**🩸 Project Title:**

**Digital Blood Department Management System for Hospitals in Sri Lanka**

**🎯 Main Objective / Scope:**

To eliminate manual processes in the hospital’s blood department by digitizing the entire workflow from patient registration to blood report delivery, thereby improving efficiency, reducing waiting time, and enhancing communication between departments.

👉 **React** for the frontend

👉 **Spring Boot** for the backend (Java + REST API)

👉 **MySQL** for the database

**✅ Shared Functions (Doctor, Nurse, Lab Technician)**

1. **Login**
2. **View Upcoming Patients (Queue List)**
3. **Search Patients by NIC or Name**
4. **View Patient Details**
5. **Track Patient Status (WAITING / IN\_PROGRESS / DONE)**

**👩‍⚕️ Doctor Functions**

1. **Call Next Patient**
2. **Mark Patient as Done**
3. **Request Blood Test**
4. **View Blood Test Results**
5. **View Patient Visit History**
6. **Add Doctor’s Notes (Optional)**

**🧑‍⚕️ Nurse Functions**

1. **Register New Patient**
2. **Issue Queue Number**
3. **Assist in Patient Flow (Call Next)**
4. **View Assigned Queue**

**🔬 Lab Technician Functions**

1. **View Test Requests from Doctors**
2. **Mark Blood Sample as Collected**
3. **Enter Blood Test Results**
4. **Submit Test Report to System**
5. **View Previous Lab Reports**