

DBMS Mini Project Synopsis

Hospital Management System

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Class – TY Comp (Sem 5)

Div - 2

Problem Statement

Developing a hospital management system in order to effectively manage most aspects of hospitals such as booking appointments, managing patient records and keeping medical history and basic inventory management.

Overview

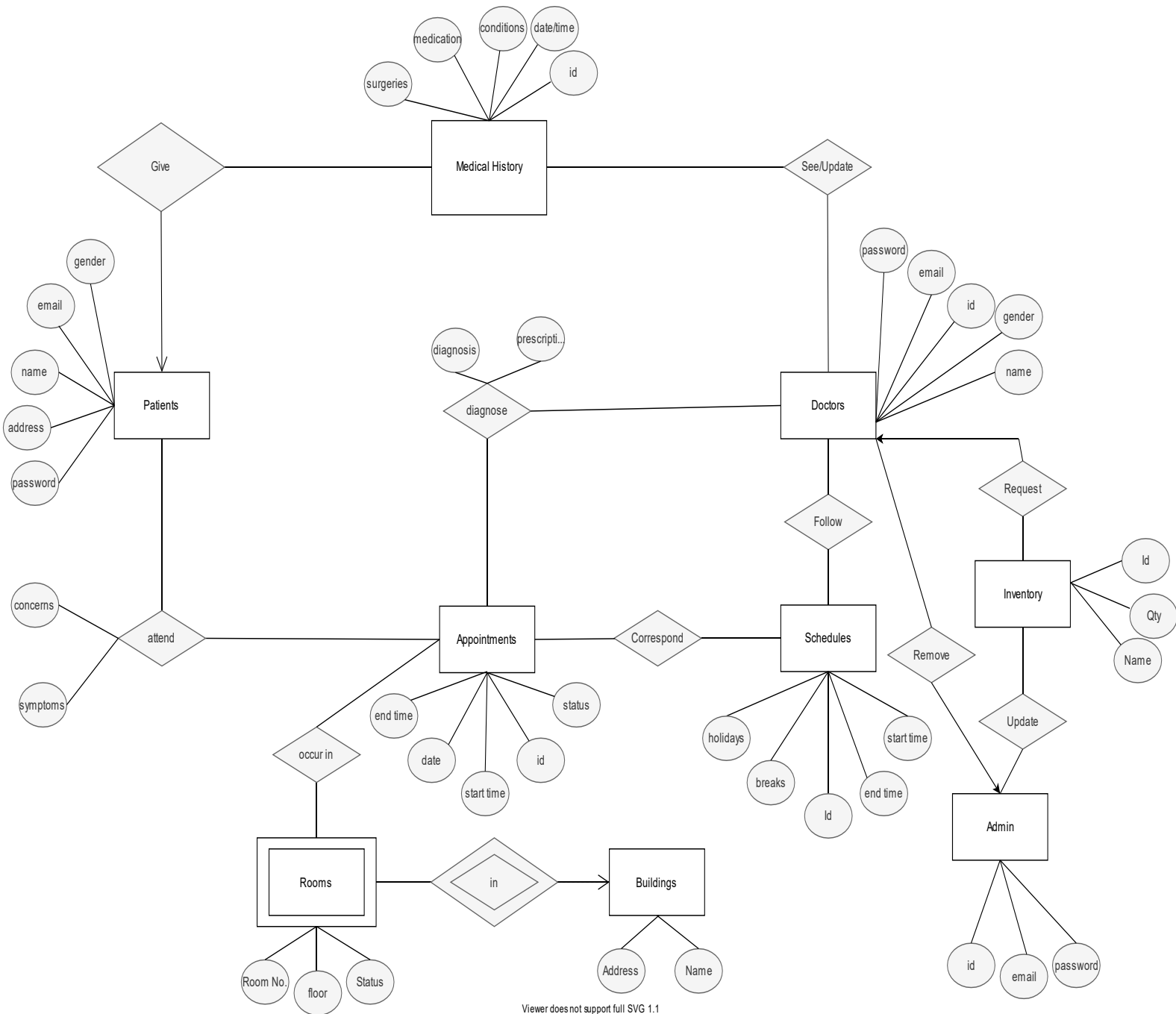
Organisations such as hospitals have to deal with a lot of patients regularly and hence a lot of data. Hence it is very important for a hospital to have a DBMS with a frontend that easily allows patients to book appointments and allows doctors or administrators to manage patient data.

For this project I have chosen to build the frontend using ReactJS and JavaScript, backend in Node.js and the database used will be MySQL.

Functional Requirements

1. Separate interfaces for patients and doctors. Patients and doctors should have separate logins.
2. There should be an admin who can control inventory and remove doctors.
3. Allow patients to book appointments and view/update/cancel them later if necessary, creating free slots for other patients.
4. The system should avoid clash of appointments and allow appointments only when a doctor is not already busy or does not have a break.
5. Doctors should be able access patient history and profile, and add to patient history.
6. Doctors should be able to request for inventory.

ER Diagram



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Relational Schemas

1. Patient

Email	Password	Name	Address
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2. Doctor

Email	Gender	Password	Id	Name
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3. Medical History

Surgery	Medication	Condition	Date/Time	Email
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4. Appointment

Id	Date	Start	End	Status
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5. Schedules

Id	Start	End	Holidays	Breaks
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6. Diagnose

Appt Id	Doctor	Diagnosis	Prescription
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7. Building

Name	Address
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8. Room

Id	Room_Number	Floor	Building	Status
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9. Admin

Id	Email	Password
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10. Inventory

Id	Qty	Name
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