



INSTITUTE FOR ADVANCED
COMPUTING AND
SOFTWARE DEVELOPMENT
AKURDI, PUNE

Documentation On

**“ONLINE BLOOD & PLASMA
DONATION SYSTEM”**
E-DAC SEP 2020

Submitted By:

Group No: 24

**Mayur M. Deshmukh (Roll No:-
2036) Mangesh Kulkarni (Roll No:-
2078) Vishal Kulkarni (Roll No:-
2079)**

**Prashant Karhale
Centre Coordinator**

**Mr. Chetan Paradeshi
Project Guide**

Table of Contents

| | |
|--|----------------|
| 1.Introduction | on... 4 |
| 1.1 Project Review..... | 4 |
| 1.2 Project Description | 4 |
| 1.3 Problem Statement..... | 5 |
| 1.4 Goal Of Project..... | 5 |
| 2. Software Requirements..... | 6 |
| 1.1 Operating System..... | 6 |
| 1.2 Hardware..... | 6 |
| 3. Blood Donation Term's | 7 |
| 4. Plasma Donation Term's | 9 |
| 5. Functional Requirement's | 10 |
| 5.1 Donor Module..... | 10 |
| 5.2 Requester Module..... | 14 |
| 5.3 Admin Module..... | 19 |
| 5.4 Hospital Module... .. | 23 |
| 6. Non-Functional Requirement's | 25 |
| 7. Use Case Diagram..... | 26 |
| 8. Sequence Flow Diagram..... | 32 |
| 9. E-R Diagram | 33 |
| 10. Database Table's..... | 34 |
| 11. Screen Shots | 38 |
| 12. Data flow diagram... .. | 46 |
| 13. Conclusion..... | 47 |
| 14. Future Scope... .. | 47 |

List of Figures

| | |
|--|----|
| Figure 1 Admin Activity Diagram | 26 |
| Figure 2 Donor Activity Diagram | 28 |
| Figure 3 Receiver Activity Diagram | 30 |
| Figure 4 Hospital Activity Diagram | 31 |
| Figure 5 Sequence Flow Diagram | 32 |
| Figure 6 Class Diagram | 48 |
| Figure 7 Use Case Diagram..... | 27 |
| Figure 8 ER Diagram | 33 |
| Figure 9 Data Flow Diagram..... | 46 |

1.Introduction

This document explains the system requirements and scope for developing Online Plasma & Blood Donation System. Online Plasma & Blood Donation System could divide the five main parts, Donor part, Requester part, Admin part and Blood Bank part and Blood bank Camp Part. This document Plasma is commonly given to trauma, burn and shock patients, as well as people with severe liver disease or multiple clotting factor deficiencies. It helps boost the patient's blood volume, which can prevent shock, and helps with blood clotting describes the system requirement of the Account part.

Donating blood is a vital way to help save lives. Along with helping save lives, there are a number of reasons why donating blood is important. A single donation can save three lives. One blood donation provides different blood components that can help up to three different people

1.1. Project Overview

The Blood Donation Agent is to create an e-Information about the donor and organization that are related to donating the blood. Through this application any person who is interested in donating the blood can register himself in the same way if any organization wants to register itself with this site that can also register. Moreover, if any general consumer wants to make request blood online he can also take the help of this site. Admin is the main authority who can do addition, deletion, and modification if required.

1.2. Project Description

This project is aimed to developing an online Blood Donation Information. The entire project has been developed keeping in view of the distributed client server computing technology, in mind. The Blood Donation Agent is to create an e-Information about the donor and organization that are related to donating the blood. Through this application any person who is interested in donating the blood can register himself in the same way if any organization

wants to register itself with this site that can also register. Moreover if any general consumer wants to make request blood online he can also take the help of this site.

Admin is the main authority who can do addition, deletion, and modification if required. The project has been planned to be having the view of distributed architecture, with centralized storage of the database.

1.3 Problem Statement

There is no such application which will find out the donor of Plasma or Blood to the Patients who are in Emergency. This application will help to those Patients Relative, or Hospitals for Making Availability of plasma or blood. Provide such web portal for medical platform to save life's and increase count of donors by providing information about nearest plasma and blood donors. By using this system, the user can search required blood group and plasma also it helps other by donating plasma and blood.

1.4 Goals of the project

Online Plasma and Blood Donation System is a web-based application. It provides a convenient way for requester to search nearest plasma and blood donors for donation and also in emergency it can find donor on immediate basis.

2. Software Requirements:

2.1 Operating System:

- a) Windows Xp, Windows 7/8/10
- b) Front End: JSP
- c) Back End: Spring Boot mvc
- d) Technology: Wamp Server /My SQL

2.2 Hardware Requirements:

- a) Processor: i3
- b) Hard Disk: 5 GB
- c) Memory: 1GB RAM

3. Blood Donation Terms & Condition's

1. There are several parameters that determine the eligibility of an individual to donate blood. Guidelines laid down by the Ministry of Health, Government of India have to be followed by blood banks and organizations conducting blood donation camps and also by the Blood donors.
2. Overall health- The donor must be fit and healthy, and should not be suffering from transmittable diseases
3. Age and weight- The donor must be 18–65 years old and should weigh a minimum of 50 kg.
4. Pulse rate- Between 50 and 100 without irregularities.
5. Hemoglobin level- A minimum of 12.5 g/dL.
6. Blood pressure- Diastolic: 50–100 mm Hg, Systolic: 100–180 mm Hg.
7. Body temperature- Should be normal, with an oral temperature not exceeding 37.5 °C.
8. The time period between successive blood donations should be atleast 2 months.
9. Individuals under certain conditions are deemed ineligible to donate blood:
10. A person who has been tested HIV positive.
11. Individuals suffering from ailments like cardiac arrest, hypertension, blood pressure, cancer, epilepsy, kidney ailments and diabetes.
12. A person who has undergone ear/body piercing or tattoo in the past 6 months.
13. Individuals who have undergone immunization in the past 1 month.
14. Individuals treated for rabies or received Hepatitis B vaccine in the past 6 months.

15. A person who has consumed alcohol in the past 24 hours.
16. Women who are pregnant or breastfeeding.
17. Individuals who have undergone major dental procedures or general surgeries in the past 1 month.
18. Women who have had miscarriage in the past 6 months.
19. Individuals who have had fits, tuberculosis, allergic disorders in the past.

4. Plasma Donation Term's & Condition's

1. The general criteria for donating plasma:
 2. Plasma donors should be at least 18 years old.
 3. Plasma donors should weigh at least 50 kilograms.
 4. Test non-reactive for transmissible viruses including hepatitis and HIV.
 5. Follow a recommended diet including 50 to 80 grams of daily protein.
 6. Before donating plasma it is important to:
 7. Drink plenty of water or juice to be fully hydrated.
 8. Notify center personnel if you have had recent surgery.
 9. Notify center personnel if you have obtained a tattoo or piercing within the past 12 months.
 10. Notify center personnel if you are taking medication or are under a doctor's care for any medical condition.
-

5.Functional Requirment's

5.1 Donor Module

Donor is the user of system who wants to donate plasma & blood.

5.1.1 Account Creation Process

Online Plasma & Blood Donation System compels to create the account before using it. So, Online Plasma & Blood Donation System should provide the function which makes donor creates new account.

When donor creates new account, the function demands two information described as below.

- i. Login information
- ii. Contact Details

❖ The Login information

The Login information consists of some items described as below.

1. User ID
2. Password
3. First Name
4. Last Name
5. Contact No
6. E-mail address
7. User Type
8. Medical report
9. City
- 10.State
- 11.Pin Code

- All items are compulsory demanded.
- User ID
 - ✓ The User ID should be unique. If the User ID correspond with not case-sensitive to other which is previously registered, the User ID should not be registered as an account.
- Password
 - ✓ The Password has constrained which makes the Password consists of more than or equal 8 and less than or equal 16 characteristics including characters described as below.
 1. Numeric figure (at least one)
 2. Capital alphabet (A-Z) (at least one)
 3. Small alphabet (a-z) (at least one)
 4. Special character (#, \$, %, &, etc.) (at least one)
 - ✓ The Password is masked by dummy characters. The re-entering Password is demanded.
 - ✓ The Password must be encrypted in Online Plasma & Blood Donation System.
- User Type

The User Type falls into Four categories described as below.

1. Donor
2. Requester
3. Administrator (Blood Bank)
4. Hospital

- ✓ The User Type defines also Four types of user; "Donor user", "Requester user", and "Administrator user", "Hospital User"
- ✓ In an Account Creation Process, the user can select Donor.
- ✓ No one could select The Administrator, because Administrator is implemented to Plasma and Blood System in advance.

- Contact Details
- The Contact Detail consists of some items described as below.

