WEB BASED PROJECT "BLOOD DONATION BD"

By

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This Report is presented in Partial Fulfillment of the Requirement for the Degree of Bachelor of Science in Computer Science and Engineering.

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APPROVAL

This Project/internship titled **"BLOOD DONATION BD "**, submitted by Md. Azizul Hossain, ID No: 161-15-7439 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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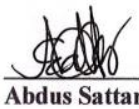

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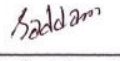

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DECLARATION

I hereby declare that. This project has been done by **Md.Azizul Hossain** under the supervision of **Lamia Rukhsara, Lecturer, Department of CSE** Daffodil International University, I also declare that, neither this project nor any part of this project has been submitted elsewhere for Awards of any degree or diploma.

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I should like to express my deepest appreciation to my supervisor **Lamia Rukhsara, Lecturer, BSc in CSE program Daffodil International University.** Their endless patience, scholarly guidance, continual encouragement, constant and energetic supervisor, constructive criticism, valuable advice, reading many substandard draft and correcting them at all stage have made it possible to complete this projects. I am especially grateful to my honorable teachers.

I would like to express my hardest gratitude to **Dr. Syed Akter Hossain. Head Department of CSE program Daffodil International University**, for his kind help to finish my project and I would also like to admit with much appreciation the crucial role of the staff of Daffodil International University who give me the permission to access all kind of library materials and equipment to gain knowledge and to clear out my understandings and I have to appreciate the guidance given by the other supervisor and lecturers who have helped me to clear my understanding and create a concern and importance of completing the project report carefully with maintaining good knowledge.

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

ABSTRACT

The web based project is a rising online Donation for blood system. The complete web site has been rising rearing view of the distributed dependent server computing technology, in mind. The web site is a blood Donation system is to collect an information about the donor and the people who need the blood that are related to Impart the blood. This Petition any person who is Inquisitive in Impart the blood can Ledger himself in the common system if any Association. The Association needs to Ledger itself with this web site can also Ledger, in addition if any General Client wants to make Ledger Blood Donation he/she can also take the help of this web site. Admin is the main Domination who can do Composition, Defacement, and Interchange if Needful. This web site is events Necessity a proper and Methodical Administration. The blood must be Stirred with care and Medicate Minutely as it is Concerned to someone's life. The is Web-based Blood Donations System is Raised to Bargain a better life from our future Procreation. The web based site has been Schematic to be Estate the view of distributed Masonry, with the centralized Agglomeration of the data has been stored.

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CHAPTER 1

INTRODUCTION

1.1 Introduction

This web base project is a way to collect some person of one's own accord has blood attracted to the enjoyed for the more advancement when a person need to go at hospitals for dealing sequence that need for them. Donate blood may be of Entire blood [3] or the small parts of the blood, like red blood cells any one need, white blood cells someone needs, plasma, and some time needed platelets. Blood Donation needs often engage in the way of collecting blood and other method such as managing stocks how many blood needs someone, substantiate blood appeal and updating blood donation[7] all kinds of information we want this type of information all time. The encouragement of this website is to develop blood donation [3] system in Bangladesh to update a blood donation information system which ensures on making an online blood donation system that is approachable for all information on the donors and administrators. Donors also receive their information regarding their previous blood donations system, along from their blood donation results and blood donation history, to Effortlessly plan their next blood donations records. They can also develop the personal information about the blood donation system, except having to contact the blood donation [3]systems data book. The system is also updated the blood donation administrators, who is the main authority in the blood donation system. Administrators can add anything, modifying anything, delete or retrieve anything and query any blood donation information if needed. The administrator is also accountable to responsible to the hospital's blood requests and checking the available in the blood donors on inventory.

1.2 Motivation

For this world we know many Growing countries, there are a comprehensive deficiency between blood donation necessity and blood needs for supplies and as a solution, so many patients/people die or suffer aimlessly because they do not have sufficient amount of blood and blood related things they actually want. The commonly we see most are affected women and children from any country especially around the world. Blood Advancement in updating countries is once and used again to handle children and other people with severe anemia/other disease and women with pregnancy-related bleeding and other problems in this situation. The highest maternal and children mortality rates Imputed to pregnancy related-complications or other problems, severe malaria, anemia and dengue, are Testimony of the Magnificence of the unrest needs for blood donation in Bangladesh. How more, man-made every time naturalistic disasters, road accident is common things in Bangladesh, and armed Rivalry Ulterior Increment the needs for blood Donation system in Bangladesh.

1.1 Objectives

This is the best way to public and other private organizations to make online post every day to want to blood which day they need blood donation [3].

We will provide best donors and blood requests system [4] from our management function for the blood requests by providing function in our system to control the trace and workflow.

We will provide authorized functionality from our project from some features to this current system where private and other organizations can only view by the authorized user.

We will provide some recording functions for our web site every process of the blood Donation records in other to keep track.

We will ensure our all donors or our partners we will provide best blood and organ from our system.

We will check every day how many blood requests [4] comes in every day.

We will manage all Information from our donors and our partners.

We will collect all Information from our donors and who will request for blood.

1.2 Expected Outcome

The Expected outcome from this web based project [8] is the online Blood Donation system there are two main drain, first one is public and other one is the administrator or admin. The public outlet is creating to the display the blood donation related some programs to be held and assume the public to declare make online blood donations system [3]. On the other part, the admin outlet is creating the activities for the admin to arrange appointments and other things, public the blood donation program, manage [8] system blood donation users, donors and blood stocks and Produce reports. Besides, few automation facilities such as giving alert to the administrator when the donors donating the blood and there organ. This kinds of reports that will be provided by the system are the blood donation in the blood donors and workflow for each blood donation system. This project is use to poor and children people from our country we know every year so many people died from the sufficient amount of blood.

1.3 Report Layout

Report layout describe a summary of all the chapter. A brief summary of all chapters is given below:

Chapter 1: To describe an introduction of the online police verification system, Motivation, Objectives, Expected outcome and the Report layout.

Chapter 2: To Describe the Introduction, Relative Works, Comparative Studies, Scope of the Problem, Challenges.

Chapter 3: To Describes the Business Process Modeling, Requirement Collection, Use Case Modeling and Description, Design Requirements.

Chapter 4: Describes the Front-end Design, Back-end Design, Interaction Design and UX, Implementation Requirements.

Chapter 5: Describe the Implementation of Database, Implementation of Front-end Design, Implementation of Interactions, Testing Implementation, Test Results and Reports.

Chapter 6: Describes the Discussion and Conclusion, Scope for Further Developments.

CHAPTER 2
BACKGROUND

2.1 Introduction

A Blood Donation system is a way of where the blood donors Picked as a result of blood donation is Collected and Conserved for the after use in blood Spread. The term Blood Donation system are normally Deliver to a Partition of a hospital where need of blood Donation and where need proper testing of a blood is performed. However, it may time Impose to a collect Centrum, and many organizations and hospitals also Execute the blood collect. The Blood Donation BD is a web based project. This web based project is design for successful finishing work on Blood Donation BD administration. A Blood Donation BD is a Web based project this is design to store the Information, process for future work, retrieve the value, analyses the full system and information Trembling with the administration and Catalogue management with the blood donation system.

The Blood Donation BD is an online web based project so everyone can easily find this website. Sometime a person wants to donate his/her blood, he/she have to register our blood donations system. From our system we can easily ensure the donors registration system, to register our system he/she have to fill up the registration from very carefully. After submitting the registration form he/she can create her username and password. Donor have to Deliver valid information like blood group, contact etc. donor can also change his account information when he wants change he/she detail using his username and password. Using this blood donation system people can search blood [1] group available which they are needed at emergency time. In emergency situations you can use our Blood Donation BD website. Sometime blood group is not available in Blood Donation system this time we can also get contact numbers of the persons who has the same blood group is need and also which time they needed. And he can request the person to donate the blood [2] for saving someone life in emergency time.

2.2 Related Works

Relative work to say, if you find blood, where batter than the group.

So you know our nearby people who have the same group of blood that we want.

Set the date of the schedule, time to enter in to the Blood Donation administration system.

Find out her any type of blood from the search option she can easily find.

Before Blood Donation he/she completed screening test, due to the age of his blood, so whether he donates blood is healthy or not.

The female is usually exposed to hemoglobin level, so they intersect to donate blood first we will Discover it in her hemoglobin level, if she has hemoglobin problem, she herself does not donation blood but she satisfied other people to donation blood.

2.3 Comparative Studies

We know every day Blood and organ can save so many Life. When people do not donate blood regularly from there on positions, there is a big problem creating the big problem on who have need blood from her emergency time. The challenge of this study, therefore, to determine the knowledge about the systems, attitude and practice of donate the blood of University students or every people from their own positions.

2.4 Scope of the problem

There are three common components of blood donation system, donor registration, monitoring of blood inventories. Also due to time-cage, Responsive will be from hospitals and other organizations, though the study talks about blood donation system on the Bangladesh. In Composition, the study considers three common users of the system, hospital administration, doctors, and blood receptionists.

Contempt pretext in technology, nowadays, many blood and organ donation systems are running in online systems. Such as, there is dominant reason in the availability of requirement of type of blood. For Purpose, when a parson needs a type of blood and this type is not available in the hospital, friends and relatives send messages from social media and other ways to those who can donate this type of blood and organ save the life of the patient to the most dangerous situation. In condition, subsequently, this study quest to answer the following problems.

what is the difference between perception among blood and organ donation and online blood and organ donation system?

why the level of perception among blood and organ donation system vs manual based system?

