

Life Stream

Online Blood Bank &
Donation Management System

Designed and Developed By

Abir Hasan Onowy

Roll: 1807095

Year: 3rd

Semester: 1st

Course No: CSE-3100

Course Title: Web Development Laboratory

Under the guidance of

Sunanda Das

Assistant Professor

CSE, KUET

Prottoy Saha

Assistant Professor

CSE, KUET

Objectives

1. To learn about web development
2. To learn about HTML, CSS, JS, PHP
3. To learn about front end and backend programming in web development
4. To learn about managing a database for website using PHP and MySQL

Introduction

Life Stream is a website designed for managing a Blood Bank, handle request of the customers and keep record of Donors. It allows a user(client) to see the amount of blood stored in our blood bank. User(client) can make request for blood supply through this web site. They can choose the nearest camp to receive blood. The donor can register and see their donation record from this website. Agents of Life Stream handles the request of clients and keep record of donors.

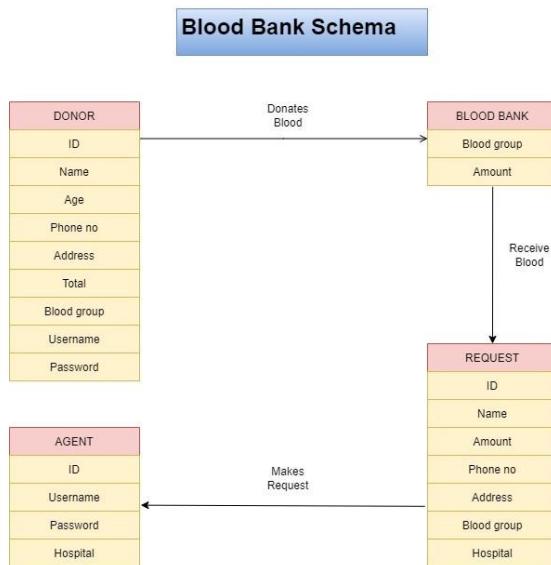
Language Used

1. HTML
2. CSS
3. JS
4. PHP
