Blood Bank

This Project report has been submitted in fulfillment of the requirements for the Degree of Bachelor of Science in Software Engineering.

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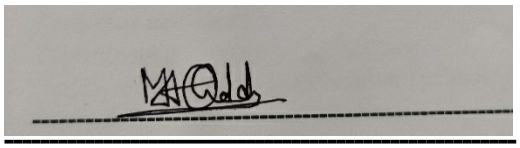
I hereby declare that I have taken this project under the supervission of **Habibur Rahman,** Snior Lecturer, Department of Software Engineering, Daffodil International University. I also decleare that neither this project nor any part of this report has been submitted else where for any degree or award.



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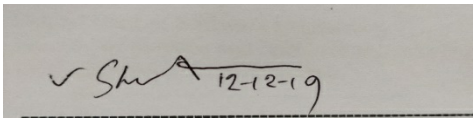

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Most importantly, I offer our thanks to the Almighty Allah for enabling us to finish this Project. I am likewise appreciative to my folks who consistently bolster me and empower accomplishing something for humanity. Presently I might want to offer the thanks and thankfulness to every one of the individuals who gave me the likelihood to make my venture, venture documentation progressively successful and furthermore finished. A unique gratitude to my director and our decent Teacher "Habibur Rahman", whose help, recreation and support, helped me to organize my venture particularly composing this documentation.

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Finally, I would like to thank my family and friend for their support. I wouldn’t have been able to get here without them.

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ABSTRACT

Blood Bank is used widely in any situation where anyone needs to contact or find the Donor. This system is online base, so, anyone can find the donor through internet. This project's perspective, I would have given a name and that's "**Blood Bank**". Using this application seeker can view the post, create post, view notification, and search.

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1 INTRODUCTION

1.1 OVERVIEW

This framework is completely online-based. Benefactor data is recorded in the on the web. Prior to on the web, we have to record benefactor data in the paper -like register book, structure and all data are composed by hand. In this way, it is so hard to keep up with contributor data. We additionally discover a contributor through a Blood Bank. Subsequently, a few people exploit this site. I need to break this framework and I need to simple, bother free discover benefactor framework. Normally, we saw that individuals are towards to a great extent for looking through Blood if there should arise an occurrence of crisis.

This framework records the giver data that needs to give blood for humankind. By utilizing this framework, a searcher who fined the giver for his/her crisis can enlist to the framework and make a post for the normal Blood Group with the area. At that point, the framework sends a warning to the whole giver who has that blood bunch in that area to give blood that individual. At the point when the benefactor acknowledges the solicitation, the framework sends the giver name, Contact data to the blood searcher.

1.2 Purpose

Online Blood Bank Records Donor information so that anyone can find donor according to the Blood group and location. So, we can define the purpose for Donation Blood for mankind.

1.3 Background

As normal Blood Bank records its Donor data in a Register book, paper, and so forth subsequently, it is hard to discover a Donor effectively. It is additionally hard to keep up These paper books. Other than these, a gathering of individuals exploits this site. In this way, I need to develop this framework completely humankind with the goal that individuals can without much of a stretch to discover the Donor at their crisis time. The Donor additionally give their Blood as the ideal spot with their fulfillment.

1.4 Objectives

- Easy to communication with Donor.
- Seeker can easily find the Donor.
- Donor can notice when, where he/she Donate Blood.
- Seeker can find Donor in the right place.
- Donor can manage Blood Donation Request.
- Easy to use.

1.5 Stakeholder

There are many members associate with this project. They have helped to develop the system directly or indirectly.

Internal Stakeholders:

1. Admin
2. Donor
3. Seeker

External Stakeholders:

1. Patient.
2. Visitor.

1.6 Proposed System

To develop this Online Blood Bank, I proposed a model for this system. I clear the system briefly here.

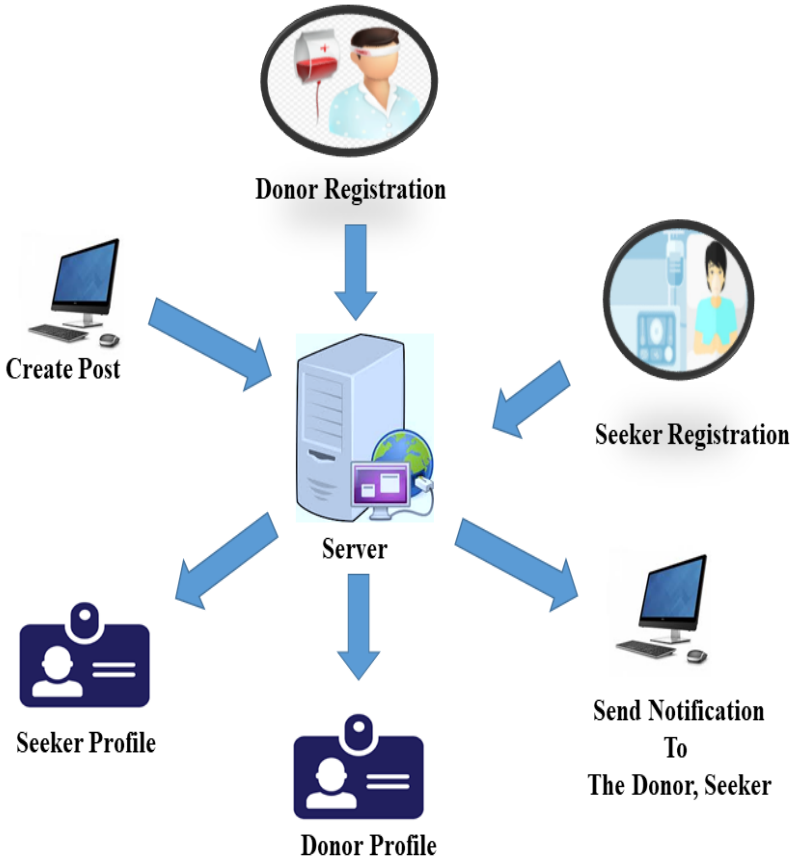

Figure-1.1: Propose System Model

In this framework, anybody can enlist as a Donor who need to Donate Blood for humankind. Who needs to enlist as a Donor, first he/she give his/her data. After register, a contributor can see his/her profile through a login utilizing the client name and secret key. Any individual who needs to Blood additionally should enlist as a searcher. At that point, the individual can make a post for Blood. The searcher can see the warning additionally that the giver reaction.

1.7 System process:

Figure 1.2: System Process Model

Using this system anyone can registration as a donor or blood seeker. Donor can view profile, handle request, login. Blood seeker can create post for blood, view notification etc.

1.8 PROJECT PLAN:

To full fill the requirements and complete the project the at the right time, project schedule helps for proper planning. I also make a project schedule to complete my project properly.

1.8.1 Gantt Chart

In project planning, I use Gantt chart to manage my project properly. To use this tools, I can track all the task which is not done or not. Also track which one is schedule for the next task. I control my project duration by this tools.

1.8.2 Risk:

In Gantt chart tools, I show the project duration. I took 25 days for developing, so that I could mitigate my risk. In developing page, I find out a risk that risk is developer. Who may sick or leave.

1.8.3 Milestones:

Milestones, a time frame of a project, will define the task. These project milestones are as follows:

Task No	Task Name	Duration
01	Planning	14 days

02	Requirement gathering & Analysis	13 Days
03	System Design	14 Days
04	Development	25 Days
05	Testing	7 Days
06	Implementation	7 Days
07	Relies	5 Days
	Total	85 Days

Chapter-2

Requirement Specification

2 SOFTWARE REQUIREMENTS SPECIFICATION

Requirements analysis is the process of identifying the user satisfaction form the System. So, Requirements analysis is an important part of project management.

When I selected this project I thought about some specific Software requirement, like as…

- Who is the stakeholder of this system?
- Is it helpful for them or not?
- Functional & Non- functional requirements
- Maintenance of the system

2.1 FUNCTIONAL REQUIREMENT:

The functional requirements of the system are like below---

2.1.1 DONOR REGISTRATION:

FR-01	Donor Registration
Description	In this System, there are numerous clients like a searcher, guests, and so forth. Be that as it may, the Donor enrollment page is just for those individuals who need to give Blood for humanity and help the individuals. This page has required some data like as NID No, Phone No, and so on and store the information as a bit of

	contributor data.
Stakeholder	**Blood Donor.**

2.1.2 SEEKER REGISTRATION:

FR-02	**Seeker Registration**
Description	In this System, there are numerous clients like a searcher, guests, and so forth. But Seeker registration page is only for those person who search Blood for patient. This page is required some information like as Name, Phone No etc and store the date as a Seeker information.
Stakeholder	**Blood seeker, patient, Anyone who's need Blood.**

2.1.3LOGIN

FR-03	**Login**
Description	In this system there are many users like seeker, visitor, Donor etc. But Donor and Blood seeker can login after complete Registration.
Stakeholder	**Blood Donor, Seeker.**

2.1.4 CREATE POST:

FR-04	**Create Post**
Description	In this system only seeker can create post. To create a post for Blood, a person should have registered as a seeker. Hospital name, Location, Blood Group, phone, Date, Time are must to create a post for Blood.