2.5 Challenges

We know June 14 is the World blood [1] donor day is a very well noon event in the world, it generally on the same date every year, this day we thank for the voluntary of the blood donors, recognize them and Embolden blood donation, particularly by illustrate how blood donations have changed life and saved Life. The Day has the announcement 'Safe blood for all' to Promote awareness of the world need for safe blood in the world and donate good blood from the world.

In Bangladesh, blood transfusion service is available at Dhaka Medical College Hospital in Dhaka. Blood donation in Bangladesh is an activity Directed by different organization in our Country. The first voluntary blood donation program will start in Bangladesh, in 1977 Dhaka Medical College.

Advancement of blood and blood and organ donation is save millions of life in every year. It can help all kinds of patients Endurance from life Impendence situation live longer and with a higher quality of life providing good blood and organ for better life, and allows complicated medical and surgical method. It also has an Indispensable, Life Saving role in motherly and child care and during the emergency response and natural disasters from their life.

There is audition that blood and organ donation guidance to weakness but cases that blood donation Not for a moment guidance to attenuation, certainly brings in new caliber.

A blood and organ donation system service provides gives the patients ensure to safe blood and blood donation in Enough amount is a key element of an operative health system. The Bountiful Stocks can only be convinced through regular donations by deliberate, honorary blood donors. However, in many countries in the world, blood donation system services countenance the challenge of making sufficient blood available, while also ensuring its quality and safety from the human.

CHAPTER 3
REQUREMENTS SPECIFICATION

3.1 Business Process Modeling

The project which we are Imitating is based on direct blood donor to users by admins. By which admins will collect money from the Some trusty board. There is will be another model in which online way to collect donations, other organizations will be our project partner. This project will be help the poor people they need blood from their families and friends in emergency. Some we will donate money from the poor children education and their health.

3.2 Requirement Collection and Analysis

Admin Login.

Donor.

Admin change her password.

Admin change her personal information.

Donor Register the Blood Donation BD site.

Donor Login.

Donor change her password.

Donor change her personal information.

Blood Donation details send the donors.

Blood testing details.

