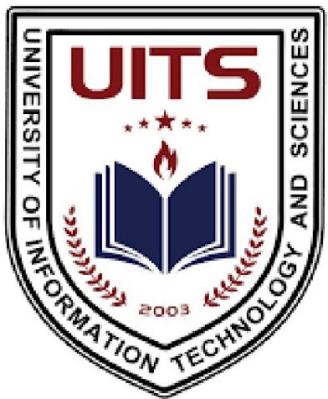
**University of Information Technology & Sciences**

**Department of**

**Computer Science and Engineering**



**PROJECT REPORT**

**Project Title :- Hospital Management System**

**Course Title:** Database Management System

**Course Code:** CSE-316

**Team :- ShowsStoppers**

**Submitted To :-**

Md. Moradul Siddique Lecturer

Of

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Semester: Autumn 24

**Acknowledgement**

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**1. Introduction**

The Hospital Management System is designed to simplify and automate hospital operations. It helps manage patient records, doctor information, appointments, and department details efficiently. This system uses a MySQL database for data storage and a Python-based backend.

**2. Project Objective**

The main objectives of the Hospital Management System are:

- To create a user-friendly interface for managing hospital records.

- To reduce manual effort and paperwork in hospitals.

- To store and retrieve information about doctors, patients, and appointments efficiently.

- To ensure data integrity and security.

1. **System Design Architecture:**

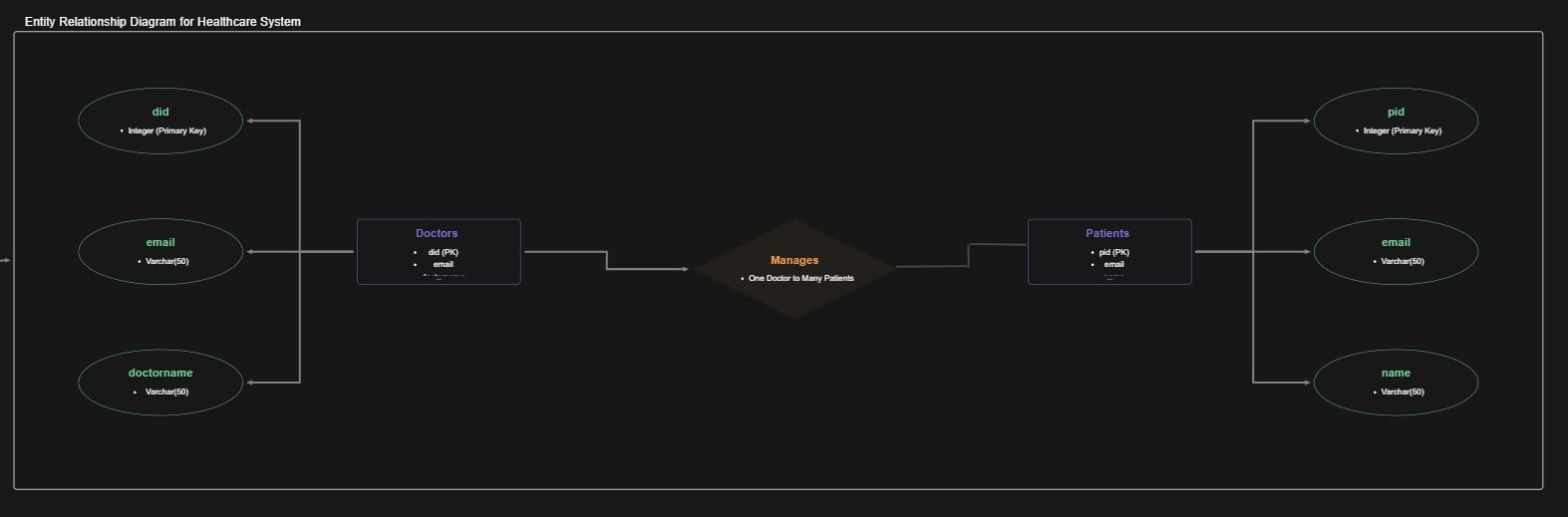
The system is a web-based application designed using the MVC (Model-View-Controller) architecture.

