



Daffodil
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LIVE BLOOD DONOR FINDER

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A Project submitted in partial fulfillment of the requirement for the
degree of Bachelor of Science in Software Engineering

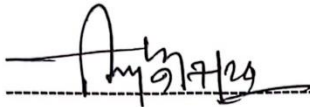
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APPROVAL

This thesis titled on “Live blood donor finder”, submitted by **Md. Nafiz Imam Zilani (ID: 193-35-2923)** to the Department of Software Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of Bachelor of Science in Software Engineering and approval as to its style and contents.

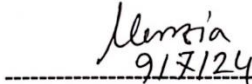
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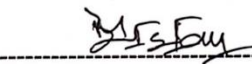
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DECLARATION

I hereby declare that I have taken this project under the supervision of Ms. Nusrat Jahan, Assistant Professor, Department of Software Engineering Daffodil International University. I also declare that I have submitted neither this project nor any part of it for award of any degree.


18.08.24

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Contents

LIVE BLOOD DONOR FINDER.....	i
APPROVAL.....	i
DECLARATION.....	ii
ACKNOWLEDGEMENT.....	iii
Chapter 1 – Introductions.....	1
1.1 Project Overviews.....	1
1.2 Project Purpose	1
1.3 Proposed System.....	1
Chapter 2 – Software’s Requirement Specifications	2
2.1 Feasibility Analysis.....	2
2.2 Technical Feasibility	2
2.4 Operational Feasibility.....	2
2.5 Functional Requirements	3
User:.....	3
Admin:	4
2.6 Non-Functional Requirements	5
2.7 Performance	5
Chapter 3 - Software Requirements Analysis and Specifications.....	6
3.1 Development Model.....	6
3.2 Use Case Diagram.....	6
3.3 Use Case Description.....	7
3.3.1 User - Sign-up.....	7
3.3.2 User - Login	8
3.3.3 User - Update personal data.....	9
3.3.4 User - Request for blood donation	10
3.3.5 User - View user/donor location	11
3.3.6 User - Accept/decline request.	12
3.3.7 User - User history	13
3.3.8 User - Review	14
3.3.9 User - Report.....	15
3.3.10 Admin – Log-in.....	16
3.3.11 Admin – User personal data	17

3.3.12 Admin – User history	18
3.3.13 Admin – See report	19
3.5 Activity Diagram.....	20
3.6 Sequence Diagram	24
Dashboard	24
Request for donation.	25
User review	26
Admin Dashboard	26
3.7 Entity Relationship Diagram.....	27
Chapter 4 - Development Tools and Technology.....	28
4.1 Integrated Development Environment.....	28
4.2 Programming Language.....	28
4.3 User Interface Design	28
4.4 Database.....	28
4.5 Deploy and Hosting.	28
4.6 API	28
Chapter 5 - Software Testing	29
5.1 Testing Feature.....	29
5.1.1 Feature to be Tested.	29
5.2 Testing Strategies	29
5.2.1 Testing Approach	29
5.2.3 Pass/Fail Criteria.....	29
5.2.3 Suspension and Redemption.....	30
5.2.4 Timeline for Testing.....	30
5.3 Test Cases.....	31
5.3.1 Test Case: Register.	31
5.3.2 Test Case: Login.....	33
5.3.3 Test Case: Update profile	34
5.3.4 Test Case: Request for blood donor	36
5.3.5 Test Case: Log Out.....	37
Chapter 6 – Software Using Guideline	38
6.1 Homepage	38
6.2 Registration.....	38

6.3 Login	39
6.4.1 Blood Request	39
6.4.2 Blood Request	40
6.4.3 Blood Request	40
6.4.4 Blood Request	41
6.5 Notification	41
6.6 Notification	42
6.7 Update Profile	42
6.8 History.....	43
6.9 Contact	43
6.10 About Us	44
Chapter 7 - Conclusion	45
7.1 Project Link.....	45
7.2 Limitation.....	45
7.3 Future Scope	45

Chapter 1 – Introductions

1.1 Project Overviews

This project is a health service application. Sometime in emergency medical situations we need a blood donor to donate blood. With the help of this application, we can search for nearby donor available from a request user. Like, a patient needs A+ blood in hospital. There is no blood available in the blood bank. With the help of this application patient relative a request for A+ blood donor available near him. The system first search from 500m. If the system doesn't find a donor, then it will extend the range of search. The system will continue the search until it finds a donor. After finding the donor/donors the system will show the donor/donors' live location on map. The request person can see the donor details to do communication to donate blood.

1.2 Project Purpose

In emergency medical situation some time we need blood for patient. At that time, we don't find any relatives/friends to donate. At that time, it gets hard to find a donor of matching blood type. To solve this problem. We have come with a solution. This propose system will help us to solve this problem. A user can create a request that he need this type of blood. Then the system will collect the user live location & then the system will search for donors near by that matches the blood type. A notification will be sent to the donor & if he accept the request user will see his location & can contact him. Also, the donor can view the request user live location.

1.3 Proposed System

Using live blood donor finder web application people can easily find their emergency blood easily. In this system people can find blood donor locations on a map. They can also see donor blood donation information where and when blood donor donate blood. Also see donor information. See donor blood type, request for blood. Blood donors accept or reject requests. When create a request donor agrees to donate blood donor can view the location and details of the requested person

Chapter 2 – Software's Requirement Specifications

2.1 Feasibility Analysis

In software engineering feasibility study analysis, the proposed project. It analyzes different areas: technical, operational, financial, market analysis. The Feasibility study analyzed if the project meets the proposed goals. It helps to analyze the risk factors and helps to improve the success rate. By doing this research a company can make a decision whether a project is feasible or not. In live blood donor finder web application is a health service web application. Sometime in emergency medical situations we need a blood donor to donate blood. With the help of this application, we can search for nearby doner available form a request user. It helps user without hassle free to find blood without manually.

2.2 Technical Feasibility

In technical feasibility analyzed the current resource to develop the project.

- Front end: HTML and CSS are the best solution to create a custom, user friendly & responsive user interface for a development project.
- Back end: For this project php and JavaScript have been use. php is a well reputed & secure technology. Also, JavaScript is a well technology to use for API solutions. Because, for Open Street Map we need to use its PAI.
- Database: For database MySQL is a reliable, light weight and flexible database to use.

Development tools: PHPStorm is one of the best IDE to develop php based project. It has all types of add on to develop a php project.

2.4 Operational Feasibility

- User registration & management:
User can use the system without hassle.
Also, without any problem use can manage his profile.
- Request for Blood donor:
The system has high availability to respond to a user fast.
Because it is an emergency system user won't face any intrastation
- Security:
User data is secure. low percentage of data solen.
- Terms and condition:
It is a health system. So, users need to be ethical so everyone can use it.
If any use without ethics legal action will be taken against the user

2.5 Functional Requirements

User:

FR1	Create account
Description	User can create account in this system using information.
Stakeholder	user

FR2	Log in
Description	User can login in the system using necessary credential.
Stakeholder	User

FR3	Upload personal data
Description	User can upload personal data such as blood type, phone number etc.
Stakeholder	User

FR4	Blood donation time
Description	Users can view when they can again donate blood after donation a time.
Stakeholder	User

FR5	Create a request for a blood donating
Description	User can create a request for blood donor if the blood type is matching.
Stakeholder	User

FR6	Accept / Decline blood donate request
Description	Users can accept/decline if they want to donate blood. Depend on user availability, location.
Stakeholder	User

FR7	Blood donation history
Description	Users can view his history of whom, when & where he donated blood. For both doner and receiver.
Stakeholder	User

FR8	Request Status
Description	Users can view the blood donor when create a request for a blood donation. When a user creates a request for blood donor, he can view the doner location & detail who have accepted.
Stakeholder	User

Admin:

FR10	Log in
Description	Admin can login to the system using necessary credential.
Stakeholder	Admin

FR11	Add another Admin
Description	Admin can create a new admin account for joining another admin control the system.
Stakeholder	Admin

FR12	Monitoring the web application
Description	Admin can analyze & monitor request, donation, which blood & which area etc. from dashboard
Stakeholder	Admin

FR12	View user details
Description	Admins can view user's personal information.
Stakeholder	Admin

FR12	Restrict user
Description	Admin can restrict a user from using the system for unusual activity.
Stakeholder	Admin

2.6 Non-Functional Requirements

FR	Performance
Description	Web application working least possible caseload
Stakeholder	Developer team

FR	Security
Description	For protect data should be use encryption
Stakeholder	Developer team

FR	Report
Description	Users can report to another user if the user is suspicious.
Stakeholder	User, Admin

FR	Give review
Description	Users can give review to another users.
Stakeholder	User