Stakeholder	**Blood Donor, Seeker, patient.**

2.1.5 VIEW NOTIFICATION:

FR-05	**View Notification**
Description	Both Donor and Seeker can view notification. According to the seeker post donor get a notification to help the patient by donating Blood. If the donor response the notification, then seeker get donor information notification.
Stakeholder	**Blood Donor, Seeker.**

2.1.6 VIEW PROFILE:

FR-06	**View Profile**
Description	Donor can view his/her Profile. Seeker can see notification.
Stakeholder	**Blood Donor, Seeker.**

2.1.7 ACCEPT, REJECT AND REPLY REQUEST:

FR-07	**Accept, Reject and reply request**
Description	Donor can Accept, Reject request against the notification. Seeker can see notification.

Stakeholder	Blood Donor.

2.2 PERFORMANCE REQUIREMENTS:

It's very necessary to sustain the performance of the project. To assure the better performance, this project has to meet some requirements which will provide the better performance.

2.2.1 SPEED AND LATENCY REQUIREMENTS:

While inserting or viewing the system in the browser, system need a minimum amount of speed to perform the task.

SLR-01	The system will be faster
Description	When the user browsing, it depends on their internet speed. It also depends on server bandwidth speed.
Stakeholders	Donor, Blood seeker, visitor.

2.2.2 LEGIBILITY AND ACCURACY REQUIREMENTS:

System have to confirm the Legibility and Accuracy of the data.

LAR-01	Data accuracy
Description	The input data should be correct and right pattern data, otherwise the input information never save. Like NID No, Phone etc the input information is not valid, the data never save. Or the input data pattern is not match, the system never saves or accept the data.
Stakeholders	Donor, Blood seeker.

2.2.3 CAPACITY REQUIREMENTS

The system should maintain the all inserting data.

CR-01	**Manage the all data in database system.**
Description	All registration data like Donor registration data, Blood seeker registration data, Post information are store in the database in right format.
Stakeholders	**Donor, Blood seeker.**

2.3 DEPENDABILITY REQUIREMENTS:

Dependability means, it measures of a system availability, reliability, security etc. Here, dependability means the running time of this project.

2.3.1 RELIABILITY AND AVAILABILITY:

RA-01	The system must be available 24x7
Description	➢ It's available 24 hours in a day ➢ The system must be updated regularly
Stakeholders	**Donor, Blood seeker, visitor, patient.**

2.3.2 SAFETY CRITICAL REQUIREMENTS:

There are no specific safety critical requirements.

2.4 MAINTAINABILITY AND SUPPORTABILITY:

For Maintenance The system and support the system, some people associate the project.

2.4.1 SUPPORTABILITY REQUIREMENTS SPECIFICATION:

- **SRS-1.** To understand the system's behavior on a technical support is required by the system operator. The reason for reading them might be
- **SRS-2.** System malfunction has occurred and the system operator has to find the exact point of time when this happened
- **SRS-3.** System produces wrong results and the developers must be able to reproduce the data flow through the system
- **SRS-4**. Hacker tried to breach the system's security mechanisms and the system operator must understand what he did.

2.4.2 ADAPTABILITY REQUIREMENTS:

There are no specific adaptability Requirements.

2.5 SECURITY REQUIREMENTS:

- **SR-1.** Log in as a Donor
- **SR-2.** Log in as a Blood seeker

To get access to this system or a specific module the system must provide an authentication mechanism. To prevent anyone to exploit stolen Data all user's password must be encrypted in hash process.

2.5.1 ACCESS REQUIREMENTS:

This system provides accesses the different module, by access the authentication way the authentic user.

2.5.2 INTEGRITY REQUIREMENTS:

To prevent credentials information of user from being stolen, all passwords are stored in encrypted form. The Requirements significantly reduces the value of stolen user credentials, it's not easy to decrypt the password.

2.6 USABILITY AND HUMAN INTEGRITY REQUIREMENTS

This system easy to use and all of the people who wants to donate blood and who need blood.

2.7 Data Validation

In this stage I have try to validate almost all input field

2.8 User Interface Design

It is important to consult the system users and their necessities while designing the user interface.

Chapter-3
Requirements Analysis

3.1 Use Case Diagram:

In this system a user (Donor) what things he/she can do, is describe in this picture that provide in below. A Donor can login in the system. But before login he/she must registration in this system as a Blood Donor. Than he/she can access the login option. Donor also view Blood donation request, profile etc. Donor also handle the request.

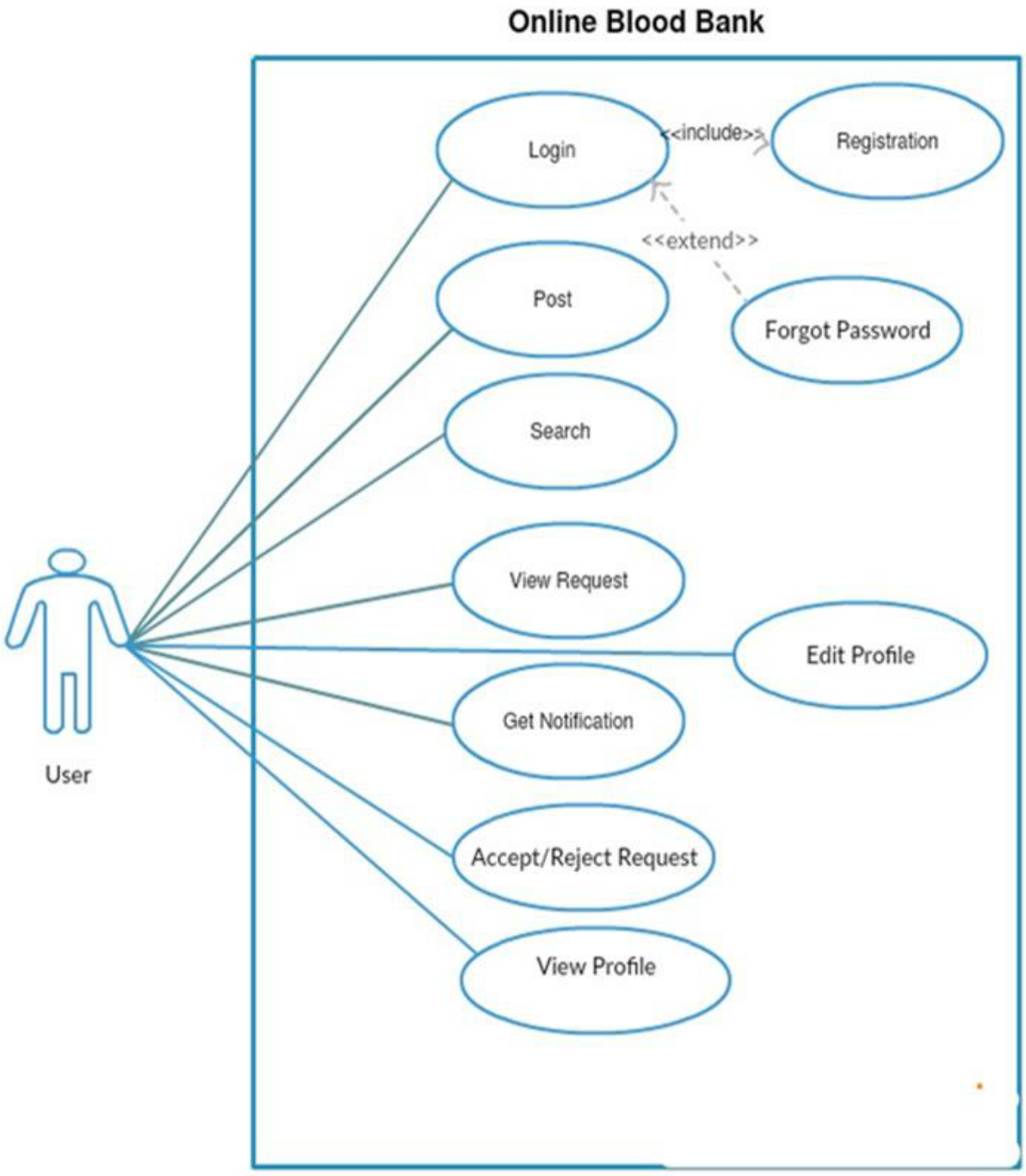

Figure-3.1: Use-Case Diagram user (Donor)

3.1.1 Donor

Use Case Title	**Donor**
Goal	Insert Donor Information to the database.
Precondition	User must NID No, Phone.
Success & End Condition	System store the Donor information.

Failed End Condition	Database can't store the data.
Primary Actors: **Secondary Actors:**	Donor
Tigger	Donor Registration
Description	Who want to Donate Blood is must to registration in the system insert his/her information.
Alternative Flows	N/A
Quality Requirements	N/A

3.2 Use Case Diagram:

A blood searcher, what elective that he/she can get to or can do by this structure is depicted in this picture showed as pursues. A blood searcher can make a post. In any case, to make a post for blood, he/she should sign in to this system. To sign in to this system, he/she ought to be taken a crack at this structure. Searcher can see post-response, search.