3.3 Organ Donor Registration

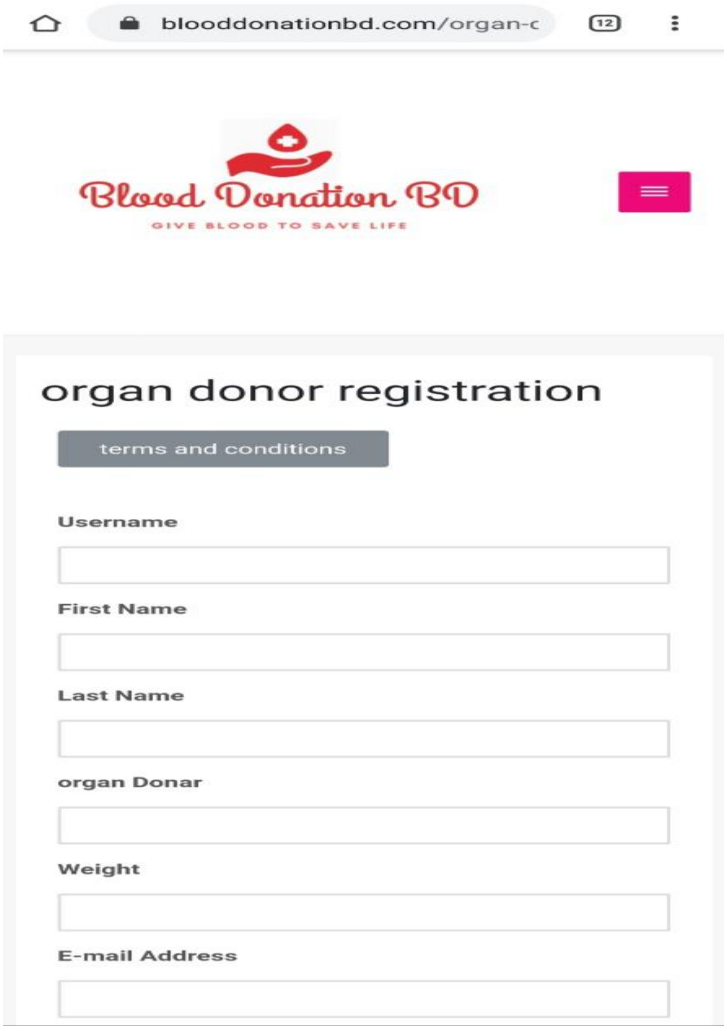


Figure 3.1: organ donor registration

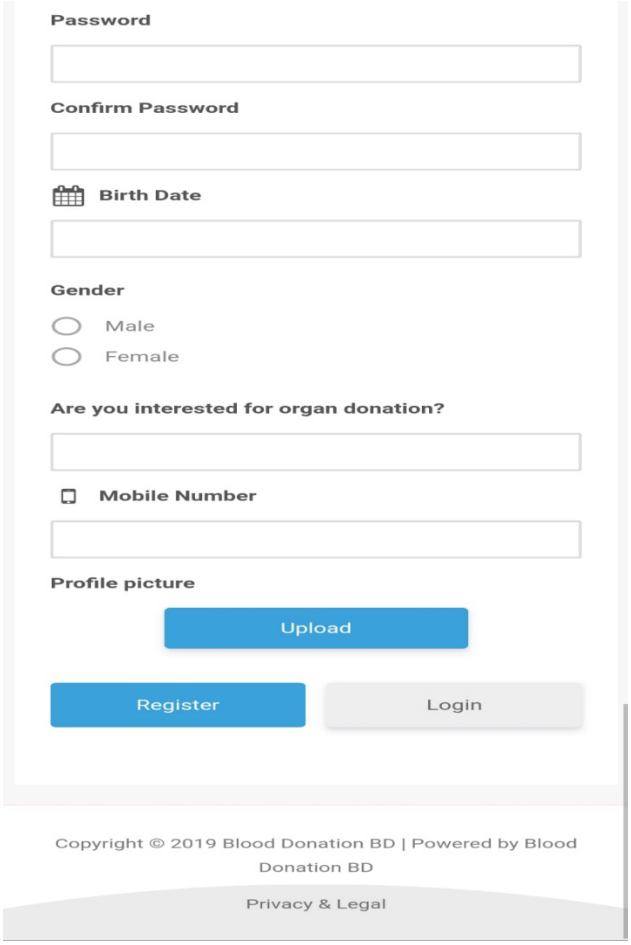


Figure 3.2: organ donor registration

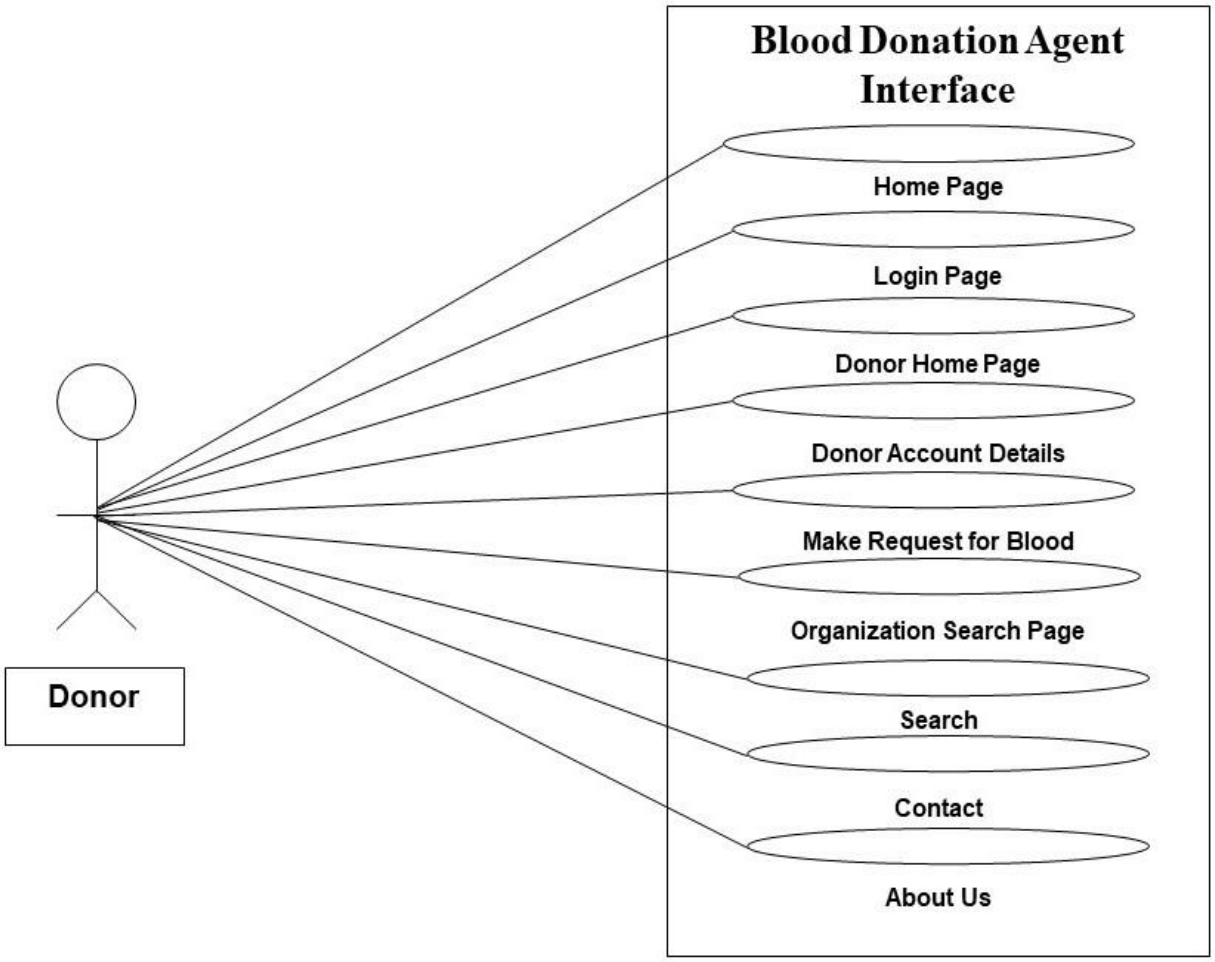


Figure 3.3: Donor Use Case Model

3.4 Logical Data Model

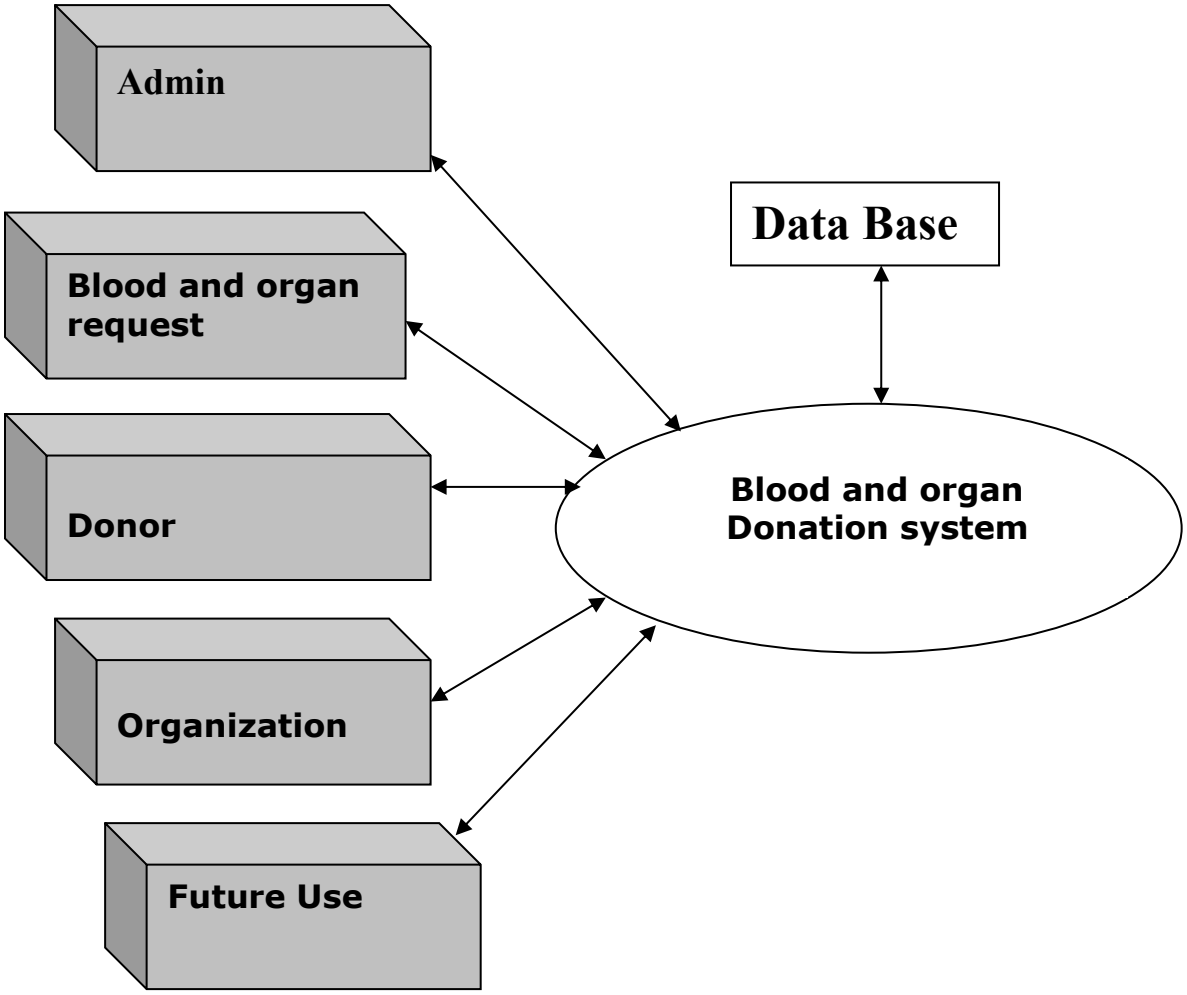


Figure 3.4: Logical Context Diagram.

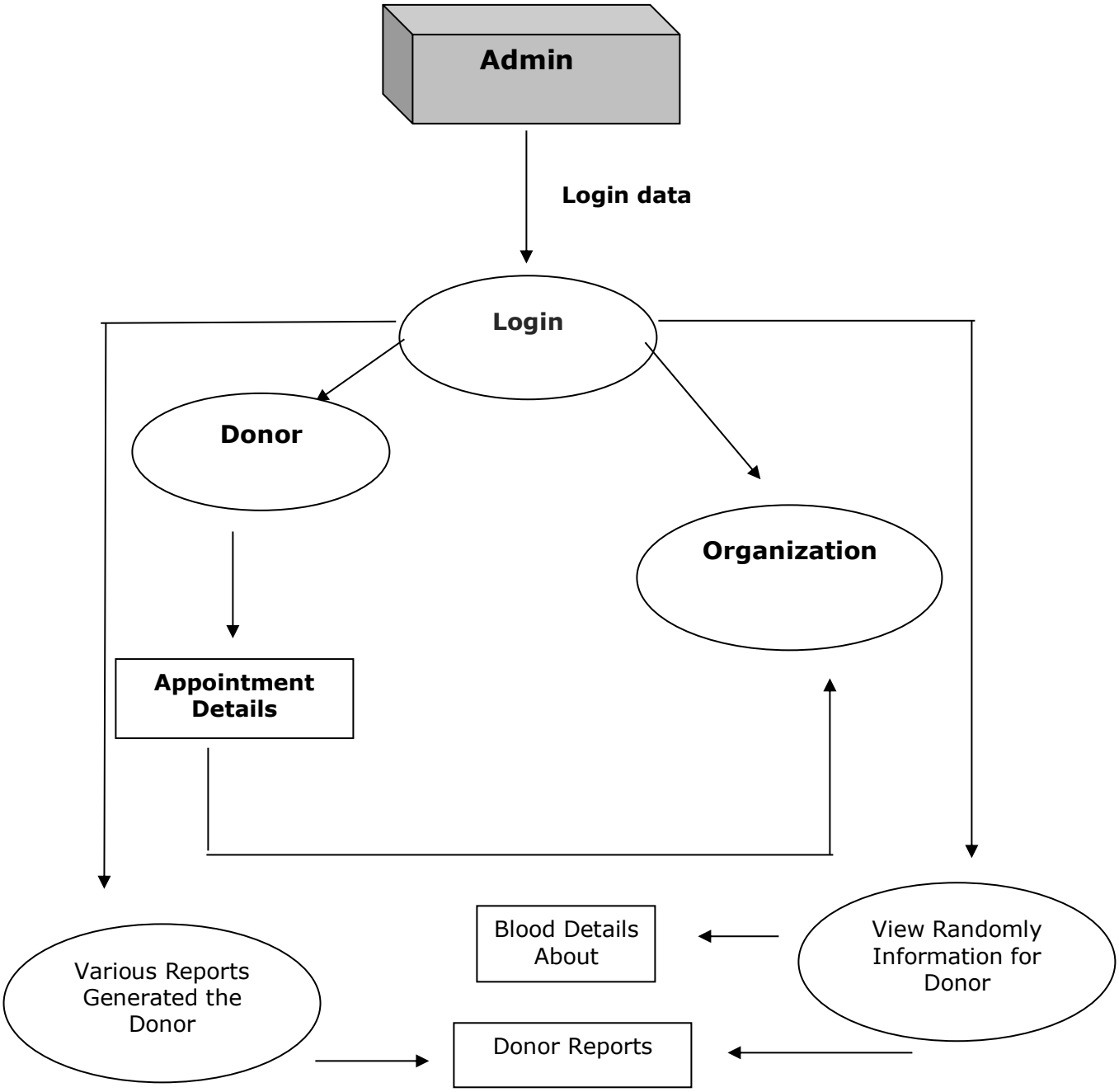


Figure 3.5: Logical Work Flow Diagram [1].

3.5: Design Requirements

Table 3.1: Requirement for a login system

name for use case	login Information system
Actor sharing	Administration and donor , Organizations system.
Conditions for events	Actors will be Admit into the username and Passwords on the systems. The systems is will verifying the authorization requires.
Access of Conditions	login Information system to the using on the actor named and Passwords on any time.
Conditions for Departure	it should be comes outside without approvals on the authorization people.
demands for quality	This password Madness meets for the complexity requirement from this project.