2.7 Performance

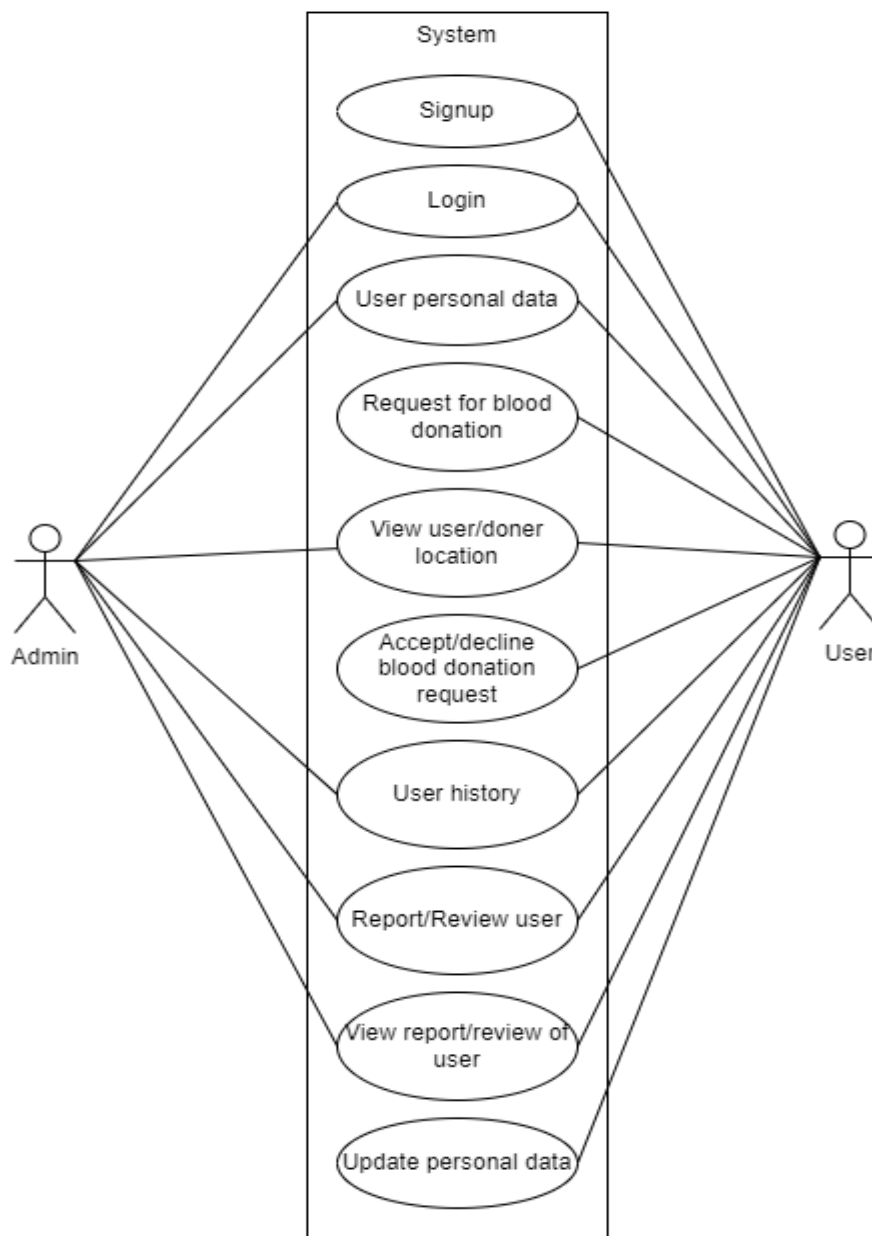
- The System Work without hassle free
- Suitable for any browser.
- If the internet connection is good the web application load faster

Chapter 3 - Software Requirements Analysis and Specifications

3.1 Development Model

When choosing development model prefer Agile model. Agile is a repetitive process. When a project starts using this step planning, implement test and review. After using this create a software component. After this move on to the next components. This way software is built up using different components. And delivered to customer. And get review. After getting review from the customer, you can also change any components according to customer review.

3.2 Use Case Diagram



3.3 Use Case Description

3.3.1 User - Sign-up

Use Case	Sign-up	
Goal	Users can create accounts in the web application. That's why they can use the system	
Precondition	Input all details they are necessary for signup. Those user don does not have an account	
Success end condition	Sign-up complete.	
Failed end condition	If a server-side failure arises the user cannot create an account. Or the user needs to provide the information that's needed.	
Primary actor	User	
Secondary actor		
Trigger	Users will press on "Sign-up" icon.	
Description	Step	Operation
	1	Web application shows "Sign-up" Page
	2	The user needs to provide the information needed.
	3	Press on "Sign-up" icon
	4	Signup complete.
Alternative flows	Step	Expanded Workflow
	1	If a server-side failure arises system show that
	2	System display alerts for missing information
Quality requirements	Step	Requirements

3.3.2 User - Login

Use Case	Log in	
Goal	Users can access the system by log-in	
Precondition	Input all details that are necessary for log-in And must have account	
Success end condition	Login complete	
Failed end condition	If a server-side failure arises or details are not matched User cannot login	
Primary actor	User	
Secondary actor	Admin	
Trigger	User will press on "Log-in" icon.	
Description	Step	Operation
	1	Web application shows “Log-in” Page
	2	The user needs to provide the information needed.
	3	Press on “Log-in” icon.
		“Log-in” complete.
Alternative flows	Step	Expanded Workflow
	1	If a server-side failure arises system show that
	2	System display alerts for missing information
Quality requirements	Step	Requirements

3.3.3 User - Update personal data

Use Case	Update personal data	
Goal	User can update their personal information	
Precondition	User must have web application log-in	
Success end condition	User can up to date their current information	
Failed end condition	If a server-side failure arises user cannot update their data or their information missing	
Primary actor	user	
Secondary actor		
Trigger	User will press on "Update profile" icon.	
Description	Step	Operation
	1	Web application shows user dashboard Page
	2	The user needs to provide the information needed.
	3	Press on “submit” icon.
	4	Update complete.
Alternative flows	Step	Expanded Workflow
	1	If a server-side failure arises system show that
	2	System display alerts for missing information or incorrect data
Quality requirements	Step	Requirements

3.3.4 User - Request for blood donation

Use Case	Request for blood donation	
Goal	User can find their emergency blood by search on map and request to donor for blood	
Precondition	User must have web application log-in	
Success end condition	User can find blood	
Failed end condition	If a server-side failure arises or missing any input field user cannot request for blood	
Primary actor	user	
Secondary actor		
Trigger	User will press on "Request" icon.	
Description	Step	Operation
	1	Web application shows user dashboard Page
	2	User will press on "Request" icon.
	3	Input blood group in search box
	4	Web application shows the matched blood group donor and their information in map.
	5	Press on donor location and Request for blood.
	6	Request complete
Alternative flows	Step	Expanded Workflow
	1	If a server-side failure arises system show that System
	2	System display alerts for reload
	3	Show Input blood group information that missing
Quality requirements	Step	Requirements

3.3.5 User - View user/donor location

Use Case	View user/donor location	
Goal	User can find their emergency blood on map	
Precondition	User must have web application log-in	
Success end condition	User can see the donor current location in map.	
Failed end condition	If a server-side failure arises or missing any information user can no view location	
Primary actor	user	
Secondary actor		
Trigger	User will press on "Request" icon.	
Description	Step	Operation
	1	Web application shows user dashboard Page
	2	User will press on "Request" icon.
	4	Input blood group in search box
	3	Web application shows donor location in map
	5	Web application shows the matched blood group donor and their information in map.
Alternative flows	Step	Expanded Workflow
	1	If a server-side failure arises system show that
	3	System display alerts for reload
	2	System display alerts for missing information
Quality requirements	Step	Requirements

3.3.6 User - Accept/decline request.

Use Case	Accept/decline request	
Goal	Request for donation blood	
Precondition	User must have web application log-in	
Success end condition	Able to request for blood donation	
Failed end condition	If a server-side failure arises user cannot accept or decline request	
Primary actor	User	
Secondary actor		
Trigger	User will press on "request" icon.	
Description	Step	Operation
	1	Web application shows user dashboard Page
	2	User will press on "request" icon.
	3	Input blood group in search box.
	4	Web application shows the matched blood group donor and their information in map.
	5	Press on donor location and Request for blood. In map there are show request button
	6	A notification goes to donor account.
	7	Donar can accept/decline request
Alternative flows	Step	Expanded Workflow
	1	If a server-side failure arises system show that
	2	System display alerts for reload
Quality requirements	Step	Requirements

3.3.7 User - User history

Use Case	User history	
Goal	User can see who donated blood was to whom	
Precondition	User must have web application log-in	
Success end condition	User will their blood donation history	
Failed end condition	If a server-side failure arises user cannot see history	
Primary actor	User	
Secondary actor		
Trigger	User will press on "History" icon.	
Description	Step	Operation
	1	Web application shows user dashboard Page
	2	User will press on "History" icon.
	3	User can see history
Alternative flows	Step	Expanded Workflow
	1	If a server-side failure arises system show that
	2	System displays alerts for reload
Quality requirements	Step	Requirements

3.3.8 User - Review

Use Case	Review	
Goal	User can review another user	
Precondition	User must have web application log-in	
Success end condition	write review to another user	
Failed end condition	If a server-side failure arises or missing review user cannot get review or give review other	
Primary actor	User	
Secondary actor		
Trigger	User will press on "History" icon.	
Description	Step	Operation
	1	Web application shows user dashboard Page
	2	User will press on "history" icon.
	3	User will Write review
	4	User will press on "submit" icon.
	5	review complete.
Alternative flows	Step	Expanded Workflow
	1	If a server-side failure arises system show that
	2	System displays alerts for reload.
Quality requirements	Step	Requirements

3.3.9 User - Report

Use Case	Report	
Goal	User can report another user	
Precondition	User must have web application log-in	
Success end condition	write review to another user	
Failed end condition	If a server-side failure arises or missing review user cannot get review or give review other	
Primary actor	User	
Secondary actor		
Trigger	User will press on "History" icon.	
Description	Step	Operation
	1	Web application shows user dashboard Page
	2	User will press on "history" icon.
	3	User will Write report
	4	User will press on "submit" icon.
	5	report complete.
Alternative flows	Step	Expanded Workflow
	1	If a server-side failure arises system show that
	2	System displays alerts for reload.
Quality requirements	Step	Requirements

3.3.10 Admin – Log-in

Use Case	Log in	
Goal	Admin can access the system by log-in	
Precondition	Input all details that are necessary for log-in	
Success end condition	Login complete	
Failed end condition	If a server-side failure arises or details are not matched User cannot login	
Primary actor	Admin	
Secondary actor	System	
Trigger	Admin will press on "Log-in" icon.	
Description	Step	Operation
	1	Web application shows “Log-in” Page
	2	The user needs to provide the information needed.
	3	Press on “Log-in” icon.
		“Log-in” complete.
Alternative flows	Step	Expanded Workflow
	1	If a server-side failure arises system show that
	2	System displays alerts for missing information
Quality requirements	Step	Requirements

3.3.11 Admin – User personal data

Use Case	User personal data	
Goal	Admin able to see user personal data	
Precondition	Admin must have web application log-in	
Success end condition	Admin successfully view user data and system show user data	
Failed end condition	If a server-side failure arises or details are admin don't put username admin cannot see user data	
Primary actor	Admin	
Secondary actor		
Trigger	Admin will press on "User" icon.	
Description	Step	Operation
	1	Web application shows Admin dashboard Page
	2	Admin will press on "User" icon.
	3	Admin input username
	4	System shows user information
Alternative flows	Step	
	1	If a server-side failure arises system show that
	2	System displays alerts for reload
	3	System show prompt to input username
Quality requirements	Step	

