

24 HOURS EMERGENCY BLOOD SERVICE

BY

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This Report Presented in Partial Fulfillment of the Requirements for the
Degree of Bachelor of Science in Computer Science and Engineering

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DAFFODIL INTERNATIONAL UNIVERSITY

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APPROVAL

This Project/internship titled "**24 EMERGENCY BLOOD SERVICE**", submitted by Md. Abdul Kadir, ID No: 113-15-1502 to the Department of Computer Science and Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 07-12-2019.

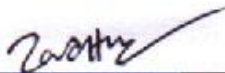
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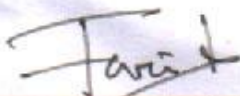
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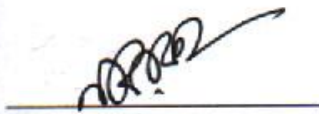
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DECLARATION

I hereby declare that, this project has been done by us under the supervision of **MR. NARAYAN RANJAN CHAKRABORTY, Assistant Professor, Department of Computer Science and Engineering** Daffodil International University. I also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

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Finally, I must acknowledge with due respect the constant support and patients of my parents.

ABSTRACT

Blood donation process first started in Bangladesh in 1950 under Dhaka Medical College Hospital. In that time professional blood donor donate blood. In that time the required blood are managed by this hospital stock. But after 2010 the required units of bloods were increasing day by day. Hospital could not coverage large amount of blood. The 50% blood are collected from specific patients for single time donation. 25% blood are collected from some volunteer blood donation organization like SANDHANI. So the other 20%-25% blood was come from paid donor. Many emergency patients could not get blood in hospital and paid donors are not available all time. This is a major problem in our country find the real blood donor at right time. Many organization getting start blood sell business. For removing blood business and paid donor I make this project 24 Emergency blood service. By using our service you can easily find donor for your area and blood group basis. You can easily contact with donor via donor contact information. Our 24 hours online service helps you find emergency blood through nearest blood bank and hospital. If you become a donor you can safely donate bloods and also join many other blood donation campaigns.

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CHAPTER 1

INTRODUCTION

1.1 Introduction

Blood is the one of the most essential things of our human body which is combination of plasma and cell that circulate entire the body. Blood is a one kind of special body fluid which supply essential substance entire the body as like organs, oxygen and hormones etc. Blood supply oxygen and nutrients which is removing our cellular waste. Human blood groups are structured based on the antibodies and antigens in the cell of our body perspective.

The blood volume will vary size and body factor of human body cells structure. 70-75 ml bloods in per kg of child body weight. 9 pints of blood in average woman body size. 12 pints of blood in average man body size.

For finding blood donor easily of your emergency, I develop a site which is “24 Blood Service”.

In this site you can find blood donor as a guest login and you can also donate blood sign in as a donor. Our site has a two different option Donor or Guest. Who donate bloods chooses donor option and if you need blood chooses guest option.

If you login as guest following this steps to find donors:

- Select blood group
- Select area
- Search for donor
- See the donor list
- Send request for donate
- Select Blood Group: Here you can see 8 blood groups in blood group select area. You can select any group which you need.
- Select Area: You can search blood donor of your area basis. You can choose any area.
- Donor List: When you search donor my website show you the best search result to show the donor which are available. You can send request for donor to donate blood.

If you login as donor you can see these features:

- View donate request
- Campaign
- Refer friend
- View profile
- View Donate Request: Donor can see the list of donate request of donor dashboard. Donor can accept or reject the blood request.
- Campaign: Donor sees the upcoming campaign and donates the blood for this campaign.
- Refer Friend: Donor can invite his/her friend to encourage visit our sites and register using email.
- View Profile: Donor can see the profile and change the details of his/her profile information.

1.2 Motivation

Every day We need blood for an emergency patient. Many Hospitals could not manage this blood all time so I find the blood in our friends and relative. Sometimes I search blood bank, post on social media or contact third parties to donate blood which was kill our time. This process is most difficult to match the blood group in proper time for the patient. For removing this problem I develop our site for find the blood donor easily in 24 hours of your nearest area basis. I also add option hospital and blood bank if needed emergency blood.

In our country blood donation process is under the risk. Third parties are collecting the bloods and sell in the emergency situation. For this think is motivating us to prepare this system.

1.3 Objectives

- It will help to find blood donor easily.
- It will remove the blood business of our country.
- It will stop the third parties blood donates.
- It will make a virtual community for blood service.
- It is user friendly UI that anyone can use our system.
- Our database is secure and password protected.
- Our saves all the records of donors and users.

1.4 Expected Outcome

I have tried to build up a system where people find blood donor easily. You can search the blood donor of your related area basis. When you search the blood donor you can see the donor list of your expected blood group. You can see many donors at a time and contact them for blood.

In our site you can also register as a donor for help the people. Donor can add his/her friends for using refer option which is really helpful to increasing our blood donor community. Donor can also join the upcoming blood campaign and donate blood. Our site is simple and user friendly. Anyone can use our system of their smart phones and computer.

1.5 Report Layout

Chapter 1: Introduction

In this chapter I have described about the introduction of the project, motivation, objective and expected outcome of my project.

Chapter 2: Background

In this chapter I have described about the background of my work. I included the previous work which is related to my work. Also described about the comparative studies and find out the problems and challenges.

Chapter 3: Requirement Specification

In this chapter I have described about the requirements and some models like business process modeling , use case modeling, and logical data model. Also described about the designs, required data and analysis them.

Chapter 4: Design Specification

In this chapter I have described about the recourses which are needed to build my website.

Chapter 5: Implementation and Testing

In this chapter I have described about the implementation and testing part. It includes the standards of coding, test results, reports etc.

Chapter 6: Conclusion and Future Scope

In this chapter I have concluded my site and discussed about the future scope for further development.