1. Permanent Address
2. Contact Phone No

➤ All items are compulsory demanded.

➤ Permanent Address

- ✓ Permanent Address should be filled.
- ✓ But only the state should be selected from options.

- Login information should be entered on one screen, and then Donor information and Security Question information should be entered on another screen.

5.1.2 Login Process

- Online Plasma and Blood Donation System always compels user authentication before using itself except when a new account is successfully created.

- The user authentication demands User ID and Password. The User ID and the Password should be checked in three ways.
 - First, The User ID and the Password should be existed and correct.
 - ✓ If the User ID and the Password are not equal to what the user has registered, the user authentication cannot be provided.
 - Second, the User Type linked to the User ID should be Donor.
 - ✓ When the User Type is Donor or Plasma, then user can be placed on.
 - Finally, User ID should be available.
 - ✓ The Administrator can decide whether the User ID is available or suspended – Refer to the SRS of the Admin part.
 - ✓ If Donor is rejected, user authentication is not provided for system user.
- The Donor account should alive for as long as the duration decided by Admin.
- Only when the three checks are successfully completed, Donor can be placed on respected page.
- The “Donor Home Page” provides some items described as below.
 1. A trigger to logout
 2. A trigger to update Account
 3. See Upcoming camp
 4. See attended camp

2.1.3 Search blood bank event

- Donor can login into system and will view all the blood bank camps and will join the blood bank.

5.2 Requester Module

5.2.1 Account Creation Process

- Online blood and plasma System compels to create the account before using it. So, Online blood and plasma System should provide the function which makes requester creates new account.
- When requester creates new account, the function demands four information described as below.

1. Login information

2. Contact Details

- The Login information

The Login information consists of some items described as below.

- 1) User ID

- 2) Password

- 3) First Name

- 4) Last Name

- 5) E-mail address

- 6) City

- 7) State

8) Pin code

9) User Type

➤ All items are compulsory demanded.

➤ User ID

- ✓ The User ID should be unique. If the User ID correspond with not case-sensitive to other which is previously registered, the User ID should not be registered as an account.

➤ Password

- ✓ The Password has constrained which makes the Password consists of more than or equal 8 and less than or equal 16 characteristics including characters described as below.

1. Numeric figure (at least one)
2. Capital alphabet (A-Z) (at least one)
3. Small alphabet (a-z) (at least one)
4. Special character (#, \$, %, &, etc.) (At least one)

- ✓ The Password is masked by dummy characters. The re-entering Password is demanded.
- ✓ The Password must be encrypted in online blood and plasma System.

➤ User Type

The User Type falls into Four categories described as below.

1. Donor

2. Requester

3. Administrator (Blood Bank)

4. Hospital

- ✓ The User Type defines also three types of user; “Donor user”, "Requester user", “Hospital user” and "Administrator user”.
- ✓ In an Account Creation Process, the user can select Requester.
- ✓ No one could select The Administrator, because Administrator is implemented to online blood and plasma donation System in advance.

- Contact Details
- The Contact Detail consists of some items described as below.

1. Permanent Address

2. Contact Phone No

- All items are compulsory demanded.
- Permanent Address
 - ✓ Permanent Address should be filled.
 - ✓ But only the state should be selected from options.

- The Security Question information

The Security Question information is needed when Requester lost their Password. This information consists of two items described as below.

1. Selected Question

2. Answer

- All items are compulsory demanded.
- Some questions which are difficult to answer for anyone else are prepared in advance.

E.g. which color do you like most?

- A question should be selected from options by the Requester, and the Answer is registered by the Requester.
- Login information should be entered on one screen, and then Requester information and Security Question information should be entered on another screen.

5.2.2 Login Process

- Online blood and plasma System always compels Requester authentication before using itself except when a new account is successfully created.
- The user authentication demands User ID and Password. The User ID and the Password should be checked in three ways.
 - First, The User ID and the Password should be existed and correct.
 - ✓ If The User ID and the Password are not equal to what the user has registered, the user authentication cannot be provided.
 - Second, the User Type linked to the User ID should be "user".
 - ✓ When the User Type is "Requester", user can be placed on "Requester Home".

➤ Finally, User ID should be available.

- ✓ The Administrator can decide whether the User ID is available or suspended – Refer to the SRS of the Admin part.
- ✓ If user is rejected, user authentication is not provided for Requester.

- The Requester account should alive for as long as the duration decided by Admin.
- Only when the three checks are successfully completed, Requester can be placed on respected page.
- The “Requester Home” provides some items described as below.
 1. A trigger to logout
 2. A trigger to Register
 3. A trigger to send request to blood bank
 4. See Status of Blood Or plasma Availability

5.2.3 Search for donor

- Search conditions are described as below.
 1. Product category

5.2.4 Request to Blood Bank

- Search conditions are described as below
 1. Request according to Requirement

5.2.5 Status of Blood Or plasma Availability

Search conditions are described as below

To see status coming from blood bank And availability of blood or plasma

5.2.5 Cancel Order

- Before paying Requester can cancel the order in following condition

1. If the product does not fulfil the requirement.

5.3 Admin Module (Blood Bank)

- Administrator should be responsible for following activities,

5.3.1 Login Process

- Online Plasma and Blood System always compels user authentication before using itself except when a new account is successfully created.
- The user authentication demands User ID and Password. The User ID and the Password should be checked in three ways.
 - First, The User ID and the Password should be existed and correct.
 - ✓ If The User ID and the Password are not equal to what the admin has registered, the Admin authentication cannot be provided.
 - Second, the User Type linked to the User ID should be "Admin".
 - ✓ When the User Type is "Admin", user can be placed on “Admin Home”.
 - Finally, User ID should be available.

- ✓ The Administrator can decide whether the User ID is available or suspended – Refer to the SRS of the Admin part.
- ✓ If user is rejected, user authentication is not provided for system user.
- The Admin account should alive for as long as the duration decided by Admin.
- Only when the three checks are successfully completed, Admin can be placed on respected page.
- The “Admin Home” provides some items described as below.
 - 1) A trigger to logout
 - 2) A trigger to login
 - 3) A trigger to Add Donor
 - 4) A trigger to reply to Receiver’s
 - 5) A trigger to replay to Hospital’s
 - 6) A trigger to Add Hospital’s
 - 7) A trigger to Update Hospital list
 - 8) A trigger to Add Stock
 - 9) A trigger to Release Stock
 - 10) A trigger to Arrange Blood Camp’s
 - 11) A trigger to Update/Delete blood Camp

5.3.2 Add Donor Process

- When Admin Add the donor through the blood Bank - Online Plasma and Blood Donation System.

The recovery method is described as below.

5.3.3 Add Hospital's Process

- When Admin wants to Add the hospital's should be provided by Online Plasma and Blood Donation System.
- Therefore, Online Plasma and Blood Donation System should provide the function which is available after getting the Admin authentication.

5.3.4 Arrange Blood Camp Process

- Online Plasma and Blood Donation System should provide the function which Arrange the Blood Camp for Admin.

- The information Admin could update is described below.

1. Camp information
2. Hospital information
3. Donor Information

- The Login information

The updatable items as described below.

- 1.E-mail address
2. Password

➤ All items are compulsory demanded, but updating is optional.

- The User information

The updatable items as described below.

4. User Name
5. User Phone No
6. E-mail address
7. Permanent address

➤ All items are compulsory demanded, but updating is optional.

➤ All items are compulsory demanded, but updating is optional.

5.3.5 Report Generation

- Admin should able to see all the records from any users.
- Daily report of enrolment to admin.
- Monthly report of enrolment as per the states to admin.

5.3.6 Stock Management

- Admin should able to manage all the Manage with following activities.

1. Add Stock by blood group wise
2. Release the stock

5.3.7 Blood Bank Module

- In following conditions acknowledgement to be send

1. Donation event organize.
2. See the request and contact with requester.

5.4 Hospital Module

- Hospitals should be responsible for following activities,

5.4.1 Login Process

- Online Plasma and Blood System always compels user authentication before using itself except when a new account is successfully created.
- The user authentication demands User ID and Password. The User ID and the Password should be checked in three ways.
 - First, The User ID and the Password should be existed and correct.
 - ✓ If The User ID and the Password are not equal to what the admin has registered, the Admin authentication cannot be provided.
 - Second, the User Type linked to the User ID should be "Hospital".
 - ✓ When the User Type is "Admin", user can be placed on “Hospital Home”.
 - Finally, User ID should be available.
 - ✓ The Administrator can decide whether the User ID is available or suspended – Refer to the SRS of the Admin part.
 - ✓ If user is rejected, user authentication is not provided for system user.
- Only when the three checks are successfully completed, Admin can be placed on respected page.
 - 1) A trigger to logout
 - 2) A trigger to Login

- 3) A trigger to Send Request to blood/plasma
- 4) A trigger to See request Status

5.4.2 Send Request Process

- When Hospital requires the blood/plasma then they can send the request to Blood bank
- Then After some time blood bank send the replay of this request.
- Hospital see the request that is coming from blood bank of Availability of Blood/plasma

6.Non-Functional Requirement's

6.1 Availability

- i. The system should be available at all times, meaning the user can access it using application.
- ii. In case of a of a hardware failure or database corruption, a replacement page will be shown. Also in case of a hardware failure or database corruption, backups of the database should be retrieved from the application data folder and saved by the administrator.
- iii. It means 24 x 7 availability.