3.3.12 Admin – User history

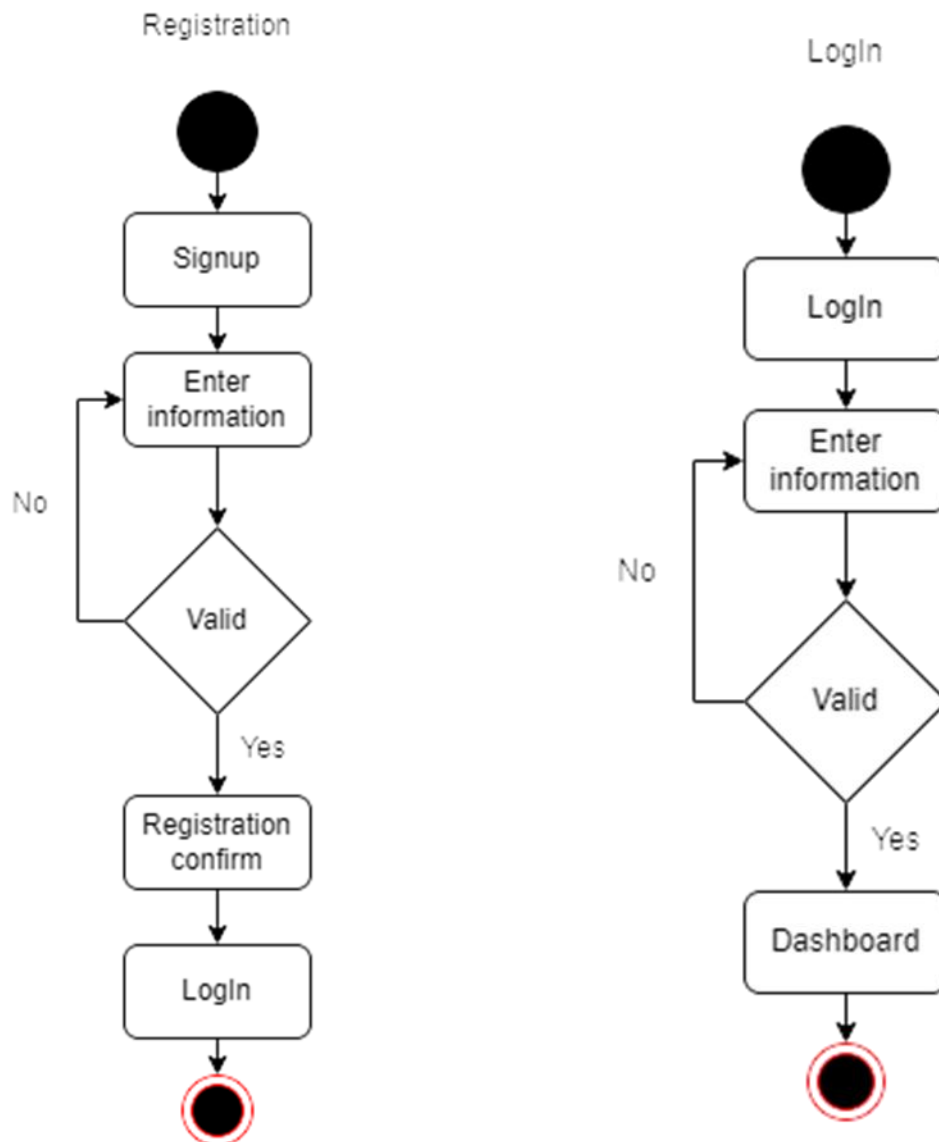
Use Case	User history	
Goal	Admin able to see user blood donation history	
Precondition	Admin must have web application log-in	
Success end condition	Admin able to view user blood donation history and system show that data	
Failed end condition	If a server-side failure arises or details are admin don't put username admin cannot see user data	
Primary actor	Admin	
Secondary actor		
Trigger	User will press on "History" icon.	
Description	Step	Operation
	1	Web application shows Admin dashboard Page
	2	Admin will press on "History" icon.
	3	Admin input username
	4	System shows user information
Alternative flows	Step	
	1	If a server-side failure arises system show that
	2	System displays alerts for reload
	3	System show prompt to input username
Quality requirements	Step	

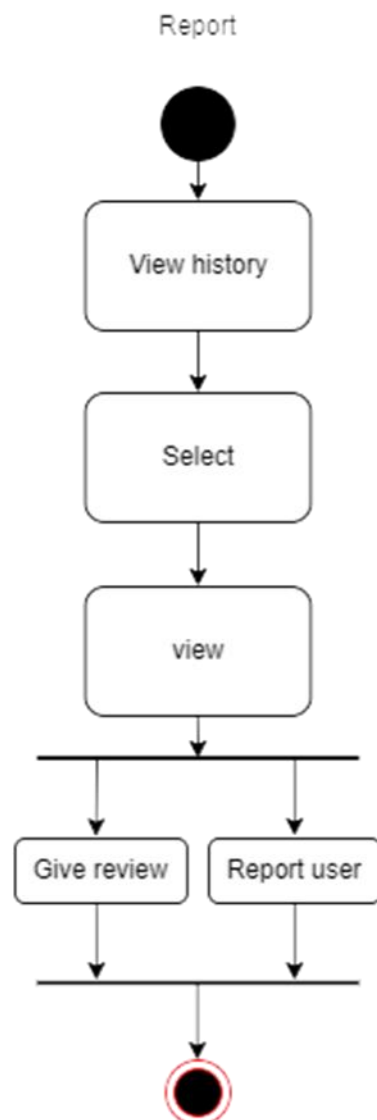
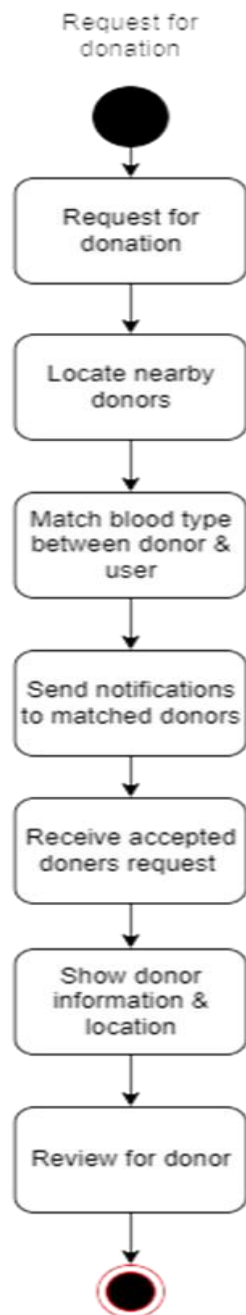
3.3.13 Admin – See report

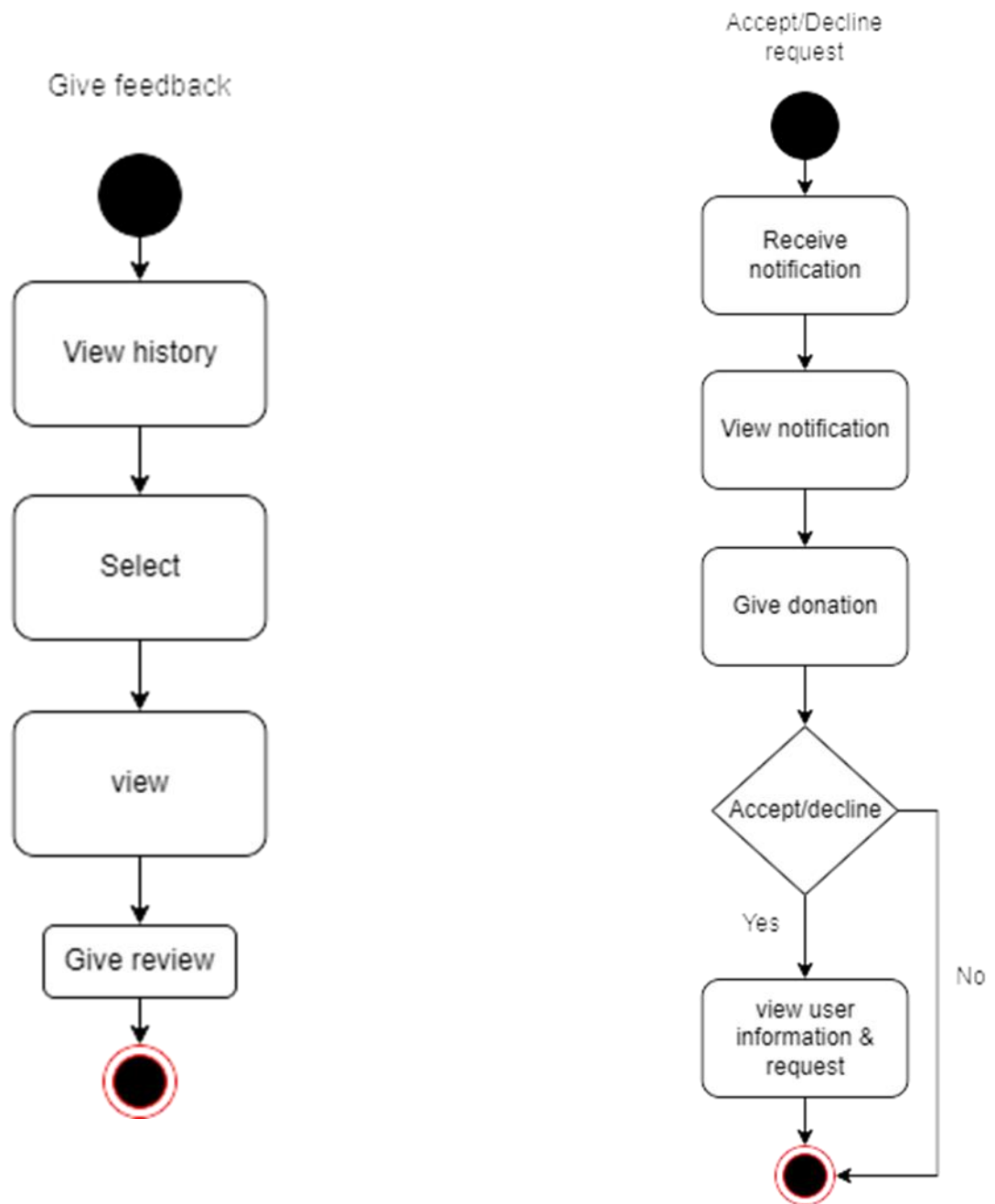
Use Case	See Report	
Goal	Admin able to see user report	
Precondition	Admin must have web application log-in	
Success end condition	Admin able to view user report and system show that data	
Failed end condition	If a server-side failure arises system don't show data	
Primary actor	Admin	
Secondary actor		
Trigger	Admin will press on "report" icon.	
Description	Step	Operation
	1	Web application shows Admin dashboard Page
	2	Admin will press on "report" icon.
	3	System shows user report
Alternative flows	Step	
	1	If a server-side failure arises system show that
	2	System displays alerts for reload
Quality requirements	Step	