5. MySQL

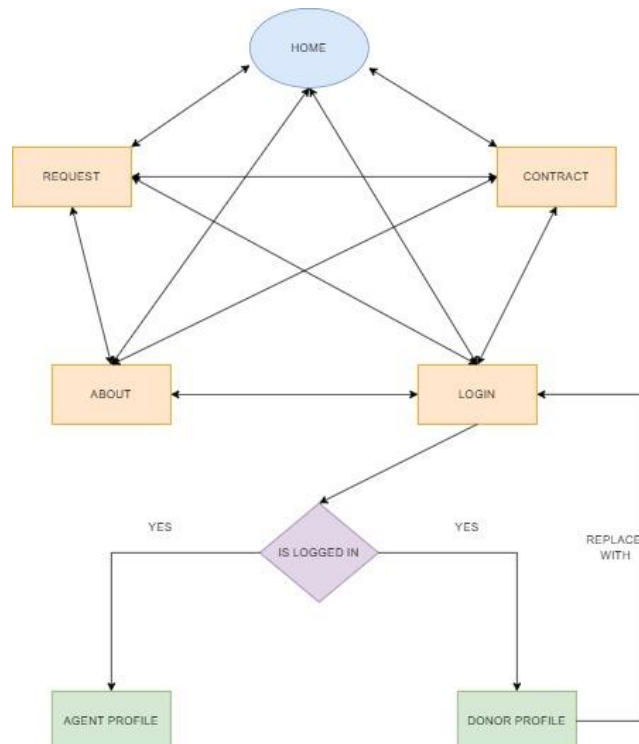
Software Used for Development

1. Browser: Google Chrome
2. Editor: Visual Studio Code (IDE)
3. Server: XAMPP

Schema



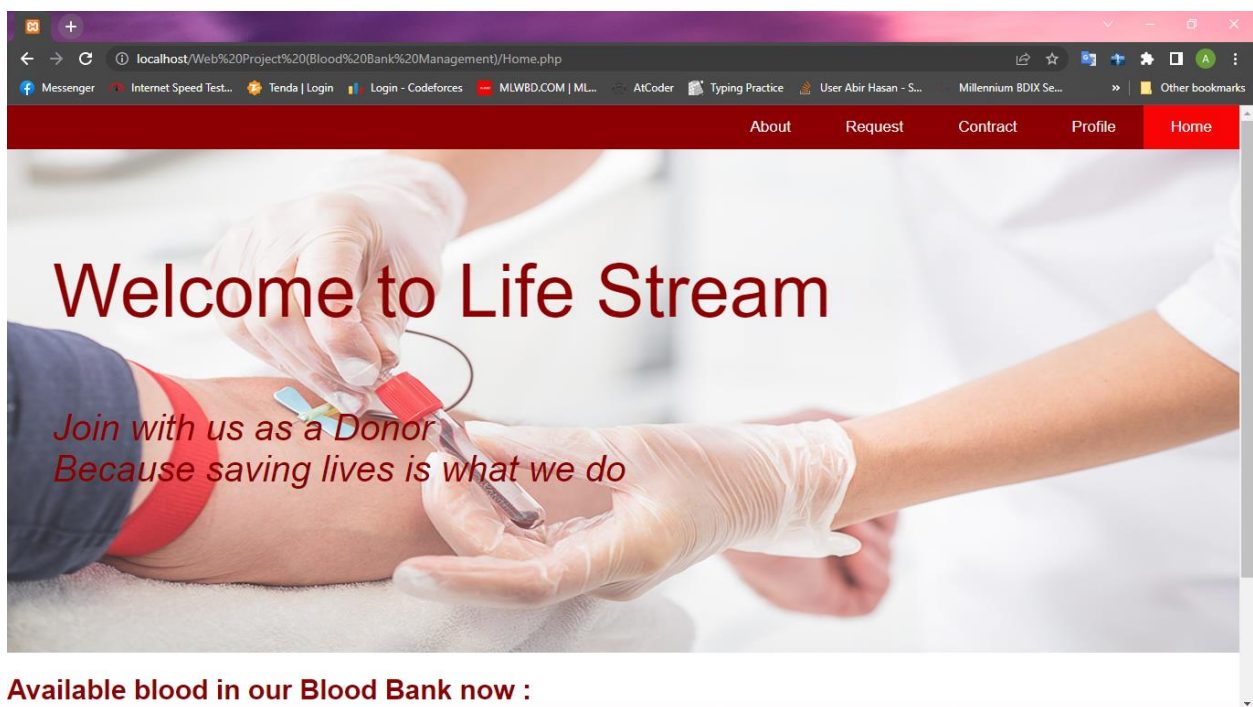
Flow Chart



Web Site Pages

Home Page

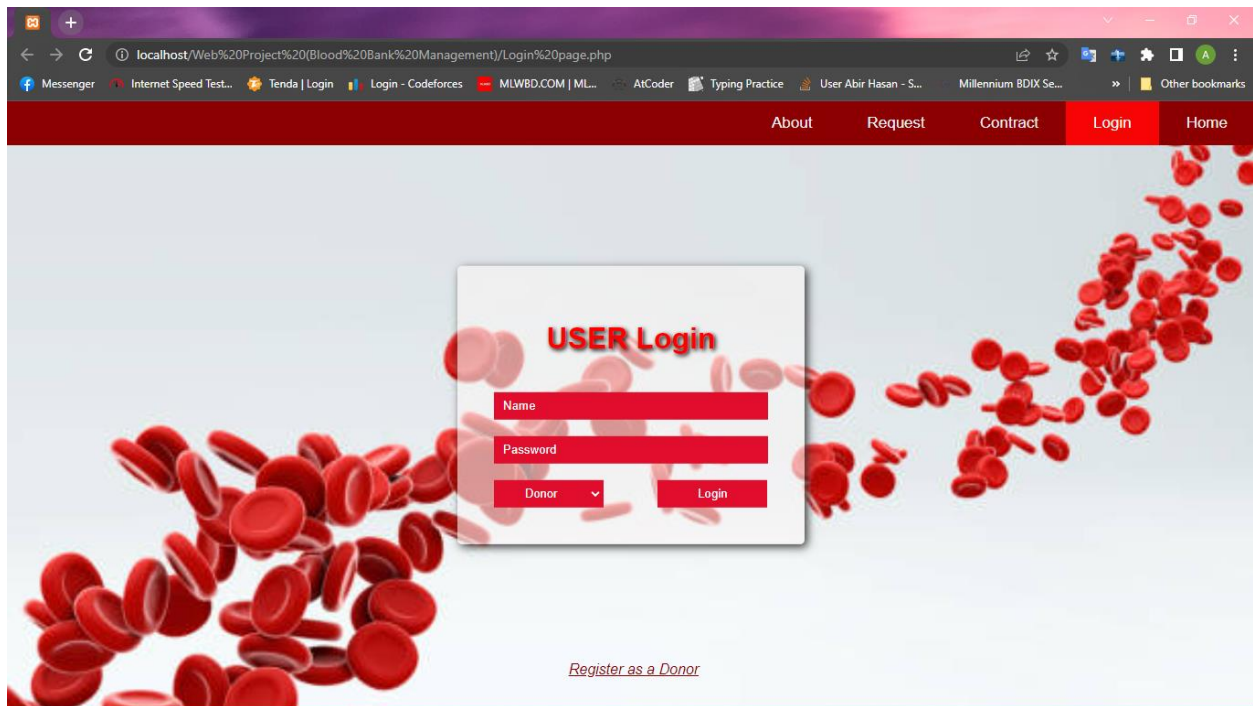
Home page is the welcome page for the users of the website. It contains some information of about the website, health tips, benefits of donation, amount of blood stored in the blood bank.



Login Page

Login page contains the login form for the Agents and Donors. Logging as donor directs donors to donor profile page where they can see their information. Logging as agent directs agents to agent profile page where they can see request for blood supply in their camp and insert donation

record of the donors. It also contains a link for registration for the new donors which directs them to the donor registration page.



Donor Registration Page

In this page, new donors can register a donor for Life Stream by inserting valid information.

