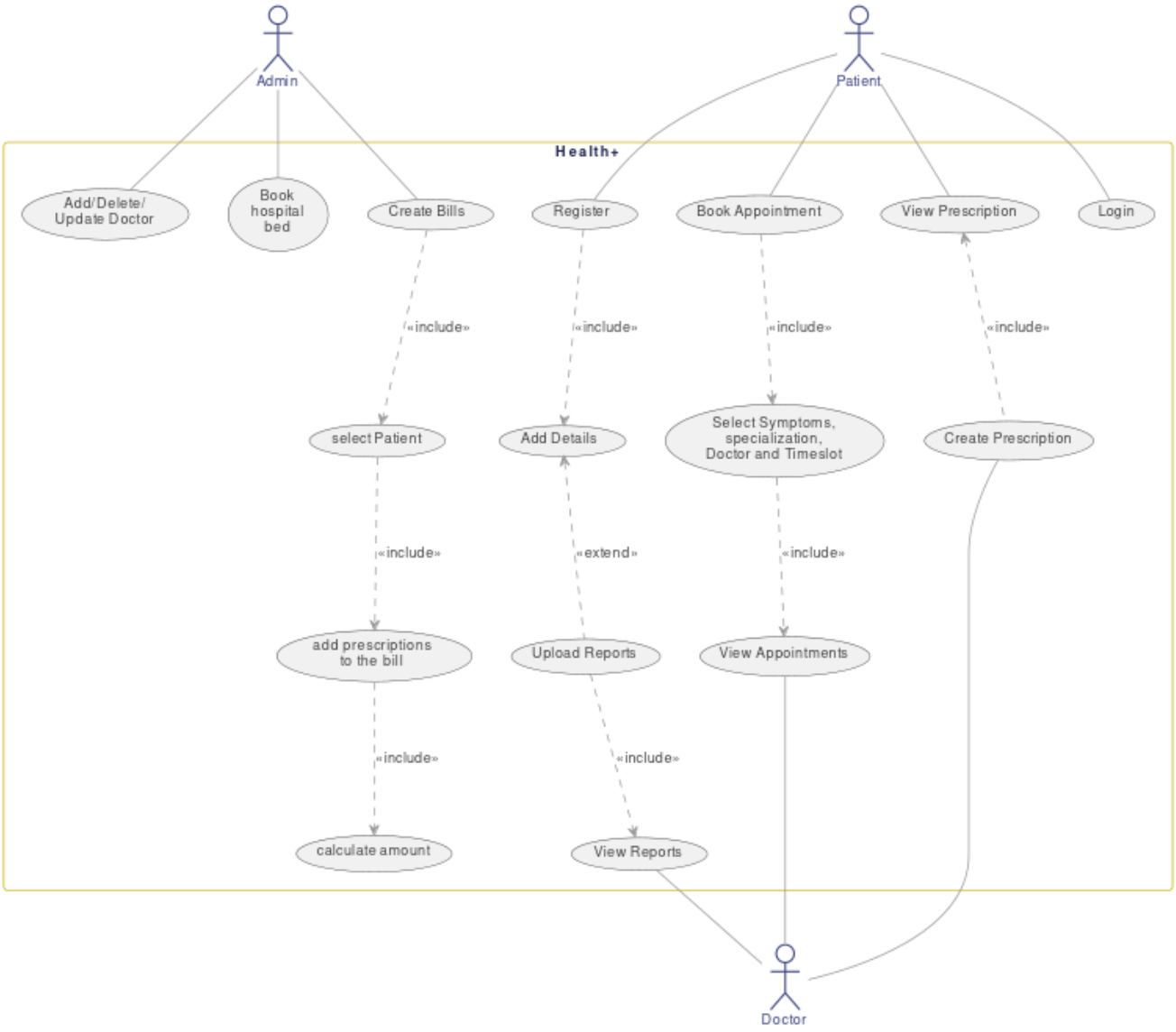
1. *Should be able to check patient appointments to examine and help them recovertheir illness.*
2. *Should be able to log in to my account easily with my username and password so that I can access patient information and view thier reports.*
3. *Should be able to create a prescription to prescribe medicines to the patients and suggest diet plan.*

Admin

1. *Should be able to log in to my account with my username and password with valid credentials so that admin can read access and manage patient information.*