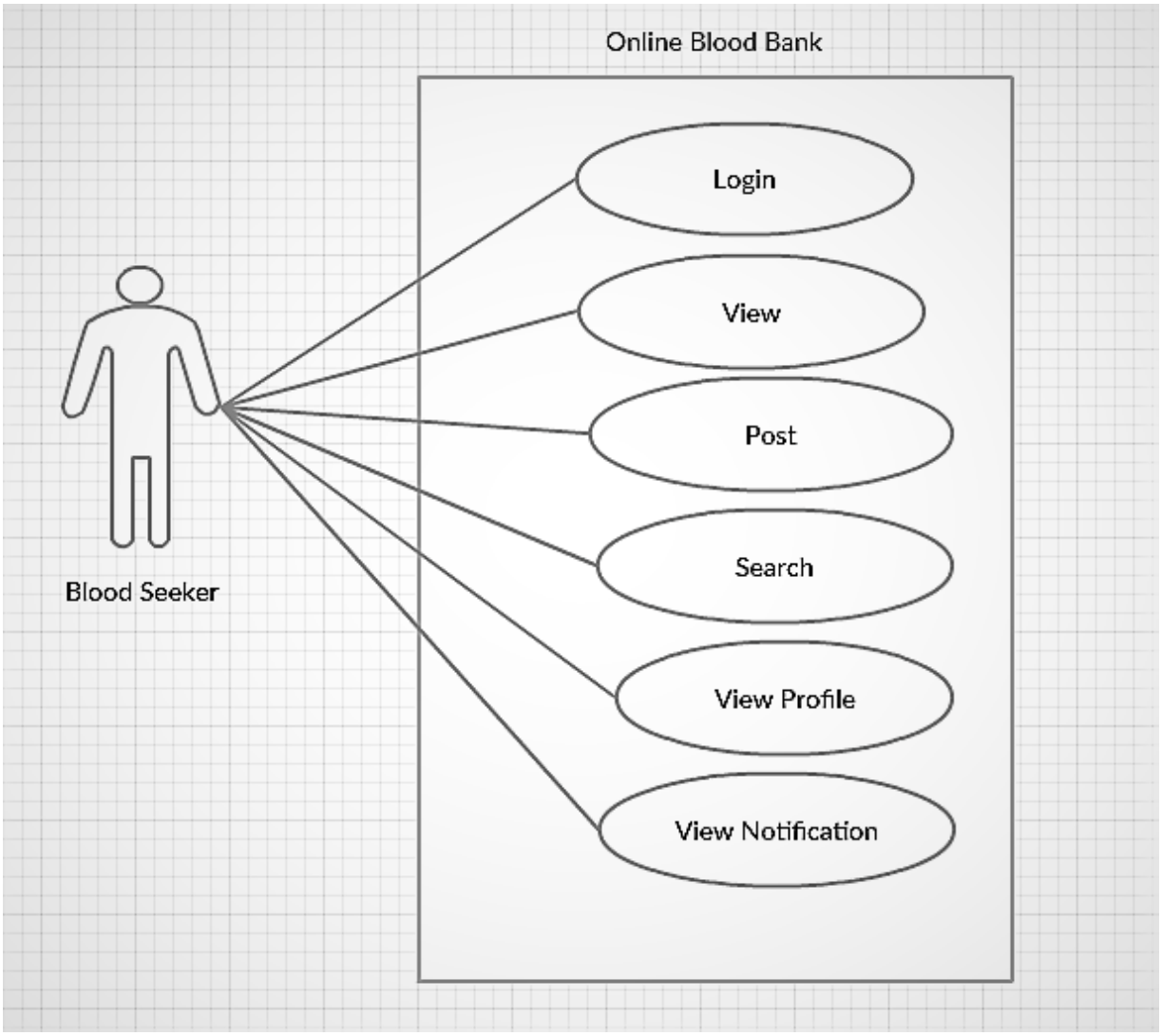

Figure-3.2: Use-Case Diagram user (Blood seeker)

3.2.1 Blood Seeker:

Use Case Title	**Blood Seeker**
Goal	Insert Blood Seeker Information to the database.
Precondition	User must have a Phone number.

Success & End Condition	System store the Donor information.
Failed End Condition	Database can't store the data.
Primary Actors: **Secondary Actors:**	Blood Seeker
Tigger	Blood seeker registration, Create post
Description	To search Blood in the specific location and create a post for Blood, a Blood seeker must be registration in the system.
Alternative Flows	N/A
Quality Requirements	N/A

3.3 Activity Diagram

Following activity diagrams are exactly describing the flow of the different state of the project.

3.3.1 System Activity

By this figure I explain my system. If anyone enter the system, he/she see the all the

option. And who are registered user and he/she can login in the system. After login criteria he/she can access different option.

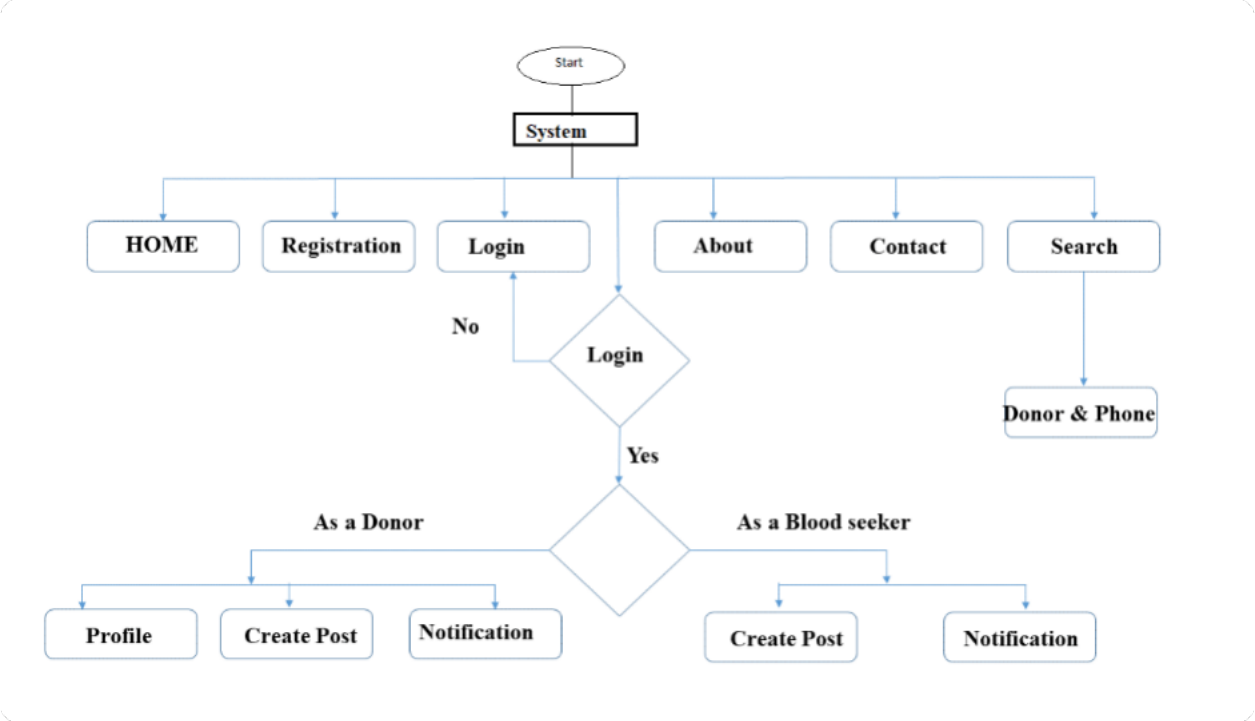

Figure-3.3.1: System Activity

3.3.2 Registration Activity

By this figure I explain Registration process. If anyone enter the system, he/she see the all the option. And who are want to registration, he/she might do follow the instruction. After successful registration he/she can login in the system and access different option.

