

# Hospital Management System (CLI-Based)

## Project Summary:

This is a Java-based command-line Hospital Management System developed using JPA (Hibernate), MySQL.

The system allows Admins, Doctors, and Patients to manage appointments, medical records, prescriptions.

## Modules Implemented:

- User Management (Admin, Doctor, Patient)
- Patient Registration and Lookup
- Appointment Booking and Viewing
- Medical Record Entry and Retrieval
- Prescription Management
- Billing System (Generate and View Bills)

## Technologies Used:

- Java 17
- Maven (Project Management)
- JPA (Hibernate)
- MySQL (Database)
- CLI for Input/Output Interface

## Setup Instructions:

1. Create a MySQL database: `CREATE DATABASE hms_db;`
2. Update MySQL credentials in META-INF/persistence.xml
3. Build the project using Maven: `mvn clean install`
4. Run Main.java to start the CLI application

#### GitHub Commit Guidelines:

- Each group member should clone the repository using their account
- Use meaningful commit messages (e.g., 'Added AppointmentService')
- Use branches for features (e.g., feature/patient-module)
- Push changes and create Pull Requests for merging

#### JUnit Testing (Optional):

- Service classes should be tested with unit tests (e.g., PatientServiceTest.java)
- Use JUnit 5 with test cases in src/test/java

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