The screenshot shows a web browser window with the URL `localhost/Web%20Project%20(Blood%20Bank%20Management)/donor_form.php`. The browser's address bar and tabs are visible. The website has a blue header with navigation links: [About](#), [Request](#), [Contract](#), [Login](#), and [Home](#). The main content area has a blue background with a white form titled "Register as a Donor". The form contains the following fields:

- Name :
- Age : Phone no :
- Address :
- Select Blood Type :
- User name :
- Password :

At the bottom of the form is a blue button labeled "Confirm".

Donor Profile Page

Here donors can see their personal information, total amount of donated blood. Also they can see message from Agents. There is a logout button so that they can logout from the website.

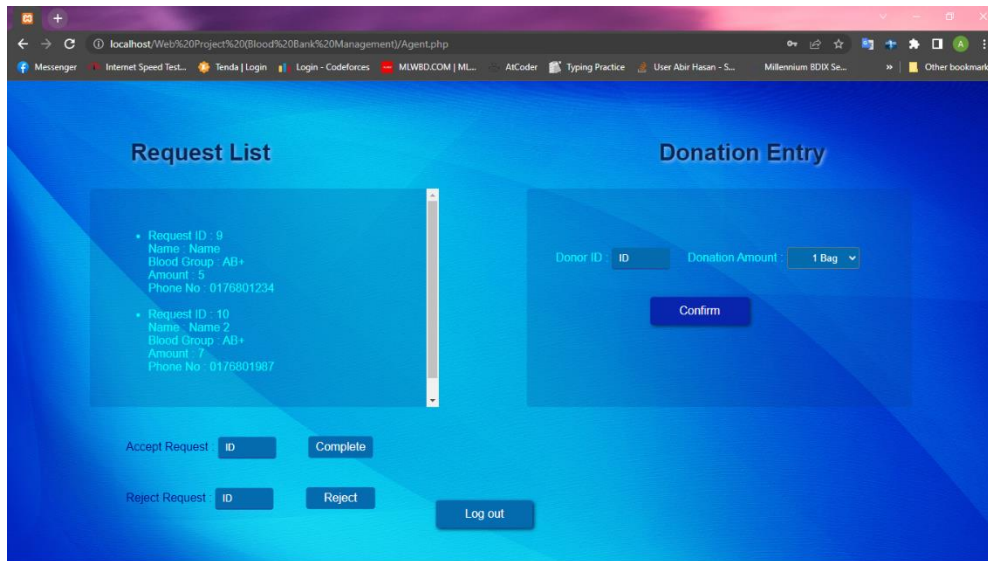
The screenshot shows the "Donor Profile Page" in a web browser. The URL is `localhost/Web%20Project%20(Blood%20Bank%20Management)/Donor%20info.php`. The browser's address bar and tabs are visible. The website has a blue header with navigation links: [About](#), [Request](#), [Contract](#), [Profile](#), and [Home](#). The main content area has a blue background with two white boxes:

- Donor Information**: A box containing the following information:
 - ID : 1
 - Name : Abir
 - Age : 23
 - Phone no : 01898765432
 - Address : khulna
 - Blood Type : O+
 - Total amount of blood donated : 15
- Messege from agent**: A box containing the message "Thank you for joining with us".

At the bottom of the page is a blue button labeled "Log out".

Agent Profile Page

From agent profile page, agents can accept or decline request of the clients and also insert donor donation into blood bank.



The screenshot displays a web application interface for an agent's profile. The page is divided into two main sections: "Request List" and "Donation Entry".

Request List: This section contains a scrollable list of requests. The first request is:

- Request ID : 9
- Name : Name
- Blood Group : AB+
- Amount : 5
- Phone No : 0176801234

The second request is:

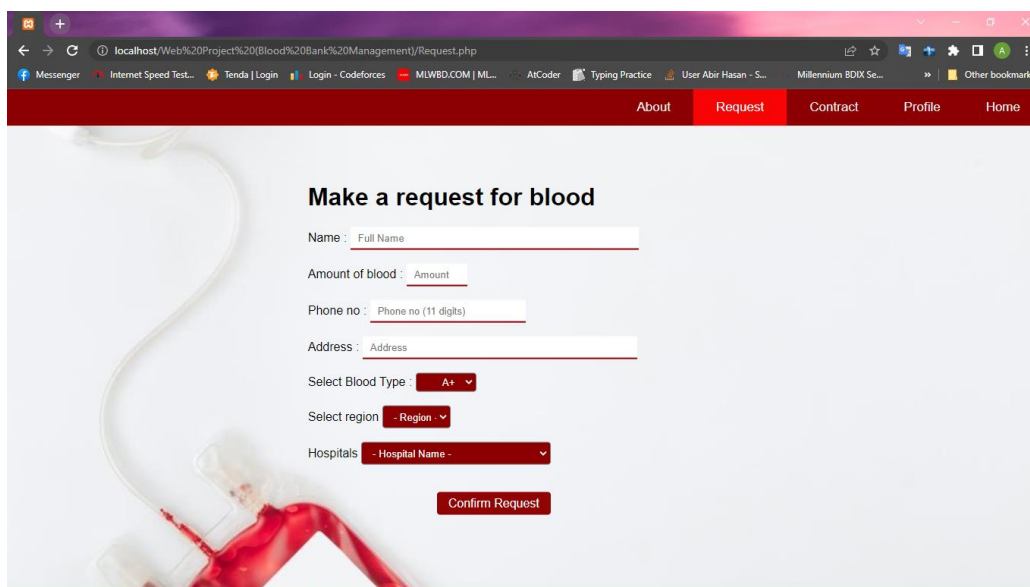
- Request ID : 10
- Name : Name 2
- Blood Group : AB+
- Amount : 7
- Phone No : 0170801987

Below the list, there are buttons for "Accept Request" and "Reject Request", each followed by an "ID" input field. A "Complete" button is also present. A "Log out" button is located at the bottom right of the section.

Donation Entry: This section features a form for entering a new donation. It includes a "Donor ID" input field and a "Donation Amount" dropdown menu currently set to "1 Bag". A "Confirm" button is positioned below the form.

