



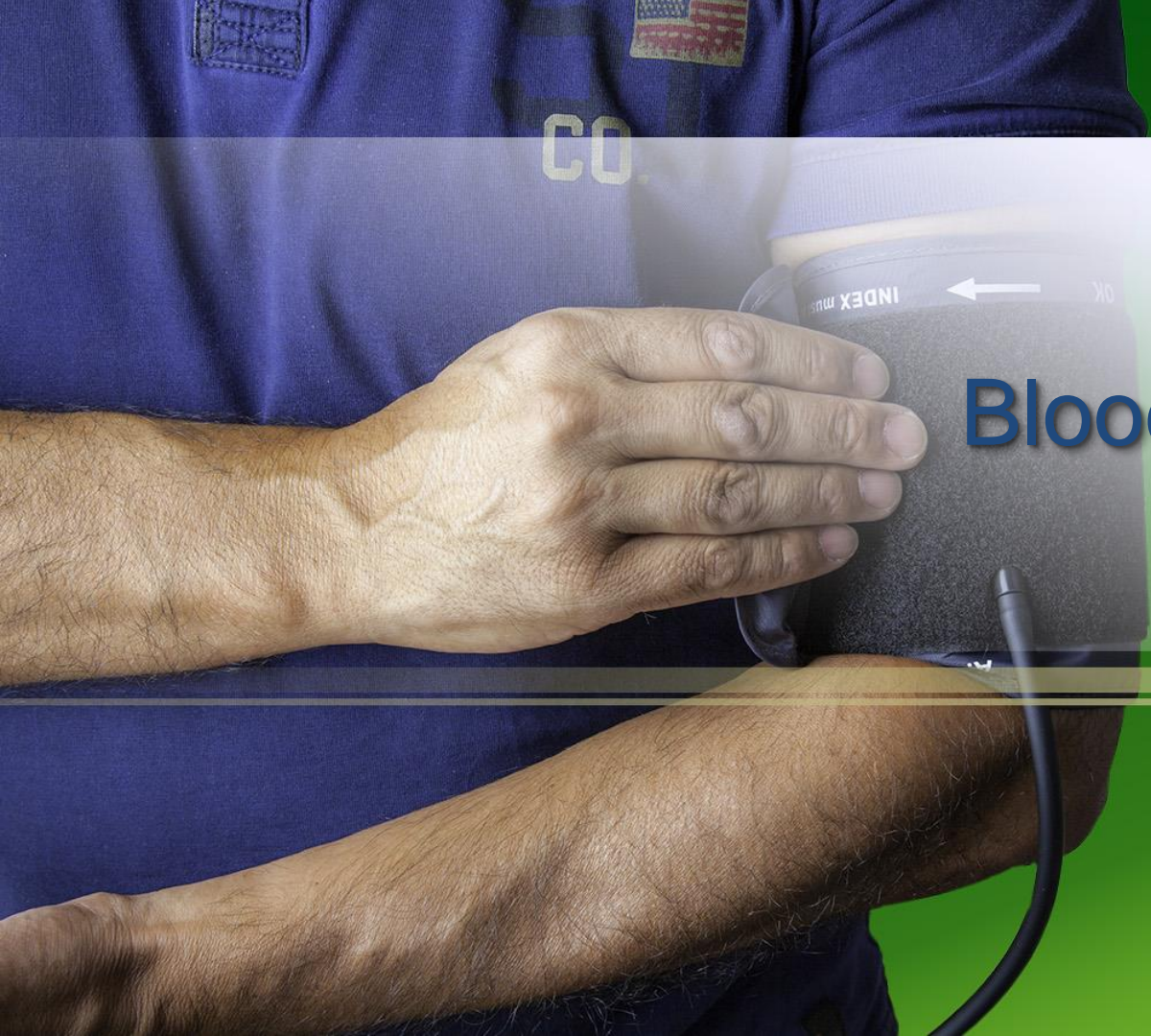
Blood Bank System

1. Ibrahim Nasr Ibrahim (20162084) – (Team Leader) - IT
2. Mahmoud Saad Mohamed (20162297) –CS
3. Mudassar Elhady Mohamed (20162201) -IT
4. Remon Emad Helmy (20162032) -IT
5. Karim Mohamed Mohamed Abd Fattah (20162027)-IT

Department of Computer Science
Integrated Thebes Institute
2018-2019

Database System (
Project)





Blood Bank System



Abstract

- ❖ Blood Bank Management System (BBMS) is a Desktop application based system that is designed to store, process, retrieve and analyze information concerned with the administrative
- ❖ This project aims at maintaining all the information pertaining to blood donors
- ❖ Aim is to provide transparency in this field, make the process of obtaining blood from a blood bank hassle free and corruption free and make the system of blood bank management effective .
- ❖ Our client is not interested in blood stocking instead we are stocking blood donors information. The donors who are interested in donating blood has to register in the database.
- ❖ There is no storage of blood so no complications in the project.
- ❖ It is developed in a manner that is easily manageable, time saving and relieving one from manual works.
- ❖ The Admin can update their donor status
- ❖ The Admin can Add and Delete record



✓ Activity

- ❖ Choose state
- ❖ Log-in
- ❖ Authentication
- ❖ Search
- ❖ FAQ process
- ❖ Report
- ❖ Manipulation
- ❖ Backup

✓ Data store

- ❖ Administrator
- ❖ Donor
- ❖ Seeker



✓ Stakeholders

- ❖ Administrator
- ❖ Blood Donor
- ❖ Blood Seeker

✓ Button

- ❖ List of details
- ❖ Command help
- ❖ Choose state
- ❖ Search
- ❖ FAQ
- ❖ update
- ❖ Logout
- ❖ Delete
- ❖ Add
- ❖ Exit



Identifying Problems, Opportunities, and Objectives





Problem

- As we all know the Working of Blood Bank Management System A blood bank is provide blood, blood components, stored blood and preserved for later use in blood transfusion. But the Real Fact is Blood transfusion service is a multibillion dollar profession/ business worldwide. During the literature survey I am find some limitation in the conventional blood bank system , in my literature survey I am collect some of the news paper cutting as evidence that shows the some limitation of existing blood bank system .Some time blood bank are not able to provide a particular blood to needy person, in casualty case , so many blood bank a maintain record manually, in the rural area not have a proper resource for storage of blood . A hospital has its own systems and limitations, the coordination between the blood banks is practically impossible. Because of low number of donors and more number of blood banks, the efficiency and quality of blood banks are low, resulting in wastage of blood and blood components