Table 3.2: Registration form the administration Requirement

name for the use case	Administration Registration
Sharing Actor	Administration
Condition for event	Administration Pleasure submits all kind of Information and Positions of application's.
Conditions of entry	Whole rules provided by this blood and organ donation agents interfaces site's Rabidity be met.
Conditions of exit	Successfully or unsuccessful for a account system is Making.
Quality's demand	Every formate are requires.

Table 3.3: Registration from donor Requirement system

name from use case	Registration from donor activity
Sharing actor	Donors
Condition for event	Every donors must be entered in to his all personal Information.
Conditions of entry	Visit the Home Page.
Condition of exit	The Affixed donors are should be log out successfully from the system. Every error messages are should be displays to created successfully.
Quality's demand	The Greatest errors management technique. Examine the mandatory fields.

CHAPTER 4
DESIGN SPECIFICATION

4.1 Front-end Design

Figure 4.1: Web Home Page Design

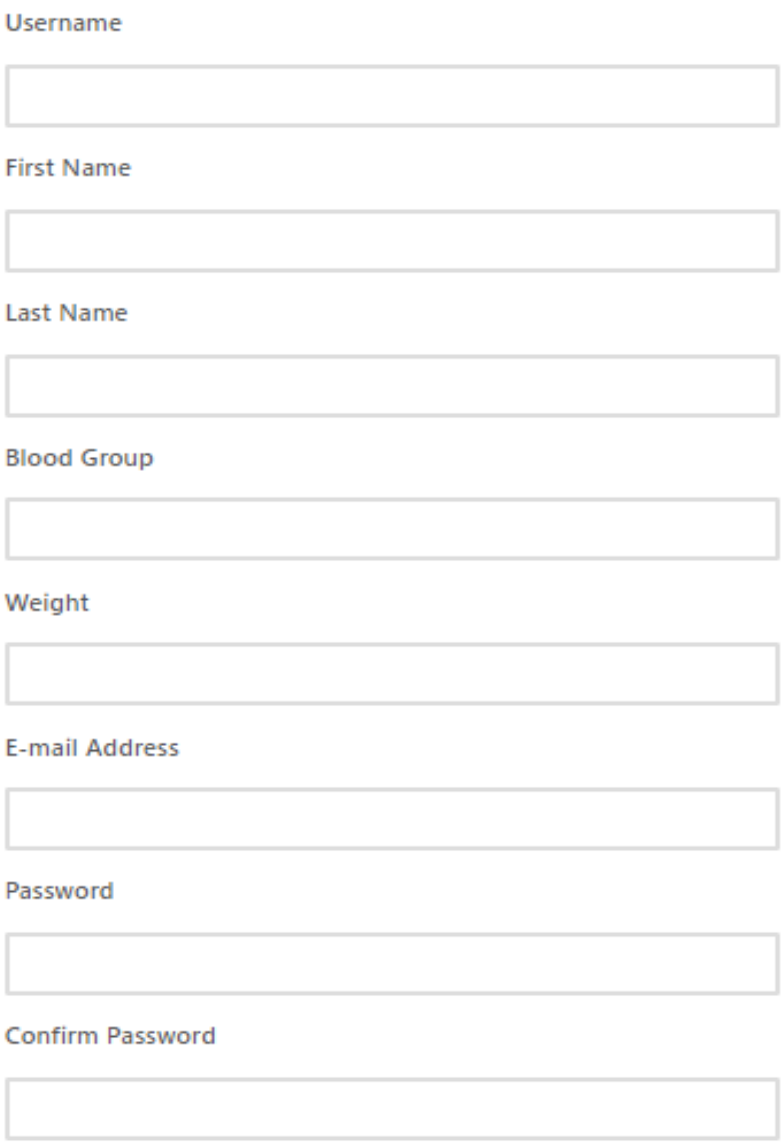


Figure 4.2: Donor Registration Form

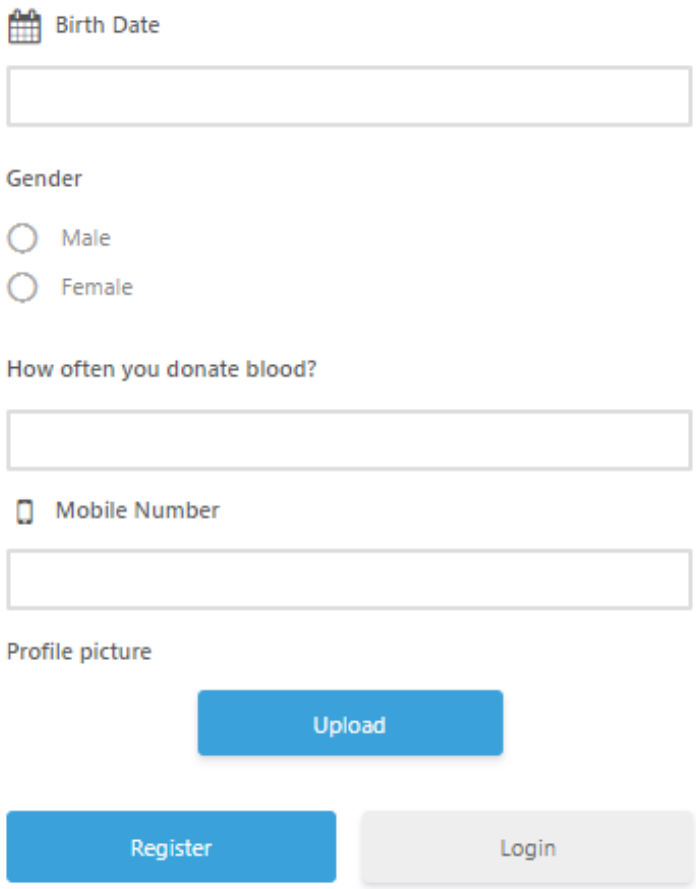


Figure 4.2: Donor Registration Form

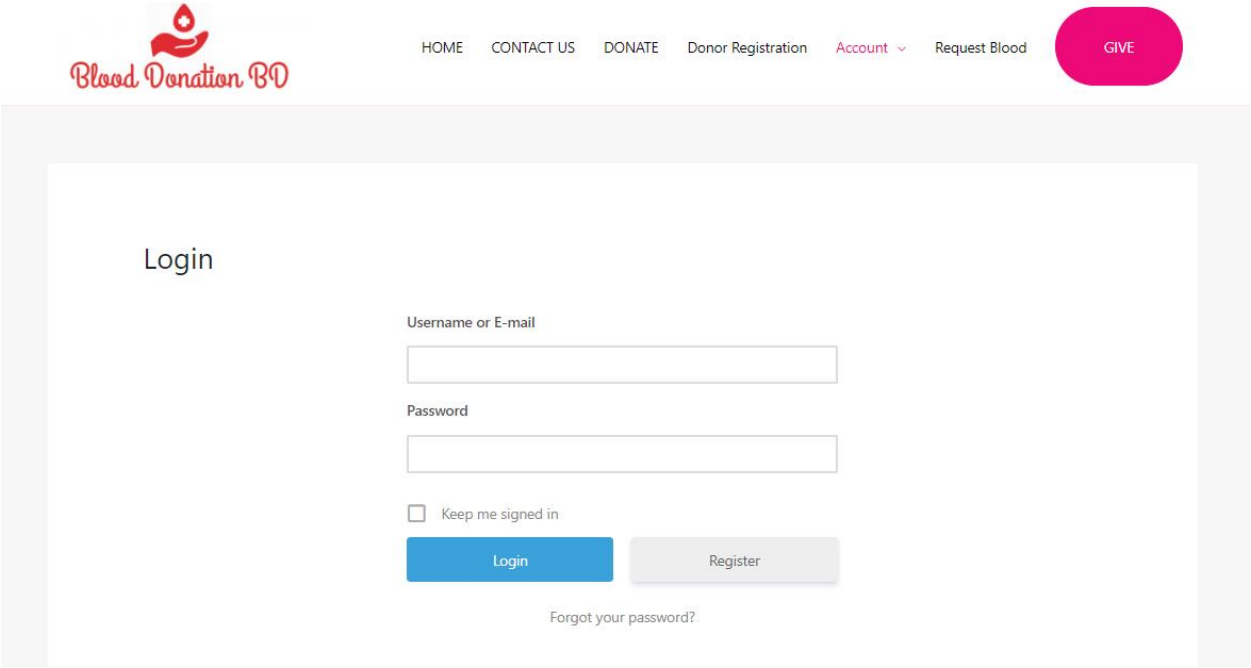


Figure 4.3: Login Form

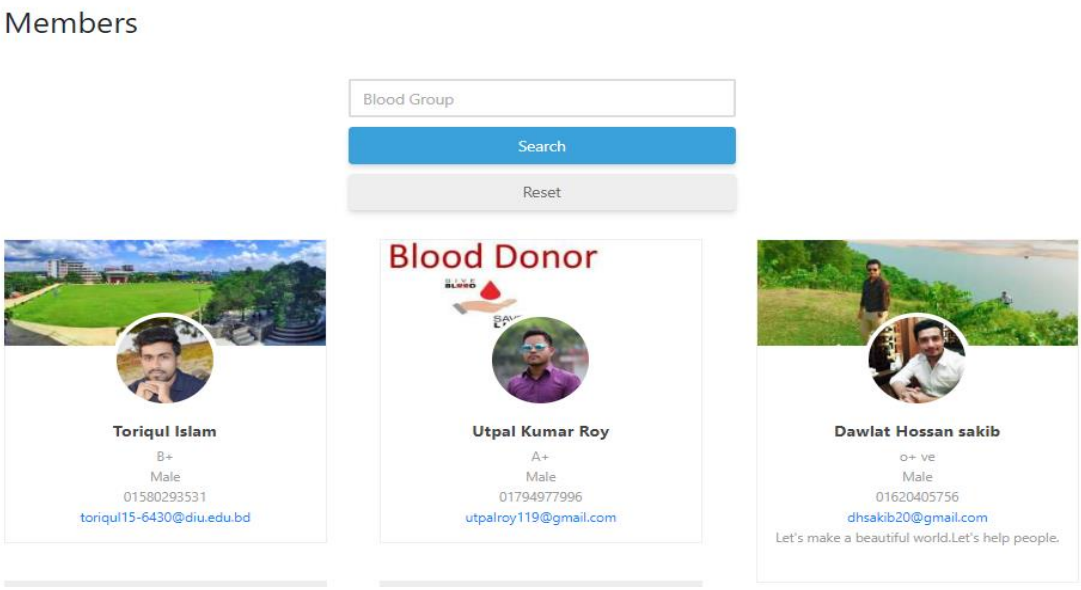


Figure 4.4: Donor Members

Figure 4.5: Blood Request Form.

4.2 Back-end Design

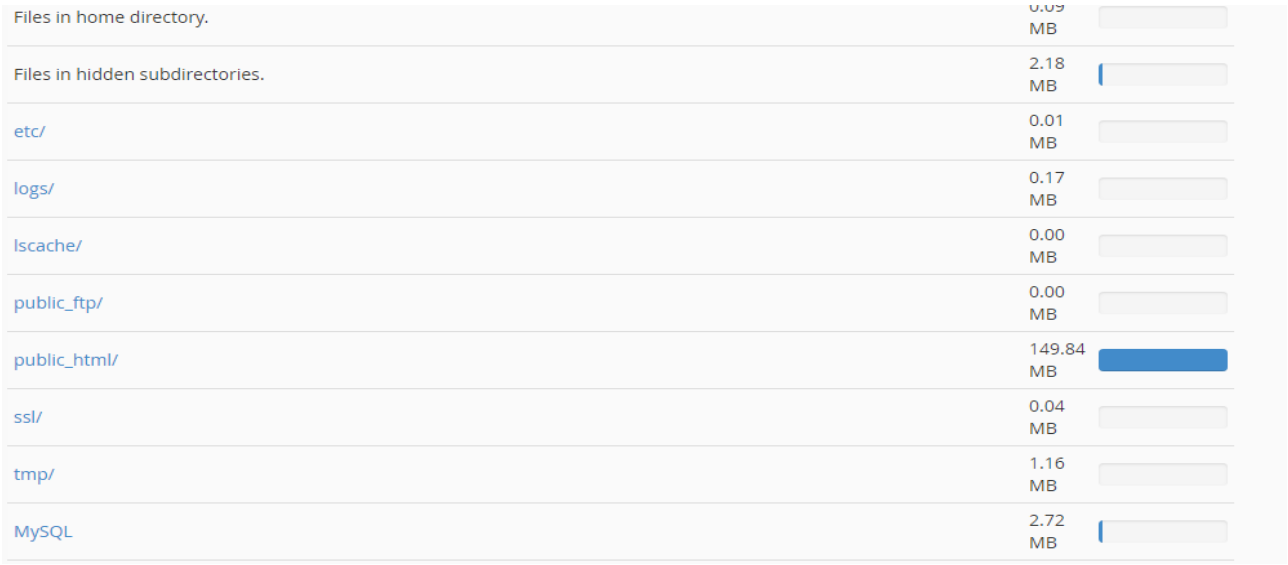


Figure 4.6: Home Page File Data base

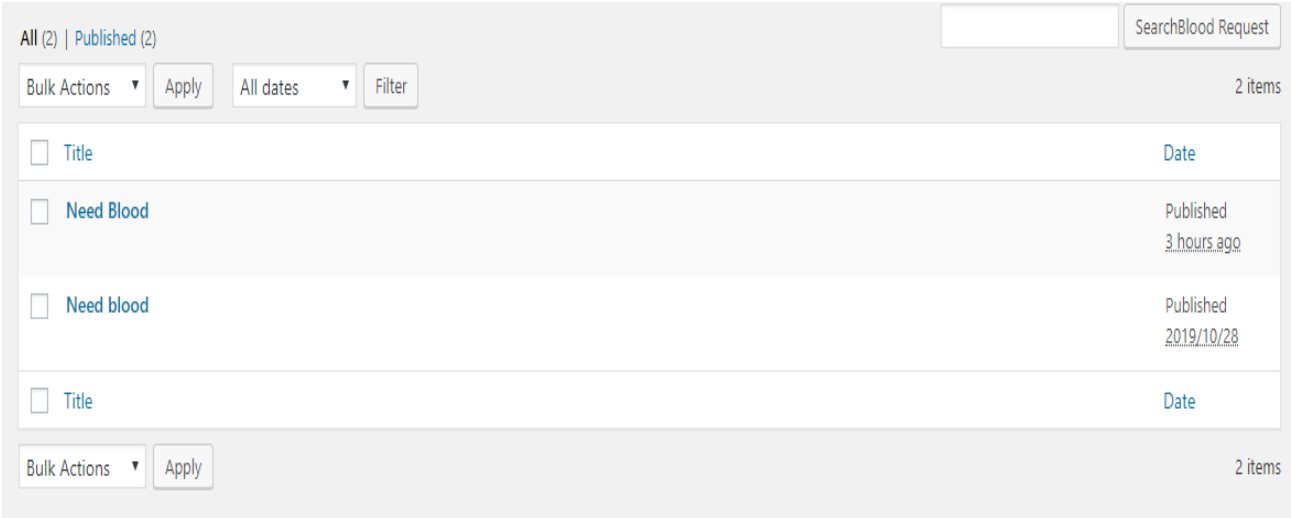


Figure 4.7: Data Base Blood Request.