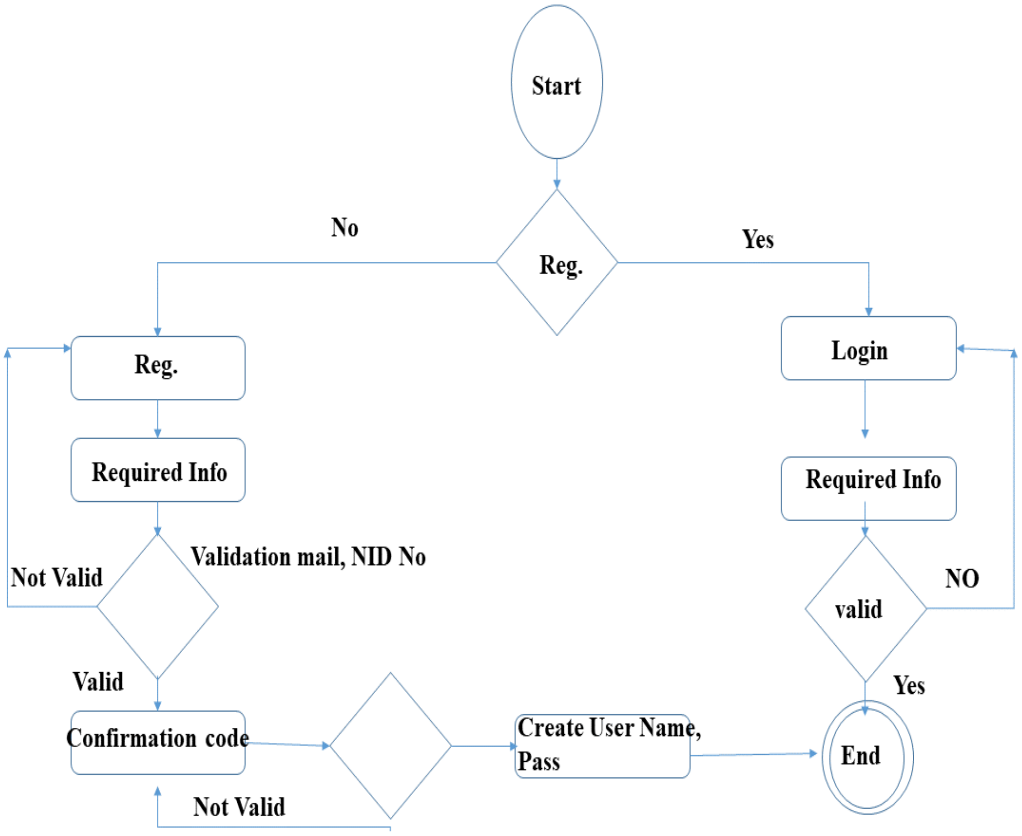

Figure-3.3.2: Registration Activity

3.3.3 Create Post Activity

In this figure I show the create post process. If anyone enter the system, he/she see the all the option. And who are registered user as a seeker, he/she can login in the system. After login he/she can create post for blood.

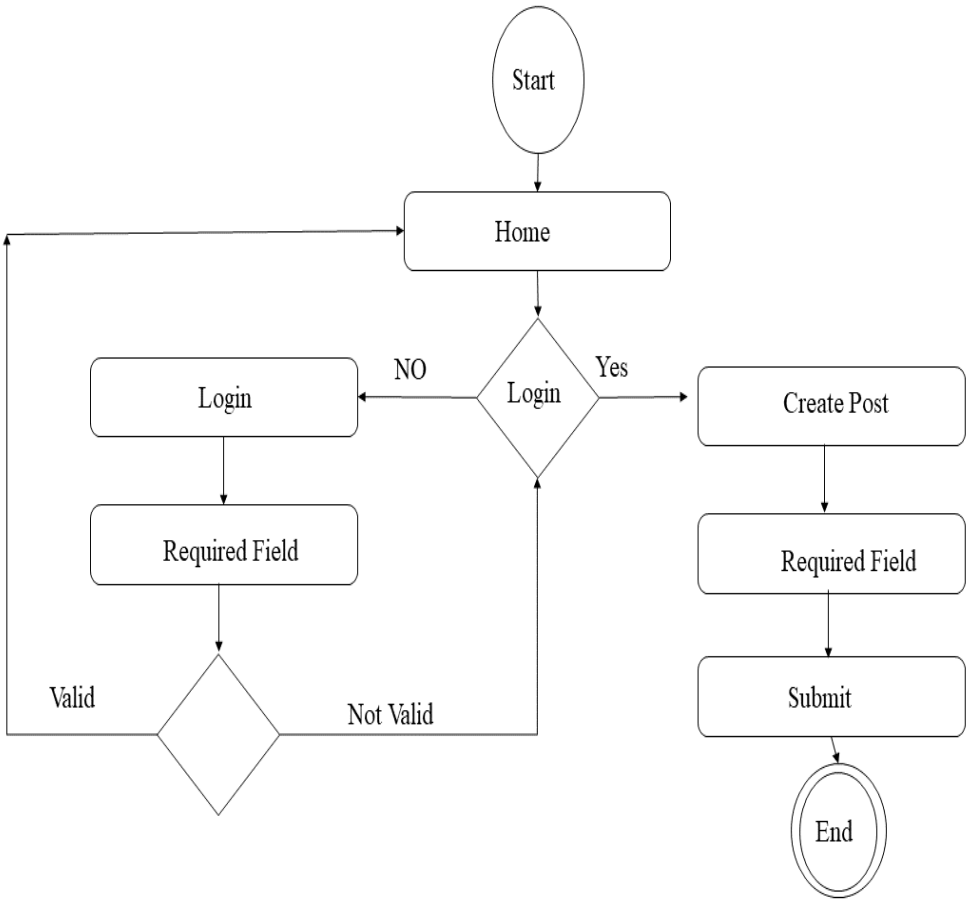

Figure-3.3.3: Create Post Activity

3.4 Sequence Diagram:

Sequence Diagram show the process in sequential way that it's actor done.

3.4.1 BLOOD SEEKER SEQUENCE DIAGRAM

In this picture describe the Blood seeker work sequence system to database. A blood seeker can request for registration, login, create post, view notification and all these 1st go to the system than check in database. If the request is valid than system get confirmation and system confirm the seeker.

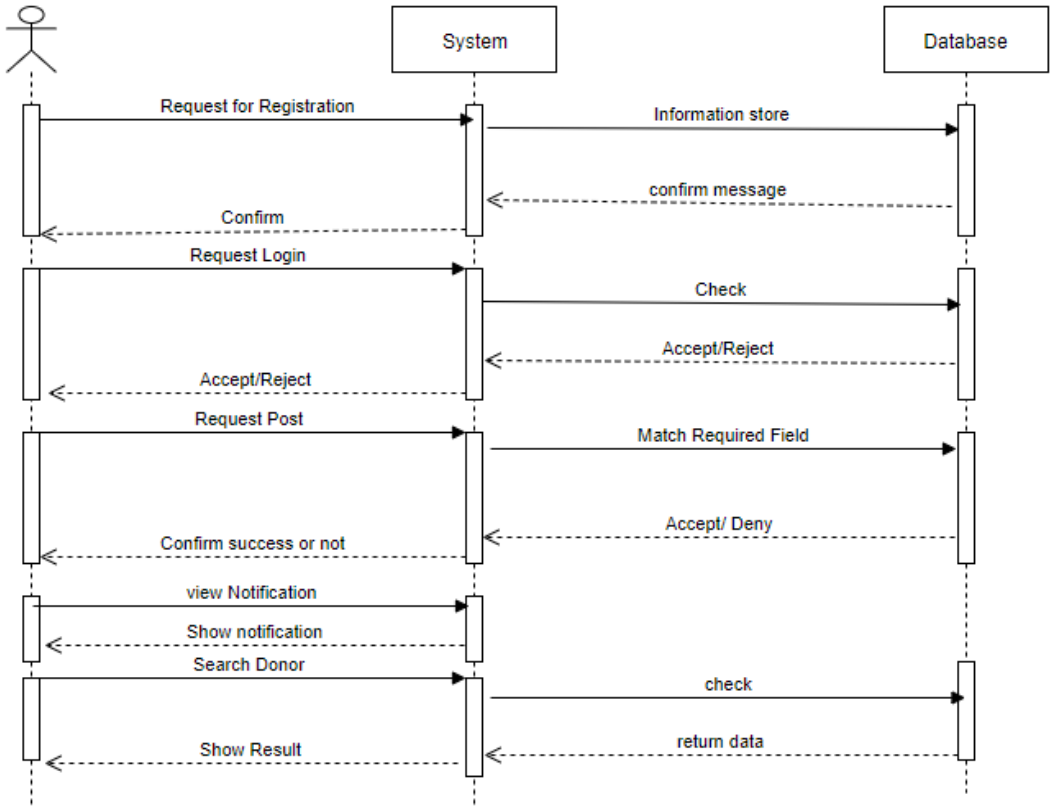

Figure-3.4.1: Blood Seeker Sequence Diagram

3.4.2 DONOR SEQUENCE DIAGRAM:

In this image depict the Blood Donor work arrangement framework to the database. A

blood Donor can demand for enrollment, login, make a post, see warning, see profile, and all these first go to the framework than registration database. On the off chance that the solicitation is legitimate than the framework gets affirmation and the framework affirms the searcher.