CHAPTER 2

BACKGROUND

2.1 Introduction

Online blood bank service is better to blood bank service because it is time kill to search the blood for the all blood bank. You can easily find the related blood donor which you needed using this service. For developing our site use HTML, CSS, JS, JQuery and Bootstrap for front-end part. I also using MySQL for create and handle database which store the donor and user information. Using PHP which is server side scripting language to easily execute the file to Webpage for user request. For easily modify our site and using a multi-function use PHP.

I create a dynamic Website and create a database so that user get best user interface and store all the information properly.

2.2 Related Works

There are many Website for blood service related. Few site are search the donor but this sites have few amount of donors. After when you find any donor then have a lots of limitation for contact with donor. Bangladesh Red Crescent Society [1], Blood Donor Clubs [2] have this blood donation service. Recently Facebook start a blood donates function but they can only send the notification which is not user friendly. Sometimes I ignore this notification. This sites and their service is not user friendly for the users and they haven't a user friendly feature which I used. This sites and this social club have not a large amount of donor family where use refer friend to add our site for increasing our donor list.

2.2.1 Bangladesh Red Crescent Society

In figure 2.1 shows the Bangladesh Red Crescent Society Website. They are works on many development projects like blood donation, cyclone, disaster and health. They cannot focus only the blood service where our sites fully developed and focus on blood donation service.

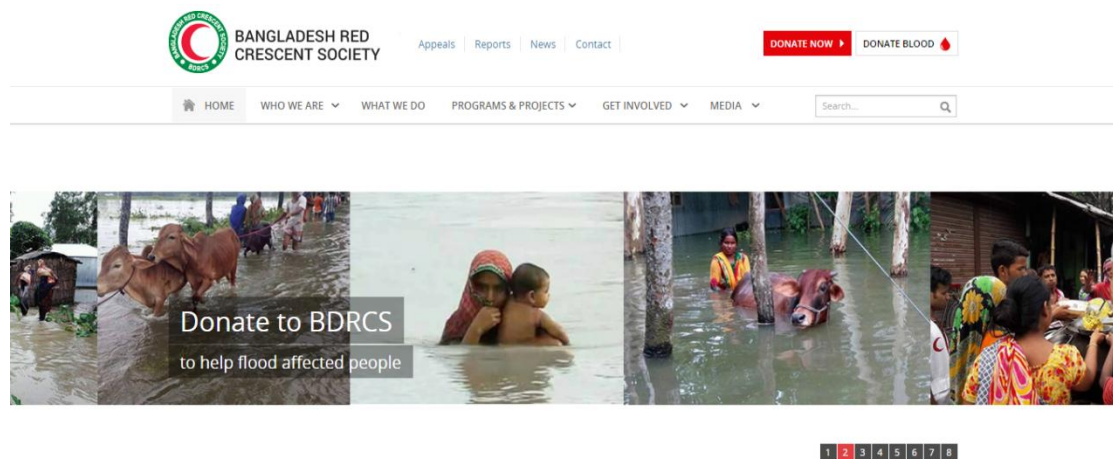


Figure 2.1: Bangladesh Red Crescent Society

2.2 Blood Donors Club

In figure 2.2 shows the Blood Donors Club Website photo. Their service is provide many districts. Their feature is not user friendly properly because they designed their sites by blood group basis. There blood bank service is just a description type. User only can see the address where I using google map for find the location easily. All of the features this site is not proper working and page loading is too slow.

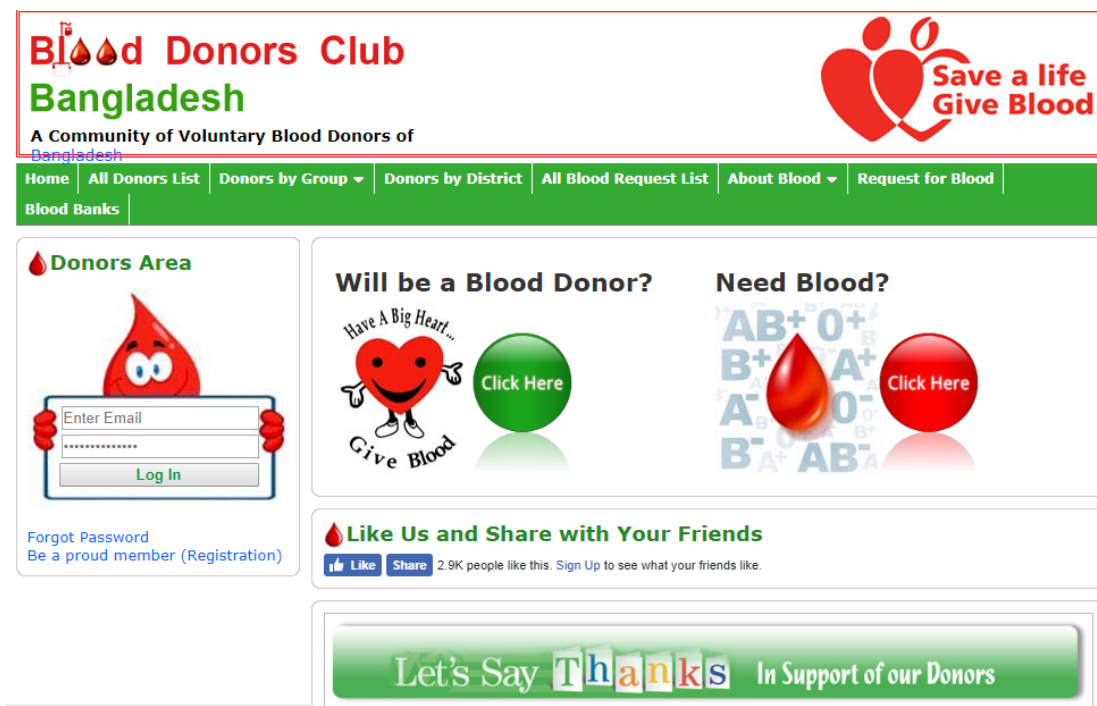


Figure 2.2: Blood Donors Club

2.3 Comparative Studies

I contact hospital, blood bank, and post on social media when I need blood. Blood bank or hospital cannot manage bloods all time because their stock is limited and they cannot find the blood donor all time. Mainly blood bank collected blood from many organization and blood donors. This process is more difficult and time killing process to collect blood from third parties. Sandhani, Red Crescent Society, Blood Donors Club this Website is not fully user friendly and there donors amount is not sufficient. There is no option to increase the blood donor by invite or refer. But have a great feature for donor dashboard refer option. Any donor can refer his/her friend by the email which will be increase our donor list. I have also added a campaign option so that donor can participate any blood donation campaigns.