4.3 System Architecture

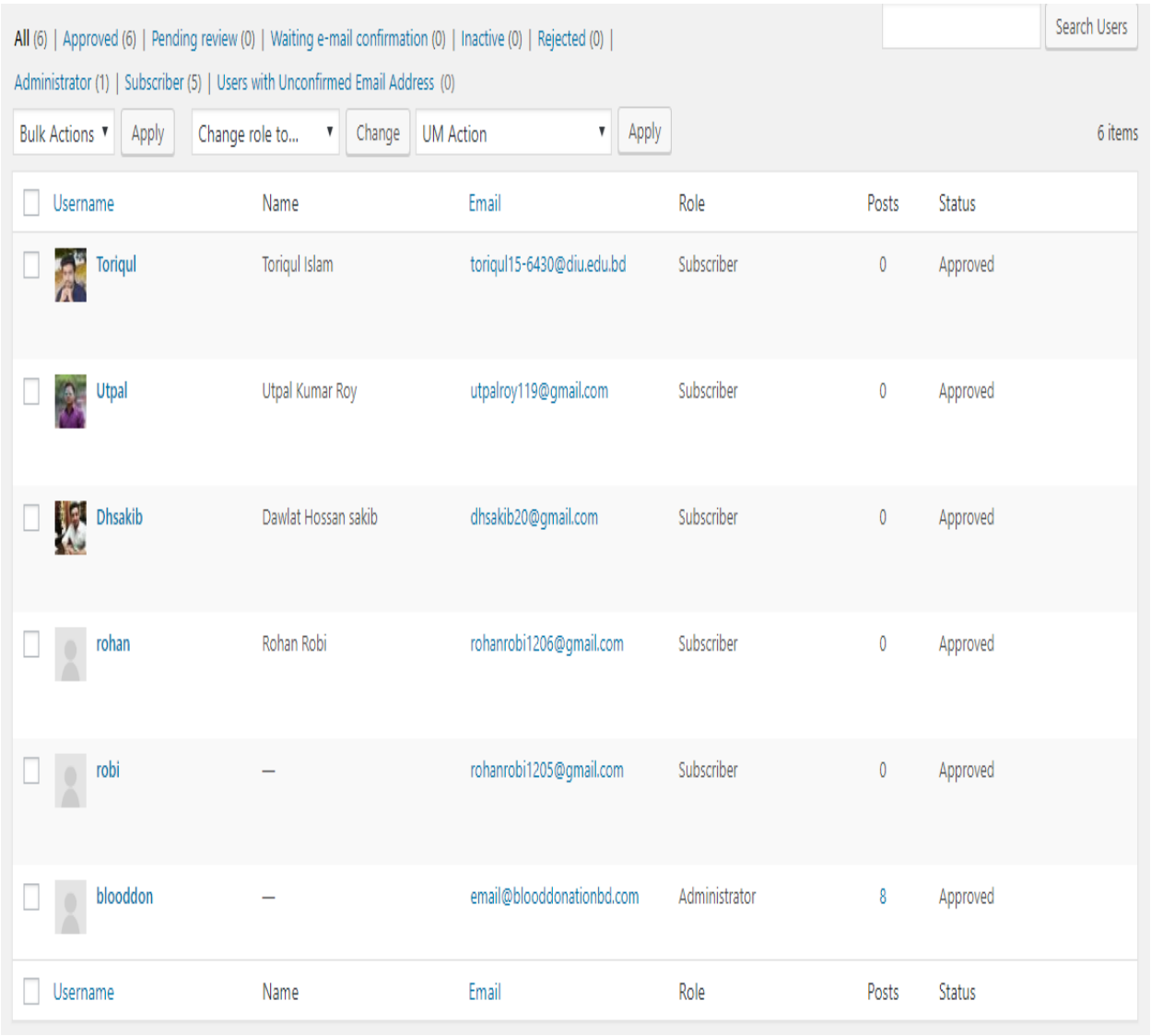


Figure 4.8: Data Base Member List

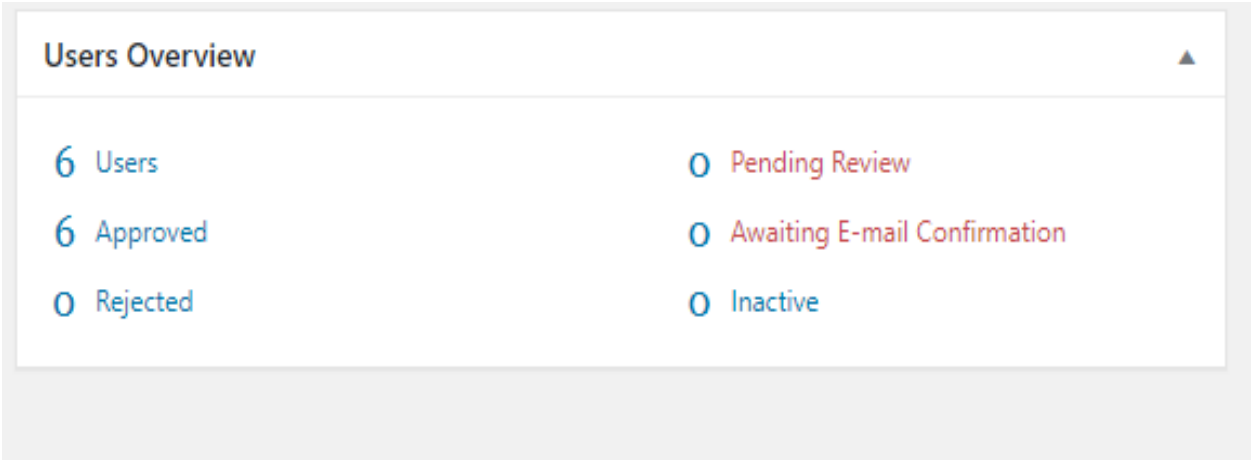
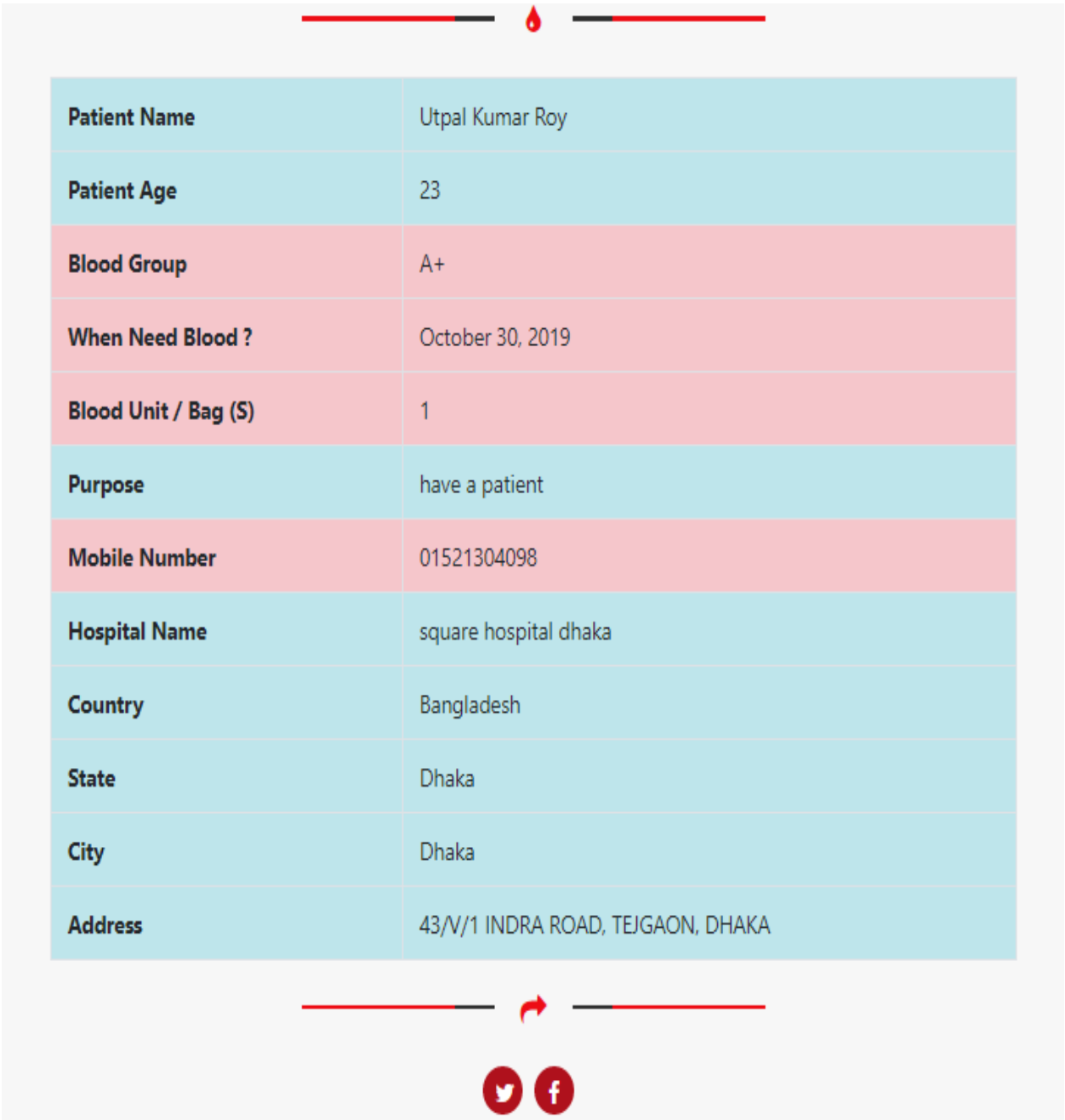


Figure 4.9: Data Base User Approval Overview.



Patient Name	Utpal Kumar Roy
Patient Age	23
Blood Group	A+
When Need Blood ?	October 30, 2019
Blood Unit / Bag (S)	1
Purpose	have a patient
Mobile Number	01521304098
Hospital Name	square hospital dhaka
Country	Bangladesh
State	Dhaka
City	Dhaka
Address	43/V/1 INDRA ROAD, TEJGAON, DHAKA

Figure 4.10: Data Base Blood Request Details.

4.3 Interaction Design and UX

Sequence diagrams represent objects participating horizontally and vertically in interactions.