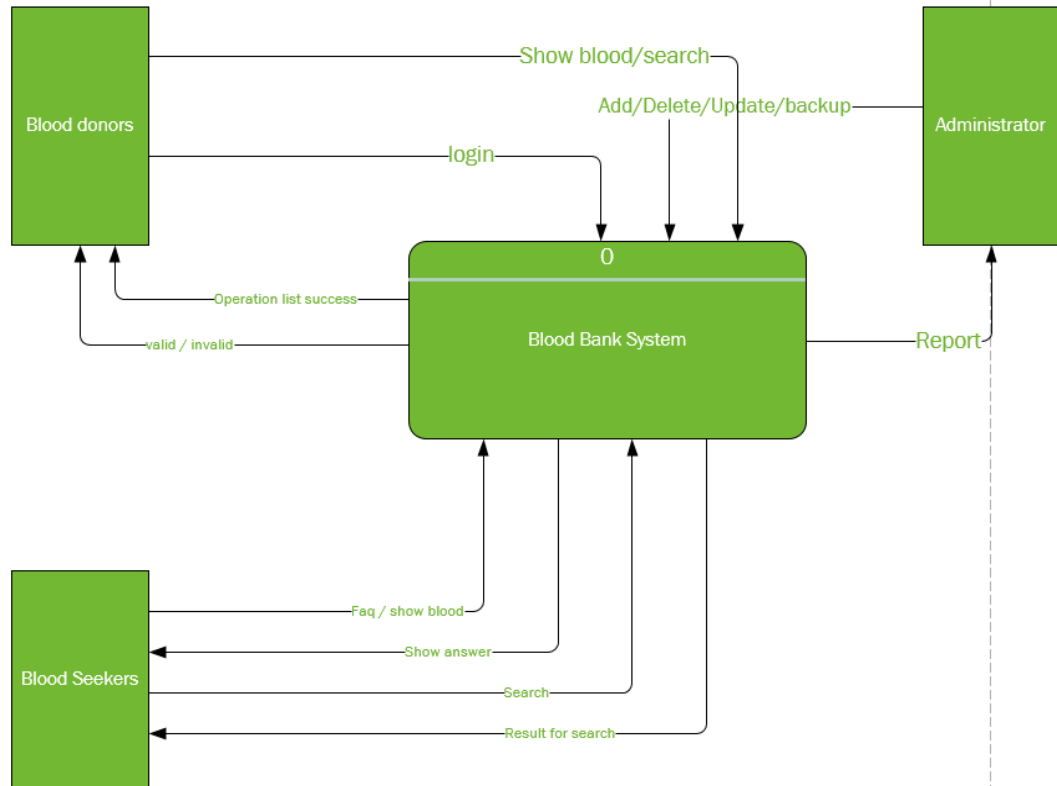
Objective

- The objective of the blood transfusion system is to facilitates the process between blood donors and blood seekers
- To provide a means for the blood banks publicize and advertise blood donation system
- To allow the probable recipients to make search and match to volunteer donors .