2.4 Scope of the problem

24 blood services is a Web based application. So internet connection is required to use this. Which people don't have any smart phone or computer they cannot use this system. When I search the donor I can see the donor list and send request for blood. But if the donors don't check their request the user can't contact with donor. When you need blood for emergency for patient then it is not possible for waiting donor respond. I try to find a way to contact with donor most possible way.

2.5 Challenges

I have a challenges to make a large online platform where thousands of people are connected each other. Lots of donors are active and refer their friend to visit this site and help people of their emergency time. Nobody can find the blood donor from hospital, blood bank, Facebook just search blood group and location on our site. The entire donors lists are of searching blood are come from. To increase our community I just invite our friends to join this site and be blood donor to help the people and save lives.

The main theme of our site "Donate Blood and Save Lives"

CHAPTER 3

REQUIREMENT SPECIFICATION

3.1 Requirement Collection and Analysis

I collect some requirements in our project execution. Here those are-

- Need to create a admin panel.
- Need to create user and donor profile.
- Admin can check donor list.
- Admin add campaign.
- Admin add hospital list.
- For blood, User must need register in our Website.
- Become a donor, a donor must be need to register.
- Need phone number to be a part of our Website.

3.2 Use Case Modeling and Description

Suppose you have any idea, but when you try to describe someone, you cannot describe properly. Generally, people will not know how to interact with this application. When this kind case happened use case diagram are very helpful.

Here the use case diagram of our project-

Figure 3.1: Shows the necessity of **24/7 blood bank** Website includes user & donor.

Primary Actors: User and donor

Main scenario: User needs to login first. Then he/she can search donors using portal. He/she can request for blood. He/she goes to profile to check profile. He/she can check hospital list.

Blood donor is first needed to login. He/she can check his/her profile, can check user's request. He/she can to check campaign.

Finally, both User & donor can logout.

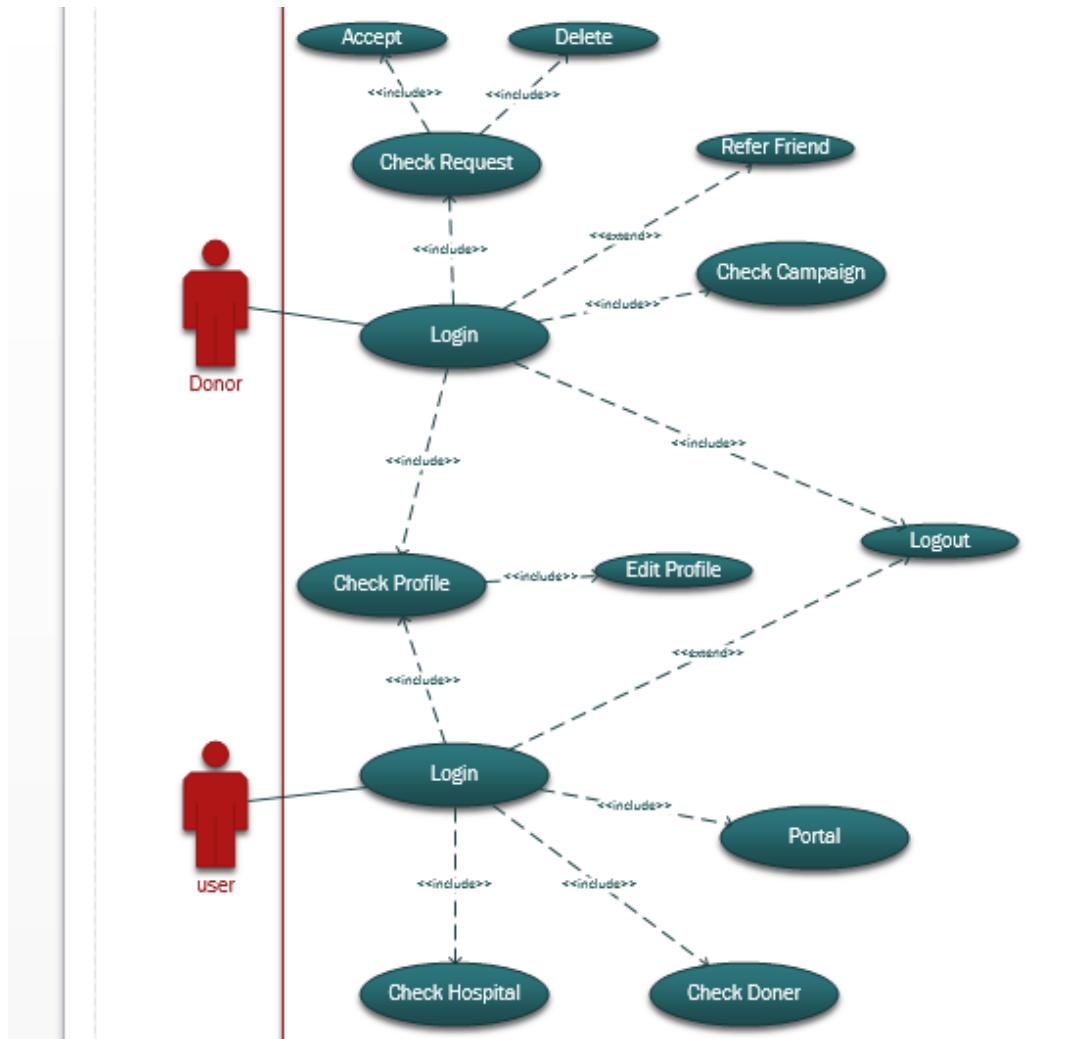


Figure 3.1: Use case diagram for user & donor

Figure 3.2: Shows the necessity of **24/7 blood bank** Website includes admin.