6.2 Security

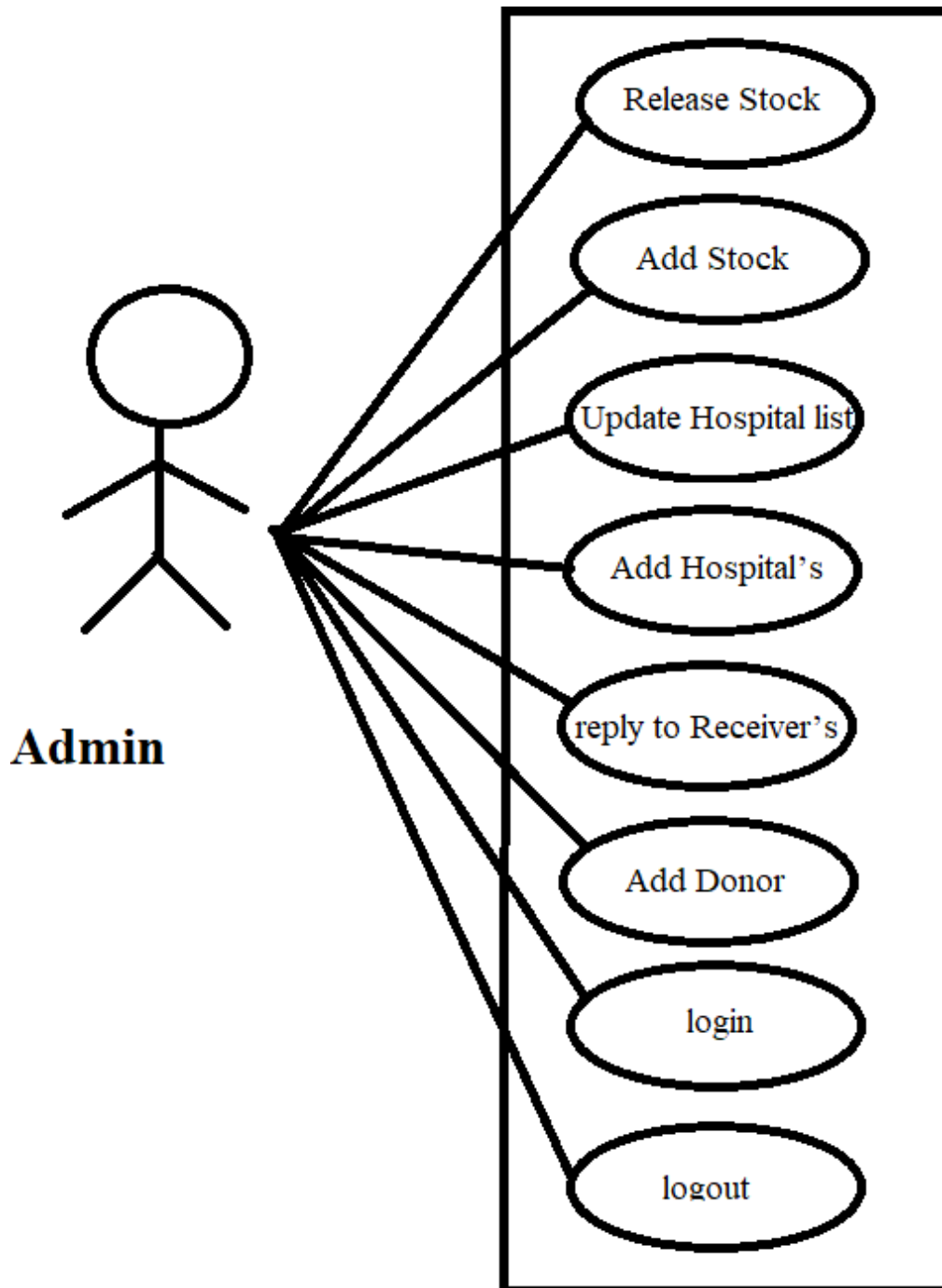
- i. The system use SSL (secured socket layer) in all transactions that include any confidential customer information. The system must automatically log out all customers after a period of Inactivity

6.3 Performance

- i. The system is interactive and the delays involved are less. When connecting to the server the delay is based editing on the distance of the 2 systems and the configuration between them so there is high probability that there will be or not a successful connection in less than 20 seconds for sake of good communication.

7. Use Case Diagram

1). Admin:



- 1) A trigger to logout
- 2) A trigger to login
- 3) A trigger to Add Donor
- 4) A trigger to reply to Receiver's
- 5) A trigger to replay to Hospital's
- 6) A trigger to Add Hospital's
- 7) A trigger to Update Hospital list
- 8) A trigger to Add Stock
- 9) A trigger to Release Stock
- 10) A trigger to Arrange Blood Camp's
- 11) A trigger to Update/Delete blood Camp

2).Donor:

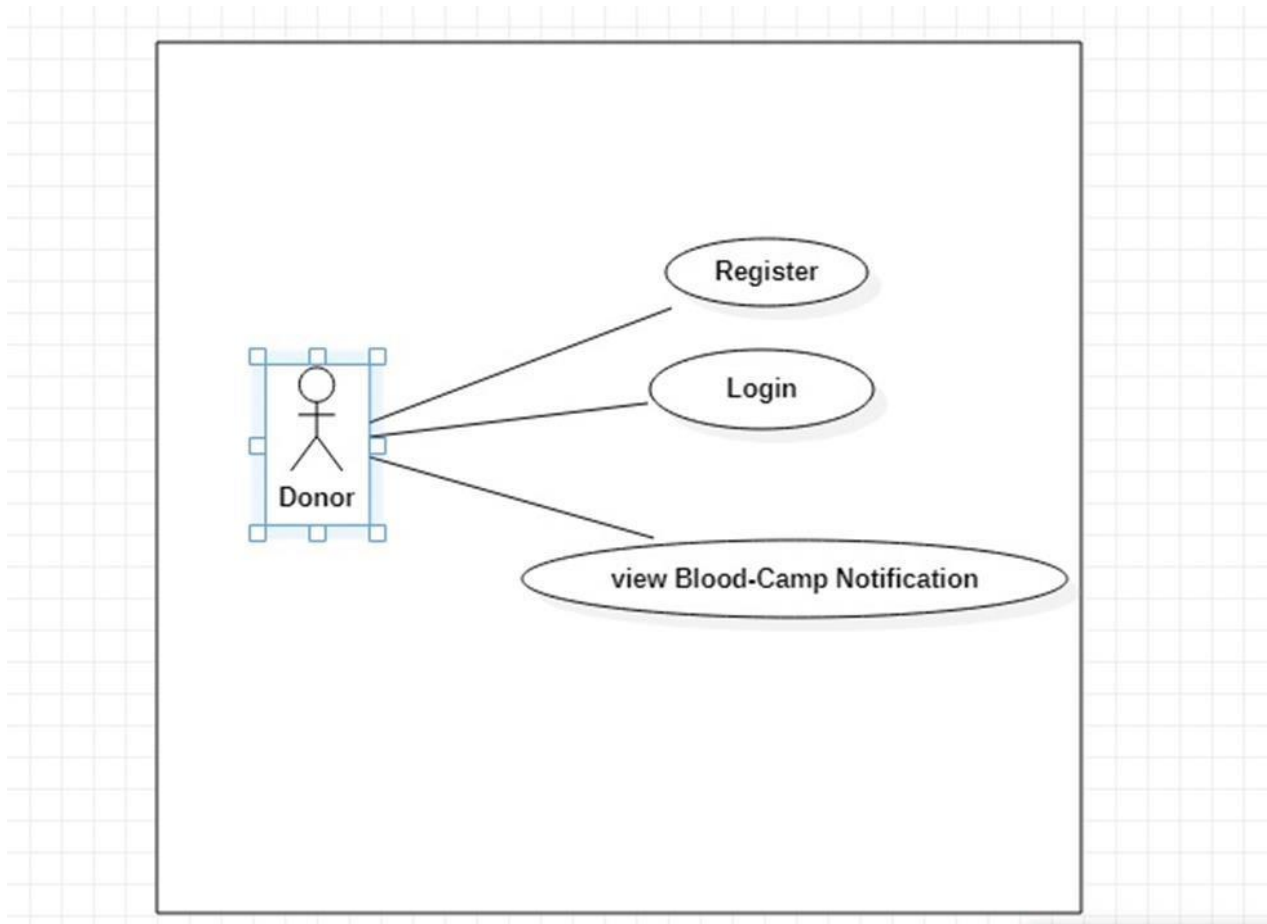


Fig. Use case diagram for Donor

1. In Donor use case diagram Donor is the Actor.
2. Donor can handle following use cases:
 - I.A trigger to logout
 - I. A trigger to Register
 - II. A trigger to send request to blood bank
 - III. See Status of Blood Or plasma Availability