Request Page

Request Page is for the clients to make request for blood supply through proper data input and select nearest camp.



The screenshot shows a web application interface for making a blood request. The page has a navigation bar with links: "About", "Request" (highlighted), "Contract", "Profile", and "Home".

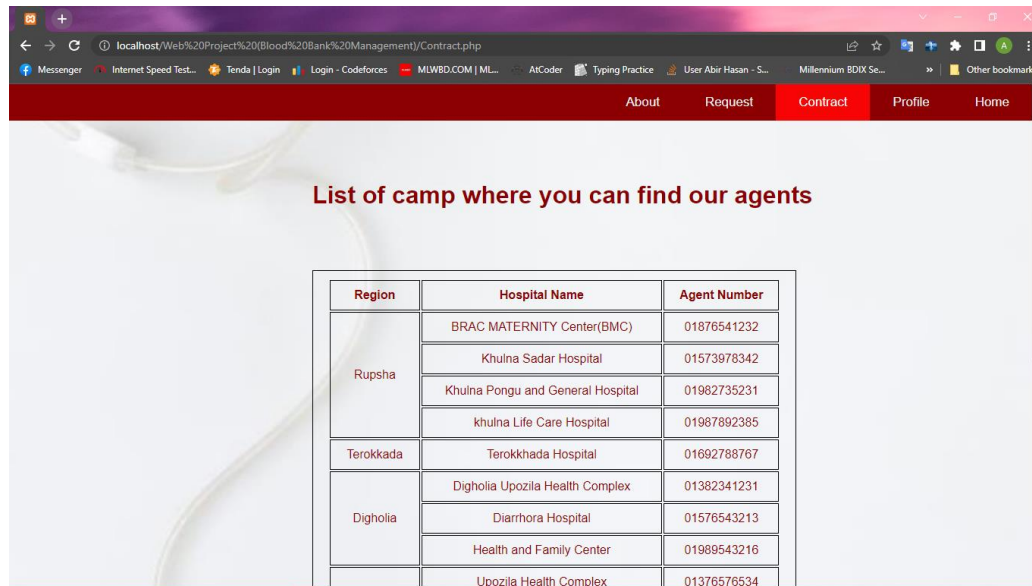
The main content area is titled "Make a request for blood" and contains a form with the following fields:

- Name : Full Name
- Amount of blood : Amount
- Phone no : Phone no (11 digits)
- Address : Address
- Select Blood Type : A+ (dropdown)
- Select region : Region (dropdown)
- Hospitals : Hospital Name (dropdown)

A "Confirm Request" button is located at the bottom of the form.

Contract Page

Here, users can see the camps where we have agents to interact with clients and donors.