3.5 Activity Diagram

For User

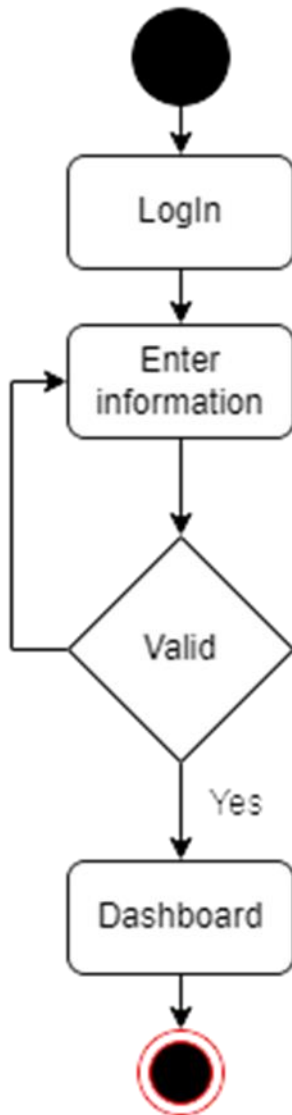




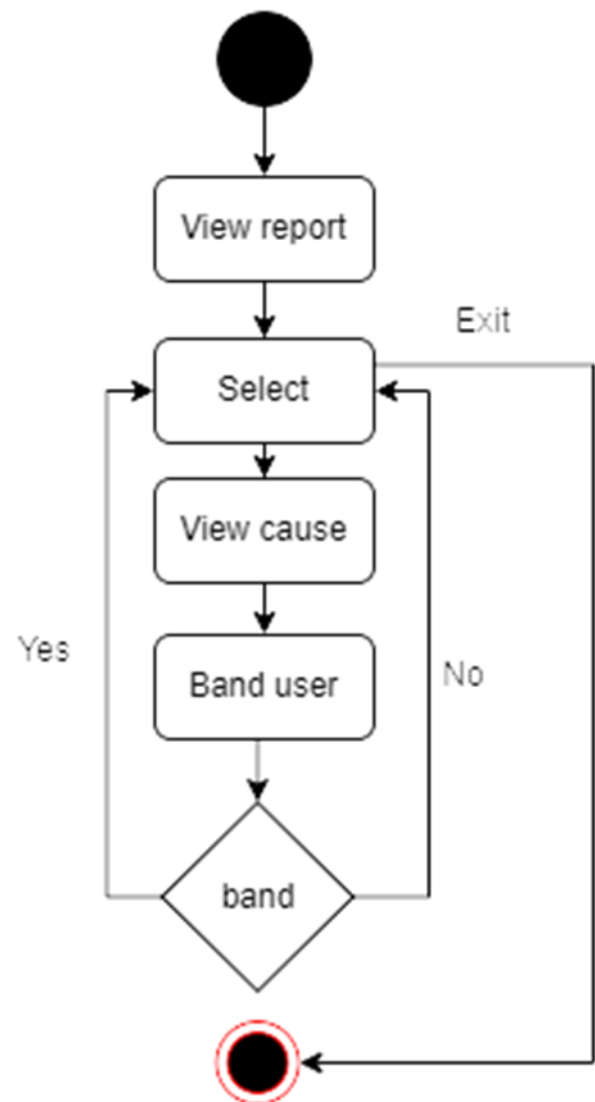


For Admin

Admin Login

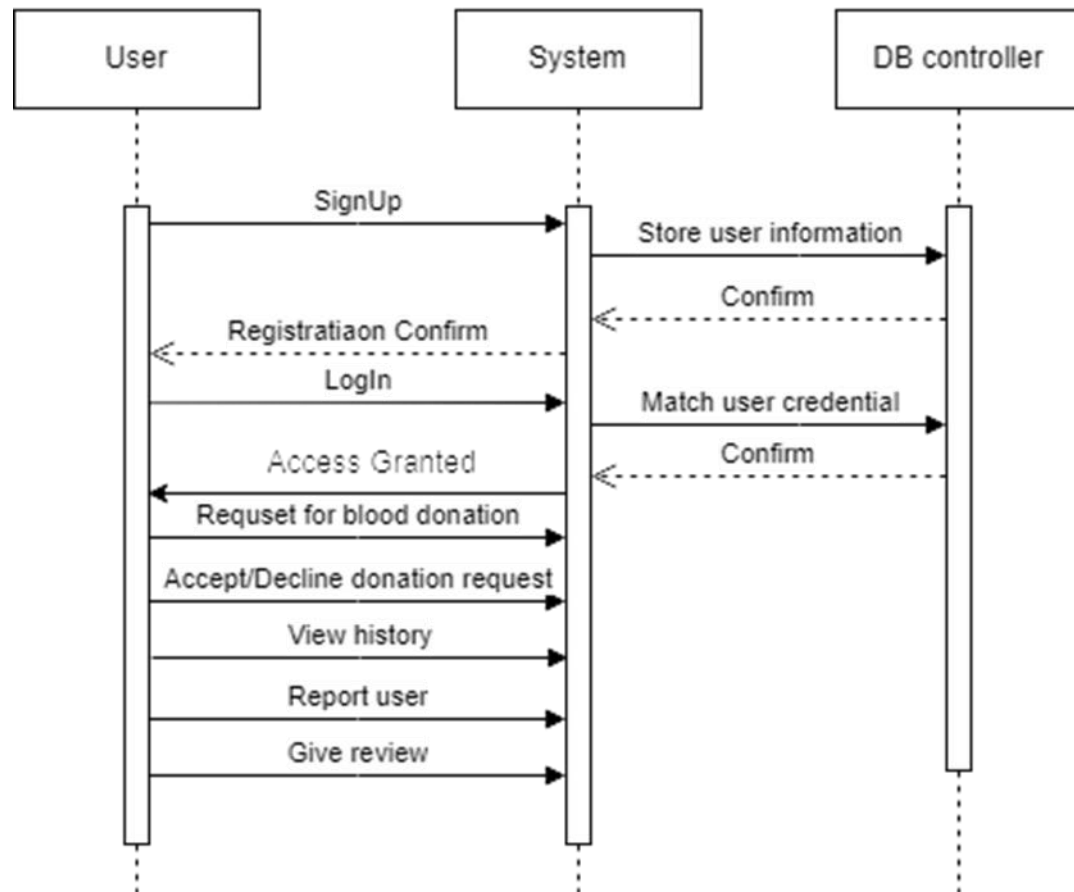


Band user



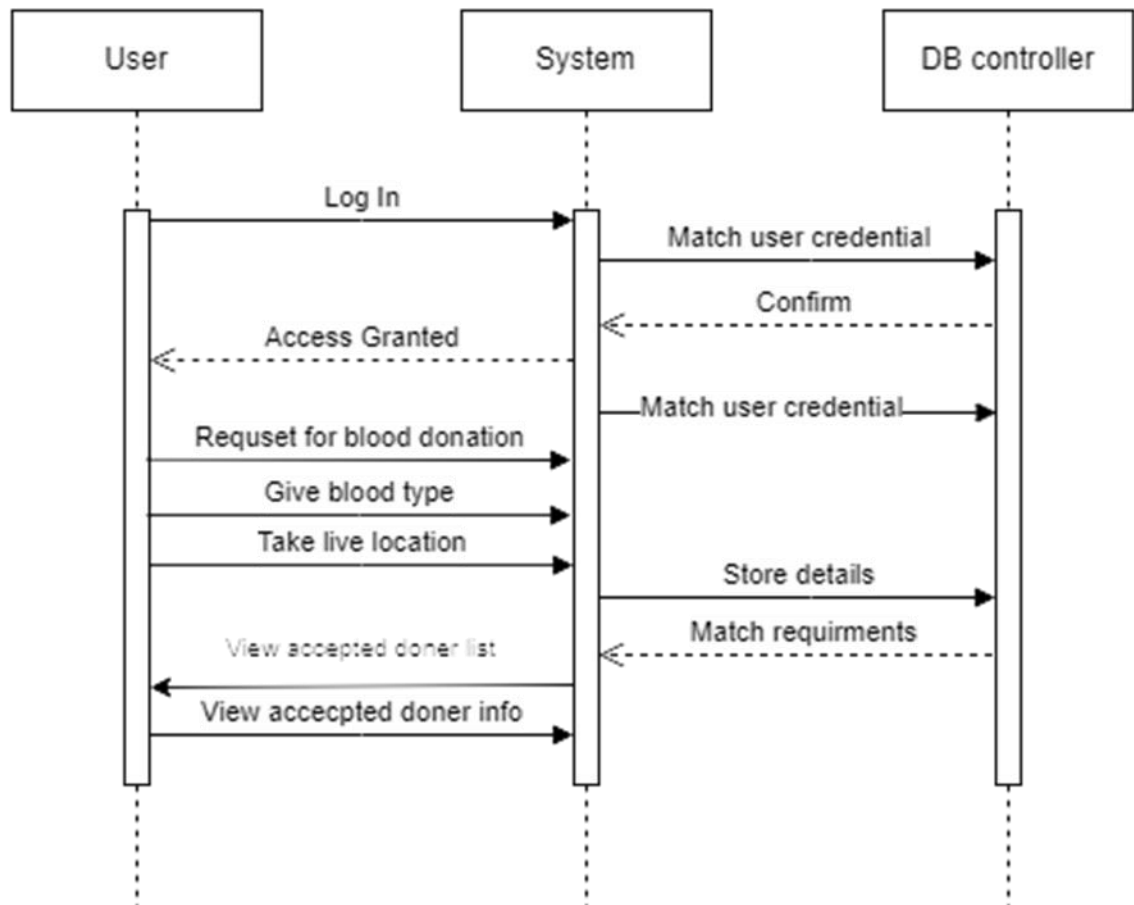
3.6 Sequence Diagram

Dashboard

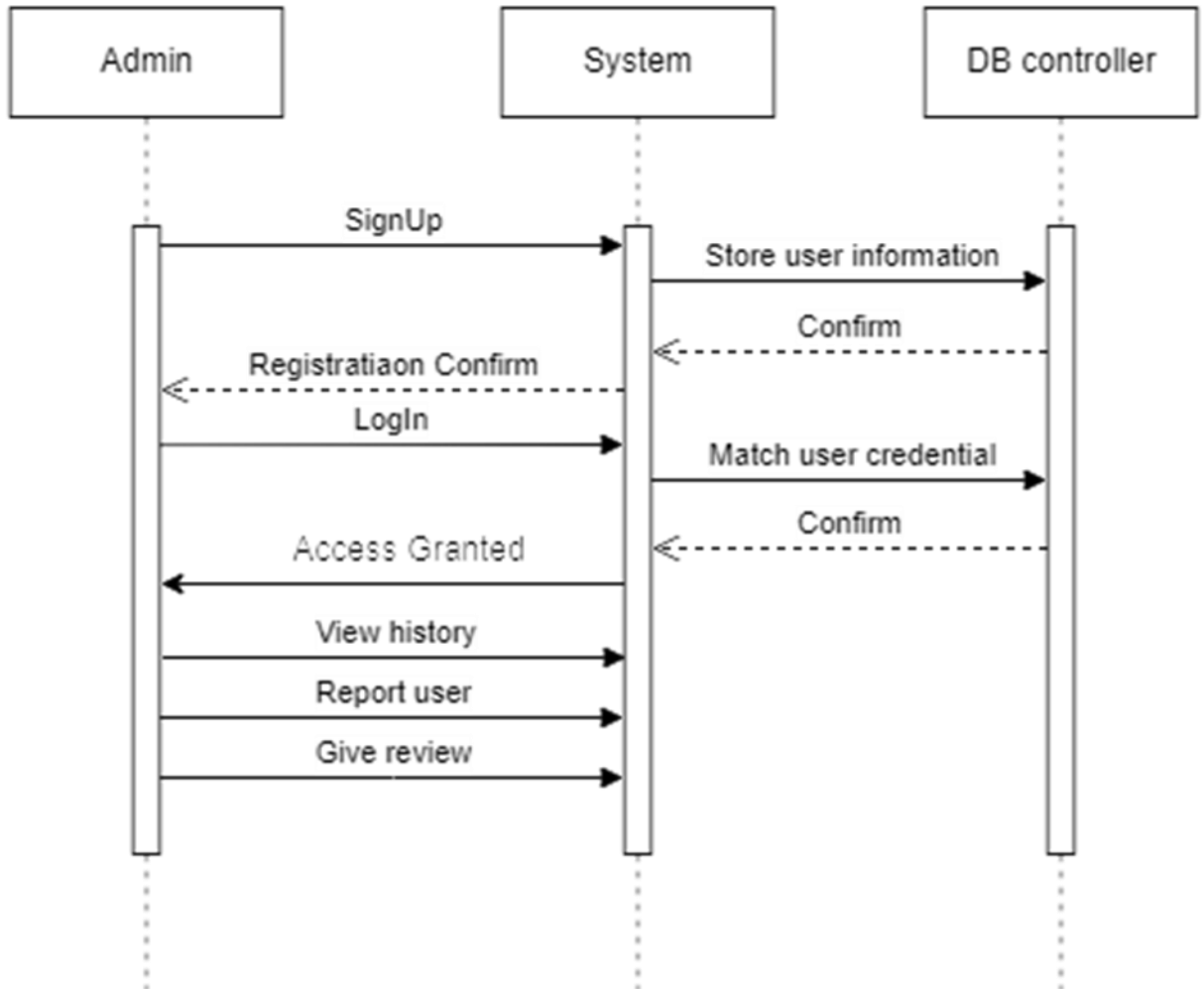


Request for donation.

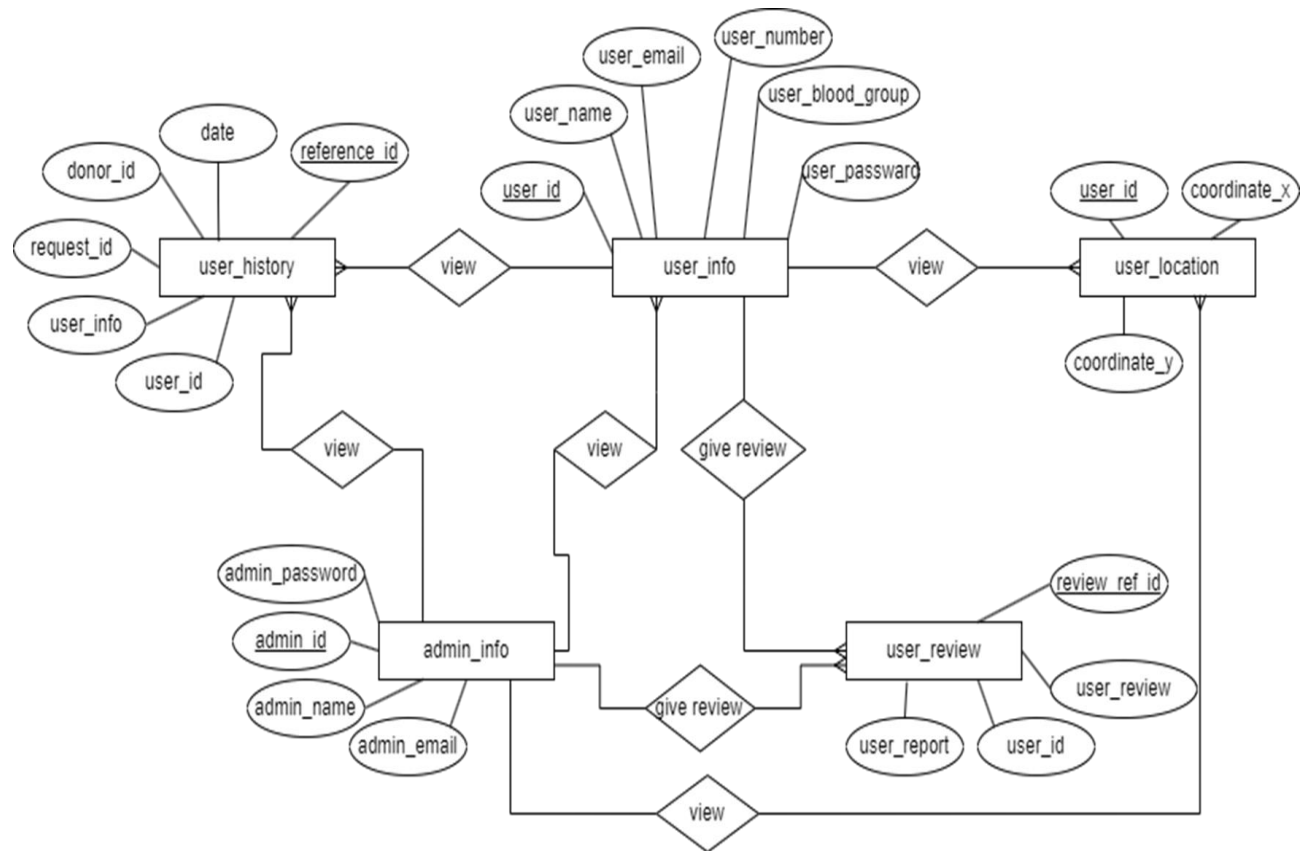
Request for Donation



User review
Admin Dashboard



3.7 Entity Relationship Diagram



Chapter 4 - Development Tools and Technology

4.1 Integrated Development Environment

For develop the web application I use PHP Storm and VsCode

4.2 Programming Language

PHP and JavaScript as the programming language.

4.3 User Interface Design

HTML5, CSS, Milligram (CSS Framework)

4.4 Database

My SQL For Database

4.5 Deploy and Hosting.

Deploy and host this web Application I use GitHub, Netlify.

4.6 API

OpenStreetMap , leafletjs

Chapter 5 - Software Testing

5.1 Testing Feature

5.1.1 Feature to be Tested.

1. Register
2. Log in.
3. Update profile.
4. Request for blood.
5. Review
6. Log out.

5.2 Testing Strategies

5.2.1 Testing Approach

1. Application underwent manual testing.
2. Validate using the acceptancy of the person using it

5.2.3 Pass/Fail Criteria

1. **Component pass/Fail criteria** – the testing pass when the requirement meets the requirements or fail if not.
2. **Integration Pass/Fail criteria** - the testing pass when the requirement meets the requirements or fail if not.
3. **System Pass/Fail criteria** - the testing pass when the requirement meets the requirements or fail if not.

5.2.3 Suspension and Redemption

1.Design an Acceptance Test: The infrastructure as an entire ought to pass the test when every build is successful; otherwise not, attempt it once more.

2. Maintenance Testing: Any time a system modification is made, it must still operate properly.

3. The System After Design Modifications: The entire infrastructure is to work as planned after every design modification.

