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Note:.....	Error! Bookmark not defined.

Blood Bank

Database Planning

We can Divided our Blood Bank Into Following Sections.

Mission Objectives

“**Blood Bank Management System** (BBMS) is a web based **system** that can assists the information of **blood** bag during its handling in the **blood bank**. With this **system**, the user of this **system** can key in the result of **blood** test that has been conducted to each of the **blood** bag received by the **blood bank**.”

Mission Objective of Database

Mission Objective of the database is

- To maintain (Enter, Update and Delete) data on Donors
- To maintain (Enter, Update and Delete) data on Patients
- To maintain (Enter, Update and Delete) data on Blood Bank
- To maintain (Enter, Update and Delete) data on Blood Groups
- To maintain (Enter, Update and Delete) data on Blood Request
- To maintain (Enter, Update and Delete) data on Health of Donors

Views

There is only one view in our Systems

Task Assign to Members

Hamza-Bin-Ahmad And Sharjeel:

Hamza-Bin-Ahmad And Sharjeel will design and develop the Login Functionalities in Our Blood Donation Management by interacting with database to validate the user.

Abdullah Noor Niazi And Hamza Aslam

Abdullah-Noor-Niazi and Hamza-Aslam will Develop And Design the Dashboard Functionalities After User will login The system.

Usama-Farid, Usman Jadoon

Usama-Farid and Usman Jadoon has to design And Develop the Blood Section That will include Available Blood, New Donor Insertion part, Available and Not available Blood and The Prices of Blood.

Mahad And Hanzala-Shahid

They will design Design and Develop The finicial aspect of Database like Weekly, monthly, annual report. They will also create the amound spend on Blood Bank System. Beside that it will calculate the profit of the Blood Bank System. Also They will Handle the connection of Database And Also ntegrate the work in to functional Software

Common Solution by Mahad Ali: -

NEED FOR NEW SYSTEM

- User view all Blood bank information is location wise.
- Donor easily donate the blood near Blood bank Location.
- Patient easily request for blood near Blood bank location
- In this system also supported inquiry form for user.

FUNCTION SPECIFICATION

1.Admin

2.Blood bank

3.Donor

4.Patient

ADMIN:-

- Manage Registration for user
- Manage Blood bank information like (update, delete)
- Manage Donor Request for Donor
- Manage patient Request for needy people
- Manage Inquiry form for Appropriate Reply
- Manage feedback for Appropriate Reply

BLOOD BANK:-

- Blood bank information view/update
- View Donor information
- Manage Patient Blood Request.