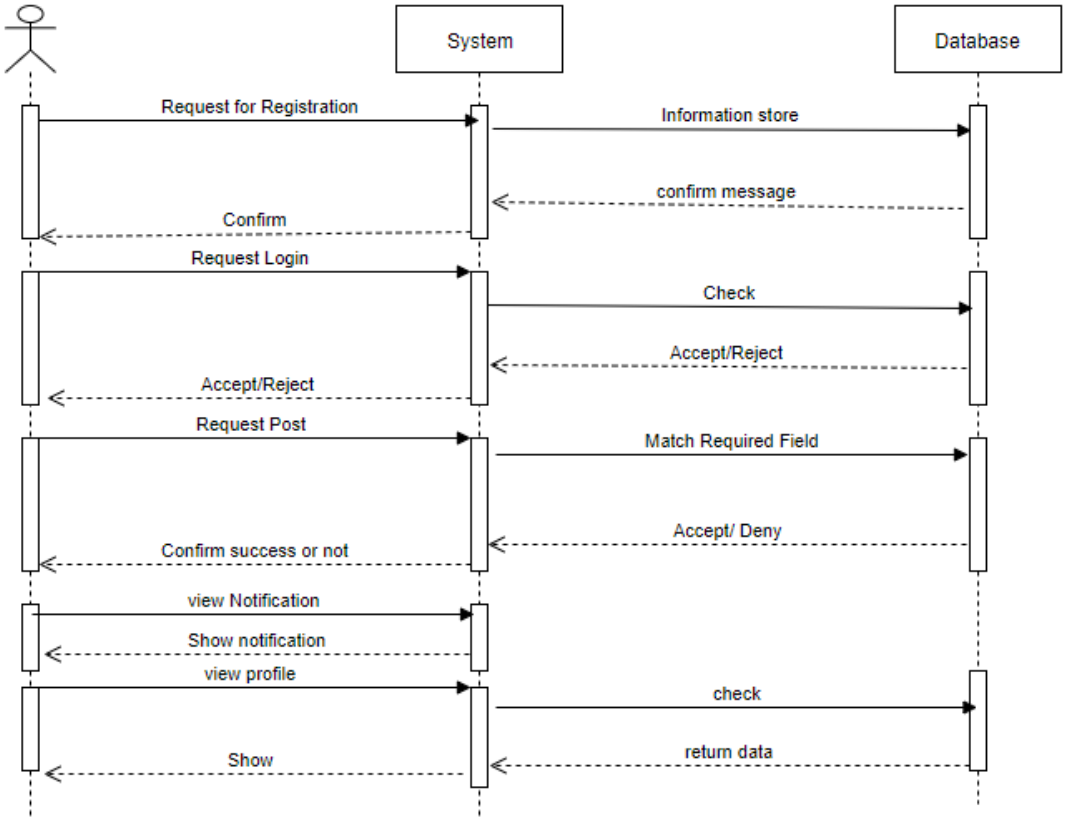

Figure-3.4.2: Blood Seeker Sequence Diagram

Chapter 4
Design and Development

4. Technology & Tools

For developing this project, I have used some tools and technology that's are talking in below.

4.1 User Interface Technology:

User interface (UI) is everything designed into a system view that a person's associates with this system may like the interface of this system.

4.2 TECHNOLOGY

- Programming language: Php
- Web server: Apache
- Design: html, CSS, bootstrap, JavaScript, Ajax
- Database server: MySQL Server

4.3 TOOLS:

- Xaamp
- SQL Server Management
- Windows 10

4.4 ERD:

This figure shows the database connection. DonorInfo table and Blood Group table is balanced relationship. Since One Donor has one Blood Group. Searcher table and Blood bunch table additionally coordinated relationship, since one searcher can post just for one blood gathering. The giver and client table are coordinated connections in light of the fact that NID data just a single contributor and it is a one of a kind number. Giver and warning table one such a large number of connections since one benefactor can get more than one notice. Same as warning and searcher.

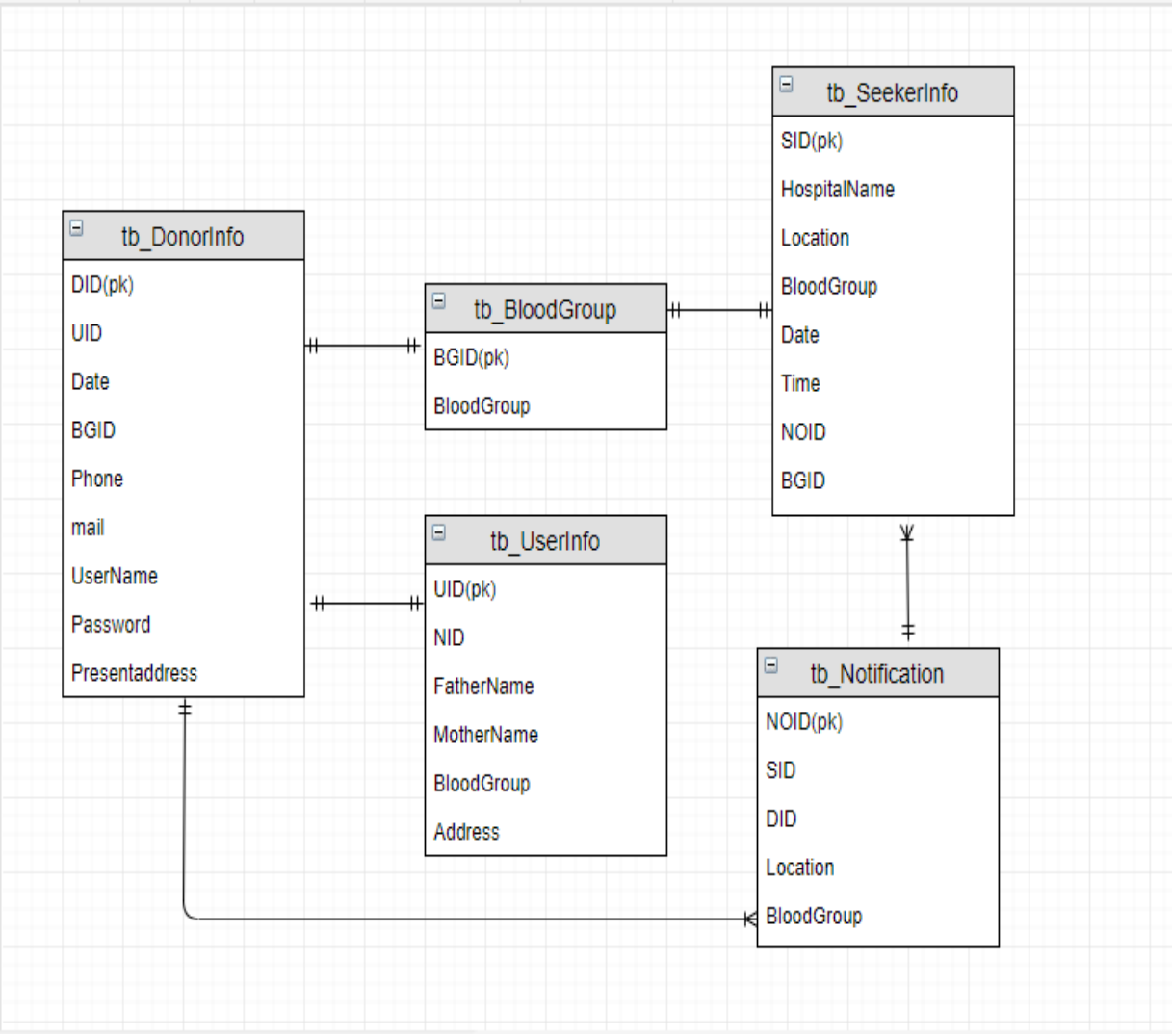

Figure-4.1: ER Diagram (Physical)

4.5 Schema Diagram

This Diagram describe the relationships among the tables.

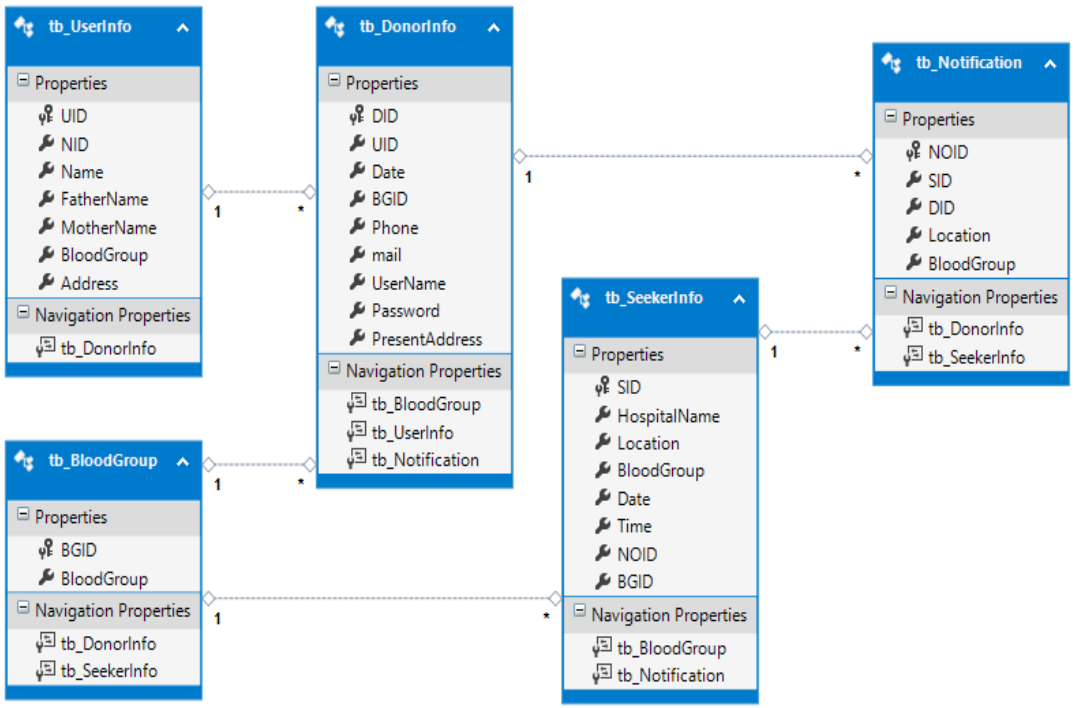

Figure-4.2: Schema Diagram

5. IMPLEMENTATION

5.1 HARDWARE & SOFTWARE SPECIFICATIONS

In this stage I want to describe what's need to build this application.