**1. Model :** Handles database operations (MySQL).

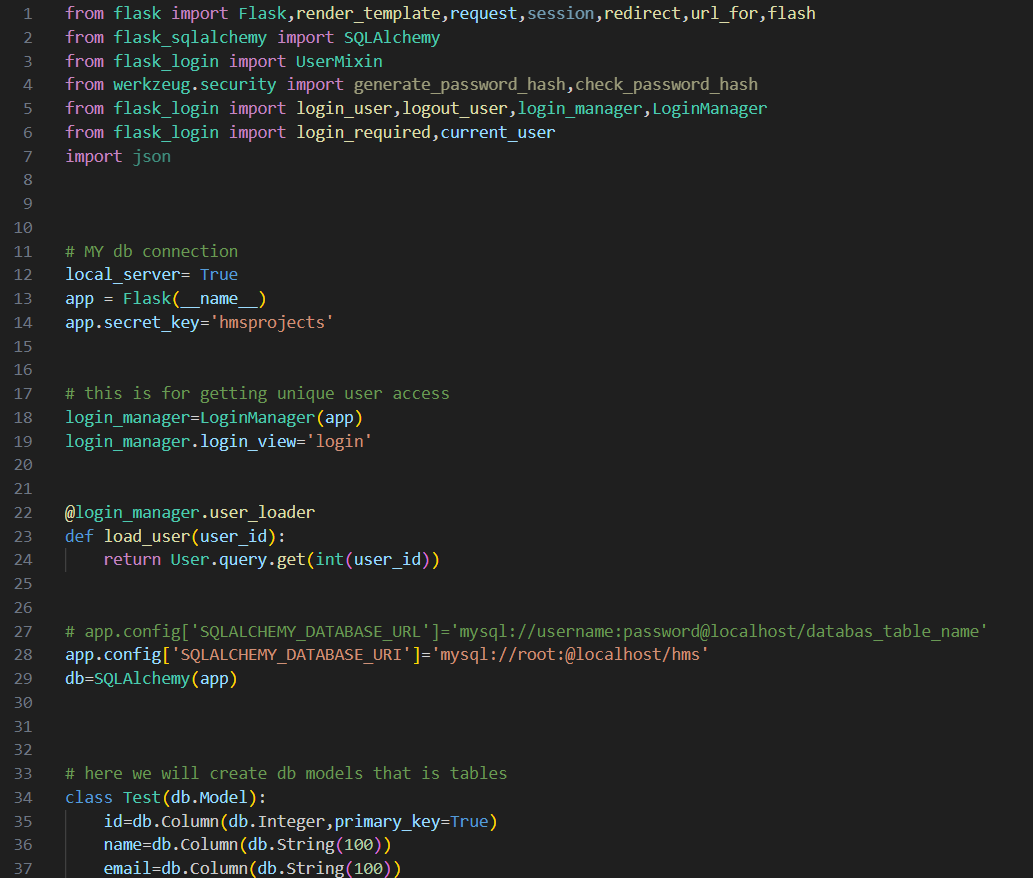
**2. View :** HTML templates for user interaction.