5.2.4 Timeline for Testing

Step of testing	duration	profiter
Design of test plans	weeks 2	omar
Developing test specifications	weeks 3	omar
Examination the test specification team	weeks 4	omar
Examination of components	weeks 5	omar
Examining integration	weeks 6	omar
Examination of system	weeks 7	omar

5.3 Test Cases

5.3.1 Test Case: Register.

Test Case: Register					Test Case Name: Register			
System: Live blood donor finder					Subsystem: N/A			
Designed By: Nafiz					Designed Date:			
Executed By: Nafiz					Execution Date:			
Description: User must provide username, email, phone number, blood group and password for register								
Pre-condition: Must give input to the input field.								
Step	user name	Email	Phon number	blood group	Password	Response	Pass/ Fail	Comme nt
1	nafiz	nafiz@ghost.com	01700690703	A+	123456	Register accepts	Pass	Register successful
2		nafiz@ghost.com	01700690703	A+	123456	Name field empty	Fail	User must input a username
3	nafiz		01700690703	A+	123456	Email field empty	Fail	User must input an Email
4	nafiz	nafiz@ghost.com		A+	123456	Phone number field emty	Fail	User must input a phone number
5	nafiz	nafiz@ghost.com	01700690703	A+		Password field empty	Fail	User must input a password

6	nafiz	nafiz@ghost.com	017006907033	A+	123456	Phone number invalid	Fail	User must input a valid number
7	nafiz	nafiz@ghost	01700690703	A+	123456	Email not valid	fail	User must input a valid email
8	nafiz	nafiz@ghost.com	01700690703	C+	123456	Blood group not valid	Fail	User must input a valid Blood group
Post-condition: Registration success								

5.3.2 Test Case: Login

Test Case: Log-in				Test Case Name: Login	
System: Live blood donor finder				Subsystem: N/A	
Designed By: Nafiz				Designed Date:	
Executed By: Nafiz				Execution Date:	
Description: User must provide username, and password for login					
Pre-condition: Must give input to the input field.					
Step	Username	Password	Response	Pass/Fail	Comment
1	nafiz	123456	Log in accepts	Pass	Login successful
2		123456	Username field empty	Fail	User must input username
3	nafiz		Password field empty	Fail	User must input a password
4	nafiz	123458	Password not matched	Fail	User must input a valid password
5	omar@ghost.com	123456	username not matched	Fail	User must input a valid username
Post-condition: Login success					

5.3.3 Test Case: Update profile

Test Case: Register					Test Case Name: Register				
System: Live blood donor finder					Subsystem: N/A				
Designed By: Nafiz					Designed Date:				
Executed By: Nafiz					Execution Date:				
Description: User must provide all input field which data want to update Users must provide username, email, phone number, blood group and password for register.									
Pre-condition: user must log in and must give input to the input field. And must be on update profile page. Click on submit icon.									
Step	user nam e	Email	Phon number	blood group	Password	Submit icon	Response	Pass/ Fail	Comm ent
1	nafi z	nafiz @gho st.co m	017006 90703	A+	123456	clicked			
2	ima m	nafiz @gho st.co m	017006 90703	A+	123456	clicked	Username updated	pass	Update success ful
3	nafi z	nafiz @gho st.co m	017006 90703	A+	123456	clicked	Username is same	Fail	User must input a new userna me
4	nafi z	imam @gho st.co m	017006 90703	A+	123456	clicked	Email updated	pass	Email Update success ful
5	nafi z	nafiz @gho st.co m	017006 90703	B+	123456	clicked	Blood group updated	pass	Blood group Update success ful

6	nafiz	nafiz@ghost.com	01700690703	C+	123456	clicked	Blood group did not update its not valid	Fail	User must input a valid blood group
7	nafiz	nafiz@ghost	017006907033	A+	123456	clicked	Phone number not valid	fail	User must input a valid phone number
8	nafiz	nafiz@ghost	01700690703	A+	123456	clicked	Blood group same and it's not updated	fail	User must input a valid blood group
8	nafiz	nafiz@ghost.com	01700690703	A+	1234568	clicked	Password updated	pass	Password update successful
Post-condition: update profile success									

5.3.4 Test Case: Request for blood donor

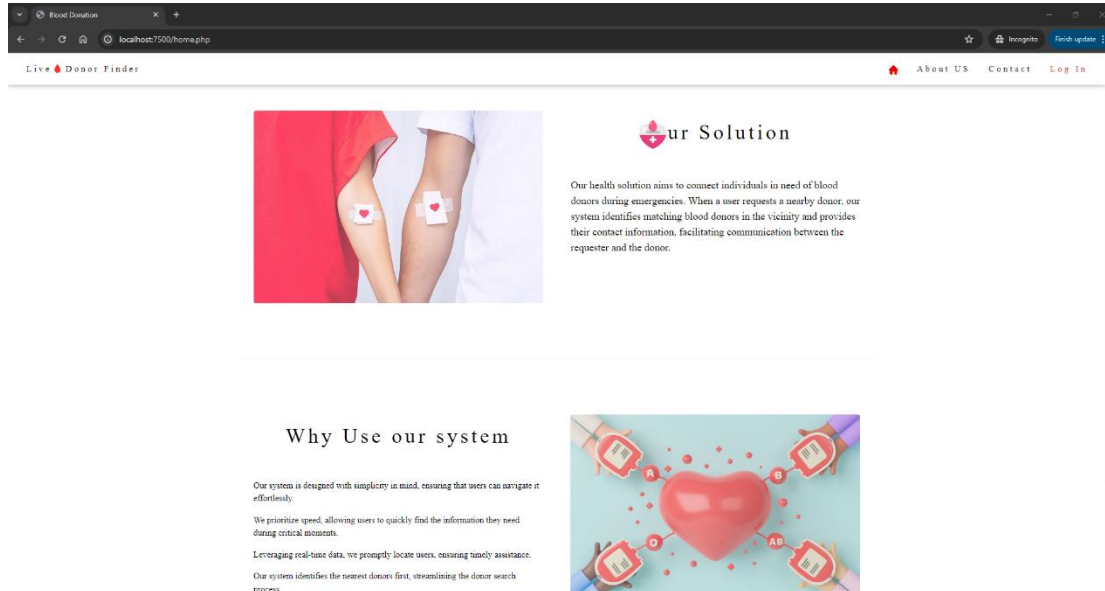
Test Case: Request for blood				Test Case Name: Request for blood	
System: Live blood donor finder				Subsystem: N/A	
Designed By: Nafiz				Designed Date:	
Executed By: Nafiz				Execution Date:	
Description: For finding blood in map					
Pre-condition: user must log in and must give input blood group					
Step	Blood group	Submit icon.	Response	Pass/Fail	Comment
1	A+	Clicked	Matched blood group show on map	Pass	Blood group show on map successful
2	C+	clicked	Invaidd blood group	Fail	User must input a valid blood group
3	A+	Not clicked	Map is not loading	Fail	User must click on submit icon
Post-condition: Request for blood success					

5.3.5 Test Case: Log Out.

Test Case: 5.3.4			Test Case Name: Log out	
System: Fuel Delivery Web application			Subsystem: N//A	
Designed By: Nafiz			Design Date:	
Executed By: Nafiz			Execution Date:	
Description: Exit from web application				
Pre-condition: Must click on the “Log out.”				
Step	Click	Response	Pass/Fail	Comment
1	Clicked	Logout successful	Pass	Logout successful
2	Not clicked	No response	Fail	Session continues
Post-condition: Show order form				

Chapter 6 – Software Using Guideline

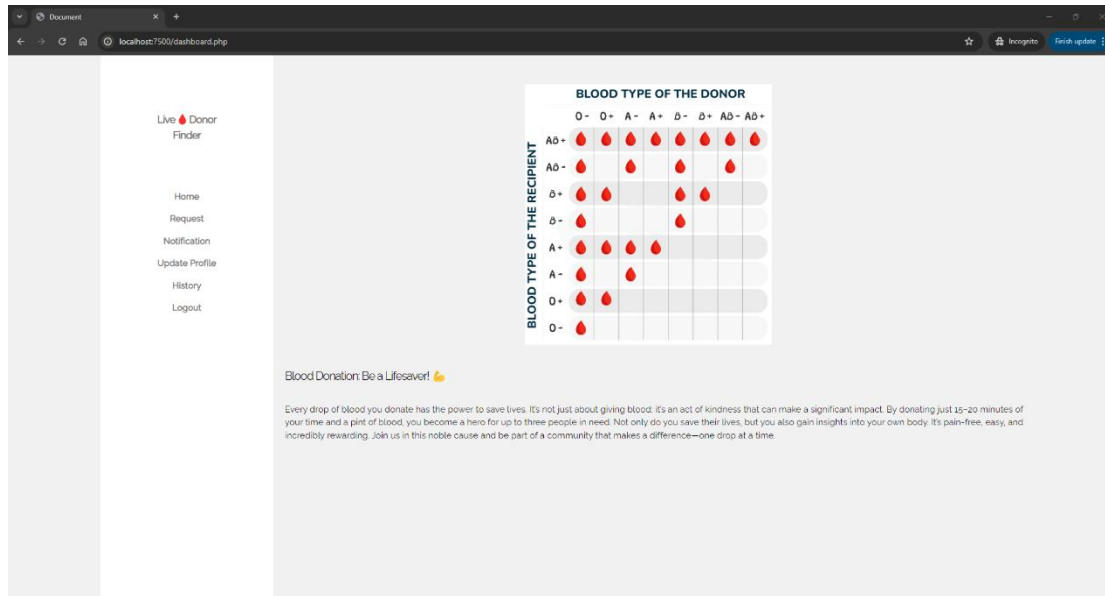
6.1 Homepage



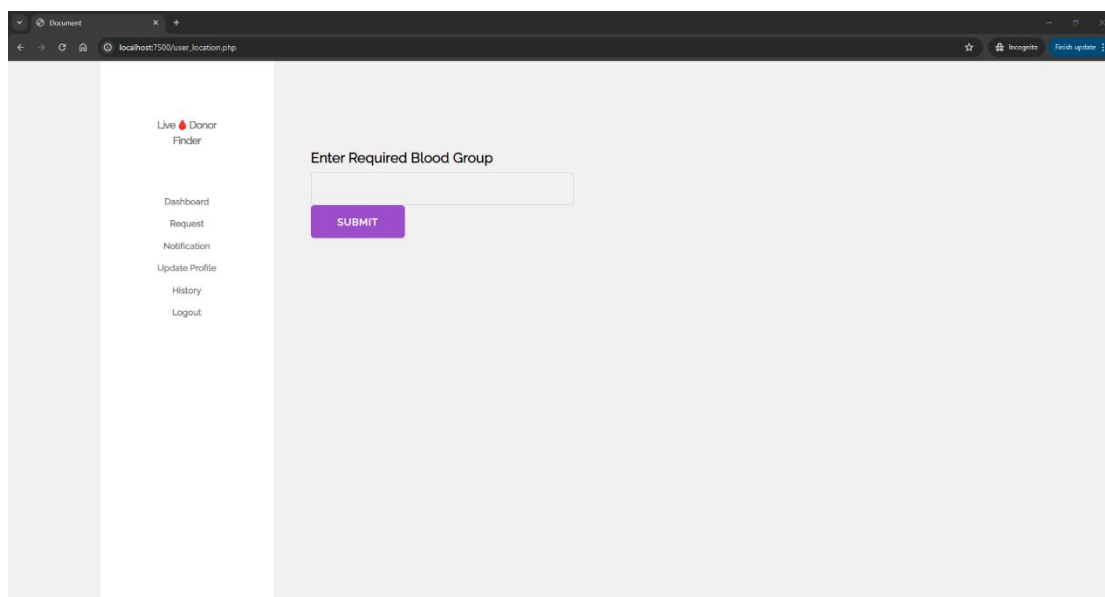
6.2 Registration

The screenshot shows a web browser window with the address bar displaying 'localhost:7500'. The page title is 'Live Blood Donation'. The main content area features a registration form with the following fields: 'Name' (with a placeholder 'User Name'), 'Email' (with a placeholder 'Email Address'), 'Blood Group' (with a placeholder 'Blood Group(EK, A+)'), 'Phone Number' (with a placeholder '+8801756...'), and 'Password' (with a placeholder 'Password'). Below the form are two buttons: a purple 'Register' button and a 'Log In' link.