- **Hardware Requirements:**
  - ✓ PROCESSOR: Dual Core or above
  - ✓ RAM: 2GB or above
  - ✓ Cache Memory: 2MB or above
  - ✓ HDD: 20GB or above

- **Software Requirements:**
  - ✓ **IDE**: PHP
  - ✓ **Database:** MySQL Server Management.
  - ✓ **Web-Server:** Apache

5.2 UI IMPLEMENTATION

5.2.1 Home page

Now I am showing home page of my application. In home page anyone can view.

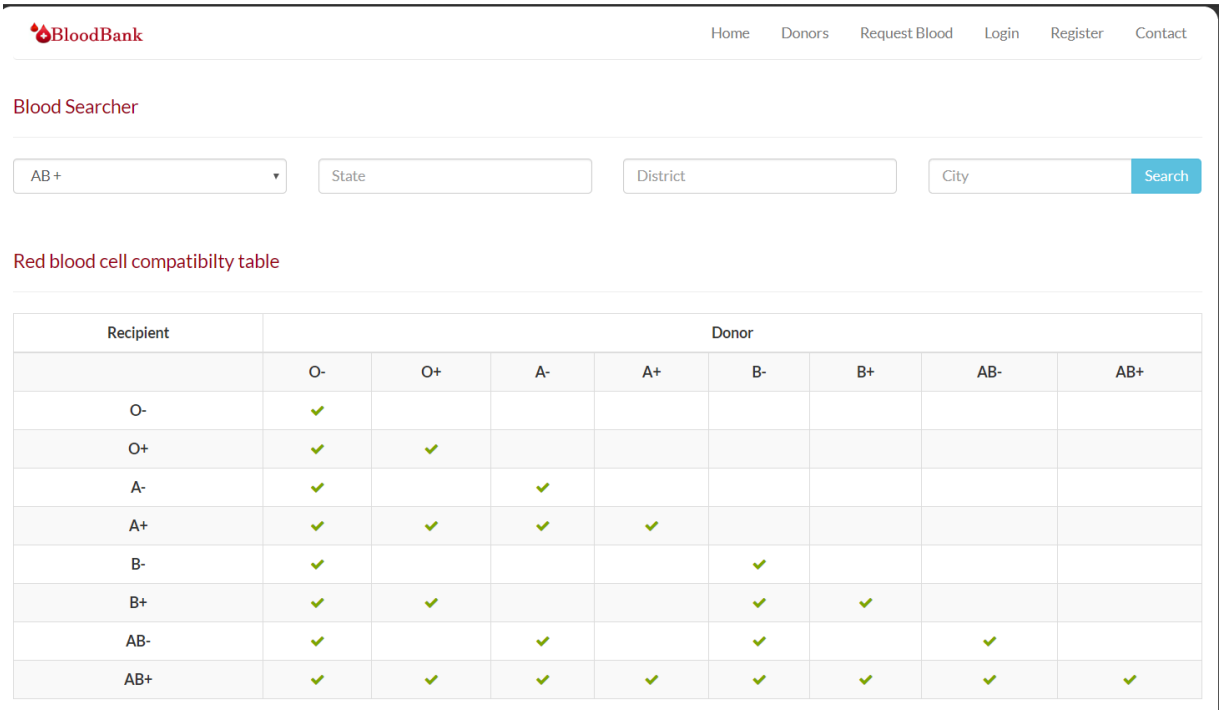

Figure 5.2.1: Home page

5.2.2 Registration page:

Blood seeker and Donor registration form to access the system.

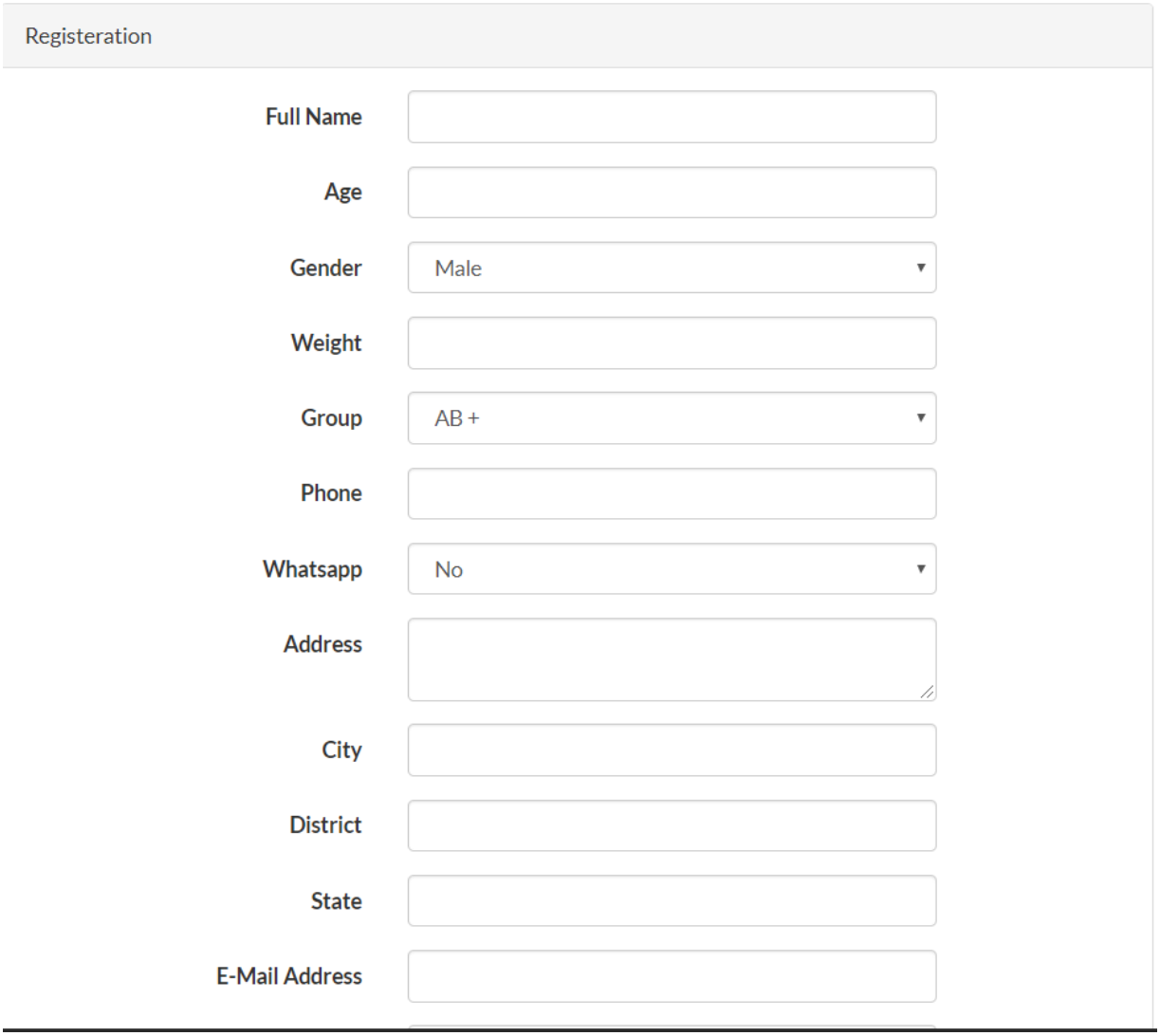

Figure 5.2.2: Registration page

5.2.3 Contact page:

Blood seeker can contact with Blood Donor .

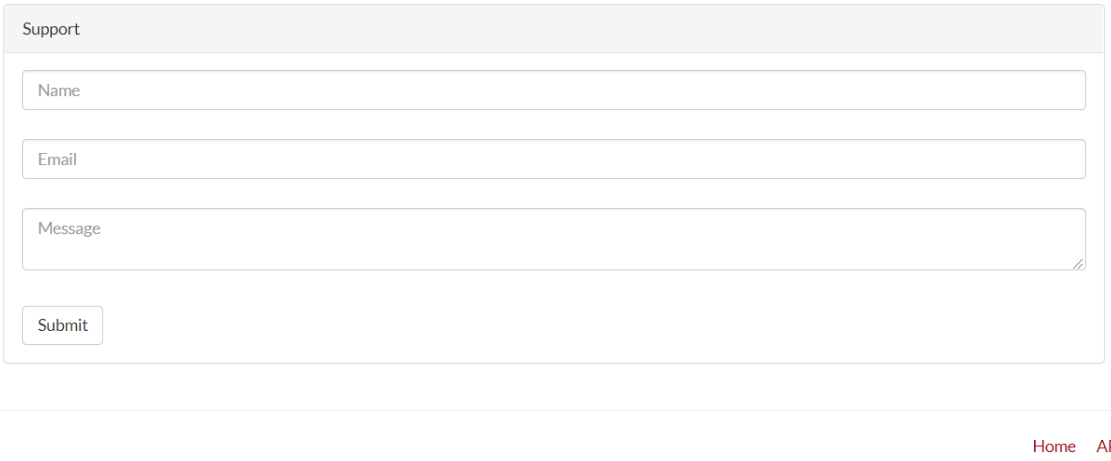

Figure 5.2.3: Contact page

5.2.4 LOGIN:

Donor and Blood seeker can login in the system.