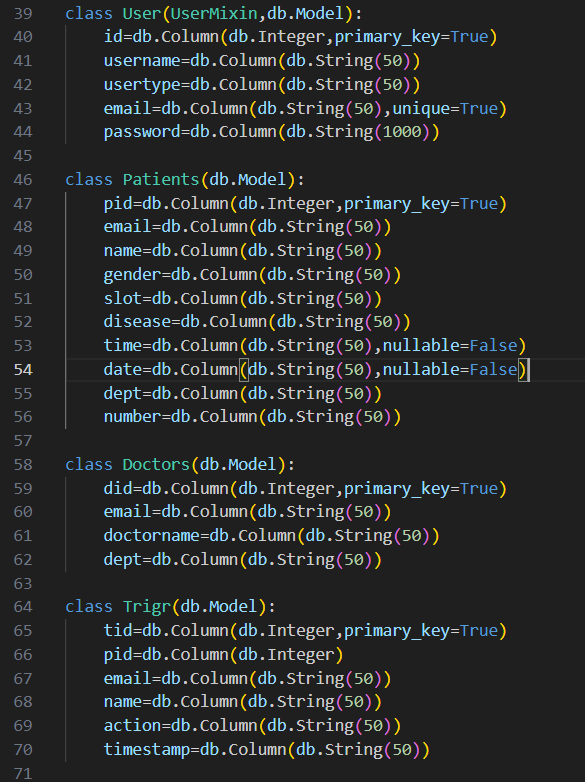
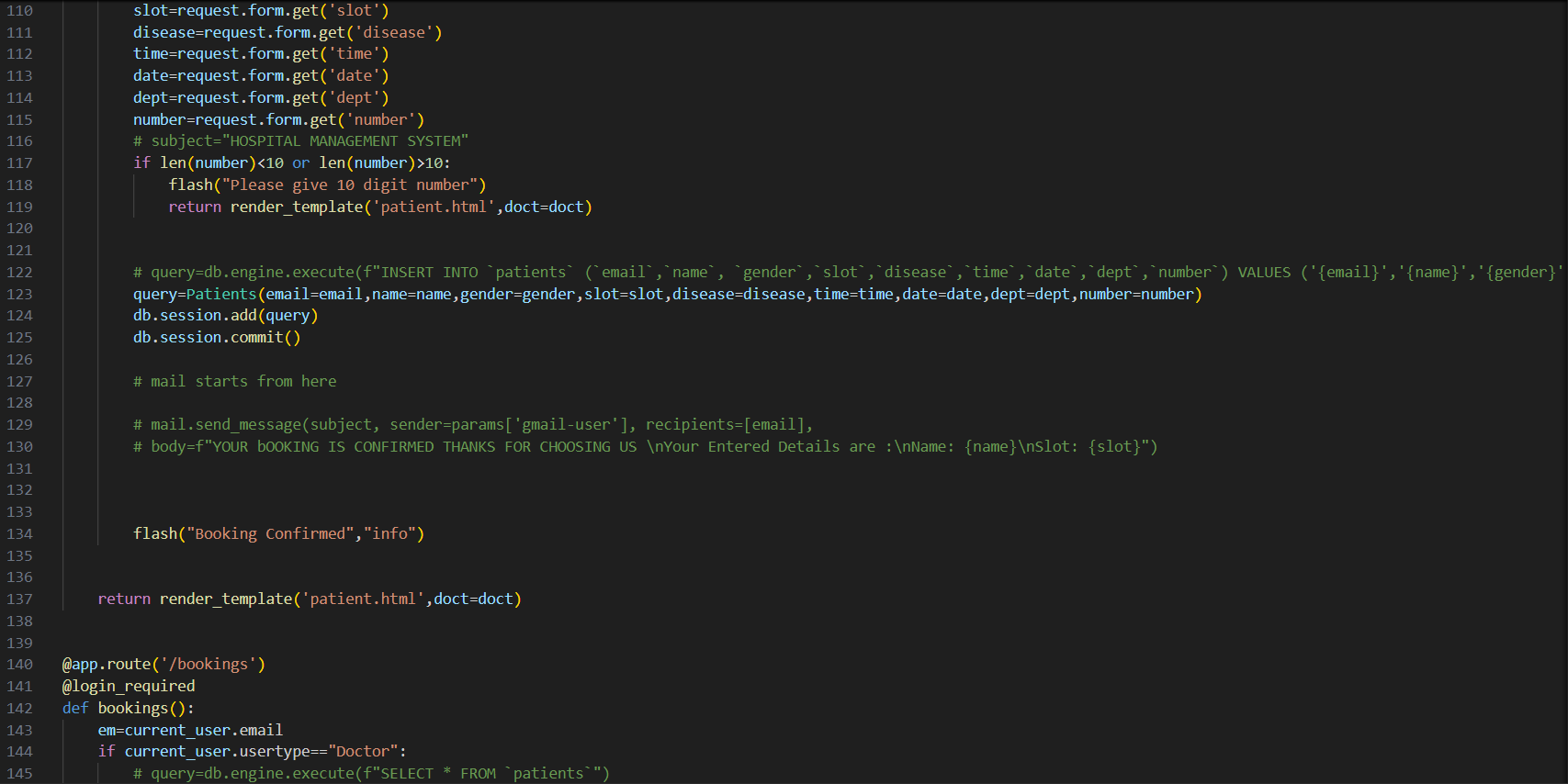