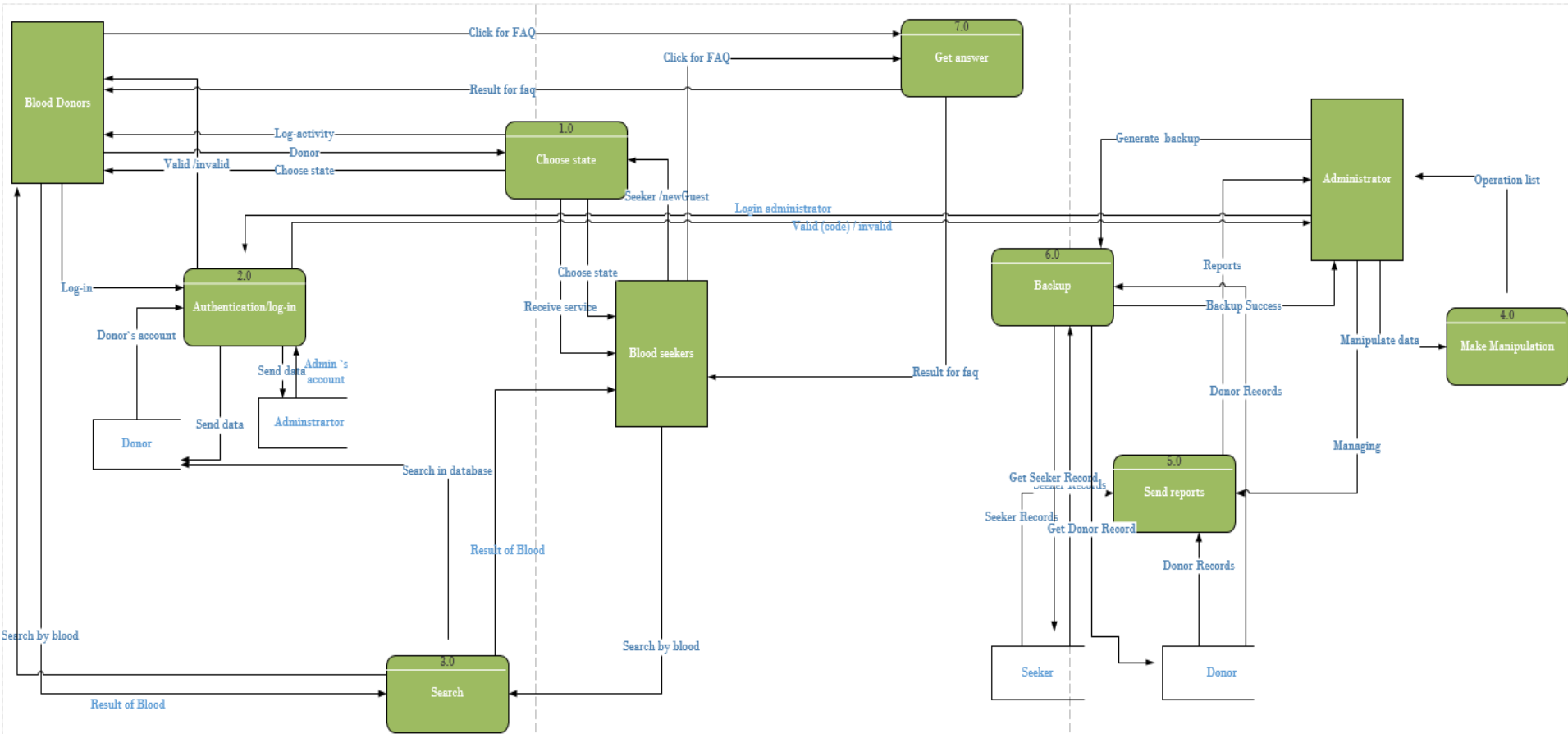


Analyzing System Needs

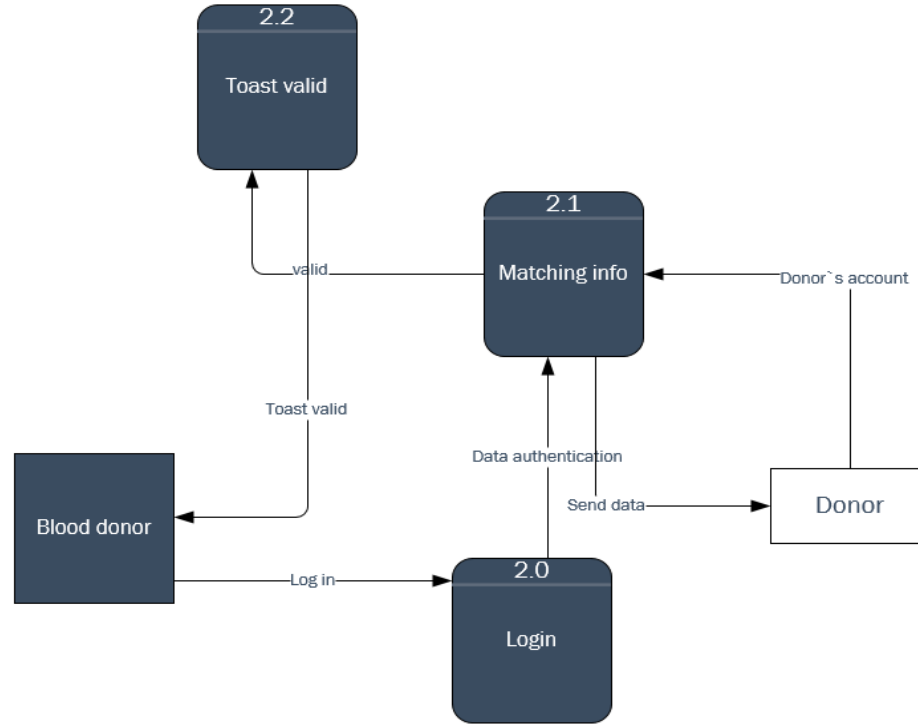
Context Level



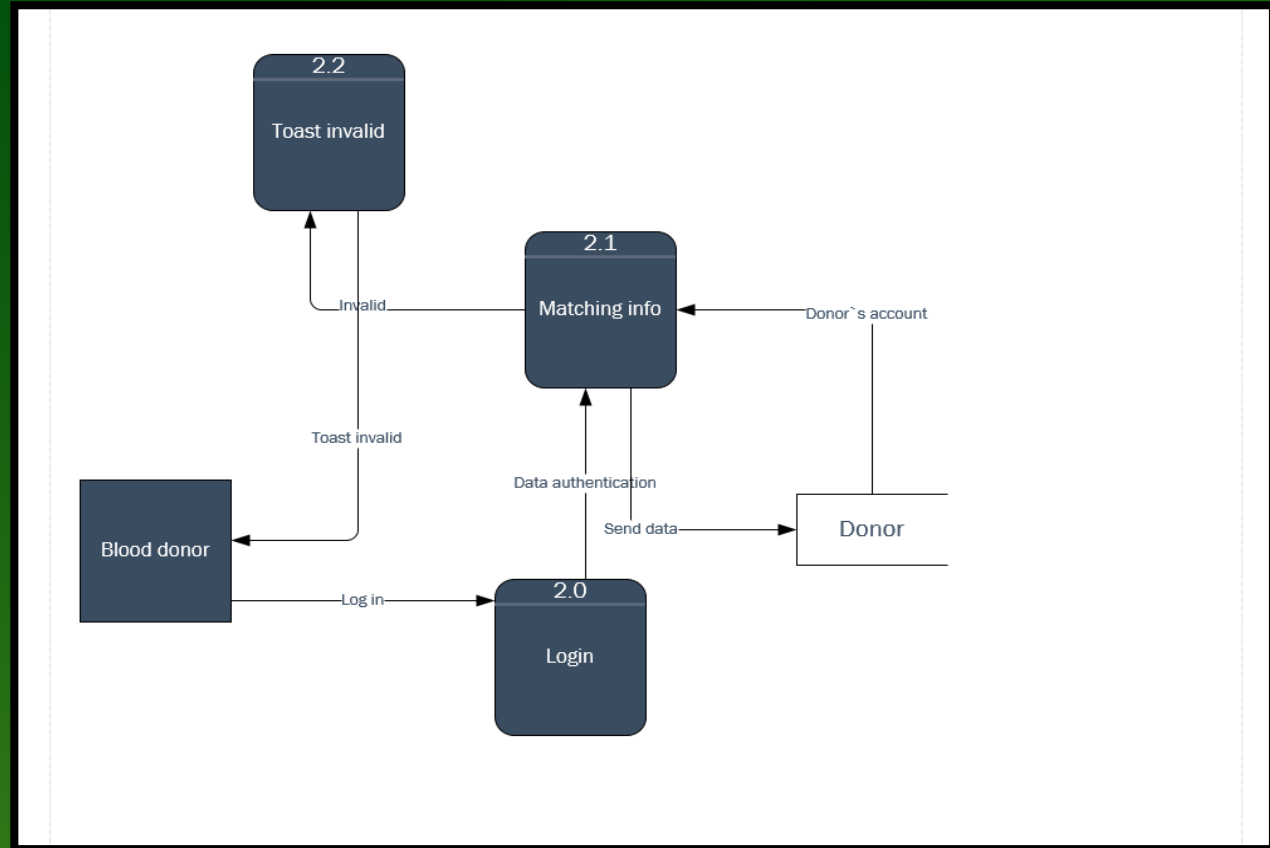
Level Zero



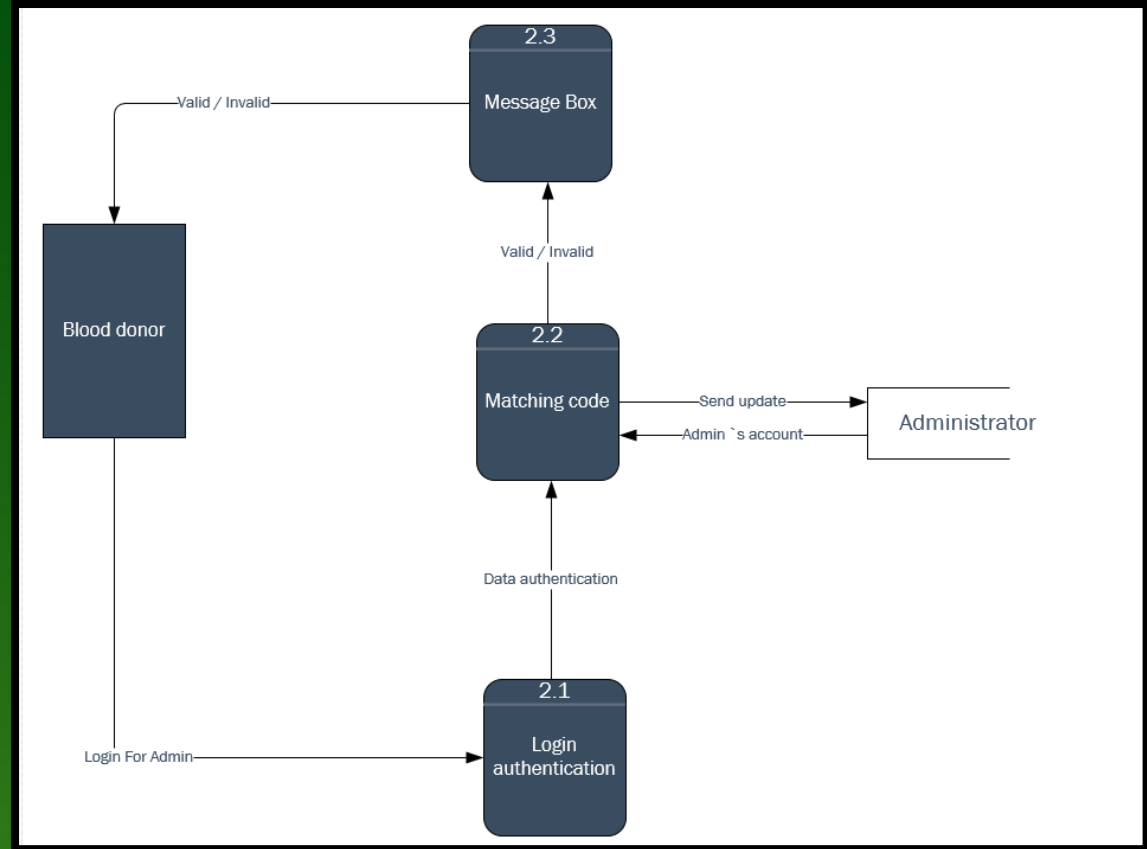
Level One (case valid) Authentication for User



