

📄 Project Documentation: Hospital Management System

📄 Objective

To create a simple Java-based Hospital management system that allows adding patients, viewing patients, viewing doctor, book Appointment .

📄 Technologies Used

- Language: Java
- IDE: Eclipse
- Database: MySQL
- JDBC: For database connectivity
- Version Control: Git and GitHub

📄 Project Structure

```
JDBCDEMO/  
├── src /  
│   ├── Patient.java  
│   ├── Doctor.java  
│   └── Main.java  
├── README.md  
├── Documentation/  
│   └── ProjectDocumentation.docx
```

📄 Modules/Features

1. Add Patients
2. View Patients
3. View Doctors
4. Book Appointment

📄 User Roles

- Admin (add patients/view patients/add doctors)
- Member (book Appointment — limited actions)

📄 Class Design

1. Patient Class
 - Attributes: id, name, age, gender
 - Methods: addPatient(), viewPatients(), getPatientByID()

2. Doctor Class

- Attributes: Id, name, specialization
- Methods: viewDoctors(), getDoctorById()

3. Main Class

- Attributes: Patient ID, Doctor ID, Appointment date
- Methods: bookAppointment(), checkDoctorAvailability()

□ Sample Test Cases

Feature	Input	Expected Output
Add Patients	Enter name: sai, age:22, gender: male	Patient added successfully
View Patients	-	List of Patients
View Doctors	-	List of Doctors
Book Appointment	Doctor ID: 101, Patient ID: 1 Appointment date:2025-11-13	Book Appointment successfully

📖 How to Run

1. create a “hospital” database with relevant tables.
2. Update database credentials in “HospitalManagementSystem.java”.
3. Open project in your IDE(Eclipse).
4. Compile and run “HospitalManagementSystem.java”.
5. Use the console menu to operate the system.

🔒 Future Enhancements

- Integration with MySQL database
- User authentication system
- Book Appointment feature
- Report generation

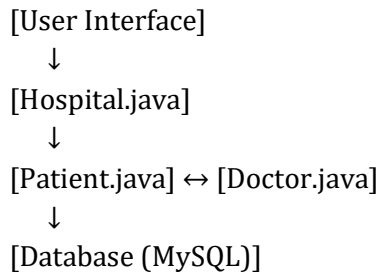
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-GitHub: <https://github.com/pranav1-rock/Hospital-Management-System>

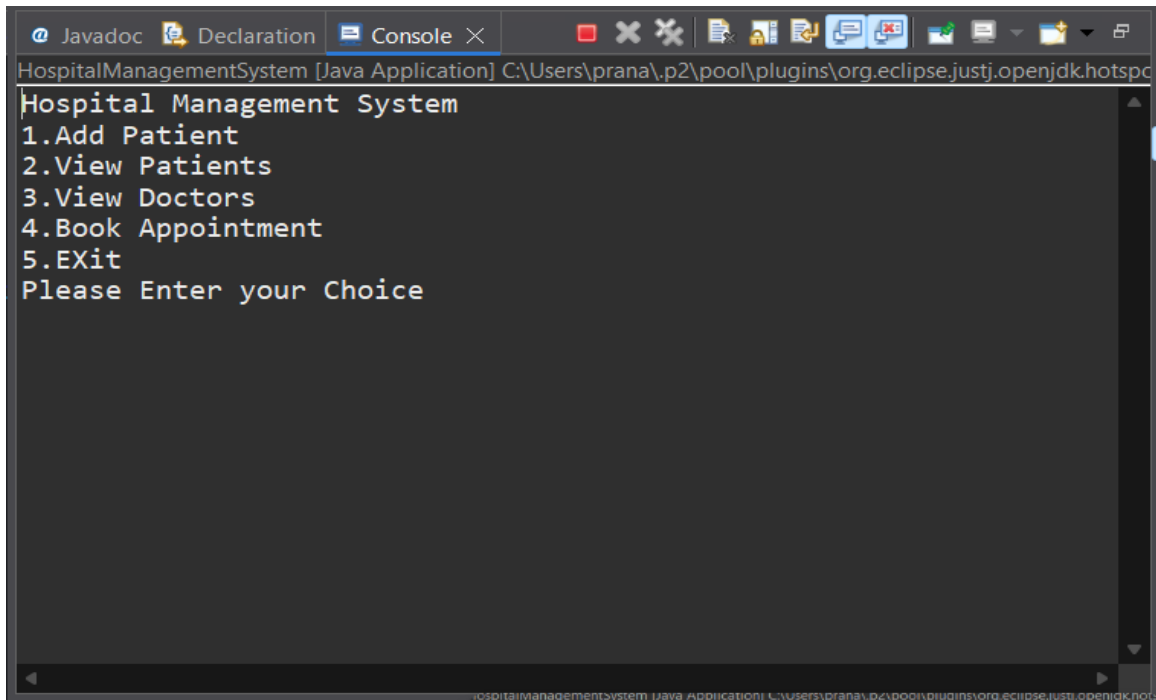
System Architecture Diagram

Below is a simple architecture diagram showing how different components interact:



Sample Screenshots

Screenshots showing the menu-driven interface in console output:



```
HospitalManagementSystem [Java Application] C:\Users\prana\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot
Hospital Management System
1.Add Patient
2.View Patients
3.View Doctors
4.Book Appointment
5.EXIT
Please Enter your Choice
```

===== Hospital Management System =====

1. Add Patients
 2. View Patients
 3. View Doctors
 4. Book Appointment
 5. Exit
- Please Enter your choice:

The system takes user input and performs operations based on the selected menu item.