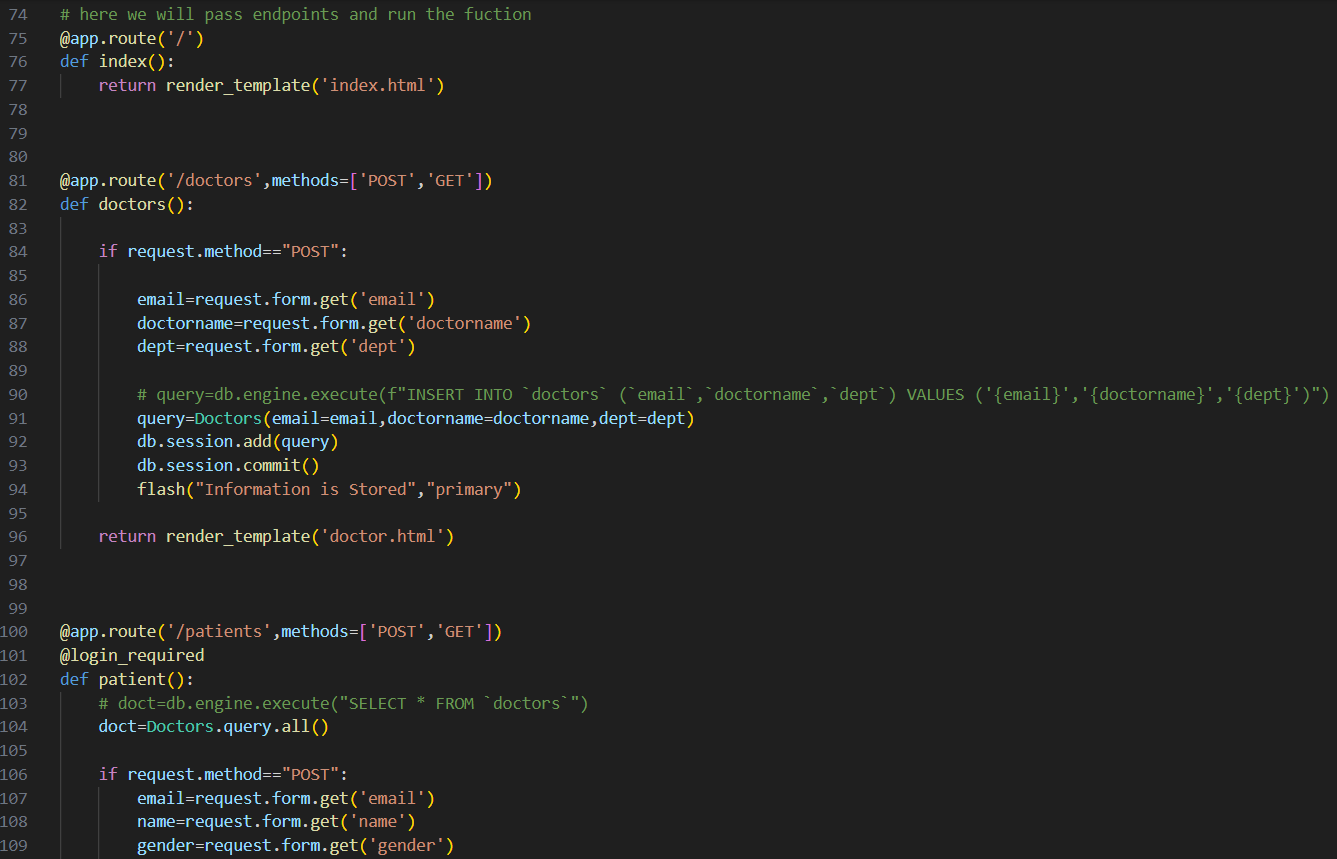
**3. Controller :** Python Flask routes to process requests.