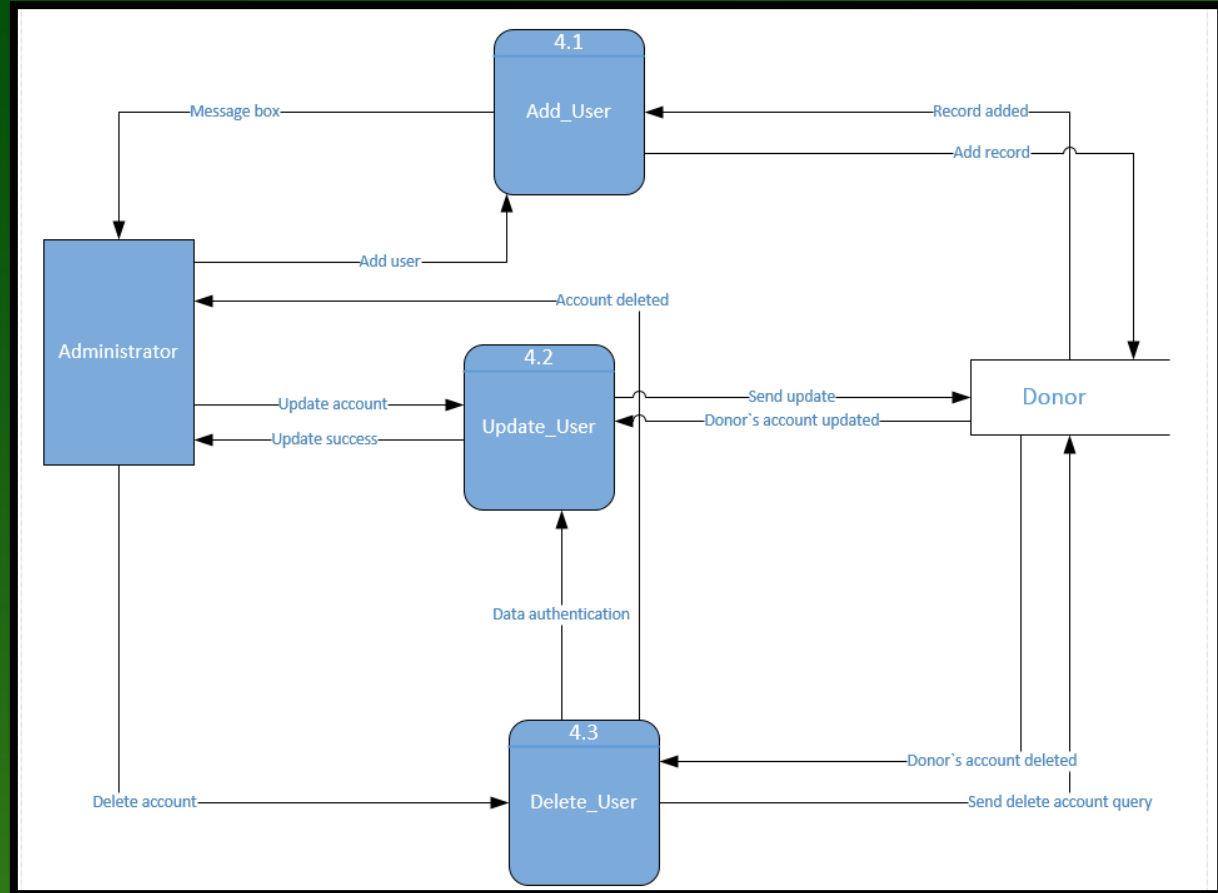
Level One (case invalid) Authentication for user



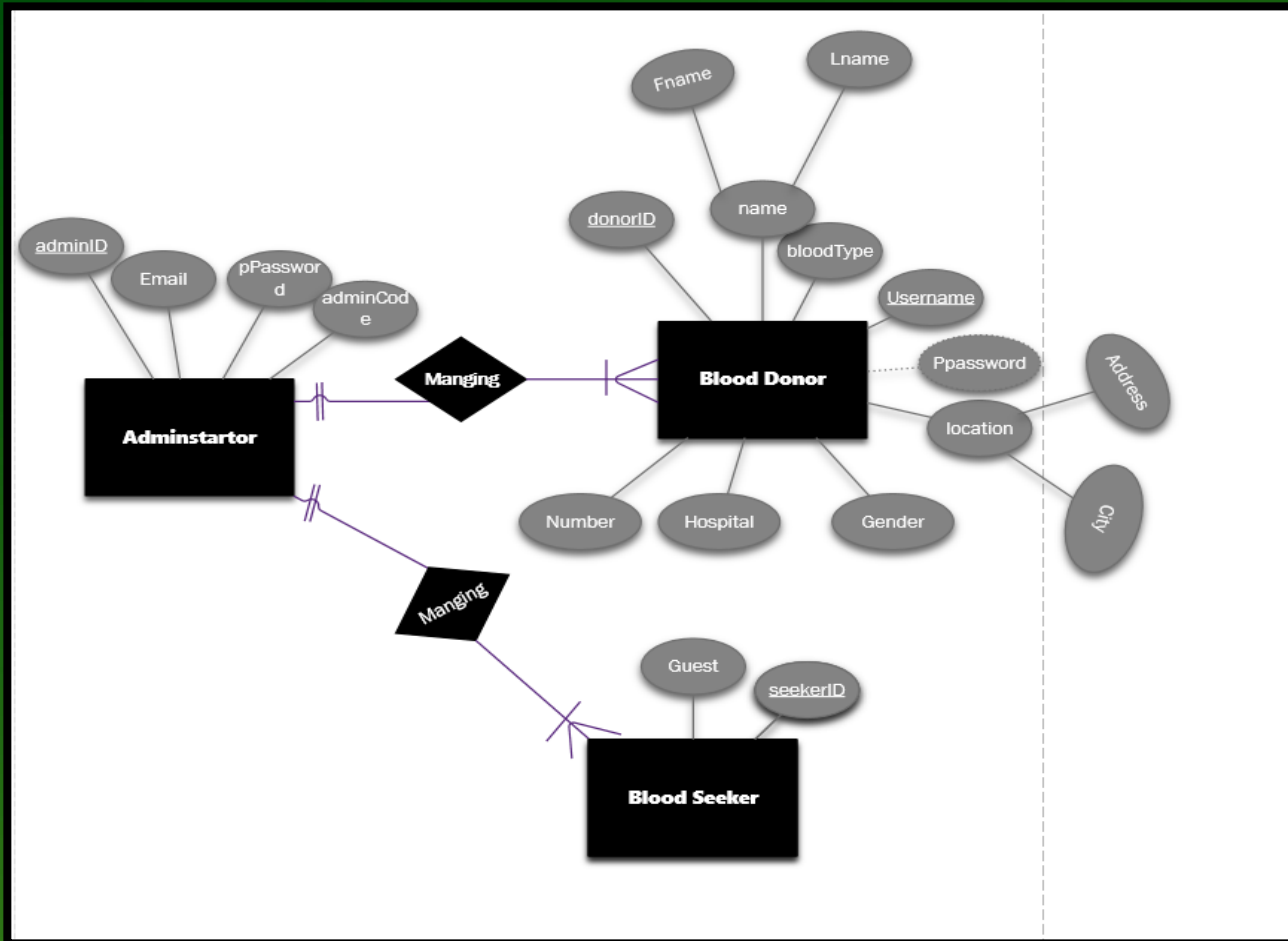
Level One (case invalid) Authentication for Admin