3).Requester:

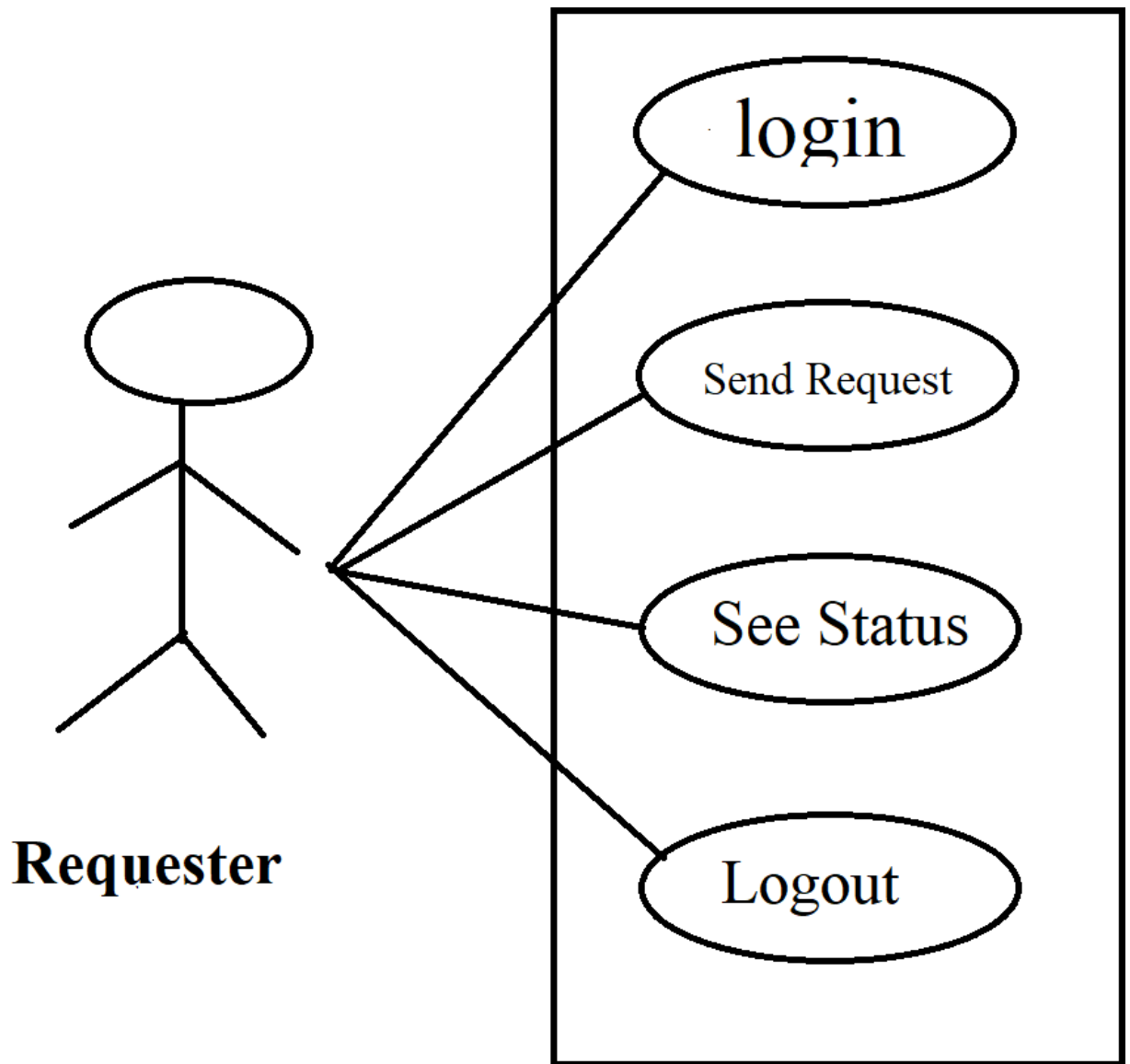


Fig. Use case diagram for Requester

1. In Requester use case diagram Wholesaler is the Actor.
2. Requester can handle following use cases:
 - a) A trigger to logout

- b) A trigger to Register
- c) A trigger to send request to blood bank
- d) See Status of Blood Or plasma Availability

4). Hospital

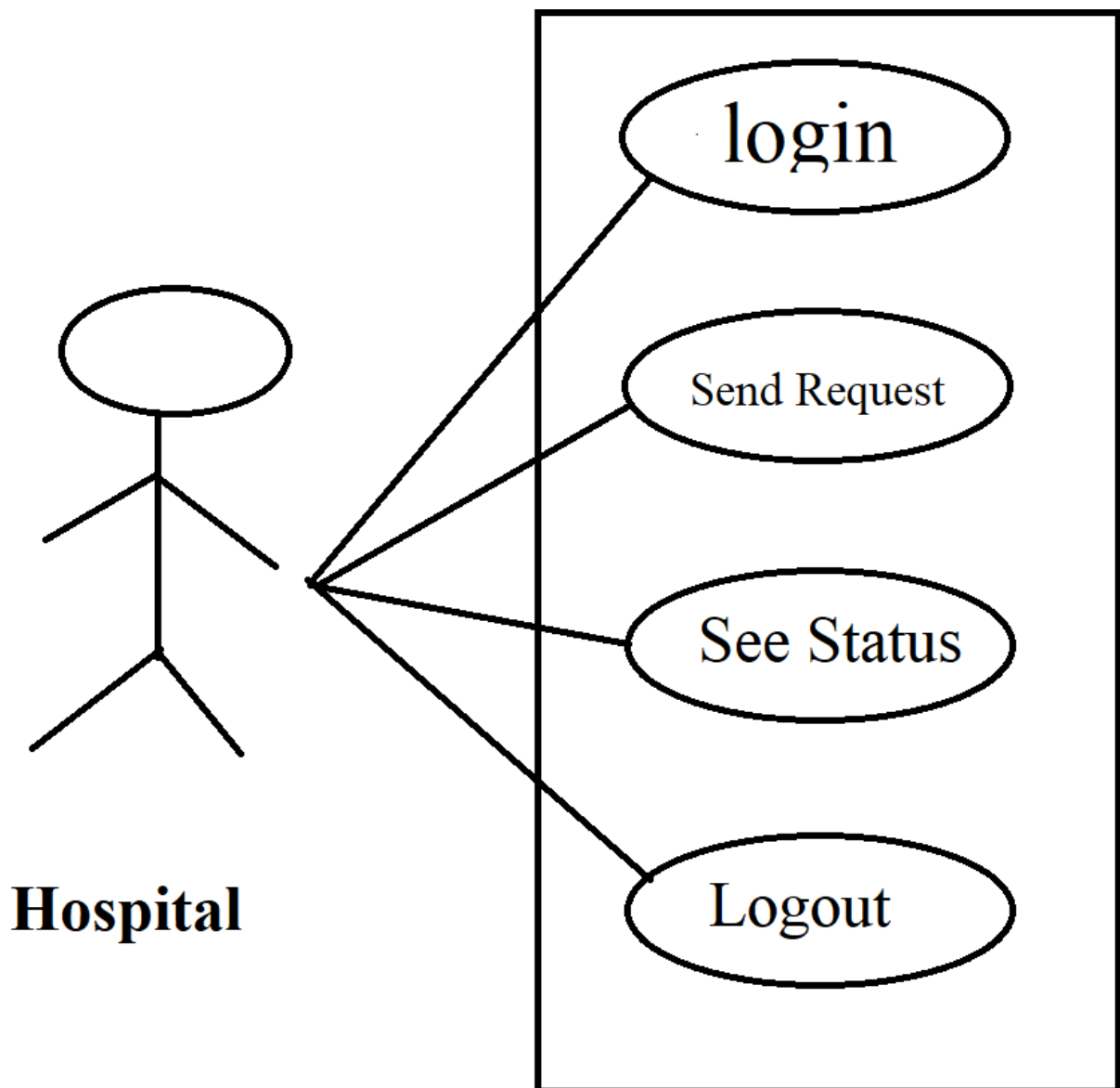
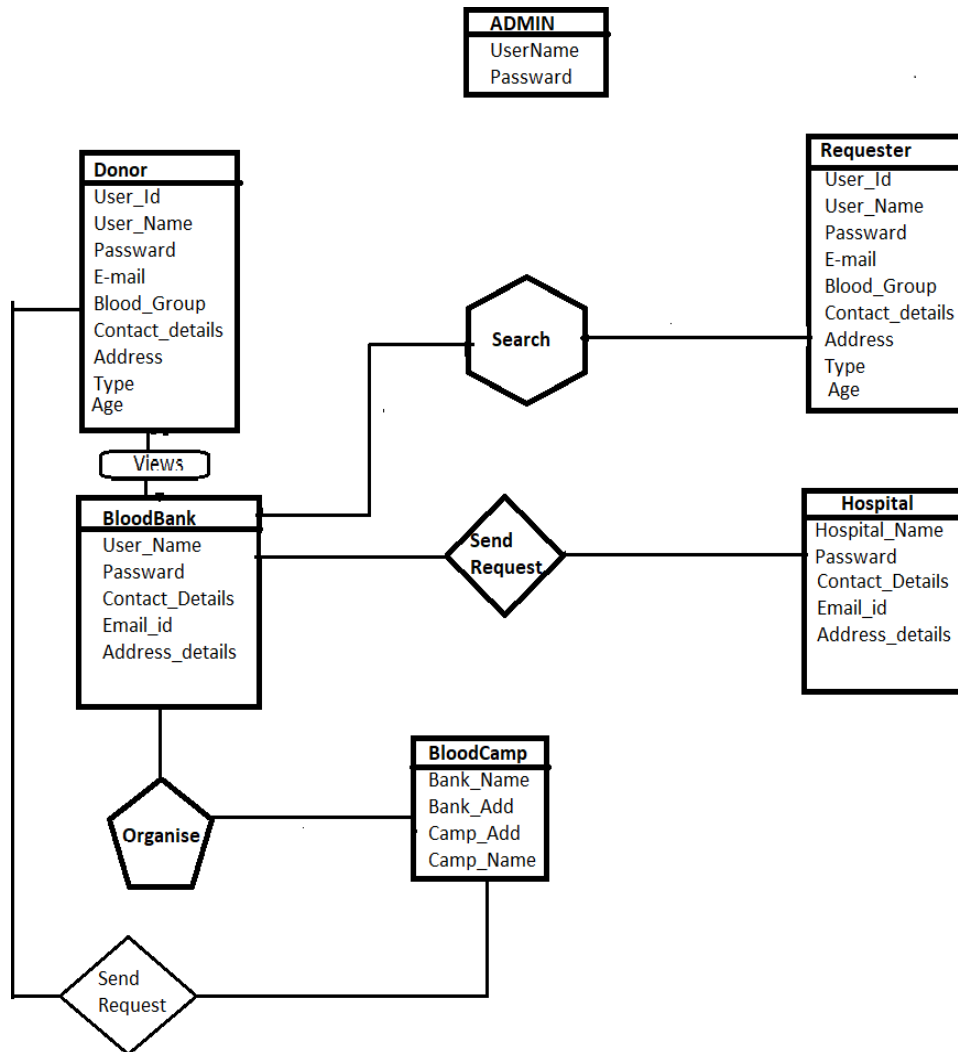