3.0 System Design

3.1 Proposed design



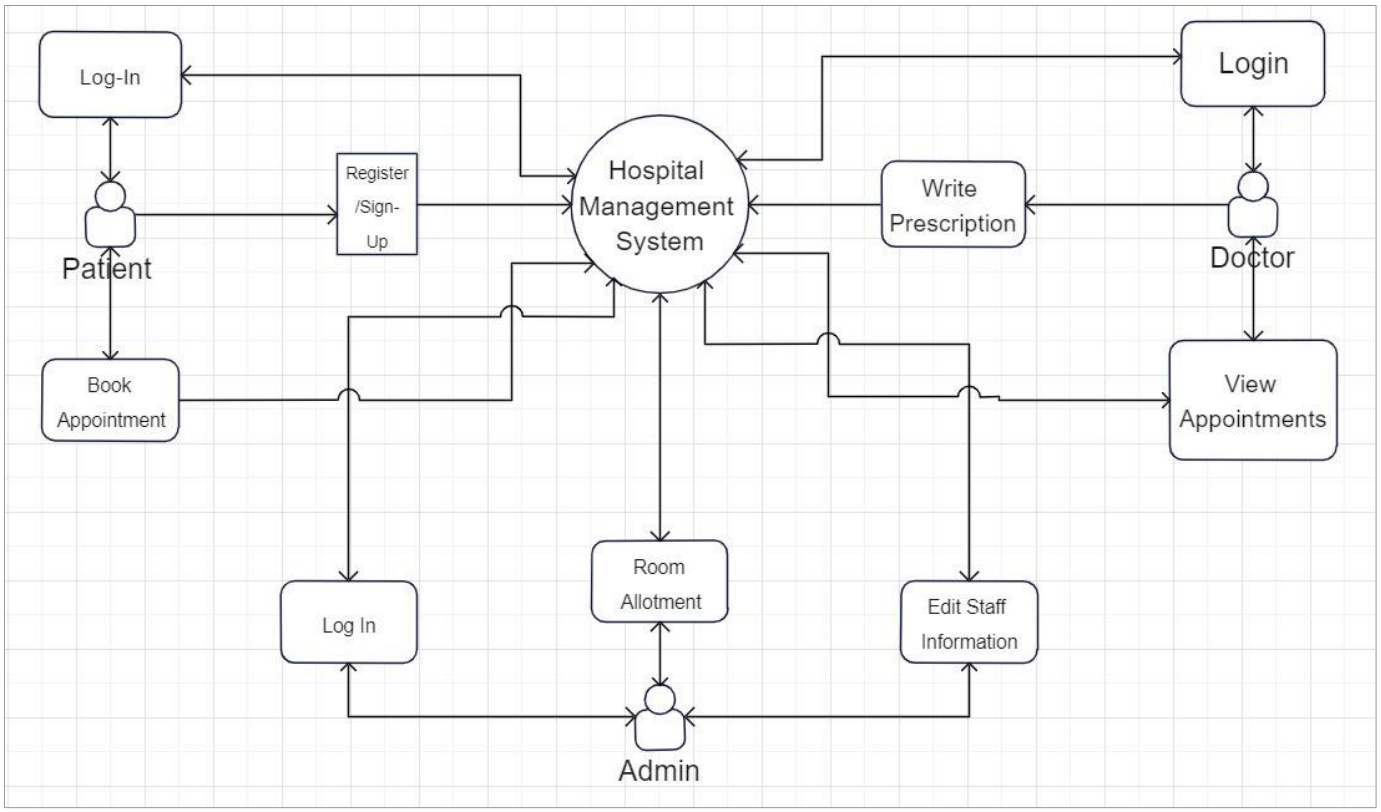
Full image can be viewed at: plantuml.com

3.2 Modules

1. ***Sign Up -*** *Patient can register into website with valid credentials into an account for an appointment.*
2. ***User Login -*** *Patient can login with registered details which was backened in the account to login into the website.*
3. ***Book Appointment -*** *Patient can login and book an appointment for the future and to interact with doctor regarding their illness.*