Level One Manipulation

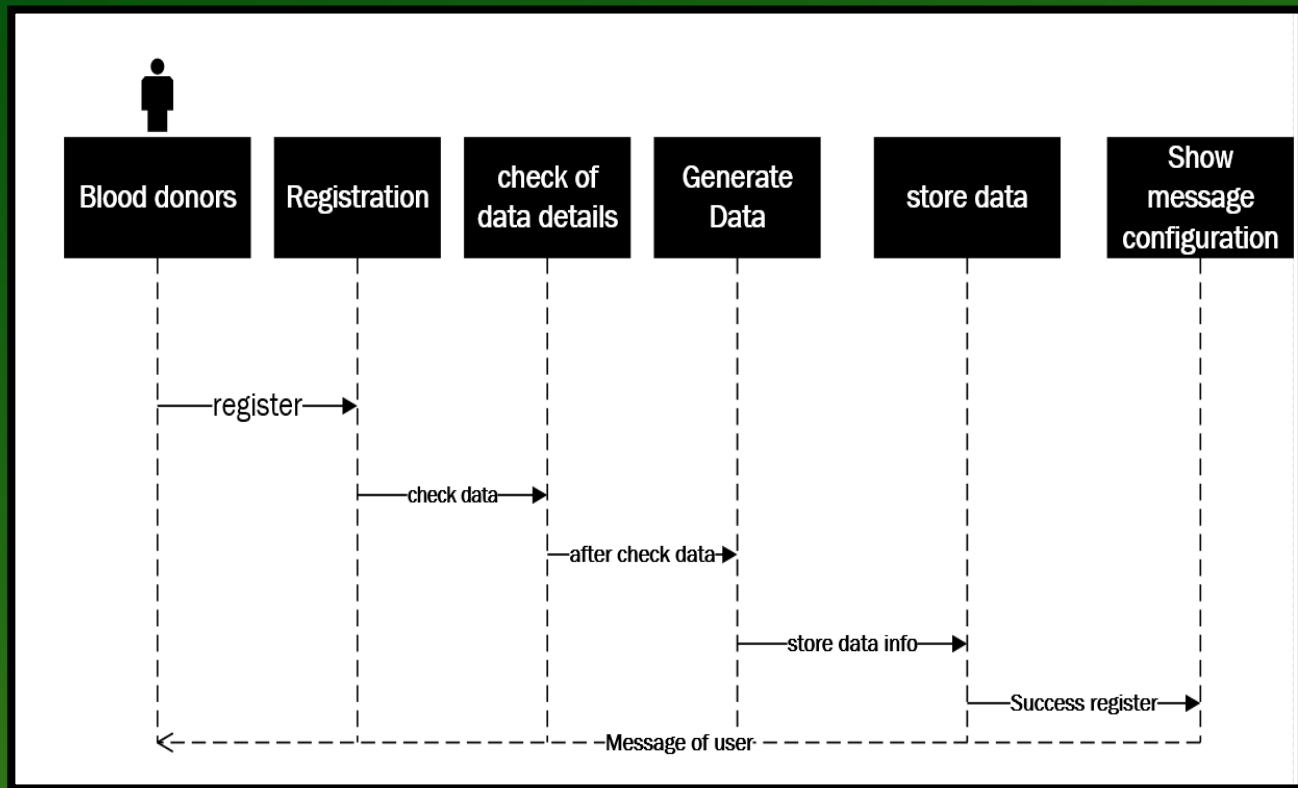


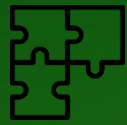
Entity Relationship Diagram (ERD)



