

Doctor Appointment and Blood Donor Finder System

1. Project Overview

This Java Full Stack project allows patients to book appointments with doctors and also enables blood donor search functionality by city and blood group. Built using Spring Boot, Thymeleaf, and MySQL, it includes email notifications for appointment confirmation.

2. Features

- Register patients and doctors
- Book and cancel appointments
- Send email confirmations to patients
- Register blood donors
- Search for donors using city and blood group filters
- Frontend built using Thymeleaf and Bootstrap

3. Technologies Used

- Java, Spring Boot, Spring MVC
- Thymeleaf, HTML, Bootstrap
- MySQL, JPA, Hibernate
- JavaMailSender for email
- Eclipse IDE, MySQL Workbench

4. Folder Structure

doctor-appointment-system/

- |-- entity/ - Model classes
- |-- controller/ - REST + View controllers
- |-- repository/ - JPA interfaces
- |-- service/ - Business logic
- |-- templates/ - Thymeleaf HTML pages
- |-- static/ - CSS, JS

5. How to Run

Doctor Appointment and Blood Donor Finder System

1. Open project in Eclipse IDE
2. Create MySQL DB named 'doctor_db'
3. Set email and DB config in application.properties
4. Run the main class 'DoctorAppointmentApplication'
5. Visit URLs: /home, /book-appointment, /search-donor

6. Developer Info

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