6.3 Login



6.4.1 Blood Request



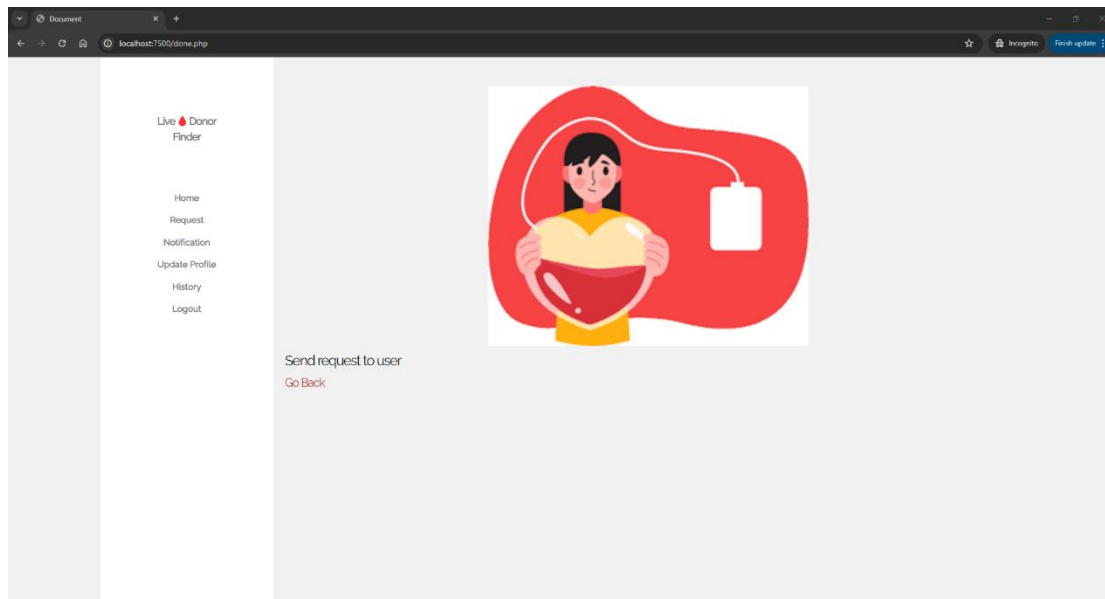
6.4.2 Blood Request

The screenshot shows a web browser window with the address bar displaying 'localhost:7500/request.php'. The page has a sidebar on the left with the following menu items: 'Live Donor Finder', 'Dashboard', 'Request', 'Notification', 'Update Profile', 'History', and 'Logout'. The main content area features a map of a city with several red location pins. A white information box is overlaid on the map, containing the text 'Ghost3', the phone number '+8814759332437', and a purple 'REQUEST' button. Above the map, there is a form with the label 'Enter Required Blood Group', a text input field, and a purple 'SUBMIT' button.

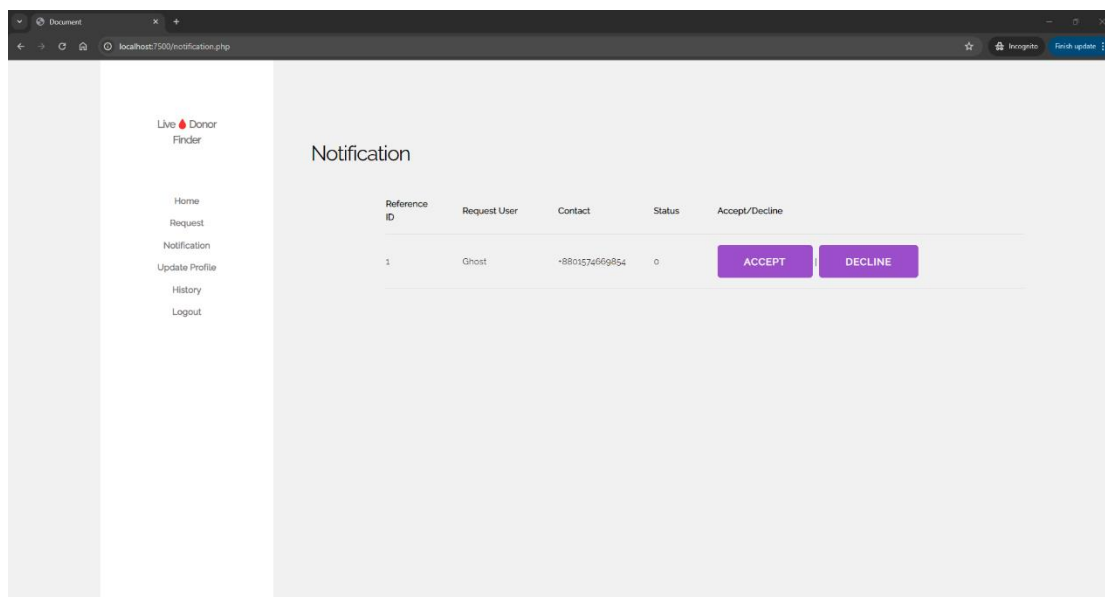
6.4.3 Blood Request

The screenshot shows a web browser window with the address bar displaying 'localhost:7500/response.php'. The page has the same sidebar as the previous screenshot. The main content area displays a 'User Info' section with the following fields: 'Name' (containing 'Ghost3') and 'Phone Number' (containing '+8814759332437'). Below these fields are two buttons: a purple 'REQUEST' button and a 'Cancel' link.

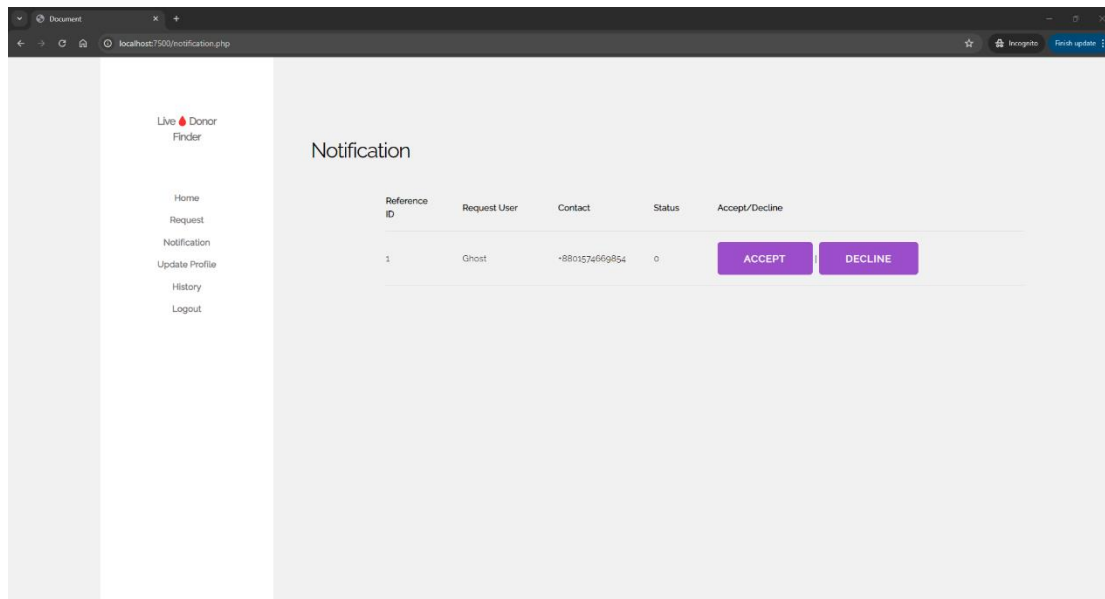
6.4.4 Blood Request.