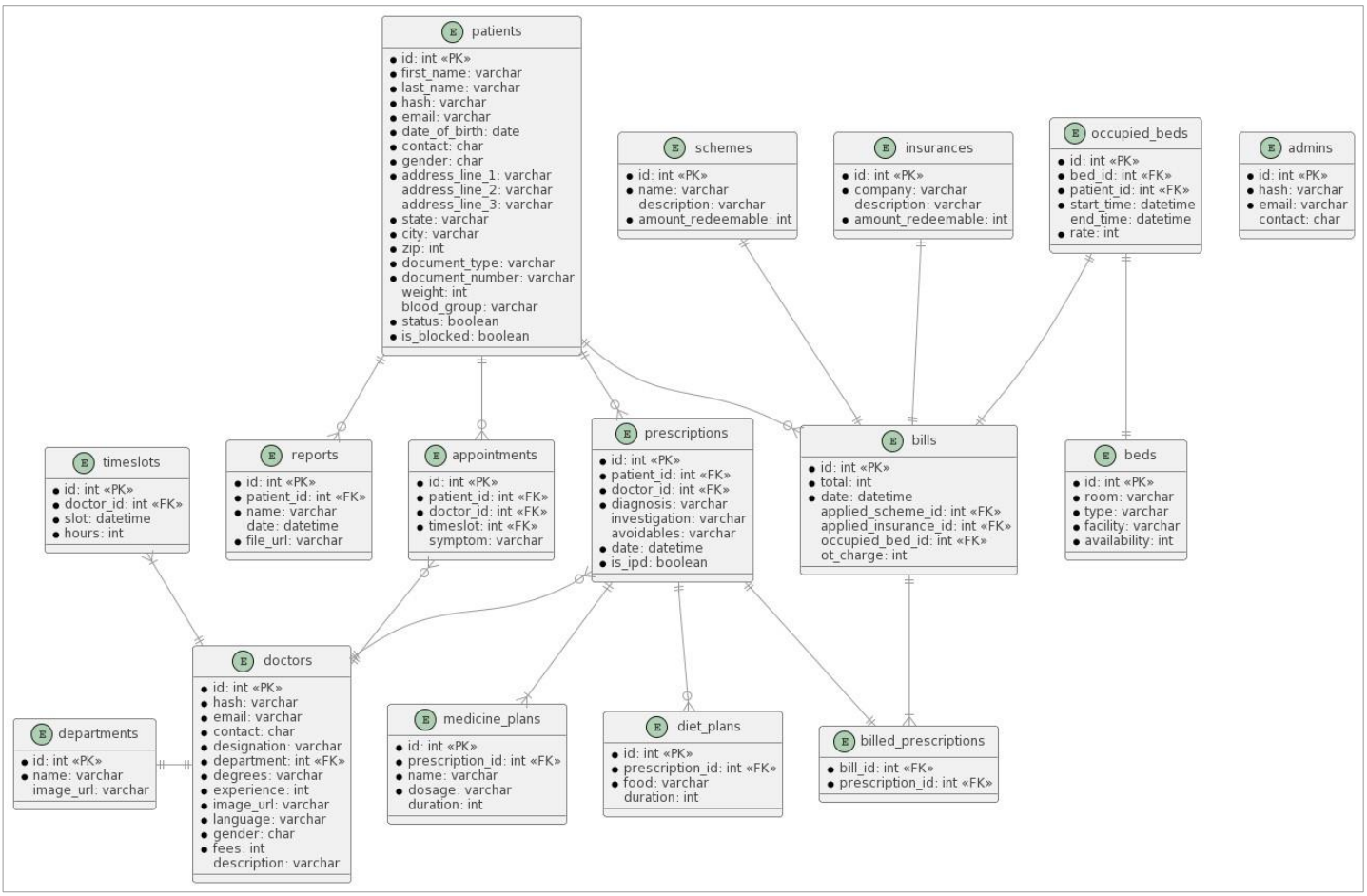
4. ***Create Prescription*** **-** *Doctor can add medicines and patient records and recommend them with some diet.*
5. ***Add Reports*** **-** *It is accessible either by an administrator or patient itself. Only they add data into the website. The data can be retrieved easily by both doctor and patient.*

4.0 Data Flow Diagram



5.0 Database Design

5.1 Data Model



Full image can be viewed at:plantuml.com

6.0 Appendices

6.1 Glossary

Acronyms	Definitions
HMS	Hospital Management System
OT	Operation Theatre

7.0 Terms & Conditions

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8.0 Change Log

Please note that this table needs to be maintained even if a Configuration Management tool is used.

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