Primary Actor: Admin

Main Scenario: Admin like to need login. He is the main requirement of our Website. He can add hospital, campaign, and check donor list.

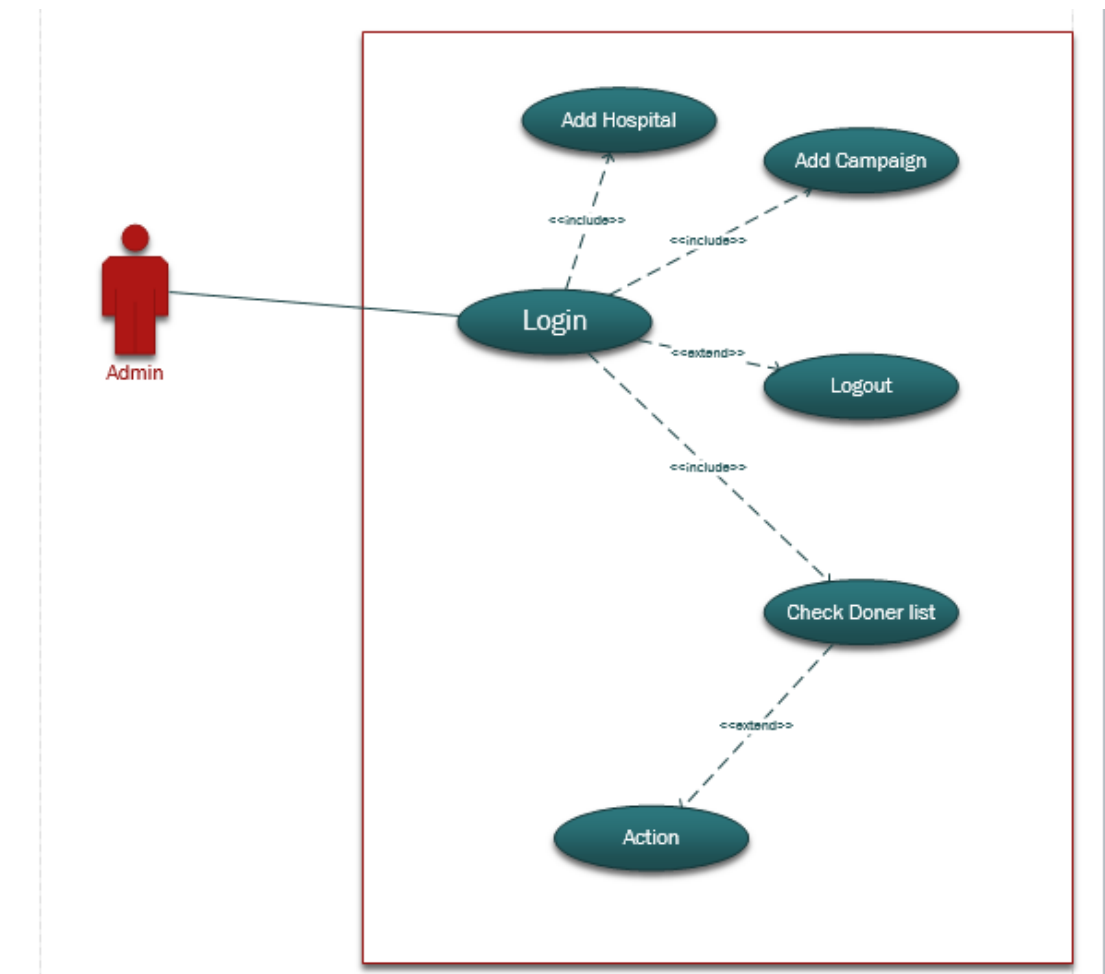


Figure 3.2: Use Case Diagram for Admin

Primary Actors: User, Donor and Admin

Main scenario: I have already told about the main scenario of primary actors- user, donor, and admin.