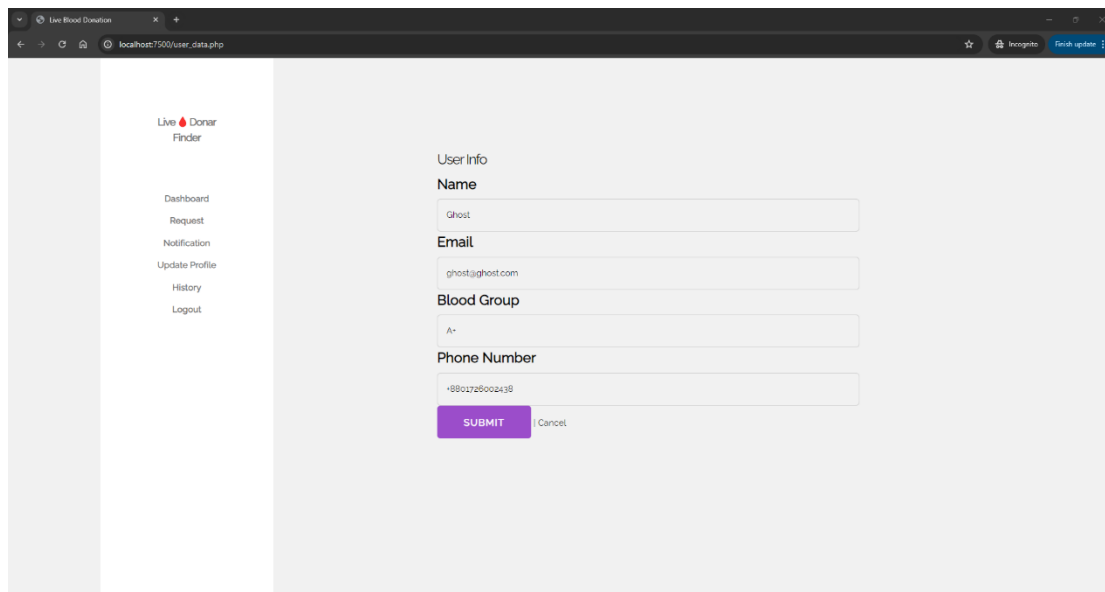
6.5 Notification



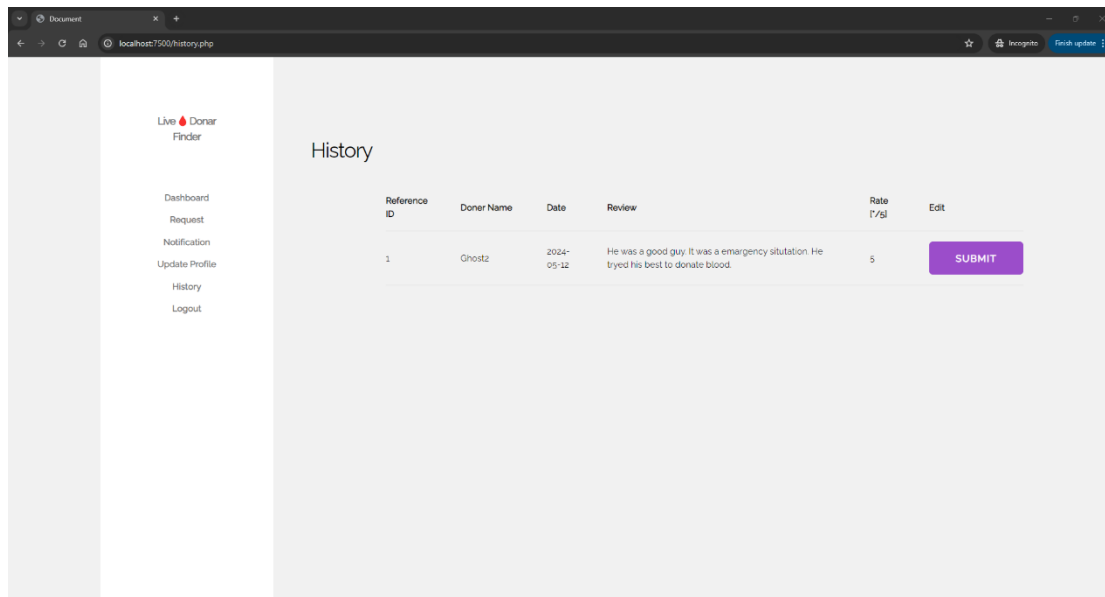
6.6 Notification



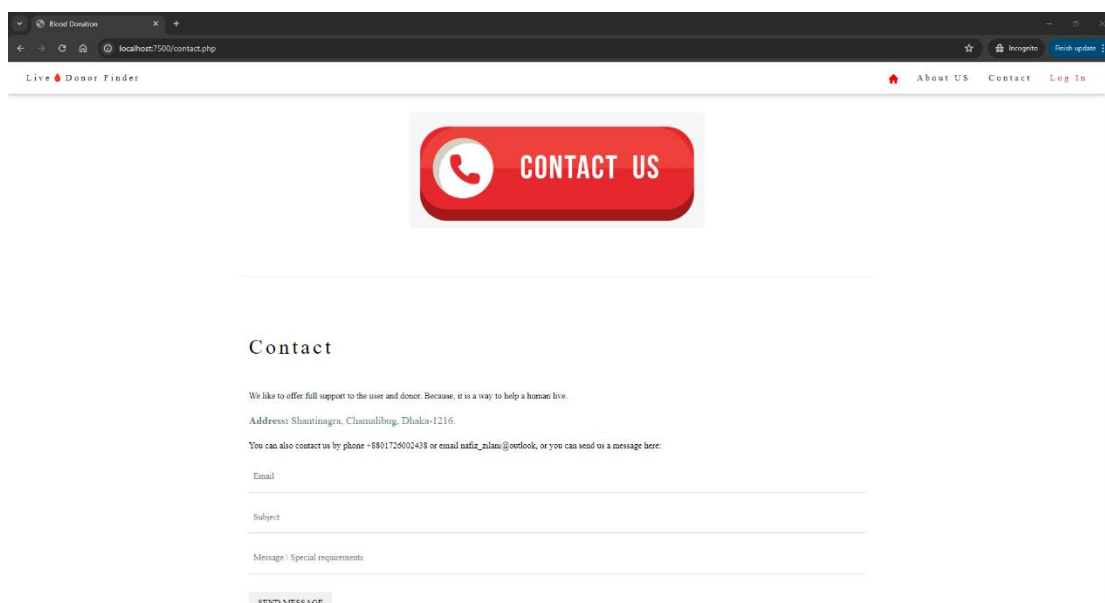
6.7 Update Profile



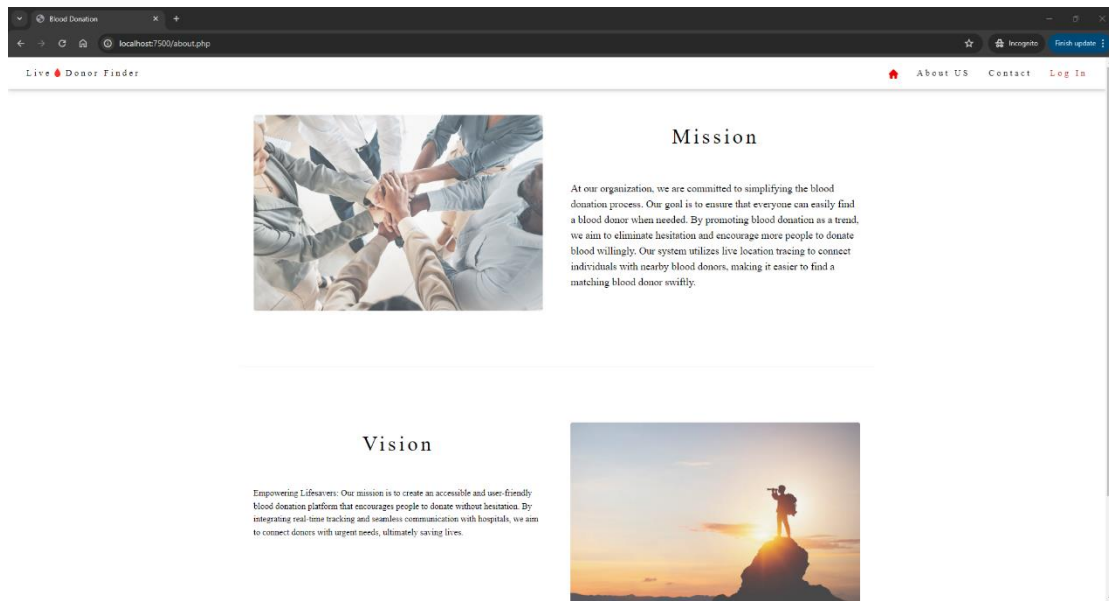
6.8 History



6.9 Contact



6.10 About Us



Chapter 7 - Conclusion

7.1 Project Link

https://github.com/Nafiz-Zilani/live_blood_donor_finder.git

7.2 Limitation

- Donor can't cancel once accept request.
- In rural areas sometime there can be no users. So, users can't find any donor at that time.
- Can't yet add the range system to find a doner form a fix range to a user.

7.3 Future Scope

- Add portal for hospitals, clinic & community to request for donor.
- Event for community to create interest on donating blood.
- Make front end for user friendly.
- Make a booking system so the user can book some donor to donate blood on a surgical day.

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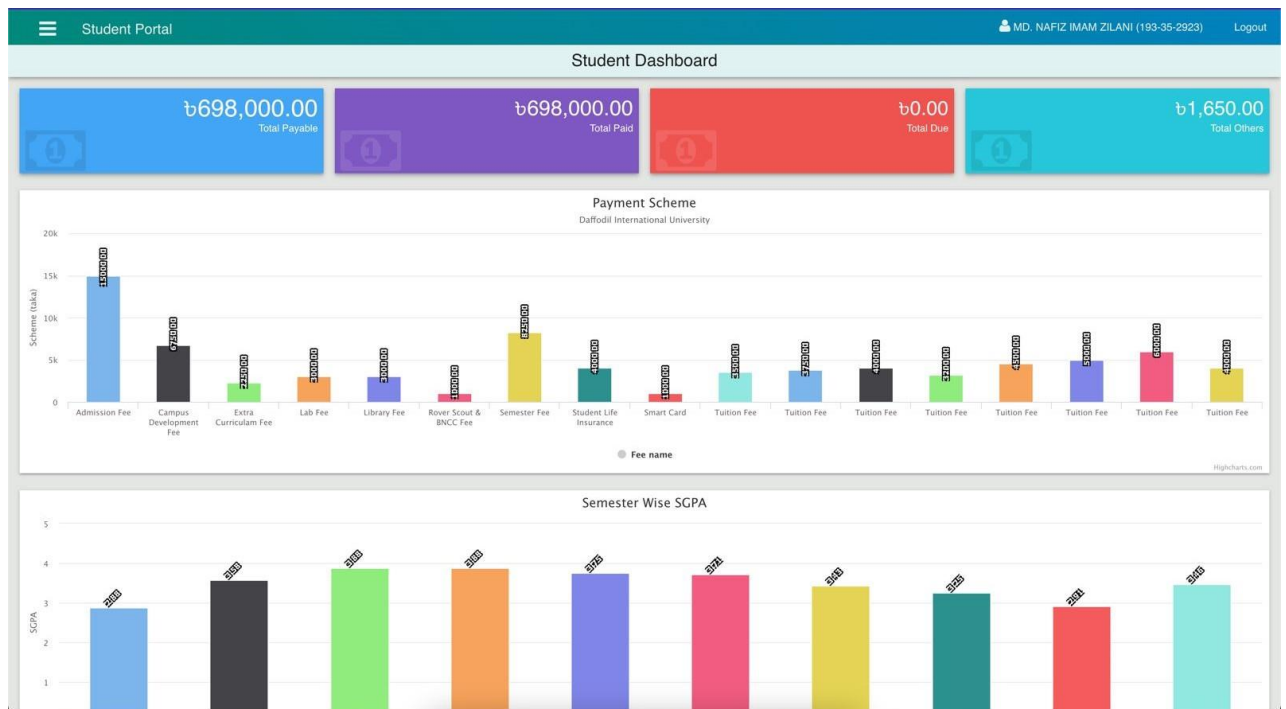
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