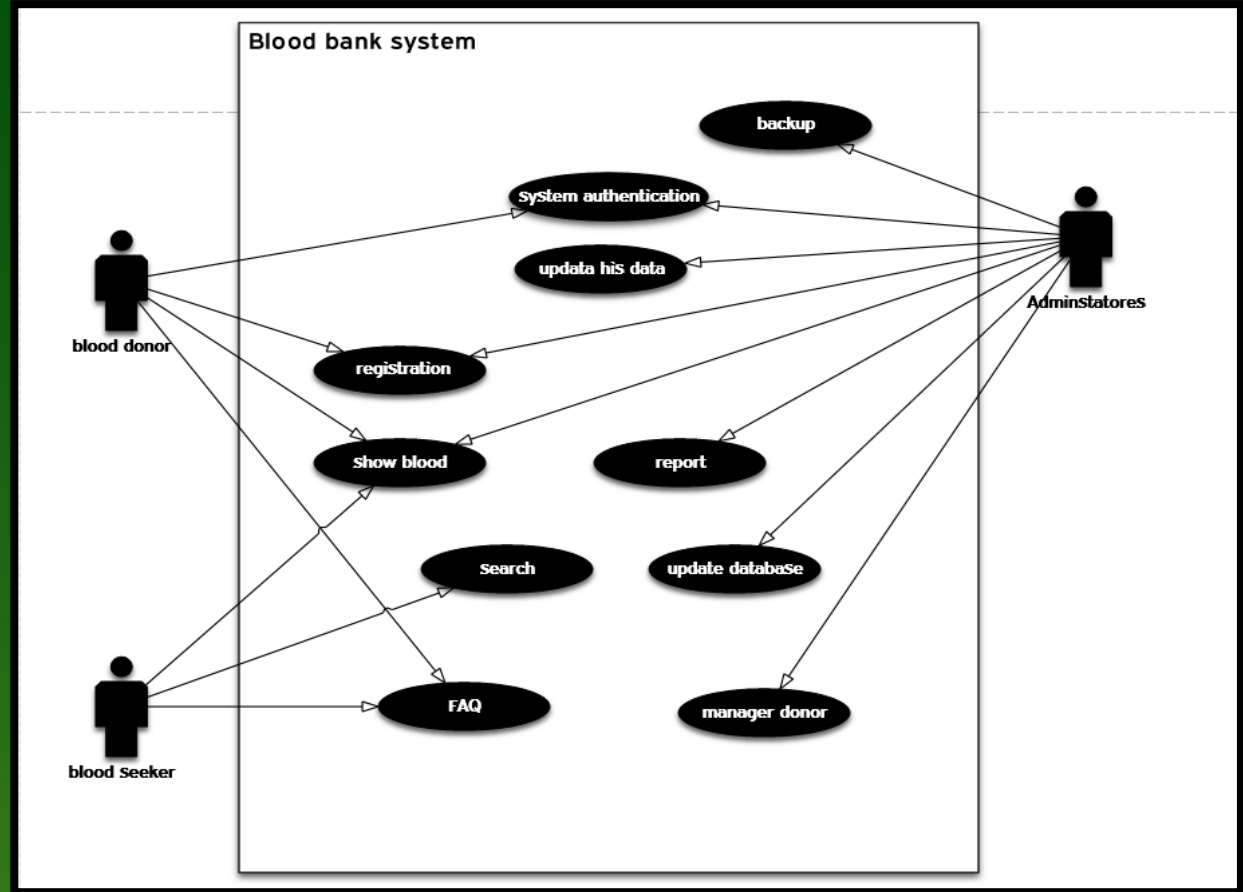


Sequence Diagram





Use Case Diagram





Designing the Recommended System



Database Scheme

Administrator

<u>adminID</u>	Email	UserName	pPassword	adminCode
----------------	-------	----------	-----------	-----------

Blood Donor

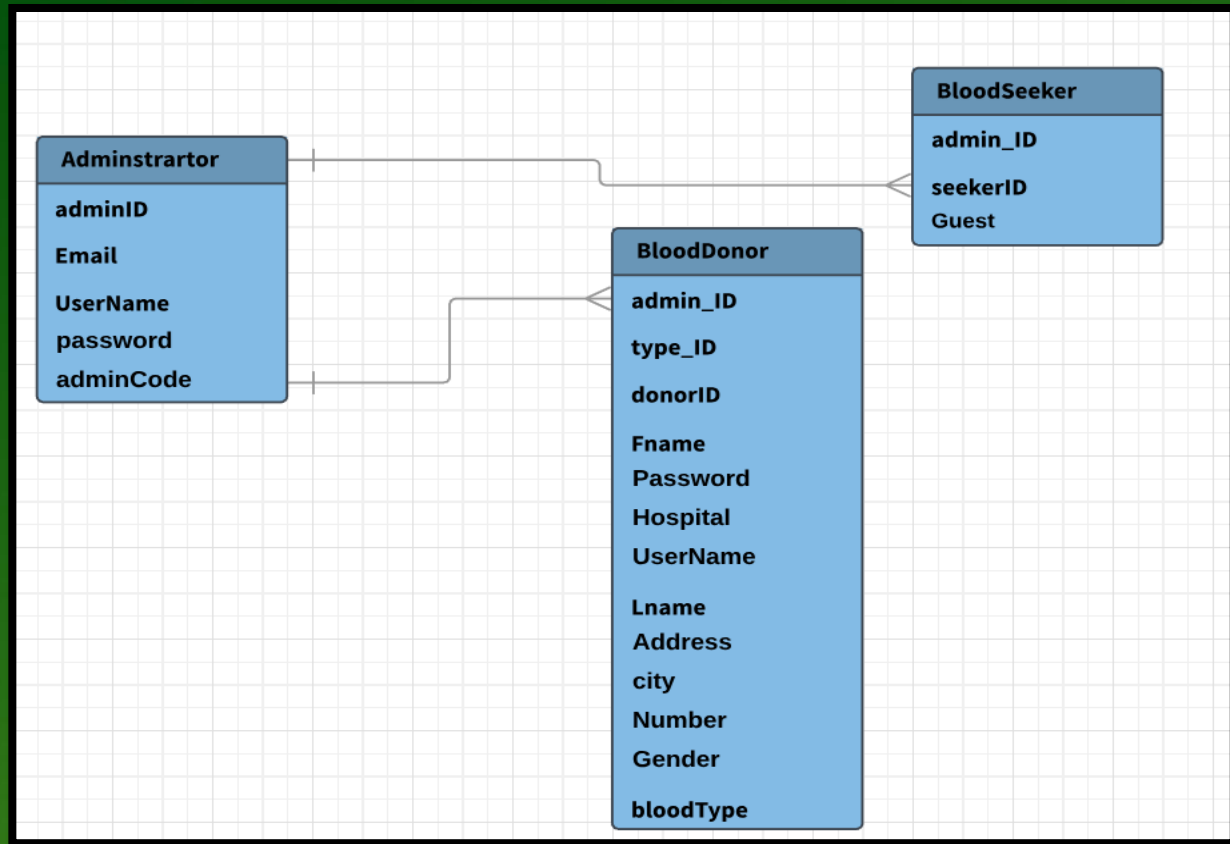
<u>donor ID</u>	Fname	Lname	UserName	pPassword	Hospital	aAddress	city	Number	Gender	bloodType	Gender
-----------------	-------	-------	----------	-----------	----------	----------	------	--------	--------	-----------	--------

Blood Seeker

<u>seekerID</u>	Guest
-----------------	-------



Database Design



```
CREATE TABLE Adminstrartor (  
    adminID int primary key identity(1,1) ,  
    Email varchar(50) ,  
    UserName varchar(50) ,  
    pPassword int,  
    adminCode int  
);
```

```
CREATE TABLE BloodDonor (  
    admin_ID int ,  
    donorID int primary key identity(1,1) ,  
    FName varchar(50) ,  
    pPassword varchar(50) ,  
    Hospital varchar(50) ,  
    UserName varchar(50) ,  
    Lname varchar(50) ,  
    aAddress varchar(50) ,  
    city varchar(50) ,  
    Number varchar(11) ,  
    Gender varchar(25),  
    bloodType varchar(5)  
    foreign key (admin_ID) references Adminstrartor (adminID),  
);  
/*Schema of BloodSeeker */  
CREATE TABLE BloodSeeker (  
    admin_ID int ,  
    Guest varchar(20),  
    seekerID int primary key identity(1,1),  
    foreign key (admin_ID) references Adminstrartor(adminID)  
);
```