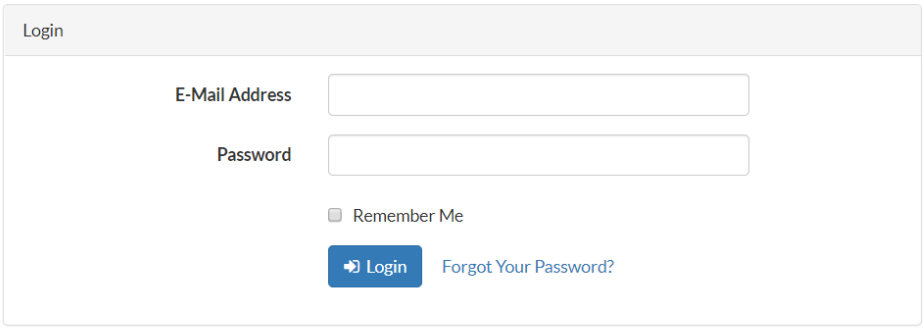

Figure 5.2.4: Login page

5.2.5 CREATE POST:

User can create post for Blood. The fill the form and post it.

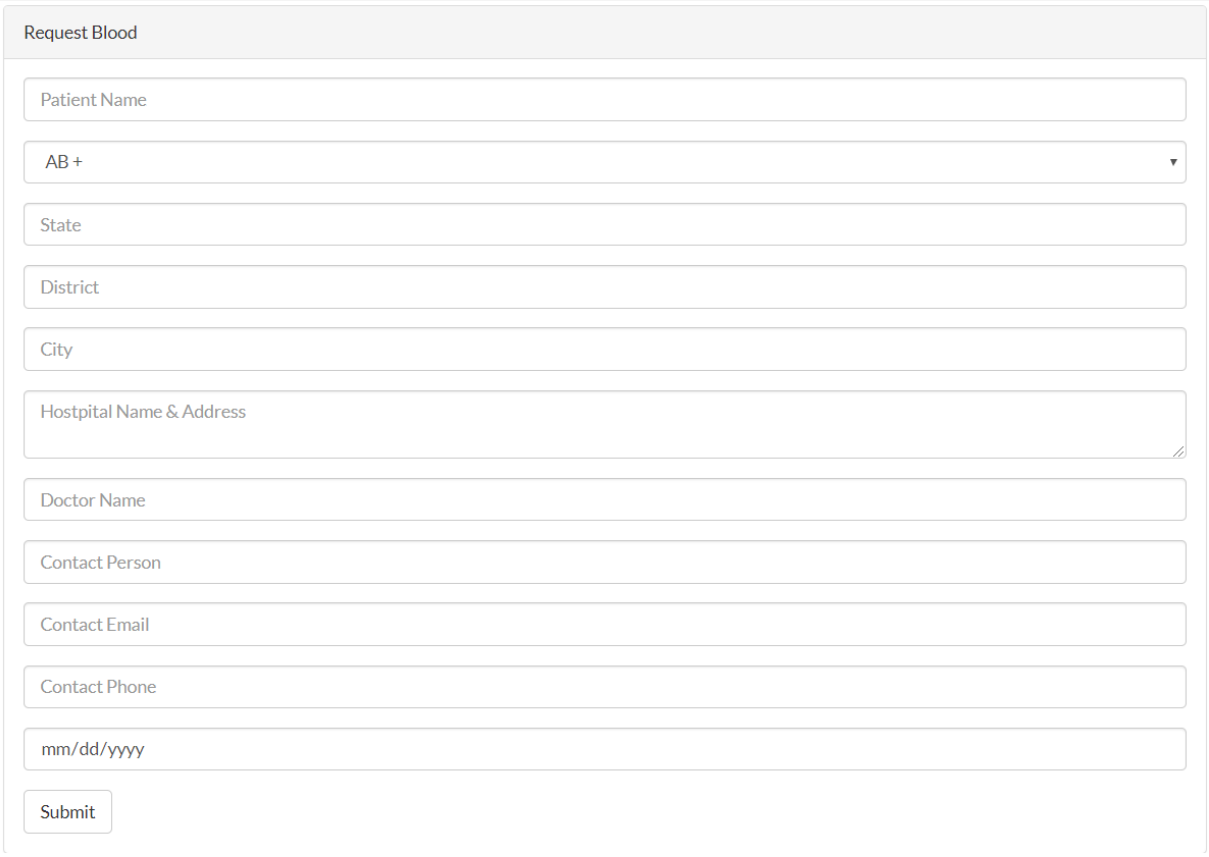

Figure 5.2.5: Create Post

6. TESTING

The testing of the product was done in a full manual end-client information stream testing style. Because of the inaccessibility of test giving stage, mechanized programming inferred testing couldn't be performed. The testing approach is described here precluding the specialized subtleties.

Two normal kinds of testing are discovery trying and white box testing. Discovery testing is additionally called practical testing. In this stage, we test just usefulness, info, and yield. White box testing is structure level testing. For this undertaking, I have utilized the discovery testing technique.

6.1 Testing Strategy:

A testing strategy is a general approach to the testing process rather than a method of devising particular system or component tests. Different testing strategies may be adopted depending on the type of system to be tested and the development process used.

6.2 Test approach:

A test approach is the test strategy implementation of a project, defines how testing would be carried out. Test approach has two techniques:

- **Proactive -** An approach in which the test design process is initiated as early as possible in order to find and fix the defects before the build is created.
- **Reactive -** An approach in which the testing is not started until after design and coding are completed.

6.3 Black Box Testing

Black box testing also called functional testing that ignores the internal mechanism of a

system or component and focuses on the outputs generated in response to selected inputs and execution conditions. We have decided to perform equivalence partitioning and Boundary value analysis for this system.

6.4 Equivalence Class Partitioning

In considering the contributions for our proportionality testing, the accompanying kinds will be utilized: Legal Input esteems: Test esteems inside limits of the determination comparability classes. This will be input information the program expects and is modified to change into usable qualities. Illicit Input Values: Test identicalness classes outside the limits of the detail. This will be input information the program might be exhibited, however that won't create any significant yield.

6.5 White Box Testing

White box testing is a product testing strategy in which the inner structure/usage of the thing being tried is known to the analyzer. The analyzer picks contributions to practice ways through the code and decides the proper yields. Programming know-how and the execution of information is basic.

6.6 Pass / Fail Criteria

The entrance criteria for each phase of testing must be met before the next phase can commence. Now the criteria for pass and fail are given below.

- ✓ According to the given scenario the expected result need to take place then the scenario will be considered as pass otherwise that criteria should be failed.
- ✓ If an item tested 10 times, 9 times perfectly worked and single time do not

work properly then it will consider as fail case.

- ✓ System crash will be considered as fail case.
- ✓ After submitting a query in the system, if expected page won't appear then it will be considered as fail case.

6.7 Testing Environment

Testing environment is a setup of software and hardware for the testing teams to execute test cases. In other words, it supports test execution with hardware, software and network configured.

For test environment, key area to set up includes.

- System and applications
- Test data
- Database server
- Front end running environment
- Client operating system
- Browser
- Hardware includes Server Operating system
- Network
- Documentation required like reference documents/configuration guides/installation guides/ user manuals

6.8 Test case:

A test case is a document, which has a set of test data, preconditions, expected results and post conditions, developed for a particular test scenario in order to verify compliance against a specific requirement

Table 6.8.1: Test case for Donor Registration

Test Case ID: TC 01	Module Name: Registration
Sub Module: Donor Registration	**Test Designed by:** Andul Quddus
Test Priority (Low/Medium/High): High	**Test Designed date:** 05.11.2019
Test Title: Donor Registration with valid information	**Test Executed by:** Forhad
Description: Test the system's on registration page	**Test Execution date:** 10.11.2019
Pre-conditions: The user navigate to registration page and input the required filled. And click on the Register button.	

Step	Test Steps	Test Data	Code Module	Expected Result	Actual Result	Pass/Fail
1	**Navigate**	Click on		Donor	Donor	Pass

	to Registration Page	Registration Tab				
2	**Input NID**	19981314965000054				
3	**Auto Input Name**	forhad				
4	**Auto Input Father's Name**	XYZ				
5	**Auto Input**	M				
6	**Address**	Dhanmondi 32, Dhaka 1207				
7	**Date of birth**	17-05-1976				
8	**Select Registration as**	Donor				
9	**Input Phone**	01829741994				
10	**Blood Group**	AB+				
11	**Present Address Address**	Dhanmondi 32, Dhaka 1207				
13	**UserName**	Forhad				
14	**Email**	forhad@gmail.com				
15	**Password**	123@123				

16	**Confirm password**	123@123				
17	**Confirmation code**	875634				
Post-conditions: if the user information's are valid then the information will saved in the database otherwise show the invalid fields.						

