Sprint 1 Goal – MediConnect CRM

Sprint Title: Java Foundation + Database Layer Setup

Duration: Sprint 1

Sprint Theme: Establishing the foundation of the CRM backend through Java and database integration.

Sprint Goal

The primary goal of Sprint 1 is to lay the groundwork for the MediConnect CRM system by:

- Designing a **normalized database model** for patients, doctors, appointments, and medical cases.

- Implementing **object-oriented Java classes** using principles like inheritance and interfaces to represent core entities.

- Writing and testing **CRUD SQL queries** for key operations (Create, Read, Update, Delete) related to patient and doctor records.

- Integrating **Java JDBC** logic to facilitate interaction between the application and the database.

- Incorporating **exception handling and Java collections** for managing appointment queues efficiently.

- Utilizing **Java Date/Time API** to manage appointment scheduling and logging.

Key Deliverables

- Entity-Relationship Diagram (ERD) and SQL scripts.

- Java OOP class implementations for Patient, Doctor, and Appointment.

- JDBC-integrated code demonstrating CRUD operations.

- Demo of working patient registration and appointment booking flow.

Success Criteria

- Functional DB schema and ERD.

- Modular and reusable Java classes following OOP standards.

- Seamless data handling via JDBC.

- Proper error handling and real-time date/time tracking in appointments.