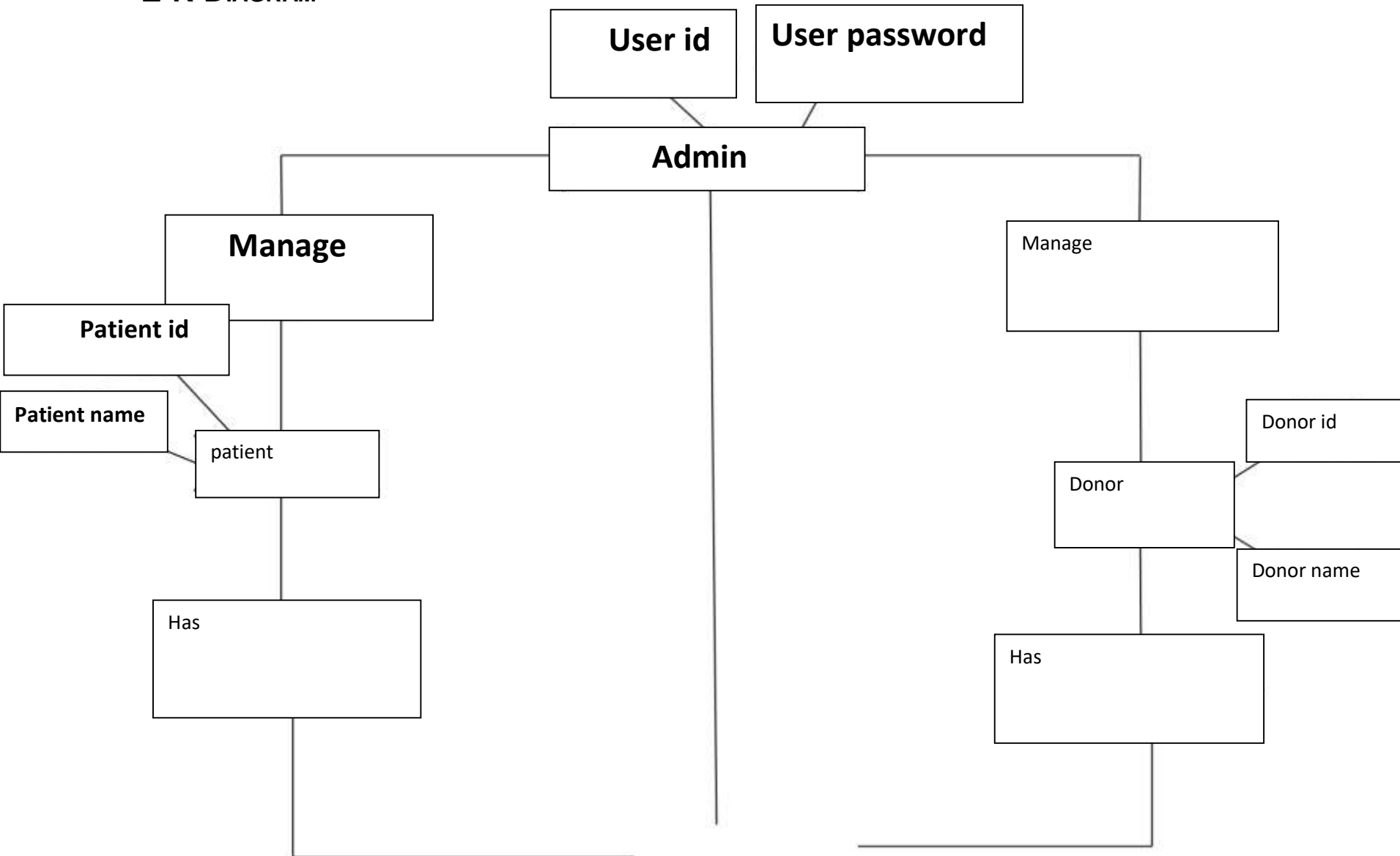
DONOR:-

- Manage Donor information(profile)
- Add new Donation for Blood

PATIENT:-

- Manage patient information(profile)
- Give the Request for patient

E-R DIAGRAM



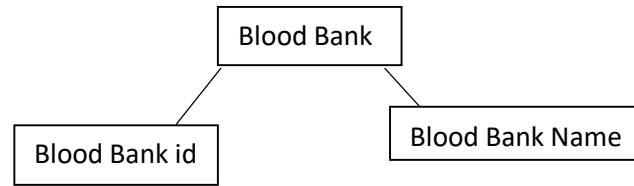


Table Name: Usertype_mst

Primary key:-u_id

Description:- This Table is store the user information

Field Name	Data Type	Size	Constraints	Description
U_id	bigint	4	Primary key	To store the user id
U_type	nvarchar	50	NOT NULL	To store the user type

Table Name: State_mst

Primary key:-state id

Description:- This Table is store the states information

Field Name	Data Type	Size	Constraints	Description
State_id	bigint	4	Primary key	To store the state id
State name	varchar	50	NOT NULL	To store the state name

Table Name: City_mst

Primary key:-city id

Foreign key:-state_id

Description:- This Table is store cities information with states wise

Field Name	Data Type	Size	Constraints	Description
city_id	bigint	4	Primary key	To store the city_id
state_id	bigint	4	Foreign key	References of the state id from state_mst
city_name	varchar	15	NOT NULL	Reference of the city name form city_mst

Table Name: Location_mst

Primary key:-location id

Foreign key:-city_id

Description:- This Table is store location information cities wise

Field Name	Data Type	Size	Constraints	Description
location_id	bigint	4	Primary key	To store the location id
City_id	bigint	4	Foreign key	Reference fo the city id from city_mst
location_name	varchar	50	NOT NULL	To store the location name

Table Name: Registration

Primary key:-R_id

Foreign key:-u_id

Description:- This Table is store user registration information

Field Name	Data Type	Size	Constraint	Description
Reg_id	Numeric	4	Primary key	To store the reg_id
U_id	Numeric	10	Foreign key	References of the User_id from usertype_mst
Name	varchar	50	NOT NULL	To store the name
Cont_no	varchar	10	NOT NULL	To store the cont no
Address	varchar	50	NOT NULL	To store the address
State	varchar	15	NOT NULL	To store the state

City	varchar	15	NOT NULL	To store the city
Location	varchar	15	NOT NULL	To store the location
Pin-code	varchar	10	NOT NULL	To store the pin code
Email	varchar	30	NOT NULL	To store the email

Co t.....

Cont.....