6.8.2 Test Case for Blood Seeker Registration:

Test Case ID: TC 02	Module Name: Registration
Sub Module: Blood Seeker Registration	**Test Designed by:** Abdul Quddus
Test Priority (Low/Medium/High): High	**Test Designed date:** 05.11.2019
Test Title: Donor Registration with valid information	**Test Executed by:** Abdul Quddus

Description: Test the system's on registration page	**Test Execution date:** 10.11.2019

Pre-conditions: The user navigate to registration page and input the required filled. And click on the Register button.

Step	Test Steps	Test Data	Code Module	Expected Result	Actual Result	Pass/Fail
1	**Input Name**	Forhad		Blood Seeker should be registered successfully	Blood Seeker redirect to the Seeker profile	Pass
2	**Input Phone**	01829741994				
3	**Input Mail**	forhad@gmail.com				
4	**User Name**	forhad				
5	**Password**	123@123				
6	**Confirm password**	123@123				
7	**Confirmation code**	875634				

Post-conditions: if the user information's are valid then the information will saved in the database otherwise show the invalid fields.

6.8.3 Test Case for Donor Login:

Test Case ID: TC 03	Module Name: Login

Sub Module: Donor Login	**Test Designed by:** Abdul Quddus
Test Priority (Low/Medium/High): High	**Test Designed date:** 05.11.2018
Test Title: Donor Login with valid email/user name and password	**Test Executed by** Abdul Quddus
Description: Test the system's Login page	**Test Execution date: 1**0.11.2019

Pre-conditions: The user has valid email and password.

The current email is abdul1396@diu.edu.bd and password 123@123.

The system navigates to Login page. And click on the Login button.

Step	Test Steps	Test Data	Code Module	Expected Result	Actual Result	Pass/Fail
1	**Navigate to Login Page**	Click on Login Tab		Donor should be able to login successfully.	Donor navigate or Home Page successfully.	Pass
2	**Input Email and it must be Unique**	abdul1396@diu.edu.bd				
3	**Input Password**	123@123				
4	**Click on Signup Button**					

Post-conditions: Donor is validated with database and successfully login to account. The account session details are logged in database.

6.8.4 Test Case for Donor Login failed:

Test Case ID: TC 04	Module Name: Login
Sub Module: Donor Login	**Test Designed by:** Abdul Quddus
Test Priority (Low/Medium/High): High	**Test Designed date:** 05.11.2019
Test Title: Donor Login with valid email/user name and password	**Test Executed by:** Abdul Quddus
Description: Test the system's Login page	**Test Execution date: 1**0.11.2019

Pre-conditions: The user has valid email and password.

The current email is forhad1678@diu.edu.bd and password 123@123.

The system navigates to Login page. And click on the Login button.

Step	Test Steps	Test Data	Code Module	Expected Result	Actual Result	Pass/Fail
1	**Navigate to Login Page**	Click on Login Tab		Donor should not be able to login successfully.	Donor navigate or redirect to the login page with error message	Fail
2	**Input Email and it must be Unique**	abdul1396@diu.edu.bd				
3	**Input Password**	123@890				
4	**Click on Signup Button**					

Post-conditions: Donor is validated with database and successfully login to account. The account session details are logged in database.

6.8.5 Test Case for Blood Seeker Login:

Test Case ID: TC 05	Module Name: Login
Sub Module: Seeker Login	**Test Designed by:** Abdul Quddus
Test Priority (Low/Medium/High): High	**Test Designed date:** 05.11.2019
Test Title: Blood seeker Login with valid email/user name and password	**Test Executed by:** Abdul Quddus
Description: Test the system's Login page	**Test Execution date: 1**0.11.2019

Pre-conditions: The user has valid email and password.

The current email is forhad1396@gmail.com and password 123@123.

The system navigates to Login page. And click on the Login button.

Step	Test Steps	Test Data	Code Module	Expected Result	Actual Result	Pass/Fail
1	**Navigate to Login Page**	Click on Login Tab		seeker should be able to login successfully.	Seeker navigate or Home Page successfully.	Pass
2	**Input Email and it must be Unique**	forhad1396@gmail.com				
3	**Input Password**	123@123				

4	**Click on Signup Button**					
Post-conditions: seeker is validated with database and successfully login to account. The account session details are logged in database.						

6.8.6 Test Case for Blood Seeker Login Failed:

Test Case ID: TC 06	Module Name: Login
Sub Module: Blood Seeker Login	**Test Designed by:** Abdul Quddus
Test Priority (Low/Medium/High): High	**Test Designed date:** 05.11.2019
Test Title: Donor Login with valid email/user name and password	**Test Executed by:** Abdul Quddus
Description: Test the system's Login page	**Test Execution date: 1**0.11.2019

Pre-conditions: The user has valid email and password.

The current email is forhad1396@gmail.com and password 123@123.

The system navigates to Login page. And click on the Login button.

Step	Test Steps	Test Data	Code Module	Expected Result	Actual Result	Pass/Fail
1	**Navigate to Login Page**	Click on Login Tab		Blood Seeker	Blood Seeker	Fail

2	**Input Email and it must be Unique**	forhad@diu.edu.bd		should not be able to login successfully.	navigate or redirect to the login page with error message	
3	**Input Password**	123@123				
4	**Click on Signup Button**					
Post-conditions: Seeker is validated with database and successfully login to account. The account session details are logged in database.						

6.8.7 Test Case for Create Post:

Test Case ID: TC 07	Module Name: Create Post
Sub Module: Create Post	**Test Designed by:** Abdul Quddus
Test Priority (Low/Medium/High): High	**Test Designed date:** 06.11.2019
Test Title: Seeker Login with valid email/user name and password. Then Full fil the required all field.	**Test Executed by:** Abdul Quddus
Description: Test the system's Create post	**Test Execution date:** 10.11.2019
Pre-conditions: The user has valid email and password. The current email is forhad1678@gmail.com and password 123@123. The system navigates to Login page. And click on the Login button.	

Ste	Test Steps	Test Data	Code	Expected	Actual	Pass/Fail

p			Module	Result	Result	
1	**Navigate to Create Post**	Click on Create post Tab		Blood Seeker successfully create post.	Blood Seeker see successful message & redirect to the profile page	Pass
2	**Input Hospital Name**	Squre Hospital				
3	**Input Location**	Dhanmondi				
4	**Blood Group**	AB+				
5	**Date**	15-11-2019				
6	**Time**	6.00 pm				
4	**Click on Submit Button**					
Post-conditions: Seeker is validated with database and successfully login to account. The account session details are logged in database.						

6.8.8 Test Case for Blood Seeker Create Post failed:

Test Case ID: TC 07	Module Name: Create Post
Sub Module: Create Post	**Test Designed by:** Abdul Quddus
Test Priority (Low/Medium/High): High	**Test Designed date:** 06.11.2019
Test Title: Seeker Login with valid email/user name and password. Then Full fil the required all field.	**Test Executed by:** Abdul Quddus

Description: Test the system's Create post	**Test Execution date: 1**0.11.2019

Pre-conditions: The user has valid email and password.

The current email is forhad1396@gmail.com and password 123@123.

The system navigates to Login page. And click on the Login button.

Step	Test Steps	Test Data	Code Module	Expected Result	Actual Result	Pass/Fail
1	**Navigate to Create Post**	Click on Create post Tab		Blood Seeker can't successfully create post.	Blood Seeker see an error message	Fail
2	**Input Hospital Name**	Squre Hospital				
3	**Input Location**					
4	**Blood Group**	AB+				
5	**Date**	15-08-2018				
6	**Time**	6.00 pm				
4	**Click on Submit Button**					

Post-conditions: Seeker is validated with database and successfully login to account. The account session details are logged in database.

6.9 Test Report

Generally, this is a communication sent out to establish transparency to the QA team's activities of the day during the test cycle – includes both defect information

and test case run information.

Total unit of test case sample are 7. Some test cases are succeeding in 1st iteration and some are in second. The succession percent are shown in following table:

Table 6.9.1: Test Report

Number of Unit Test Case	100% Success in first iteration	Less than 100%	Total Succession %
Total : 7	6	3	80%
Total : 9	9	0	100%

7 CONCLUSION

7.1 Project Summary:

This project has been started from June. From that beginning time I have to work hard to know the requirement clearly. After that I proposed a design to them by help of my supervisor. I started to develop the project. From then I gradually develop the project. I think storing the data in database neatly is very important. That's why I did this first and made a relationship with the tables. After that I design the UI. This project's UI is very simple and clean which is very help for the user's experience. Then I started coding and executing the project. If I did not test this project, there will stay some bug on this project which will ruin the full project. That why give importance to test this project and then I solved some bug which I got after testing this project.

7.2 Limitations:

- ✓ Donor Current Location can't track.
- ✓ Not Fully Responsive
- ✓ Only for Desktop

FUTURE IMPROVEMENT

This application avoids the manual work and the problems concern with it. Well I have worked hard in order to present the website. Still, I found out that the project can be done in a better way.

Due to time and technology concern I am unable to deploy the current location trace and notification send the seeker or donor phone and other small features. For that reason, I am going to develop new features like following:

- ✓ Real Time Location Trace.
- ✓ Send Notification to the Donor or Blood Seeker Phone.
- ✓ Android Version

9 APPENDIX