Fig. Use case diagram for Hospital

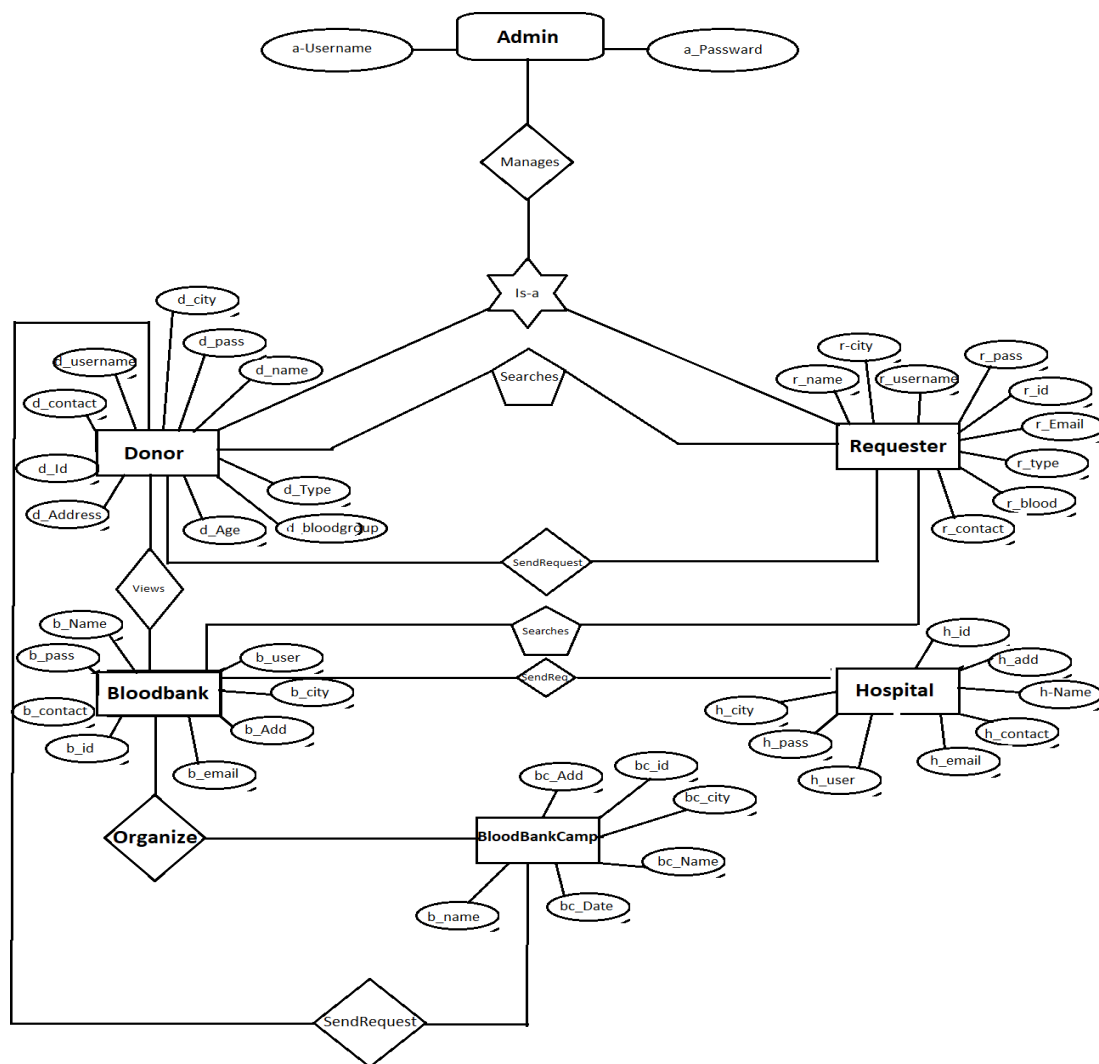
1. Requester can handle following use cases:

- e) A trigger to logout
- f) A trigger to Register
- g) A trigger to send request to blood bank

8.Sequence Flow Diagram



9.E-R Diagram



10. Database Design

1. Address Table

| Field | Type | Null | Key | Default | Extra | Description |
|----------|--------------|------|-----|---------|----------------|-------------|
| id | Int | NO | PRI | NULL | auto_increment | Address Id |
| city | varchar(30) | Yes | | NULL | | City |
| country | varchar(30) | Yes | | NULL | | Country |
| district | varchar(30) | Yes | | NULL | | District |
| pincode | Int | Yes | | NULL | | Pin code |
| state | varchar(30) | Yes | | NULL | | State |
| street | varchar(500) | Yes | | NULL | | Street |

2. Admin table

| Field | Type | Null | Key | Default | Extra | Description |
|-------------|--------------|------|-----|---------|----------------|----------------|
| id | Int | NO | PRI | NULL | auto increment | Admin Id |
| admin email | varchar(30) | yes | | NULL | | Admin Email |
| admin name | varchar(30) | yes | | NULL | | Admin Name |
| password | varchar(255) | yes | | NULL | | Admin Password |