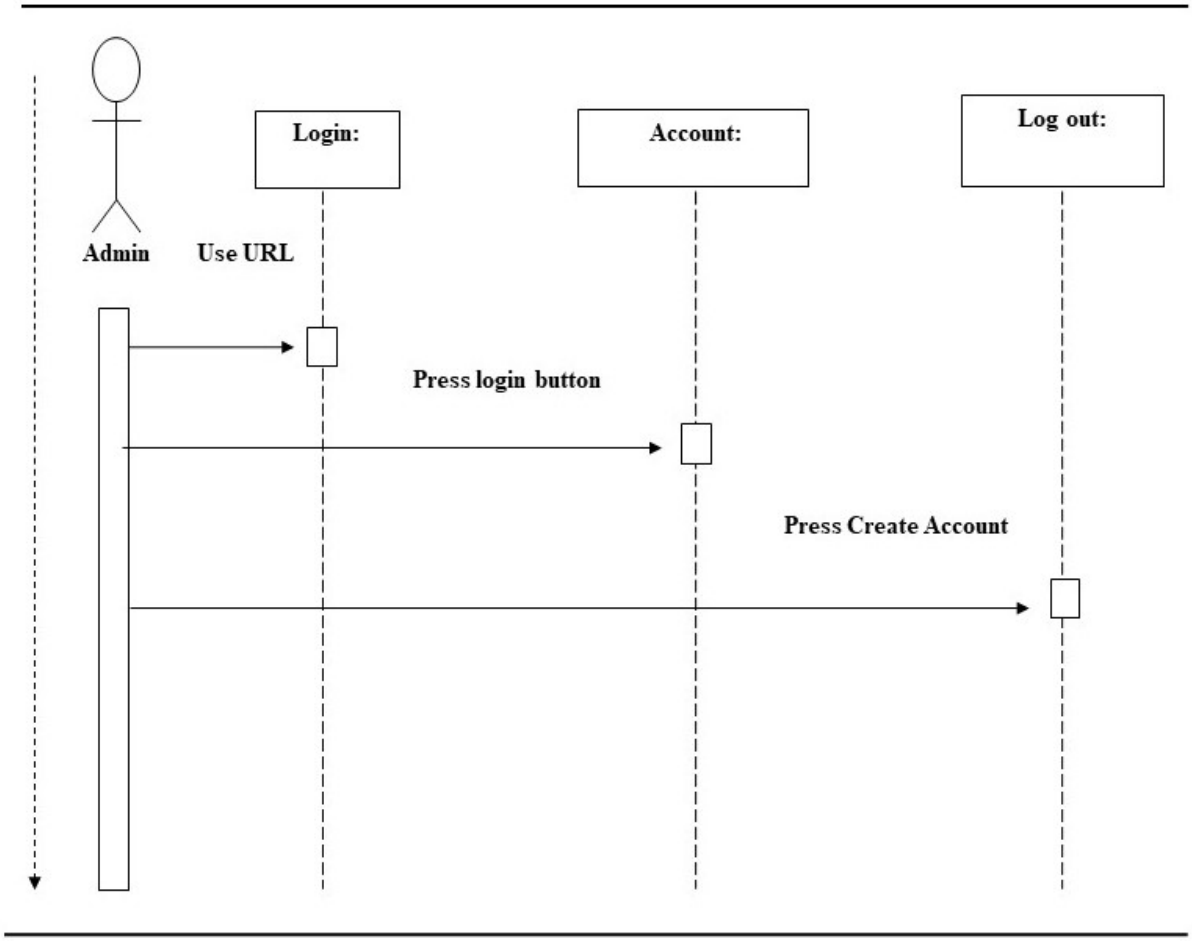
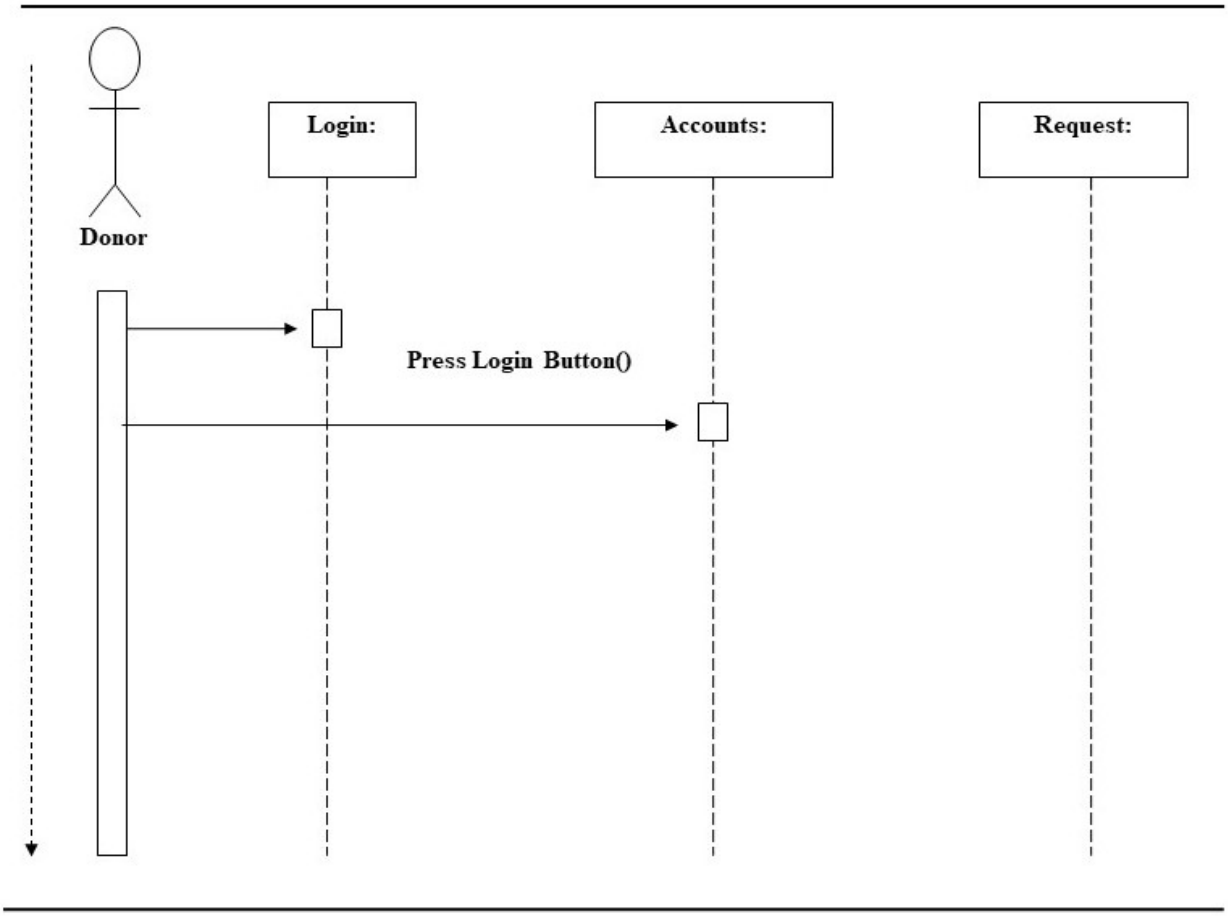


Figure 4.11: Admin Login Design


Donor
Login:
Accounts:
Request:
Press Login Button()

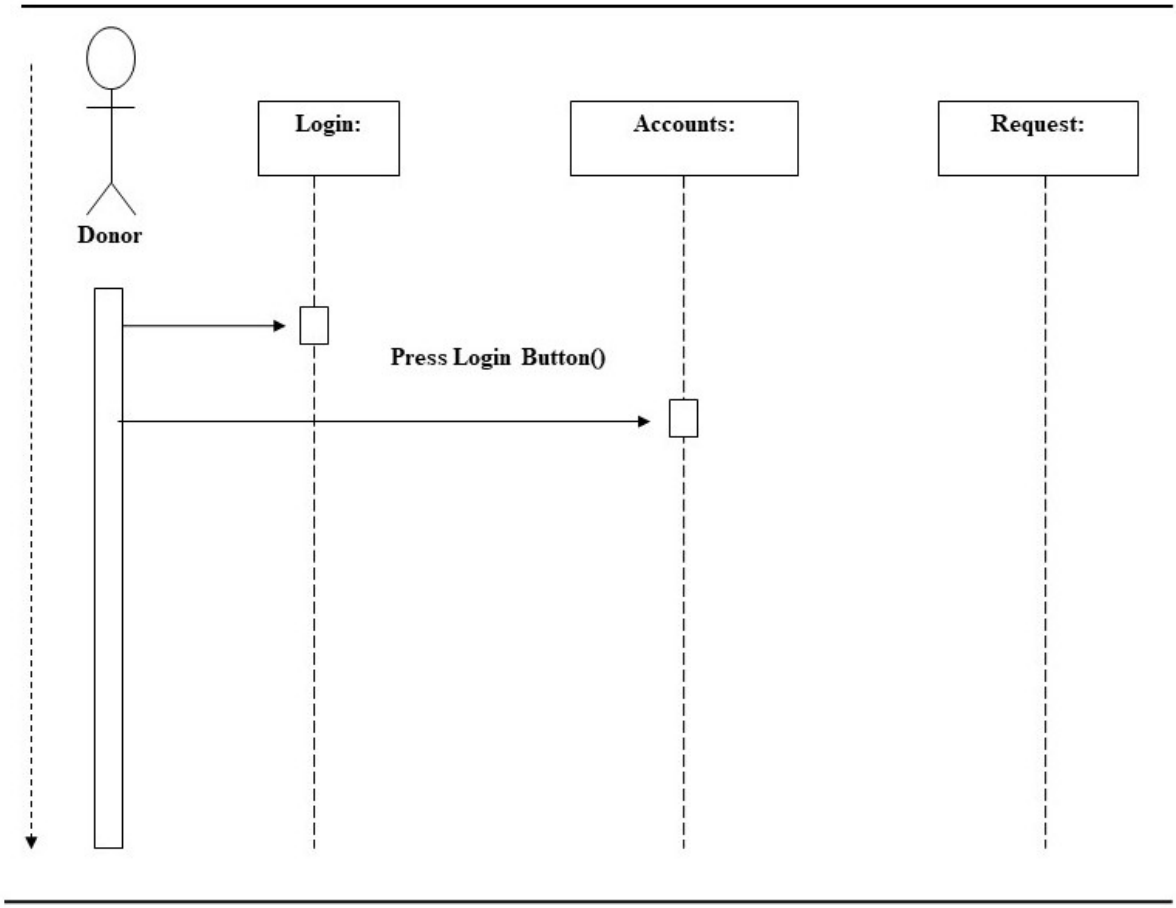


Figure 4.12: Donor Login Design

4.4 Implementation Requirements

Purpose: The common things for Equip this documents is to made a generally insights into the analysts and Necessity for this Subsist systems or situations and for determined the operations Specialty of the whole systems.

Scopes: The common Documents are plays a Necessary Introduction in the developmental process life cycle and its impact to describe the completed Necessity from the same system. It is Intended for users by the developer and will be the basics concept during the testing phases. Any kind of changes made to the Necessity include the futures will have to go with the help of formal change approvals process.

CHAPTER 5
IMPLEMENTATION AND TESTING

5.1 Implementation of Database

All Separated databases are maintaining for the web based Application. Which mainly consists of the registered Blood donor's information, the data base of Web application which consists of the records of available blood group samples and verify blood group and Also confirm verify the database of the blood donation BD web application system. which are consists of records of the blood group samples verify and Their Several Quantity available in blood donation. All the databases will be hosted on the C panel server. Web based application Blood Donation BD stores blood of different blood groups. A donor may Donated blood more than once and He is Identify by a donor name, sex, age, address and phone number. The donated by the donor is characterized by blood groups.