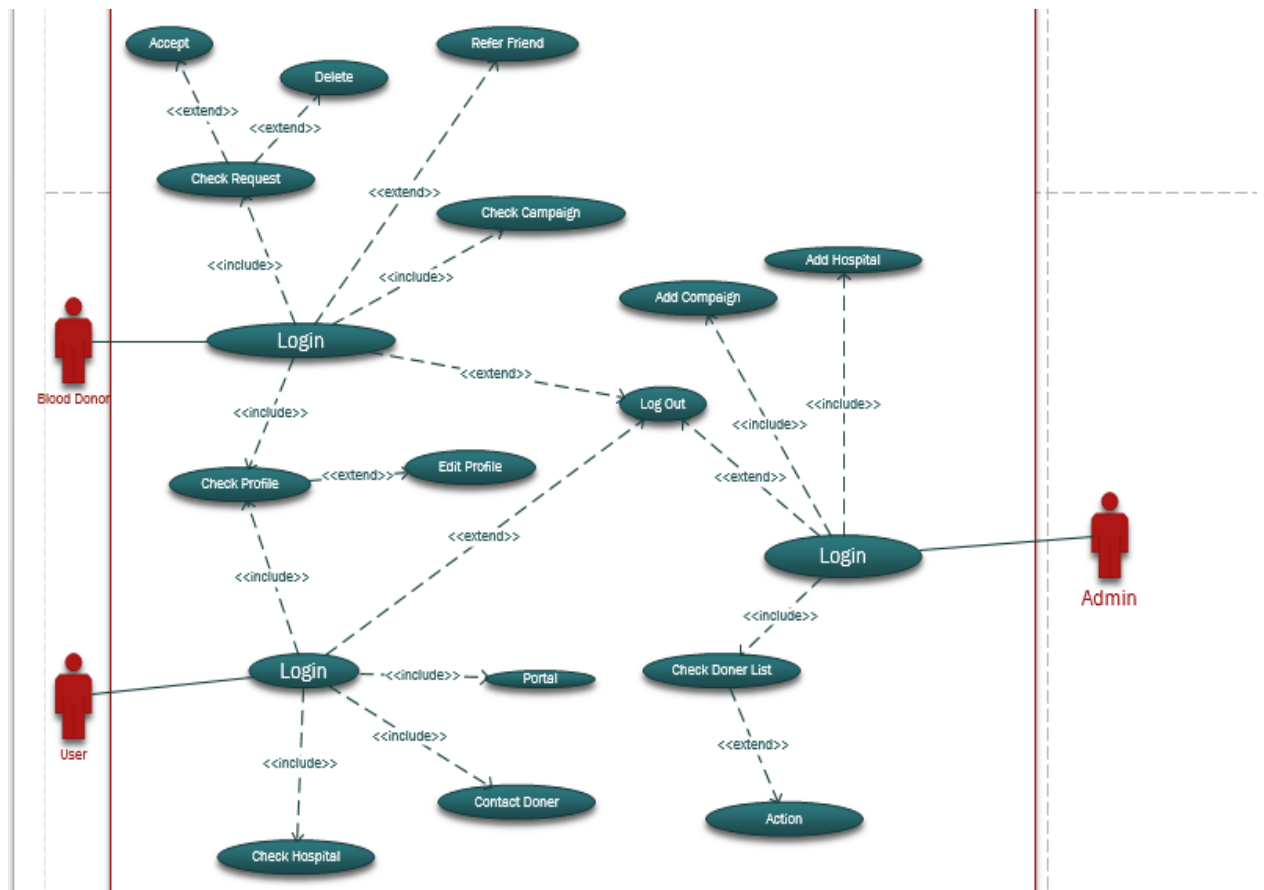


Figure 3.3: Use Case Diagram for 24/7 Blood Bank.

3.4 Local Data Model

Entities, attributes, & relationship are main three parts of ER diagram. Any object is act as an entity as like in our project blood donor, user, admin. Properties on an entity act as attributes. Such as blood donor name, phone number, area, blood group. The link between attributes cooperates by relationship.

Database Diagram

Figure 3.4 Shows the total entities', attributes, & relationship of our 24/7 blood bank database table.

CHAPTER 4

DESIGN SPECIFICATION

4.1 Front-End Design

To build our Webpage I using HTML, CSS, JavaScript and Bootstrap for front-end design. 24 Blood Service is dynamic Website which display a dynamic view for the site users. In our homepage I use image slider, navigation bar, login panel. When users search any donor, search result will show the list of table.

HTML

HTML (Hyper Text Markup Language) is one kind of markup language which creates basic structure of any Webpage and Web application. In our Webpage I are using HTML5 for text, font, table, list, layout purpose. When users search the donors, the search result display in list form which was created by html. I can change the font-style using html.

CSS

CSS (Cascading Style Sheet) is cascade style which style or design the HTML documents. CSS language work how the html files are formatted and displayed. I are using CSS for margins, border, color, icons, fonts, padding, backgrounds, image and all of the elements which are related to the style sheet.

JavaScript

JavaScript is server side scripting language which enhances the html content. Normally JS file run on client side or user site. JavaScript is a server side language which develop the Webpage to display more efficient, fast and effective. Display 2D/3D; scroll the page, image slider using JavaScript for better output.

Bootstrap

Bootstrap is an open source front-end framework which contains HTML, CSS and JS. For responsive Webpage bootstrap template is help to create button, slider, form, navigation and model. It will help for dynamic and responsive Website develops.

4.2 Back-End Design

The back-end process is basically works on how site works, update and changes from Webpage. The back-end process cannot display from user. Back-end maintains developer and programmers which are working with PHP or .net which are connected to the database. In our Website I used PHP and MySQL for the database.

PHP

PHP is open sources server side scripting language which dynamically generated the Webpage. PHP scripts are executed on server side and the output result will show the browsers as plain HTML text format. I using PHP for create a dynamic view and create valid form for the registration. The table, list and other user information are stored in database which connected by the PHP. Donor registration form and user signup form are created, validated and handling by PHP. Donor and user information are stored in database which process handling by the PHP.

MySQL

MySQL is an open source database management system which is reliable to use based on structured query language. In our Web service I need to stores donor and users information. Because when any user searches the donor, then check the database for donor list and find the output. So I using MySQL database for store all the data.

4.3 Interaction Design

Admin Page Design:

- View Donors list
- Add Campaigns for the donors
- Add hospital for the users

Donor Page Design:

- View registration and login page
- View dashboard
- View blood request(Accept, Reject)
- View blood campaign
- Edit profile

User Page Design:

- View registration and login page
- View dashboard
- Search the donor
- View the donor list
- View the hospital list

4.4 Implementation Requirements

To implement our project to need a text editor like notepad++, PhpStorm. I need Photo editor software for editing logo, banner photo and other images of our Web page. I also buy domain and hosting to upload our site into online so that anyone can find our Website from online.

- Implement our Webpage using PHP and PHP framework LARAVEL.
- MySQL database using for store Website information

Minimum Software Requirements:

- Text editor like notepad++, PhpStorm etc.
- XAMPP or WAMP server.
- Browser like Mozilla, Opera.