3. Blood camp

| Field | Type | Null | Key | Default | Extra | Description |
|------------------|--------------|------|-----|---------|----------------|-----------------------------|
| id | Int | NO | PRI | NULL | auto increment | Blood camp Id |
| camp date | Date | YES | | NULL | | Blood camp date |
| end time | varchar(255) | YES | | NULL | | Blood camp End time |
| organiser name | varchar(255) | YES | | NULL | | Blood camp Organizer name |
| organiser mobile | varchar(255) | YES | | NULL | | Blood camp Organizer mobile |
| purpose | varchar(255) | YES | | NULL | | Blood camp Purpose |
| start time | varchar(255) | YES | | NULL | | Blood camp Start time |
| title | varchar(255) | YES | | NULL | | Blood camp Title |
| camp address id | Int | YES | MUL | NULL | | Blood camp Address Id |

4. Blood Camp Record Table

| Field | Type | Null | Key | Default | Extra | Description |
|---------------|--------------|------|-----|---------|----------------|----------------------|
| id | int | NO | PRI | NULL | auto increment | Camp Id |
| camp date | date | YES | | NULL | | Camp Date |
| donardob | date | YES | | NULL | | Donor DOB |
| donar name | varchar(255) | YES | | NULL | | Donor Name |
| blood group | varchar(255) | YES | | NULL | | Blood Group |
| mobile no | varchar(255) | YES | | NULL | | Organizer Mobile No. |
| bag count | int | YES | | NULL | | Total Bag Count |
| donation time | varchar(255) | YES | | NULL | | Camp Duration |
| fluid type | varchar(255) | YES | | NULL | | Blood Fluid Type |

5. Blood Requester Table

| Field | Type | Null | Key | Default | Extra | Description |
|-------------------|--------------|------|-----|---------|----------------|-----------------------|
| id | int | NO | PRI | NULL | auto increment | Requester Id |
| requester name | varchar(255) | YES | | NULL | | Requester Name |
| availability date | date | YES | | NULL | | Blood Available Date |
| bank remark | varchar(255) | YES | | NULL | | Bank Remark |
| blood group | varchar(255) | YES | | NULL | | Requester Blood Group |
| last date | date | YES | | NULL | | Requested Last Date |
| quantity | int | YES | | NULL | | Requester Quantity |
| request date | date | YES | | NULL | | Requested Date |
| requester remark | varchar(255) | YES | | NULL | | Requester Remark |
| request status | varchar(255) | YES | | NULL | | Request Status |
| blood plasma | varchar(255) | YES | | NULL | | Requester Fluid Type |

6. Donor Table

| Field | Type | Null | Key | Default | Extra | Description |
|--------------|--------------|------|-----|---------|----------------|-------------------|
| id | int | NO | PRI | NULL | auto increment | Donor id |
| dob | date | YES | | NULL | | Donor DOB |
| email | varchar(255) | YES | | NULL | | Donor Email Id |
| blood plasma | varchar(255) | YES | | NULL | | Donor Blood Type |
| gender | varchar(255) | YES | | NULL | | Donor Gender |
| blood group | varchar(255) | YES | | NULL | | Donor Blood Group |

| | | | | | | |
|------------------|--------------|-----|-----|------|--|------------------|
| mobile no | varchar(255) | YES | | NULL | | Donor Mobile No. |
| donar name | varchar(255) | YES | | NULL | | Donor Name |
| password | varchar(255) | YES | | NULL | | Donor Password |
| donar address id | int | YES | MUL | NULL | | Donor Address Id |

7. Hospital Table

| Field | Type | Null | Key | Default | Extra | Description |
|---------------------|--------------|------|-----|---------|----------------|----------------------------|
| id | int | NO | PRI | NULL | auto increment | Hospital Id |
| email | varchar(30) | YES | | NULL | | Hospital Email |
| mobile no | varchar(13) | YES | | NULL | | Hospital Mobile No. |
| name | varchar(100) | YES | | NULL | | Hospital Name |
| password | varchar(30) | YES | | NULL | | Hospital Password |
| regisration date | date | YES | | NULL | | Hospital Registration Date |
| registration id | varchar(30) | YES | | NULL | | Hospital Registration Id |
| hospital address id | int | YES | MUL | NULL | | Hospital Address Id |

8. Hospital Request Table

| Field | Type | Null | Key | Default | Extra | Description |
|-------------------|--------------|------|-----|---------|----------------|------------------------|
| id | int | NO | PRI | NULL | auto increment | Request Id |
| availability date | date | YES | | NULL | | Availability Date |
| bank remark | varchar(255) | YES | | NULL | | Blood Bank Remark |
| employeeer name | varchar(255) | YES | | NULL | | Hospital Employee Name |
| blood group | varchar(20) | YES | | NULL | | Blood Group of User |
| hospital name | varchar(255) | YES | | NULL | | Hospital Name |
| last date | date | YES | | NULL | | Last Date of Request |
| quantity | int | YES | | NULL | | Blood Quantity |
| request date | date | YES | | NULL | | Request Date |
| requester remark | varchar(255) | YES | | NULL | | Requester Remark |
| request status | varchar(255) | YES | | NULL | | Request Status |
| blood plasma | varchar(20) | YES | | NULL | | Blood Fluid Type |

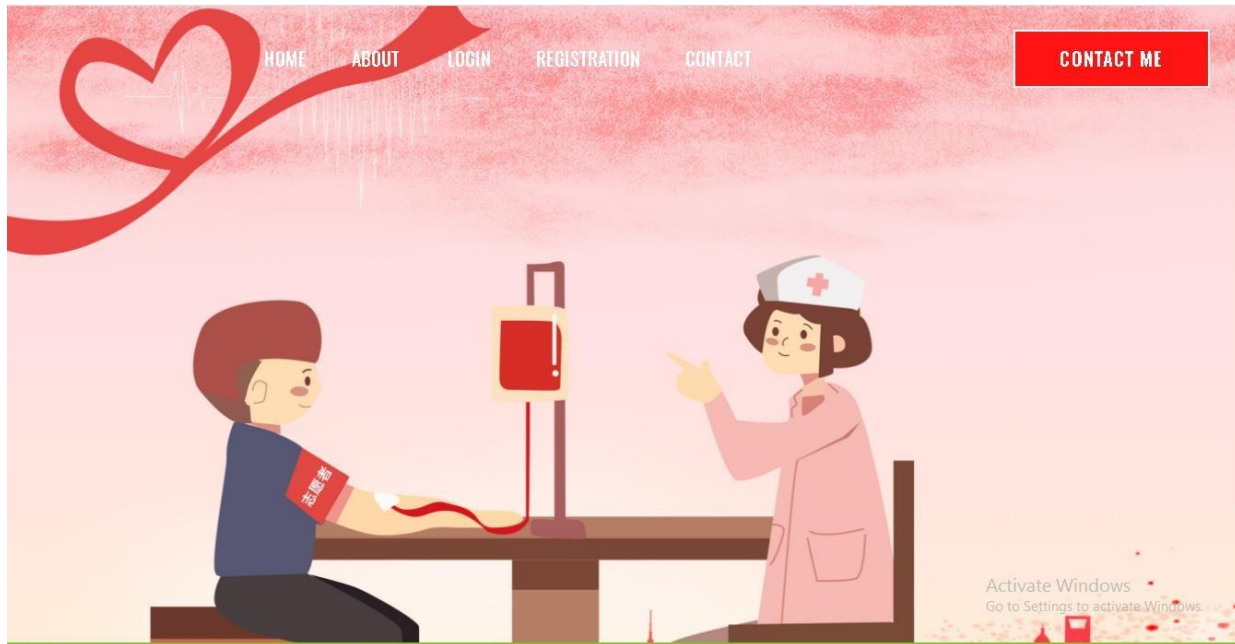
9. Stock table

| Field | Type | Null | Key | Default | Extra | Description |
|--------------------|--------------|------|-----|---------|----------------|--------------------------|
| id | int | NO | PRI | NULL | auto increment | Blood Fluid Stock Id |
| available quantity | int | YES | | NULL | | Blood Fluid Availability |
| blood group | varchar(255) | YES | | NULL | | Blood Groups |
| type | varchar(30) | YES | | NULL | | Blood Fluid Type |