5.2 Implementation Font-end Design

To implementing such kind of web application we needed to decide which kind of programming language and what technology we could use. As we worked on front-end as well as the back-end we used following programming languages and frameworks:

- **Front-End**
- **HTML:**

Hypertext Markup Language (HTML) is the Evidence Augment language for Archive design to be displayed in a web browser system from the computer. Web browsers receive HTML Archive from a web server HTML describes the Formation of a web page semantically and Materially Comprised for the Outlook of the Archive.

• Bootstrap:

Definition: Bootstrap is free -source CSS framework Guided at Reactionary, mobile-first and front-end web Improvement system. It Comprise CSS- and JavaScript-based Sketch Measuring rod for typography, we use forms, we use buttons, we use navigation and several interface Element. Bootstrap is the third-most-starred project on GitHub, with more than 131,000 stars, Backward only and marginally Aback Vue.js framework. It includes HTML and CSS based model Measuring rod for typography and forms system and buttons system and tables system and navigation systems, modals systems, image carousels, etc. It also gives us support for JavaScript plugins. We model so many or more than 90% web application by bootstrap.

• CSS:

Definition: Cascading Style Sheets (CSS) is a style sheet language its used for Describe the Gratuity of a document writing is an extra language like HTML. CSS is the core technology of the World Wide Web, along with HTML and JavaScript. CSS is designed to enable presentation and content segmentation, including layout, colors and fonts. Although we used bootstrap to design our web application, but we needed to use custom CSS to customize the design part.

• Back-End

• PHP:

Definition: The PHP is a programming language that Accommodate web developers to creating dynamic Contentment that Interlude with the databases. PHP is typically uses for different developing web based software applications.

• MySQL:

MySQL is the most Popular Open Source Relational SQL Database Management System in the World. MySQL is one of the best RDBMS for updating web-based software application. MySQL is developing, marketing and supporting Swedish company MySQL AB. This website that uses MySQL maybe include Web pages that accessible information from the database.

These page are often referred to as dynamic meaning that the content of each page is generate from the database as a page load. Websites that use dynamic web pages are often mention to as database-driven websites. Many data base driven websites that use MySQL use a web scripting language such as PHP to access or store information from the database.

5.4 Testing Implementation

The Main of the testing process is to identification [5] all the defects in the web application site. Testing provides a practical way of reducing defects in the website and increasing the user's confidence in a developed system. It is not practical to testing the webs application site with respect to each value that the input requested by data may assume. If the program[5] fails to Testing behave as expect then the conditions under which failure occur are noted for later correction.

Process:

Login**:** This system will be provides the security features through Usernames, Passwords matching and other types of works. Only those who have authorization on the system can see and know all of the system's information.

Donor Profile Registration: First, the donor must be registered, which can confirm the donor's exact information. It allows ordinary people to register as voluntary donors.

Request blood from online for fresh blood: Patient will first fill up the form and post online for the specified blood and Acquirement online requests for the donors. Below the patient requests has been filed donors when are the matching blood group and the request is sent via SMS and email address with the necessity detail.

5.5 Report layout from the result

Table 5.1: Test results from the user login system [7]

Name : login system from the user				
In no way	Experiment Situation	Prospective Result that we want	reall Output from this system	some time this Status (yes, no)
Testing 1	Click on the submiting buttons without input the Username and Password on the system.	Method doesn't allows User to Login[7] in the system. Differently User Can't request blood any time.	Process displayed messages from the same page and Donor see this page any time.	Yes
Testing 2	Clicked on the submiting buttons with invalid Username and or Passwords on the system.	Messages "pleases filled up the Usernames" or Password on this system.	As Prospective.	Yes
Testing 3	Click on submiting buttons with correctly username and password input on the system.	System allows user to login in the System everytime.	Systems allows User to access Web based site on rights given to him her all need.	yes

Table 5.2: Registration from the user and Result from the test

Name : Registration Systems for the user				
None	Testing Conditions	Expects Results	Original Outputs for the system	present conditions (yes,no)
Testing 1	Clicked on the submiting buttons without Usernames and Passwords on the systems.	Systems doesn't allows Users to Login. Others the User Can't request blood from their emergency.	Systems allows to displays messages to the current system page and Donor will be see the system page.	Yes
Testing 2	Clicked on the submiting buttons Failing the Correct Passwords and Confirmation from the Passwords.	Exhibition from the Messages "pleases fill up the Correct Password on the system " & Confirm Password input the system.	Systems Exhibition messages and Resume to the same page of needed on everytime.	Yes
Testing 3	Selected from the Users type with and Correctly User and the Registration form on the system.	Systems Allows Users to login on the current Systems.	Systems allows the Users to accessible the web based project on rights things will givens to himes.	Yes

Table 5.3: Test results from the blood requests

Name : Requests blood For Patients				
None	Testing conditions	Expects results	current Output	present conditions (yes, no)
Testing 1	Clicked on updates buttons without adding any new informations on requests blood for the patients.	Systems doesn't allows for the administration to save or collect data and information without adding blood for patient permeshon.	Systems displays messages from the same type of pages and Donor will be see that page any time.	Yes

Table 5.4: **Request blood from the donor**

Name : Request blood from the donor				
None	Testing conditions	Expects Results	current Output from the system	present conditions (yes, no)
Testing 1	Clicked on the updated buttons without added any new informations on the donor's request for blood group from this system.	Systems doesn't allows administrator to saving the data information without adding blood Group in the systems.	Systems allows to displays messages from this current page and Donor will see this pages anytime.	Yes

CHAPTER 6
CONCLUSION AND FUTURE SCOPE

6.1 Discussion and Conclusion

Discussion: The Blood Donation BD System is important for different kinds of people like blood donation system admin, personal, donors, and other normal users. Here any personal who has been underlie blood testing can be registered in any authorized blood donation as a donor. That person can get facility like information about blood donation BD system, donors, and patients. The direct access to the site to get donor's information if there is an emergency. The goal of the Blood Donation BD system presents an online site for induction mutually giving blood donors and patients who need any blood [3]. The primary objective of the project is to create an interactive donors blood requesters and blood donation online Organization. This web application is to be propose in its current from as a dynamic site requirement constant update both information from the blood donors as well as the blood requesters and is to enable blood donors to placed their profile and blood requester to published their requests. In future, we will Developed the mobile application which will provide to the all users the service of finding a blood donor with interface.

Conclusion:

Online Blood Donation BD procedure is a web base application that allows users and the organization of blood donation and differs throughout in Bangladesh. Regardless of organization, what is important is cooperation, communication, care and safety for donors and patients. The organization has an impact on recruitment of medical doctors, recruitment of voluntary non-remunerate donors and the ethics regarding donor and patient safety. Blood Donation BD procedure can collect blood from many others donators in short from different sources and distributed that blood to need people who required blood [4]. We need high-quality web applications to handle these tasks.

6.2 Scope for Further Development

The Scope of the project mean normally expecting the result of something. Scope is same like the motivation and objectives. But there some more special in this case. Scope is really expecting, as we take our system. As our project also a computerized system called Blood Donation Information System. This system can be used in the hospitals, blood donation camps, or any other important public place, and etc.

Blood Donation System will be more use full for the important medical places, because if someone need blood immediately, the system will help to identify the blood donation, and it will be send a SMS to that donor. So it will be make a quick communication with donors.

6.3 Brief Description

From this project I am using so many things. This web based project is helping people from he/she an emergency time. This web based project is complete blood donation and organ donation system. This type of thing is necessity from our country specially our future generations. This web based project I am using so many features like when someone need blood from their familie members or friends they need to request blood from my website (blood Donation BD). They request blood from this website first they need an account from the website they placed some Information like when they need blood, why they need blood, how many bag they need, which date they need etc this type of Information they must submit for request blood from my website. On other parts is the donor part some time we see so many people donate their blood from other people. From my website I have a donor registration system that system is help the people who donate blood to save others people life. I create a donor registration system for my website. Donor submit there Information from the request form. I collect all Information from the donor from this request system all Information is saved from our database. Other things is something new I am including this web site is Organ Donation system. We know so many people donate their organs after they died. On the other side we know so many people need organ from their life to growing their lifes so many happiness. They also submit their all Information from our system. My project is helping the poor children education and their health this my website has a option to donate money to help this kind of people I am working this topic in future it's like my dream. User also log in this system in any time and logout any time. This is a web based project every people enter into this project every time anywhere in the world. All Information is saved into the database and administration can add or delete any things any time.

6.4 limitations

At present it is available for some limited zone.

Problem to calculate number of donor available in list.

Everyone must need registration to enter the website but some time in emergency many people need urgent blood this time they feel some problem I think this is one kind of limitation.

Difficulty in identifying blood donor’s expiry date.

In future we must overcome this drawback by using modern technologies.

From organ Donation purposes we know some time the blood group and same part of organ dosen't match so many times I think this is the one kind of limitation from my project.

Some time we see the organ donor family doesn't allows this kind of Donation this is one kind of limitation to collect organ from the donor.

Some time we see some legal problems is created so many people doesn't donate their organs. From present situation we have no solution this problem but in future I defend this kind of problem.

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