CHAPTER 5

IMPLEMENTATION AND TESTING

5.1 Implementation of Database

I create a blood donation service sites which helps the people for their emergency situation. Online is a best way to connect the whole world just a second for this reason I choose the online platform. I try to create a large online community where connect all the people each other and help other. I using PHP to connect database and use MySQL database to store all the information. Figure 5.1 shows the database and the list of the table in our database. Already I live our Website and database. For performing action SQL query needed.

User Registration: User registration details saved on database.

Donor Registration: Donor registration details save on database.

Admin: Admin can control the whole database.

Campaign: Only admin can add the camp which saved on database table.

Hospital: Only admin can add the hospital which saved on database table.

Blood Request: User blood requests save on the database.

Confirm Blood: When user gets blood from the donor it will be save on database.

Table	Action	Rows	Type	Collation	Size	Overhead
☐ admin	Browse Structure Search Insert Empty Drop	2	MyISAM	latin1_swedish_ci	2 KiB	-
☐ camp	Browse Structure Search Insert Empty Drop	1	MyISAM	latin1_swedish_ci	2.1 KiB	-
☐ doner	Browse Structure Search Insert Empty Drop	2	MyISAM	latin1_swedish_ci	2.2 KiB	-
☐ final_donate	Browse Structure Search Insert Empty Drop	1	MyISAM	latin1_swedish_ci	2.1 KiB	-
☐ hospitallist	Browse Structure Search Insert Empty Drop	1	MyISAM	latin1_swedish_ci	2.1 KiB	-
☐ req_doner	Browse Structure Search Insert Empty Drop	0	MyISAM	latin1_swedish_ci	1 KiB	-
☐ user	Browse Structure Search Insert Empty Drop	1	MyISAM	latin1_swedish_ci	2.1 KiB	-
☐ user_confirm	Browse Structure Search Insert Empty Drop	0	MyISAM	latin1_swedish_ci	1 KiB	-

Figure 5.1: Database Implementation

5.2 Implementation of Front-end-Design

People browsing internet smartphone, laptop, desktop, tab etc. For this reason it is very challenging to give a attractive UI of the site. I using Bootstrap, HTML, CSS, JavaScript, JQuery for responsive view of our Websites. At present situation it is very much important to create dynamic and responsive Webpage for user attraction. The front design is important to Webpage loading and executing on browser. I try our best to serve the best UI and responsive Webpage for the users.

5.2.1 Home Page

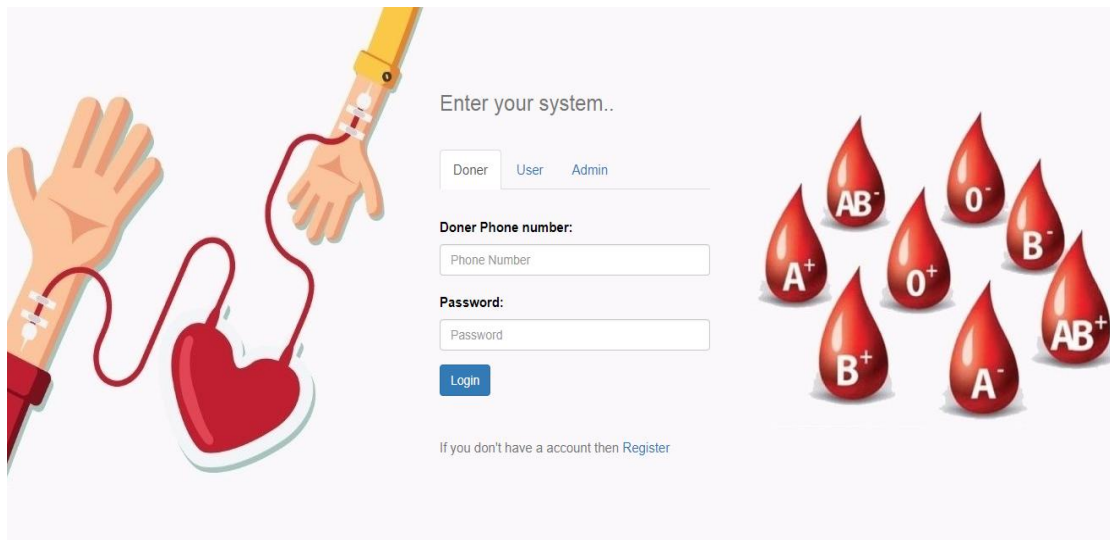
In figure 5.2 shows the home page of our Website. I can see the navigation bar, login option where donors, users and admin can log in their username and password. I can also see some features like why blood, how to donate blood using our site, donate rules and contact information.



Figure 5.2: Home Page

5.2.2 Login Panel

In figure 5.3 shows the login panel for donors, users and admin to enter our system. In our Website have three different types of users. Donors can donate blood, user who needs the blood and admin who control the Website. Before login donors and user must be register if they do not register our site before.



Enter your system..

[Doner](#) [User](#) [Admin](#)

Doner Phone number:

Phone Number

Password:

Password

[Login](#)