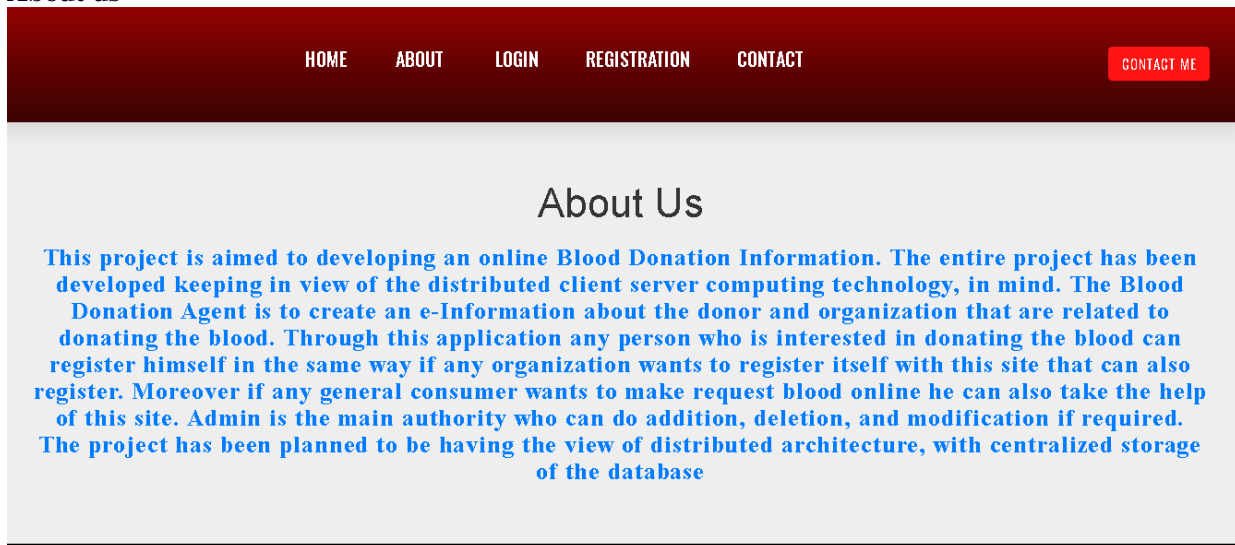
10. Receiver Table

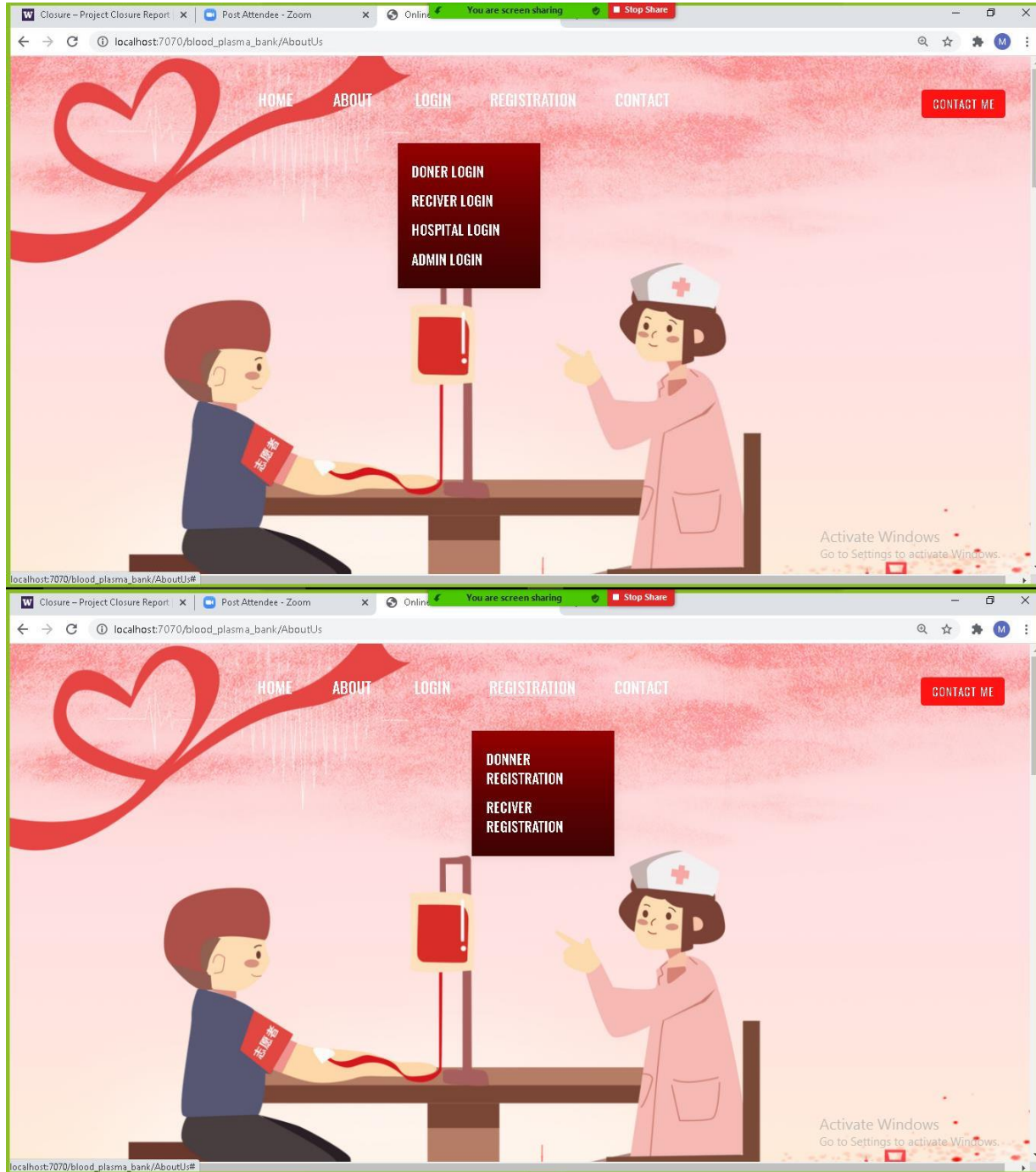
| Field | Type | Null | Key | Default | Extra | Description |
|--------------|--------------|------|-----|---------|----------------|---------------------|
| id | Int | NO | PRI | NULL | auto increment | Receiver Id |
| dob | date | YES | | NULL | | Receiver DOB |
| email | varchar(255) | YES | | NULL | | Receiver Email |
| blood plasma | varchar(255) | YES | | NULL | | Blood Fluid Type |
| gender | varchar(255) | YES | | NULL | | Receiver Gender |
| blood group | varchar(255) | YES | | NULL | | Blood Group |
| mobile no | varchar(255) | YES | | NULL | | Receiver Mobile No. |
| name | varchar(255) | YES | | NULL | | Receiver Name |
| password | varchar(255) | YES | | NULL | | Receiver Password |

11.Screen Shots



Home Page About us







Donor Registration Form

| | |
|--------------------------|---------------------------|
| <input type="checkbox"/> | Full Name |
| <input type="checkbox"/> | Doner12@gmail.com |
| <input type="checkbox"/> | mm/dd/yyyy |
| <input type="checkbox"/> | Gender ▾ |
| <input type="checkbox"/> | Donation ▾ |
| <input type="checkbox"/> | Select your Blood Group ▾ |
| <input type="checkbox"/> | Mobile Number |
| <input type="checkbox"/> | Mobile Number |
| <input type="checkbox"/> | |
| <input type="checkbox"/> | Confirm Password |


REGISTER

CANCEL

Activate Windows
Go to Settings to activate Windows.

Activate Windows
Go to Settings to activate Windows.

Reciver Registration Form

| | |
|--------------------------|--|
| <input type="checkbox"/> | Full Name |
| <input type="checkbox"/> | Doner12@gmail.com |
| <input type="checkbox"/> | mm/dd/yyyy  |
| <input type="checkbox"/> | Gender ▾ |
| <input type="checkbox"/> | Reciver For ▾ |
| <input type="checkbox"/> | Select your Blood Group ▾ |
| <input type="checkbox"/> | Mobile Number |
| <input type="checkbox"/> | |
| <input type="checkbox"/> | Confirm Password |

REGISTER

CANCEL

DONER LOGIN

RECIVER LOGIN

HOSPITAL LOGIN

ADMIN LOGIN

Activate Windows
Go to Settings to activate Windows.

Activate Windows
Go to Settings to activate Windows.



Doner Login

EMAIL

Doner12@gmail.com

PASSWORD

....

LOGIN

Activate Windows
Go to Settings to activate Windows.

localhost:7070/blood_plasma_bank/user/donor_dashboard

Search for... Logout

Dashboard / My Dashboard

Upcomming Camp Counts (1)

View Details

Attended Camp Count (0)

View Details

Notifications:

Upcomming Camp 2021-05-19

Blood Camp Is Arranged by Vishal Kulkarni Please...

Activate Windows
Go to Settings to activate Windows.

Copyright © Online Blood and Plasma Donation System 2021

Donor dashboard

localhost:7070/blood_plasma_bank/user/requestBlood

Search for... Logout

Blood Bank / Send Request / Back

Request For Blood / Plasma

Requester Name: Mangesh Kulkarni

--- SELECT ---

Select your Blood Group

Quantity In Bags / Bottles

Last Date: mm/dd/yyyy

Requester Remark

Activate Windows
Go to Settings to activate Windows.

