**ｒBlood Donation Management System (BDMS)**

**Project Overview**

The Blood Donation Management System (BDMS) is a web-based platform designed to simplify and enhance the process of blood donation by providing a centralized system for users to:

* Search for blood banks based on location and blood type availability.
* Request specific blood types for emergencies.
* Organize blood donation drives or programs.
* Receive notifications when donated blood is utilized, encouraging future donations.

**Key Features**

**1. Search Blood Banks**

* Users can search blood banks by selecting their city or filtering by blood type.
* Results display detailed information about blood banks, including contact details and blood availability.

**2. Blood Request**

* Registered users can submit requests for specific blood types.
* Admins or blood banks can approve or deny requests based on availability.

**3. Organize Blood Donation Programs**

* Users can organize or join donation drives, encouraging group donations from workplaces, communities, or specific demographics.

**4. Donor Notifications**

* Donors receive an email or SMS notification when their blood is used to help a patient, reinforcing positive feedback and encouraging future donations.

**System Architecture**

**Frontend**

* **Technologies**: HTML, CSS, JavaScript.
* **Purpose**: Provide a user-friendly interface for searching blood banks, submitting blood requests, and organizing donation drives.

**Backend**

* **Technologies**: PHP for server-side processing.
* **Database**: MySQL for storing user data, blood bank information, and requests.
* **APIs**: Email/SMS APIs to send notifications to donors.

**Installation Instructions**

**Prerequisites**

* PHP (7.0+)
* MySQL Database
* A web server (Apache, Nginx, etc.)
* Composer (for PHP dependencies)