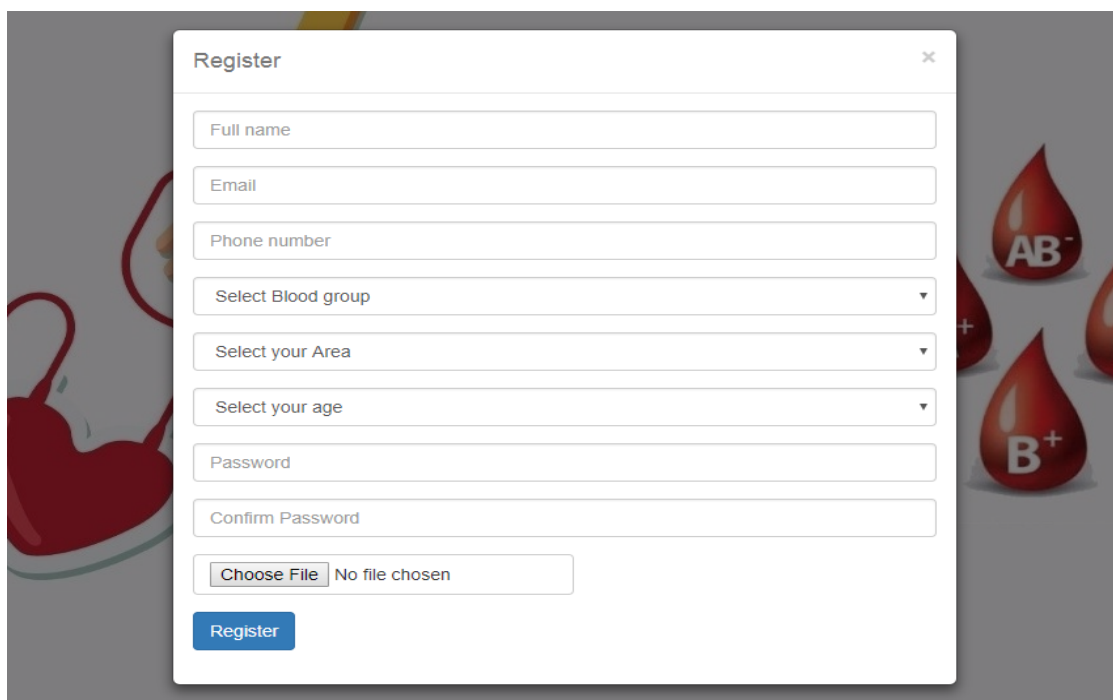
If you don't have a account then [Register](#)

The login panel features a light blue background. On the left, there is an illustration of two hands, one with a red bandage and a red heart, and the other with a yellow bandage and a red heart. On the right, there are several red blood drops with labels: A⁺, AB⁻, O⁻, B⁻, O⁺, B⁺, A⁻, and AB⁺.

Figure 5.3: Login Panel

5.2.3 Donor Register

Figure 5.4 shows the donor registration page. When any donor donates blood to other person they have to login their id and password. Before login their id, they must need to register. Once you register after you can login your id just phone number and password.



Register

Full name

Email

Phone number

Select Blood group

Select your Area

Select your age

Password

Confirm Password

[Choose File](#) No file chosen

[Register](#)

The registration form is a white modal box with a close button (X) in the top right corner. It contains several input fields: Full name, Email, Phone number, Select Blood group (dropdown), Select your Area (dropdown), Select your age (dropdown), Password, and Confirm Password. At the bottom, there is a file upload section with a 'Choose File' button and 'No file chosen' text, and a blue 'Register' button.

Figure 5.4: Donor Register

5.2.4 User Register

Figure 5.5 shows user registration page. When you need blood, you will find the donors. At first you need to register as user then login your account to find the donors.

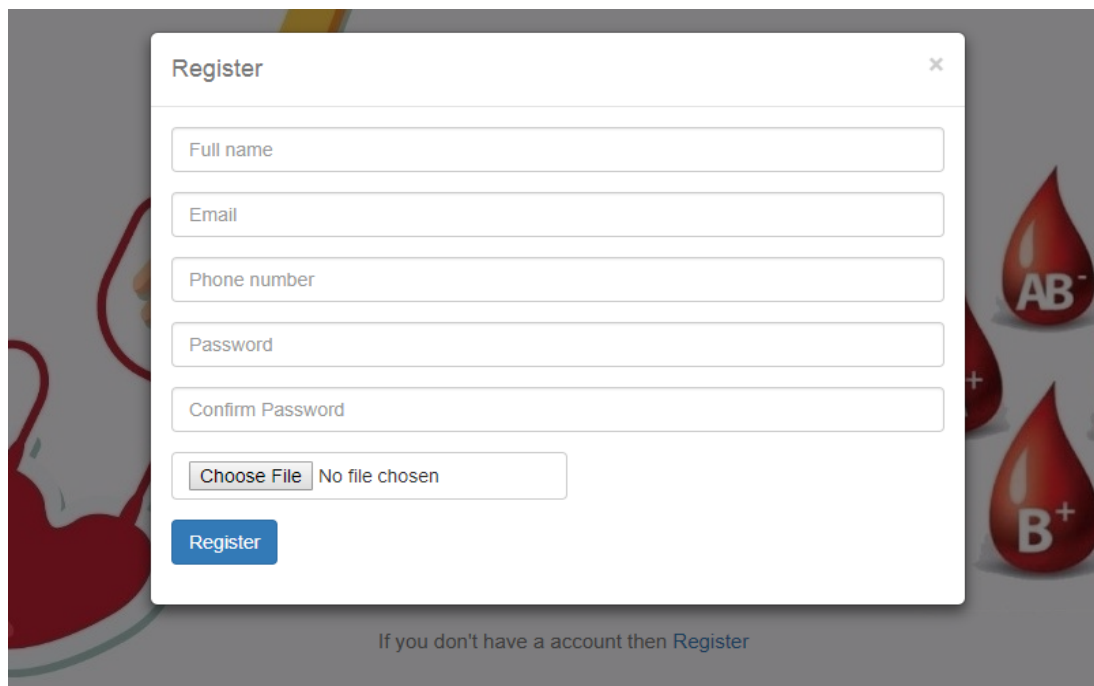
A screenshot of a web application's user registration form. The form is titled "Register" and is enclosed in a white box with a close button (X) in the top right corner. It contains several input fields: "Full name", "Email", "Phone number", "Password", and "Confirm Password". Below these fields is a file upload section with a "Choose File" button and the text "No file chosen". At the bottom of the form is a blue "Register" button. The background of the page features a dark grey gradient with red blood drop icons, some labeled "AB-" and "B+", and a faint illustration of a person's head in profile.

