Heaven's Light is Our Guide

RAJSHAHI UNIVERSITY OF ENGINEERING & TECHNOLOGY

Department of Computer Science & Engineering

Project Proposal

Course Code   : CSE 2100

Course Name   : Software Development Project I

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Project Title : Blood Donation Management Website.

Introduction : Blood donation is a vital part of healthcare, and having an organized system to connect donors and seekers can save many lives. This project aims to develop a blood donation management website. The website will help blood donors and seekers connect easily, allowing donors to update their donation status and seekers to search for available donors based on blood type and donation status. The goal is to make the process of finding blood donors more efficient and accessible.

Objectives
- To create a website that helps people donate blood and find blood donors.
- To allow blood donors to register and update their donation status easily.
- To provide a platform where blood seekers can search for donors based on blood group and donation status.
- To make the website easy to use and accessible for everyone.

Scope of the Project
The website will have the following key features:
- Donors can register and update their details, such as blood type, contact information, and last donation date.
- The system will automatically update the donation status of donors based on the time since their last donation.
- Blood seekers can search for available donors based on blood group and donation status.

The website will have two types of users:
1. **Donor Registration User**: Can register, update donation status, and see donation history.
2. **Blood Seeker User**: Can search for available donors and view their details.

Features
1. **Donor Registration**:

- o Donors can register by providing their name, contact number, blood type, last donation date, and gender.
2. **Automatic Status Update**:
   - o Donors will only need to update their **last donation date**. The system will automatically set the status to **"Eligible"** or **"Pending"** based on a minimum of 4 months between donations.
3. **Donor List with Filters**:
   - o Blood seekers can view a list of registered donors, and filter them by blood type and donation status.
4. **Search Functionality**:
   - o Blood seekers can search donors based on blood group and donation status.
5. **Countdown Timer for Next Donation:**
   - o For donors whose last donation was less than 4 months ago, the system will show a countdown to the next eligible donation date, with the status set as **"Recharging"**. Once the 4 months have passed, the countdown will stop, and the status will automatically update to **"Ready to Donate"**.
6. **Donation History:**
   - o Donors can view a history of their past donations, including the dates of each donation

Technologies Used

The website will be developed using the following technologies:

- **HTML**: To structure the website.
- **CSS**: To style the website and make it user-friendly.
- **JavaScript**: To add interactivity, such as searching, filtering, and updating donation statuses.
- **Backend (Optional)**: If required, a simple backend technology can be used to store donor information (e.g., using a local database or JSON files)

Expected Outcomes

By the end of the project, the website will:

- Allow blood donors to register, update their status, and view donation history.
- Provide blood seekers with an easy-to-use search tool to find available blood donors.
- Make the process of finding blood donors more organized and efficient

Conclusion

This blood donation management website will improve the process of donating and finding blood. It will allow donors to easily register and update their donation status, while seekers can quickly find donors based on blood type and donation eligibility. The website will contribute to saving lives and making blood donation more accessible.