**4. Relational Entity Diagram**



**5. Source Code**

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1. **Advantages and Disadvantages**

**Advantages :-**

1. Reduces manual paperwork and errors.

2. Ensures quick access to hospital data.

3. Scalable and easy to extend.

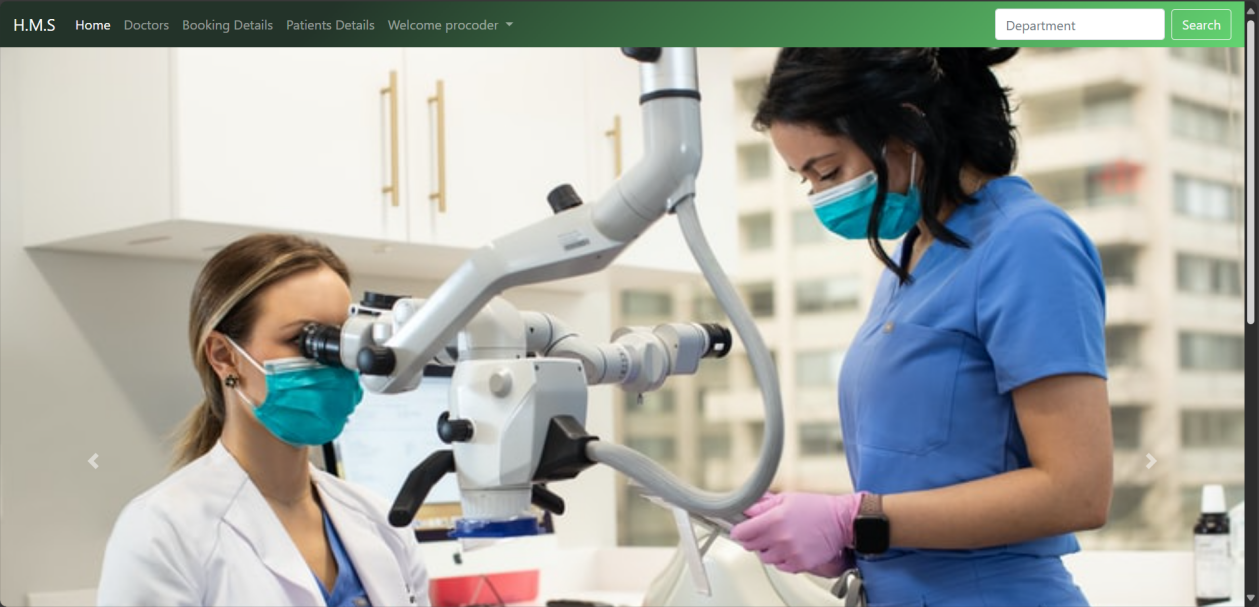
4. Provides data security through MySQL.

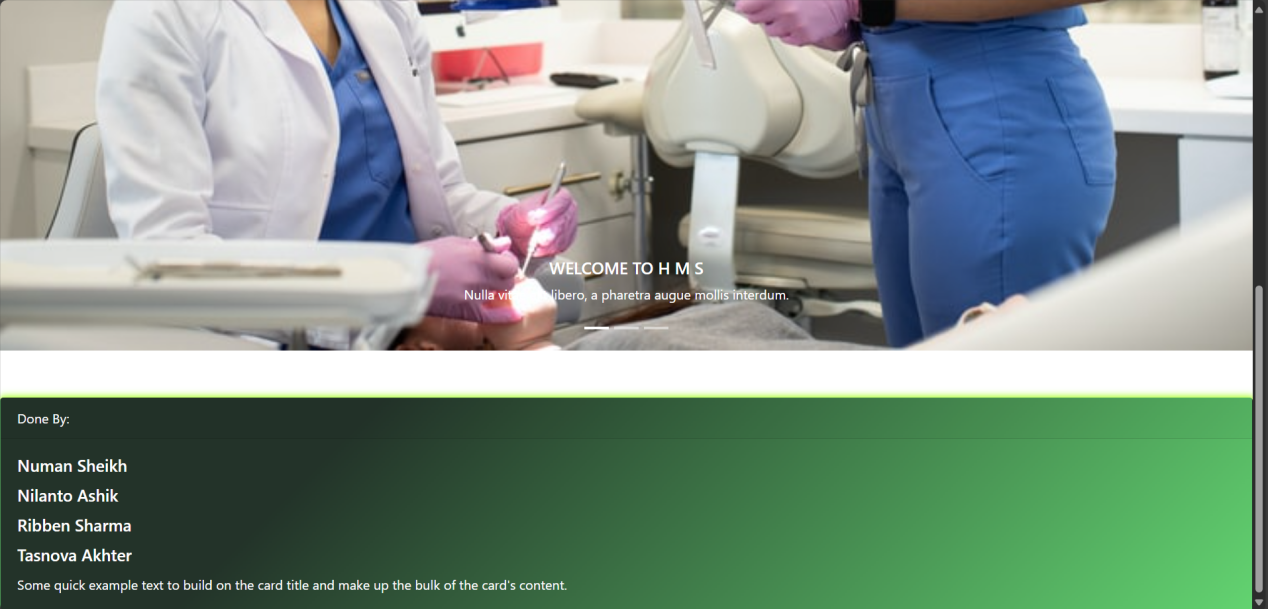
**Disadvantages:-**

1. Requires internet connection for web-based systems.

2. Limited to technical staff for system maintenance.

1. **Project Overview**

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**8.Conclusion**

The Hospital Management System successfully automates hospital operations such as patient records, doctor information, and department management. It reduces paperwork and provides a user-friendly interface for administrators and hospital staff. Future improvements may include additional modules for billing and inventory management.

**9.Reference**

1. Flask Documentation: http//flask.palletesprojects.co
2. MySQL Documentation: <https://dev.mysql.com/doc/>
3. Python Official Site: https://www.python.org/