Project Requirements & Project Scope

1. Project Requirements:

Purpose of the Project:

The Blood Donation Management System aims to establish an efficient and transparent process for managing blood donors and requests within a donation center. The primary purpose is to bridge the gap between individuals in need of blood and willing donors by creating a centralized system managed by administrators.

Expected Outcomes:

a. **Streamlined Donor Management:** Enable administrators to register donors physically at the donation center, maintaining accurate and up-to-date donor profiles.
b. **Effective Blood Request Handling:** Facilitate the process of managing and fulfilling user blood requests in a timely manner.
c. **Enhanced Communication:** Provide a reliable communication system between administrators, donors, and users, ensuring prompt notifications and updates.
d. **Optimized Inventory Management:** Efficiently track and manage the blood inventory to meet demand and prevent shortages.
e. **User-Friendly Interface:** Develop a user-friendly interface for administrators to easily navigate and manage donor information and blood requests.

Constraints and Limitations:

Physical Registration: Donors must be registered manually by administrators after their physical presence at the donation center.

Limited Donor Information: Administrators will rely on the information provided by donors during the manual registration process.

Real-time Communication: The system should provide real-time communication for immediate notifications but may be subject to external factors like network availability.

2. Project Plan:

Scope of the Project:

The project scope encompasses the development of a Blood Donation Management System with the following key features:

- Donor Management by Administrators
- User Blood Request Management
- Administrator Dashboard for Oversight
- Communication System for Notifications
- Blood Inventory Management

Timeline:

Week 1: Project Setup and Planning

- Define project requirements and scope.
- Choose and set up the development environment.

Week 2: Backend Development

- Tools and Technologies: **Spring MVC, Java Programming.**

Week 3: Frontend Development:

- Tools and Technologies: **HTML, CSS, JavaScript**
- **Submission on GitHub**

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