**BBMS - Blood Bank Management System**

Blood Bank Management System (BBMS) is a web-based application designed to efficiently manage blood donations, donors, and recipients. It provides an integrated platform for donors and recipients to ensure the availability of safe and life-saving blood for those in need.

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**Prerequisites**

Before you begin, ensure you have met the following requirements:

* **XAMPP**: You need XAMPP installed for hosting the application. XAMPP includes Apache, MySQL, PHP, and phpMyAdmin, which are essential for running the application.
* **Git** (Optional): If you want to clone the repository from GitHub.

For a detailed guide on how to install XAMPP on Linux, you can watch this (<https://www.youtube.com/watch?v=XoKUkdmfTZQ>).

**Deployment**

For a detailed guide on how to deploy a PHP and MySQL application on the internet, you can watch this (<https://youtu.be/IbUmbYKY_Q4?si=1Od8XSaNmLZ8CRiY>).

**Quick Deployment Steps:**

1. Purchase a domain and hosting service.
2. Upload the project files to the server using FTP or cPanel.
3. Import the bbms.sql database on the hosting provider's MySQL server.
4. Update database credentials in the config.php file.
5. Access the application via the domain URL.

**Installation**

To set up the BBMS application with XAMPP in your Linux environment, follow these steps:

1. **Clone the repository** into your local machine in the directory where your PHP web server is serving files. In most cases, it's located in /opt/lampp/htdocs.
2. git clone https://github.com/Farheen-18/Blood\_Bank\_Management\_System
3. **Start XAMPP** by running the following command:
4. sudo /opt/lampp/lampp start
5. **Go to phpMyAdmin** in your web browser:
6. http://localhost/phpmyadmin/
7. **Create a database** named BBMS and import the file bbms.sql present in /opt/lampp/htdocs/BBMS/database.
8. **Access the application** in your web browser:
9. http://localhost/BBMS/index.php

**Usage**

* **Login**: Users can log in with their respective roles (patient, donor, or admin) using their credentials.
* **Patients**: Patients have access to their profiles, blood donation requests, and request history.
* **Donors**: Donors can view their profile, blood donations, and check their donation history.
* **Admin**: Admins have access to user and donation management features.

**Flowchart**

graph TD

A[BBMS]

subgraph Login/Register

A1[Patient Login]

A3[Admin Login]

A2[Donor Login]

A1 --> |New to BBMS|A4[Patient Register]

A3 --> |New to BBMS|A6[Admin Register]

A2 --> |New to BBMS|A5[Donor Register]

end

subgraph Patient

A1 --> |Success| K[Patient Dashboard]

K --> L[View Profile]

L --> M[Update Profile]

L --> N[Delete Account]

K --> O[Request Blood]

K --> Q[Request History]

O --> |Submit Request| R[View Past Requests]

Q --> R

end

subgraph Admin

A3 --> |Success| E[Admin Dashboard]

E --> H[All blood types unit levels]

E --> |Manage|I[Patient/Donor Accounts]

E --> G[Requests/Donations]

E --> HI[View Past Donations/Requests]

G --> |Manages requests/donations|AR[Approve/Reject requests]

H --> |Update blood units| UB[Update Blood]

end

subgraph Donor

A2 --> |Success| T[Donor Dashboard]

T --> U[View Profile]

U --> V[Update Profile]

U --> W[Delete Account]

T --> X[Donate Blood]

T --> Z[Donation History]

X --> |Submit Donation| AA[View Past Donations]

Z --> AA

end

A --> A1

A --> A2

A --> A3

A4 --> K

A5 --> T

A6 --> E

**Features**

* **User authentication** and role-based authorization for patients, donors, and admins.
* **Profile management** for patients and donors.
* **Blood donation request system** to request specific blood types.
* **Donation history tracking** for transparency.
* **Admin panel** for managing users, blood inventory, and donations.

|  |
| --- |
| **Login Page** |  |
| **Dashboard** |  |
| **Blood Request Form** |  |

**Technologies Used**

* **PHP**: Backend scripting language.
* **MySQL**: Database management system.
* **Bootstrap**: Front-end framework for styling.
* **Apache**: Web server.