Figure 5.5: User Register

5.2.5 Admin Panel

Figure 5.6 shows the admin dashboard. Admin can login admin id and password. Only admin can the all donors list. Admin can add hospital which can show the users .Admin can also add campaign for the donors. Admin control the whole database and Websites.

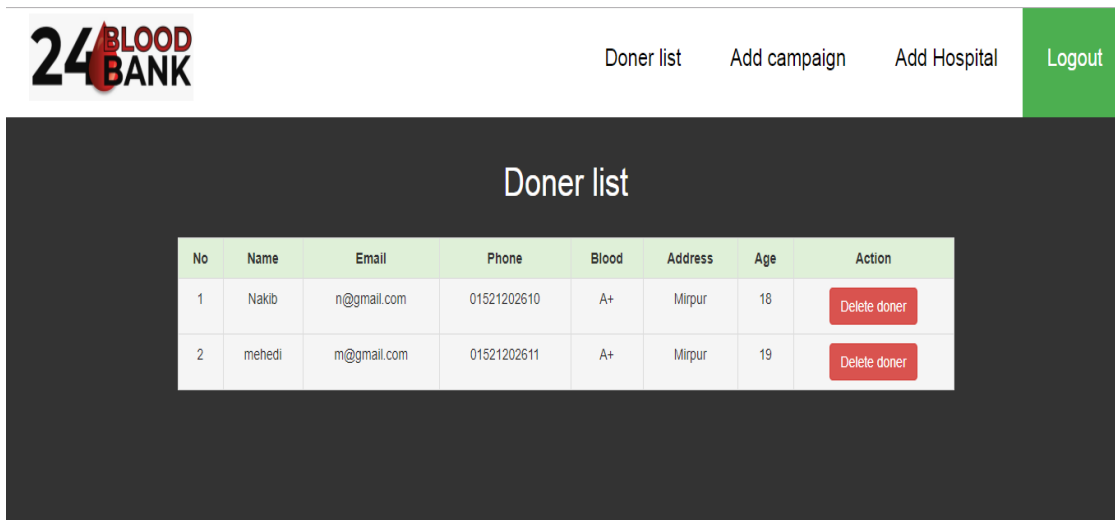


Figure 5.6: Admin Panel

5.3 Implementation of Interaction

Our service is helping the people of their emergency situation. Our site is fully depends on users. I make a largest online community where people will help each other. If user can not satisfy to use our site, they cannot use it. Without users our system is dead. Like without power machine will not start. Without fuel car will not start. I are trying to make our site more users friendly. I ensure the secure of all information of donors and registers. Our UI is very simple and attractive. Our search result is more effective to find the blood donors in short time. I add some important feature like refer your just friend using email. Donors can easily accept or reject just click the button. I created a notification system when user request donor, donors get notification and when donors accept the request, user get notification.

CHAPTER 6

CONCLUSION AND FUTURE SCOPE

6.1 Discussion and Conclusion

In this project I get wonderful and learning experience for blood donation service. I developed a Web based platform on 24 hours blood donate servicing for the emergency patient needed. To using our service, people anywhere in the country can find the blood donors in just time.

Be a global citizen, I should try to help other. I try to our best efforts to develop this Web service to help the people which need a blood in emergency situation. By using our Web service users can find the blood donor for nearest area basis in a short time. In our Web blood donation service, I think create a large community among people. For this reason I add a feature of refer friend. Any donor in our site can easily refer his/her friends just using email. As a result they also know about our service and interest to join as a donor to help the people.

6.2 Scope for Further Developments

At the initial position our project has been done. But it doesn't mean that our project totally complete. It is just starting position of our service. I think make a large community in our country. For every corner of our country any people, any time easily can find the blood donors within short time. Now, it is a Web based service. I think create apps for Android and IOS mobile users. In our application I add security system for donors and user safety purpose. Add Google map to show the all nearest blood donor's location and add Artificial Intelligent bot for automatically send updates, blood notifications. I add auto update system of our apps and add FnF option for the donors where you can see yours friends and family member.

REFERENCES

- [1] Bangladesh red crescent society, available at [online]<<<http://www.bdracs.org/>>>,last accessed on 12.11.2019 at 5.01pm.
- [2] Blood Donors Club , available at [online]<<<http://www.blooddonorsbd.com/>>>,last accessed on 14.11.2019 at 5.10pm.
- [3] Scitech, http://portal.scitech.au.edu/darun/wp-content/uploads/2017/07/Senior_ReportFINAL.pdf last accessed on 04.11.2019 at 5.10pm.
- [4] Slideshare: <https://www.slideshare.net/Aurnob0071/blood-bank-management-system-71866205>
- [5] Scribd, <https://www.scribd.com/document/335504708/BLOOD-BANK-MANAGEMENT-SYSTEM-PROJECT-REPORT-docx>, last accessed on 08.11.2019 at 4.10pm.
- [6] W3schools, <https://www.w3schools.com/html/>, last accessed on 07.11.2019 at 7.10pm.
- [7] W3schools, <https://www.w3schools.com/php/default.asp>, last accessed on 07.11.2019 at 7.10pm.
- [8] W3schools, <https://www.w3schools.com/css/default.asp> last accessed on 14.10.2019 at 5.10pm.
- [9] who, https://www.who.int/worldblooddonorday/media/success_story/en/>>,last accessed on 2.11.2019 at 12.10pm.
- [10] Blooddonorsbd, <http://www.blooddonorsbd.com/bloodbankdetails.php?id=sir-salimullah-college-blood-bank> />>,last accessed on 5.11.2019 at 8.10pm.
- [11] Blood <http://www.blooddonorsbd.com/m/alldonorslist.php>/>>,last accessed on 14.11.2019 at 5.40pm.
- [12] Wikipedia, https://en.wikipedia.org/wiki/Blood_bank/>>,last accessed on 10.11.2019 at 3.10pm

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