Request Blood

localhost:7070/blood_plasma_bank/user/requestStatus

Search for... Logout

Blood Bank / Request Status / [Back](#)

Request Status

| Sr No | Type | Requested Date | Available Date | Status |
|-------|-------|----------------|----------------|---------|
| 1 | Blood | 2021-03-24 | 2021-04-10 | waiting |

Copyright © Online Blood and Plasma Donation System 2021

Activate Windows
Go to Settings to activate Windows.

Status

localhost:7070/blood_plasma_bank/user/doner_dashboard

Search for... Logout

Dashboard / My Dashboard

Upcomming Camp Counts (1)

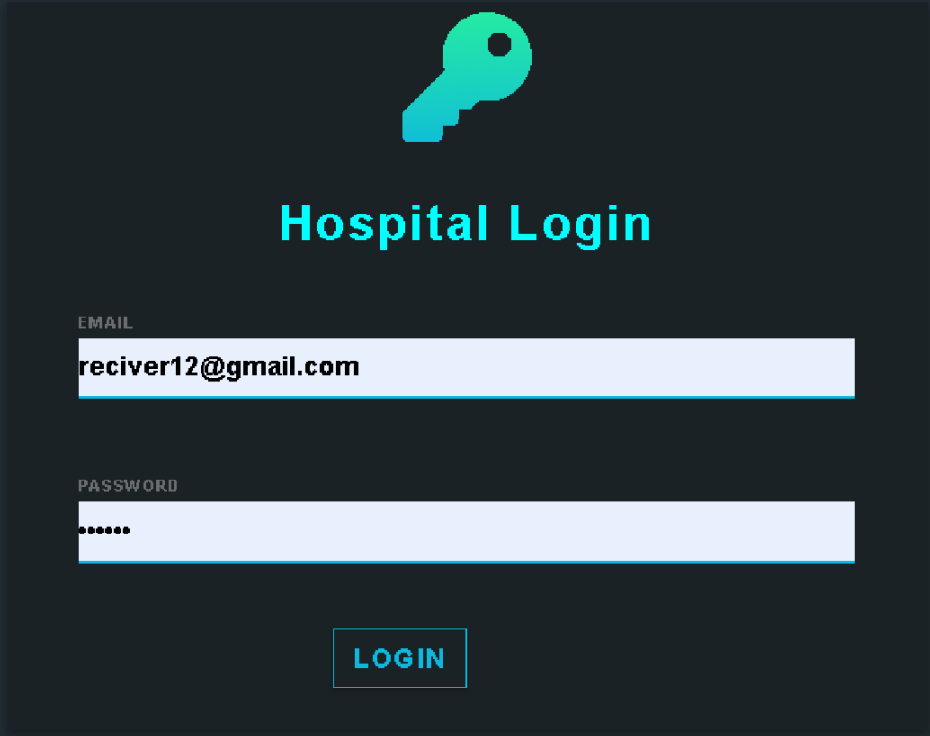
[View Details](#)

Attended Camp Count (0)

[View Details](#)

Activate Windows
Go to Settings to activate Windows.

Desktop On ENG 9:58 AM IN 3/26/2021



A login form titled "Hospital Login" with a green key icon. It features two input fields: "EMAIL" containing "receiver12@gmail.com" and "PASSWORD" containing seven dots. A green "LOGIN" button is positioned below the fields.


Act
Go t

W Closure - Project Closure Report x Post Attendee - Zoom x Online You are screen sharing Stop Share

localhost:7070/blood_plasma_bank/hospital/hospital_dashboard

Search for... Logout

Dashboard
Blood Bank
Send Request
Request Status



An illustration of a female patient lying in a hospital bed, wearing a face mask and connected to an IV drip. A female nurse in a white coat and mask stands by the bedside, holding a syringe. The background is a light blue circle on a darker blue background.

Activate Windows
Go to Settings to activate Windows

Dashboard

Reports

Hospital's

Blood Bank

Arrange New Camp

Contact Information

Organiser Contact No

XXXXXXXXXXXX

Organiser Name:

Title:

Purpose for Blood Camp.

Blood Camp Date.

mm/dd

Start Time.

--:--

End Time

--:--

Address Information

City.

State.

District.

Address Line 1.

street address

Activate Windows
Go to Settings to activate Windows.

Address Line 1.

street address

Pin Code.

Country

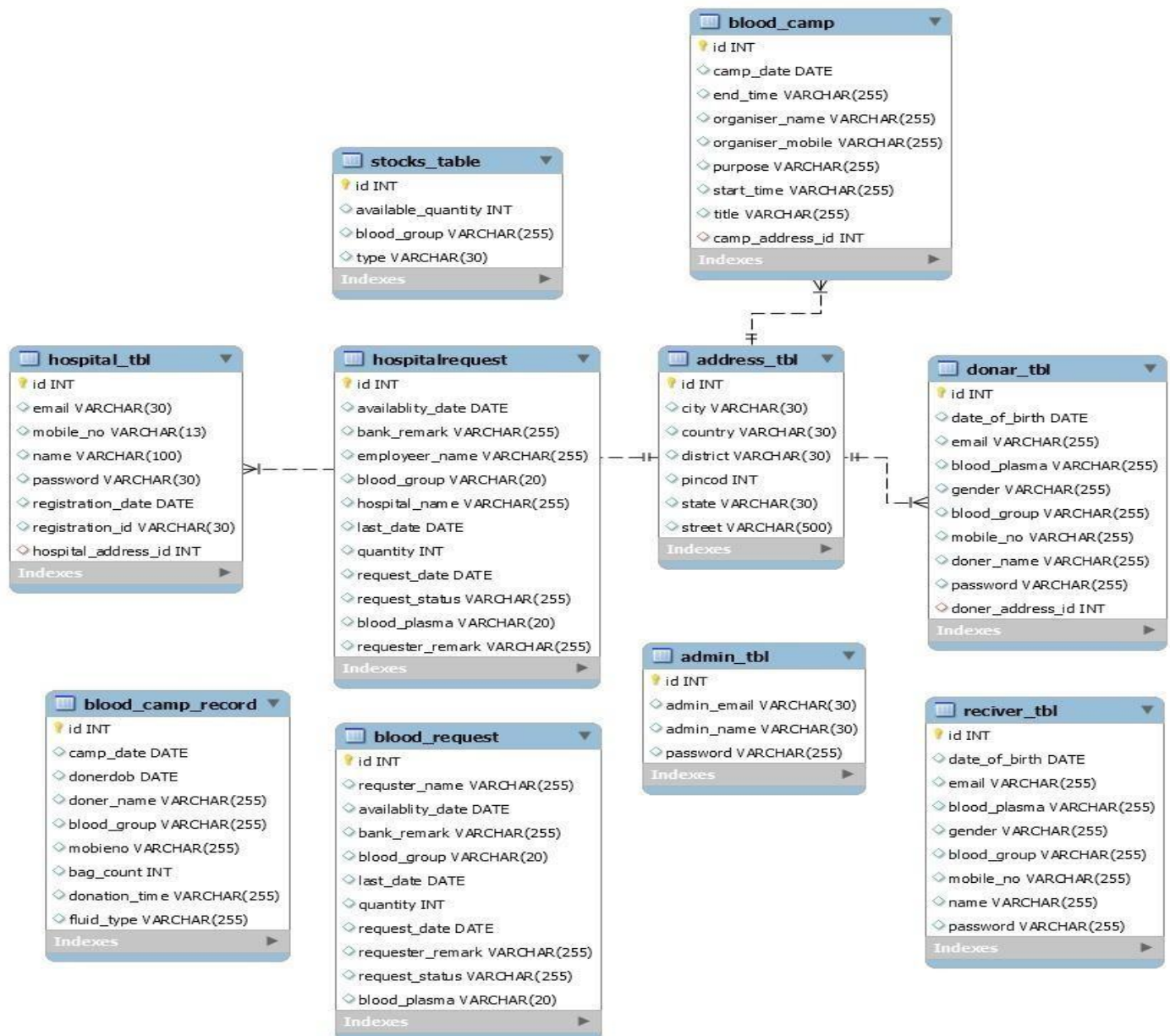
Save

Cancel

Activate Windows
Go to Settings to activate Windows.

Copyright © Online Blood and Plasma Donation System 2021

12. Data Flow Diagram



13. Conclusion

There is no such application which will find out the donor of Plasma or Blood to the Patients who are in Emergency. This application will help to those Patients Relative, or Hospitals for Making Availability of plasma or blood. Provide such web portal for medical platform to save life's and increase count of donors by providing information about nearest plasma and blood donors. By using this system, the user can search required blood group and plasma also it helps other by donating both

14. Future Scope

Online Plasma and Blood Donation System is a web-based application. It provides a convenient way for requester to search nearest plasma and blood donors for donation and also in emergency it can find donor on immediate basis. We Are added more develop this web app