Database Code



Developing and Documenting Software



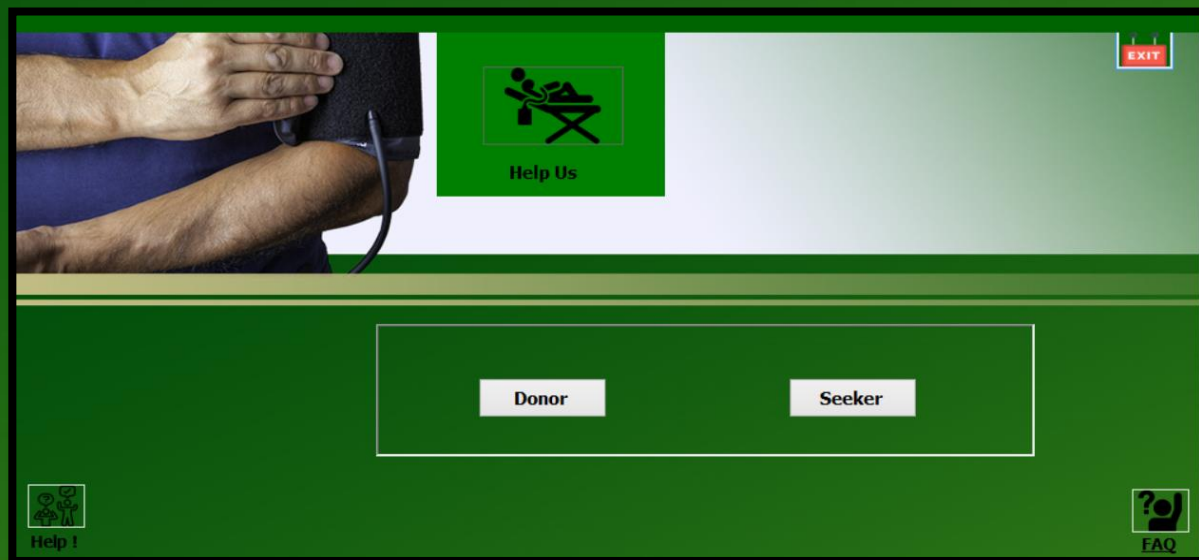


Loading...





Choose State





Log-in



Login




Login


Signup




Sign-up



Sign Up




Firstname	<input type="text"/>	Address	<input type="text"/>
Lastname	<input type="text"/>		
Username	<input type="text"/> *	City	<input type="text"/>
Password	<input type="text"/> *	Gender	<input type="radio"/> Male <input type="radio"/> Female
Hospital	<input type="text"/> *	Blood_Type	<input type="radio"/> A+ <input type="radio"/> A- <input type="radio"/> B+ <input type="radio"/> B- <input type="radio"/> O+ <input type="radio"/> O- <input type="radio"/> AB+ <input type="radio"/> AB- 
Number	<input type="text"/> *		

Register




BloodBankSystem

BloodBankSystem



Guest

DonorID	Name	BloodType	Number	City	Hospital
1	remon_emed	A+		Cairo	Elrahabaat
2	karem	AB+		Cairo	Bamra_Hospi...
3	7oka	O-		Cairo	Shoubra_hos...
4	ibrahim_nasr	O+		Cairo	Kubra_Elkoba
5	Modaser_Elh ...	A-		Cairo	Elmarg_Hosp...