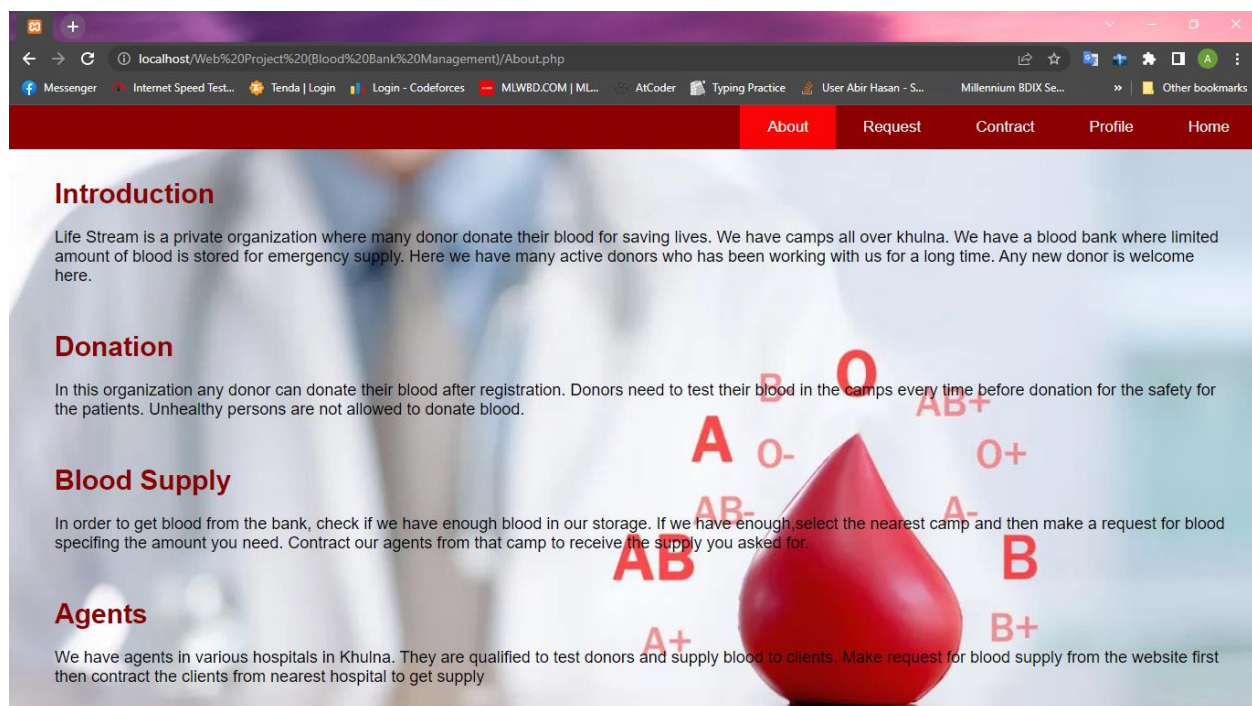


The screenshot shows a web browser window with the URL `localhost/Web%20Project%20(Blood%20Bank%20Management)/Contract.php`. The page has a navigation bar with links: About, Request, Contract (active), Profile, and Home. The main content area is titled "List of camp where you can find our agents" and contains a table with the following data:

Region	Hospital Name	Agent Number
Rupsha	BRAC MATERNITY Center(BMC)	01876541232
	Khulna Sadar Hospital	01573978342
	Khulna Pongu and General Hospital	01982735231
	khulna Life Care Hospital	01987892385
Terokkada	Terokkhada Hospital	01692788767
Digholia	Digholia Upozila Health Complex	01382341231
	Diarrhora Hospital	01576543213
	Health and Family Center	01989543216
	Upozila Health Complex	01376576534

About Page

In the about page, users can learn about Life Stream.



The screenshot shows a web browser window with the URL `localhost/Web%20Project%20(Blood%20Bank%20Management)/About.php`. The page has a navigation bar with links: About (active), Request, Contract, Profile, and Home. The main content area is titled "Introduction" and contains the following text:

Introduction

Life Stream is a private organization where many donor donate their blood for saving lives. We have camps all over khulna. We have a blood bank where limited amount of blood is stored for emergency supply. Here we have many active donors who has been working with us for a long time. Any new donor is welcome here.

Donation

In this organization any donor can donate their blood after registration. Donors need to test their blood in the camps every time before donation for the safety for the patients. Unhealthy persons are not allowed to donate blood.

Blood Supply

In order to get blood from the bank, check if we have enough blood in our storage. If we have enough, select the nearest camp and then make a request for blood specifying the amount you need. Contract our agents from that camp to receive the supply you asked for.

Agents

We have agents in various hospitals in Khulna. They are qualified to test donors and supply blood to clients. Make request for blood supply from the website first then contract the clients from nearest hospital to get supply

Target vs Achievement

I almost achieved all the targets for this website. I wanted to make the Home page look even better but I didn't get enough time. More features could be added but operation in server side was very complex .

Risk and Issues

The only problem is the clients can make request with fake information and make trouble for the agents and they can repeat request. Solving this problem is much hard.

Discussion and Conclusion

My main goal was to make a web site through which donors can register and see their information. Clients can easily make request and contract agents to get supply. Agents can easily handle request and inset donor donation info to database. It was hard to manage the server side. The most time consuming part was to design the website.

References

1. <https://www.w3schools.com>
2. <https://stackoverflow.com>
3. <https://www.youtube.com>