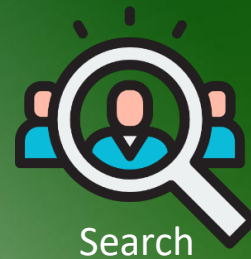
Logout


<


>


Search

EXIT






Back


EXIT

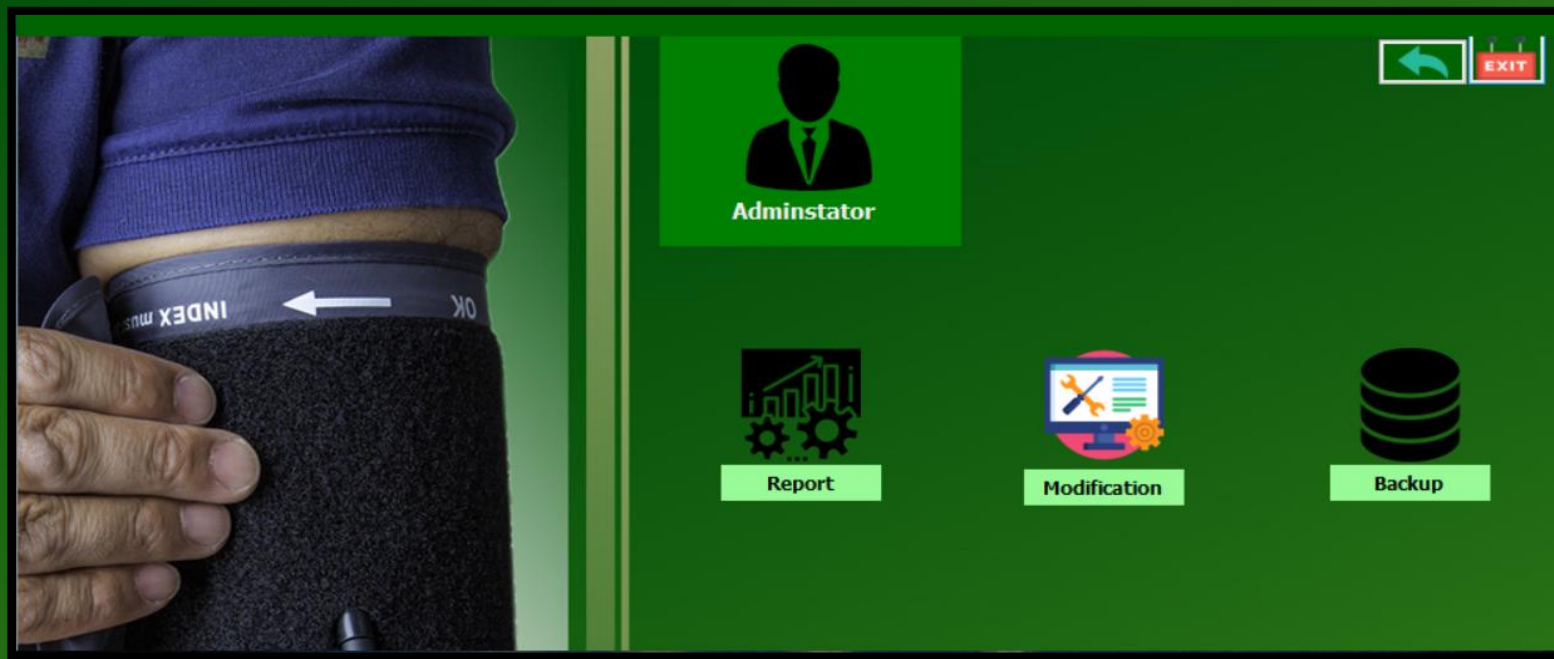
Username

BloodType

Hospital

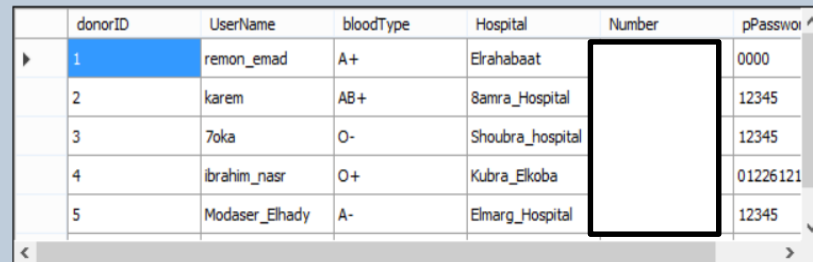
Number








Administrators




FirstName	<input type="text"/>	Number	<input type="text"/>	Password	<input type="text"/>
LastName	<input type="text"/>	Gender	<input type="text"/>	Address	<input type="text"/>
UserName	<input type="text"/>	Hospital	<input type="text"/>	* Update	<input type="text"/>
BloodType	<input type="text"/>	City	<input type="text"/>	* Delete ID	<input type="text"/>



Backup & Restore



Back



Backup Database

Location

Browse

Backup

Restore Database

Location

Browse

Restore



Testing and Maintaining the System

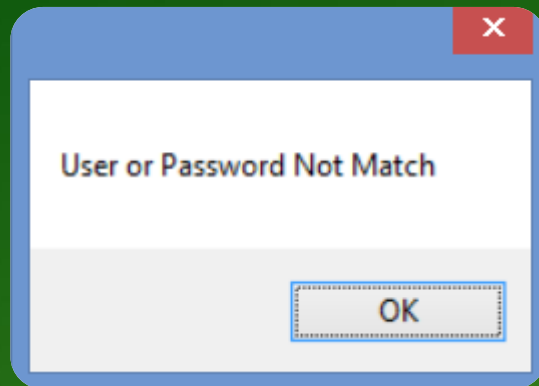


Validation

A screenshot of a user login interface. The top section features a large image of a person's arm with a blood pressure cuff on the left. To its right is a green square button with a white icon of a person and a key, labeled "Login". In the top right corner of this section are two small buttons: a green arrow pointing left and a red button labeled "EXIT". The bottom section is a dark green area containing a login form. The form has two input fields: the first contains the username "modaser_elhady" and is preceded by a user icon; the second contains masked text "*****" and is preceded by a shield icon. Below these fields are two buttons: "Login" and "Signup".



Validation





Security

Username : iNasr

Password : 01033191978



[Back](#)

Code

20162084

Login



FAQ (Frequently Asked Questions)

How long does it take to donate blood?

The process of donating blood usually takes about 35 minutes from start to finish, however the act of donating blood usually takes about 5 to 8 minutes on average.

You're asking me a lot of personal information, is it confidential?

Absolutely. Your complete honesty in answering all questions asked is very important and all information you provide is completely confidential.

Will it hurt?

You may feel a slight pinch when the phlebotomist inserts the needle but rest assured, our staff does everything possible to make sure that the donation process is an easy and enjoyable process for all of our donors.

Are there any risks to me?

While uncommon, there are risks of donating. Some of these risks and/or problems associated with donating include: bruising (hematoma), pain or nerve damage at the site, dizziness or lightheadedness, nausea and/or vomiting. Your phlebotomist will go over all of this with prior to donating, and will give you after care instructions to help you avoid any reactions. If at any point you have an questions or concerns please do not hesitate to contact us.

I take prescribed medications regularly, does that mean I can't donate?

Not necessarily. While there are some medications that will make you ineligible to donate, most are not an issue. The best way to verify if your medication will or will not defer you is to call us prior to donating or ask a nurse when you come in to donate.

I just got over a cold/the flu, can I still donate?

We ask that you be in good in general health (feeling well) when you donate, meaning that you are symptom free and are not on any antibiotics. Take the time to fully recover from your cold/the flu before you come back to donate, we'll be happy to see you regardless of when you come back!

What area will my donation help?

The Community Blood Bank of Northwest Pennsylvania and Western New York is the predominant supplier of blood to hospitals in Erie, Elk, McKean, Mercer, Potter, Tioga, Warren and Venango counties, as well as to Titusville Area Hospital. They are the preferred supplier to many hospitals in Allegany and Chautauqua counties in Western New York. We rely on donors in these areas to support their local blood supply.

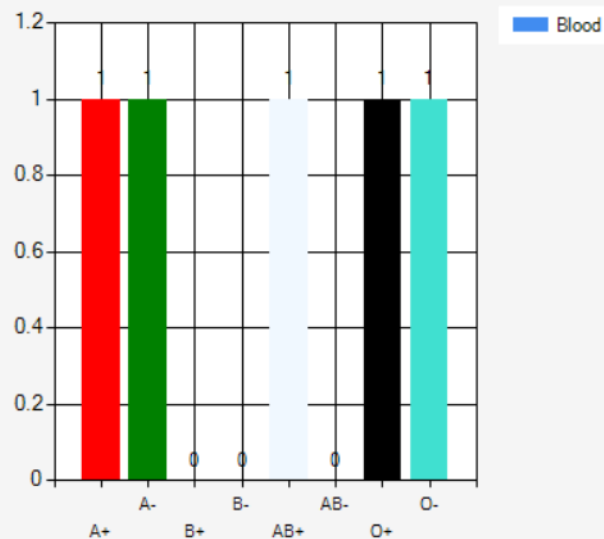
Is there a minimum number of donations needed?

We need about 700 donors each & every week in order to keep up with usage by our partner hospitals.

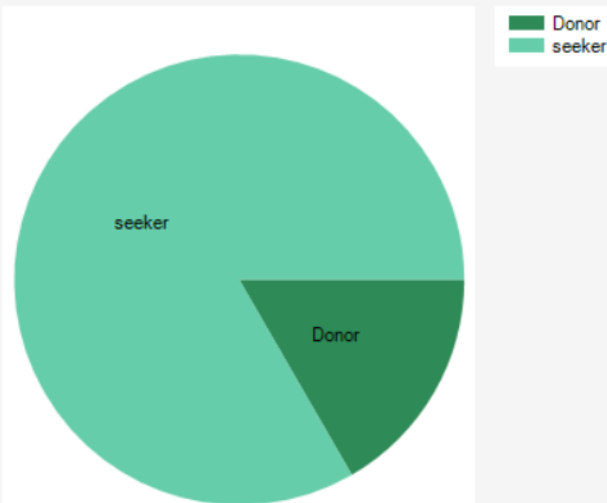


Statistics

Blood Chart



Seeker & Donor



Who visit the System



About us



Blood Bank System Team Codec

Version 1.0



Web Site



Team Codec

Ibrahim Nasr Ibrahim (20162084)

Mudassar Elhady Mohamed (20162201)

Mahmoud Saad Mohamed (20162297)

Remon Emad Helmy (20162032)

Karim Mohamed Mohamed Abd Fattah (20162027)