Birth date	datetime		NOT NULL	To store the birthdate
Gender	varchar	6	NOT NULL	To store the gender
User_name	varchar	20	Unique key	To store the user name
Password	varchar	20	NOT NULL	To store the password
Security_que	varchar	30	NOT NULL	To store the security que
Answer	varchar	15	NOT NULL	To store the answer
Flag	Bit	1	NOT NULL	To store the flag

--	--	--	--	--	--

Table Name: Bloodbank_mst

Primary key:-b_id

Foreign key:-Reg_id,loc_id,city_id

Description:- This Table is store blood bank information location and cities wise

Field Name	Data Type	Size	Constraint	Description
b_id	bigint	4	Primary Key	To store the blood bank _id
reg_id	bigint	4	Foreign key	References of the regstration_id from registration
Bb_name	varchar	10	NOT NULL	To store the blood bank name
Loc_id	bigint	4	Foreign key	References the location id from

				location_mst
City id	bigint	4	Foreign key	References of the city id from city_mst
Contact no	Numeric	12	NOT NULL	To store the contact no
Status	bit	1	NOT NULL	To store the status
ddate	datetime		NOT NULL	To store the donated date

Table Name: Donation_mst

Primary key:-d_id

Foreign key:-Reg_id,bb_id

Description:- This Table is store donor information for blood bank wise

Field Name	Data Type	Size	Constraint	Description
D_id	bigint	4	Primary Key	To store the donation id
Reg_id	bigint	4	Foreign key	References of the registration id from registration
Name	varchar	10	NOT NULL	To store the name

b_id	bigint	4	Foreign key	References of the blood bank id from bloodbank_mst
bgroup	varchar	10	NOT NULL	To store the blood group
Qty	varchar	20	NOT NULL	To store the qty
ddate	datetime		NOT NULL	To store donated date

Table Name: Blood Request

Primary key:-br_id

Foreign key:-user_id,loc_id,city_id,b_id

Description:- This Table is use to store blood request information

Field Name	Data Type	Size	Constraint	Description
br_id	bigint	4	Primary Key	To store the blood bank_id
Reg_id	Bigint	4	Foreign Key	To store regraction id for Patient
B_id	Bigint	4	Foreign key	To fetch blood bank id
Loc_id	bigint	4	Foreign key	References the location id from location_mst
City id	bigint	4	Foreign key	References of the city id from city_mst

Contact no	Numeric	12	NOT NULL	To store the contact no
bgroup	varchar	10	NOT NULL	To store the blood group
qty	varchar	10	NOT NULL	To store the qty
Status	bit	1	NOT NULL	To store the blood request status for patient
D_date	datetime		NOT NULL	To store the donate date

Table Name: inquiry_Form

Primary key:- inq_id

Description:- This Table to store inquiry information submitted for user and visitor

Field Name	Data Type	Size	Constraint	Description
Inq_Id	bigint	4	Primary key	To store the id
Name	varchar	20	NOT NULL	To store the name
Inquiry	varchar	Max	NOT NULL	To store the inquiry
Address	varchar	50	NOT NULL	To store the address

Phone no	varchar	20	NOT NULL	To store the phone no
Email	varchar	30	NOT NULL	To store the email
Date	Datetime		NOT NULL	To store the date
Flage	bit	1	NOT NULL	To store the flage

Table Name: Feedback

Primary key:- fid

Description:- This Table to store feedback information

Field Name	Data Type	Size	Constraints	Description
fid	bigint	4	Primary key	To store the id
Name	varchar	50	NOT NULL	To store the name
Email	varchar	50	NOT NULL	To store the email
Feed back	varchar	max	NOT NULL	To store the feed back



Prototype

Home Page:

Description: This page for show home page information



About Us Page:

Description: This page for show about us information page






Registration Page:

Description: This page for user registration page

Untitled Page

localhost:52170/SignUp.aspx

Avira SafeSearch



Registration For ☐ Bloodbank ☐ Donor ☒ Patient

Name

Contact No.

Street Address

State

City

Location

Email ID

Birth Date

Gender ☒ Female ☐ Male




User Name

Password

Confirm Password

Security Question

Answer






Registration validation page:

Description: This page for registration validation

Untitled Page

localhost:52170/SignUp.aspx

Avira SafeSearch



Registration

Registration For ☒ Bloodbank ☐ Donor ☐ Patient

Name Please enter your name!

Contact No. Please enter your Contact number!

Street Address Please enter your address!

State

City Please select City!

Location Please select your Location!

Email ID Please enter your Email ID!

Birth Date Please enter your Birth date!




Gender ☒ Female ☐ Male

User Name Please enter User name!

Password Please enter Password!

Confirm Password

Security Question



Inquiry Page:

Description: This page for store inquiry information

Untitled Page x +

localhost:52170/InquiryForm.aspx Avira SafeSearch



RED CROSS BLOOD BANK

blood on demand

[Home](#) [SignUp](#) [SignIn](#) [About Us](#) [Contact Us](#) [Inquiry](#) [Feedback](#)



Inquiry Form

Name

Email

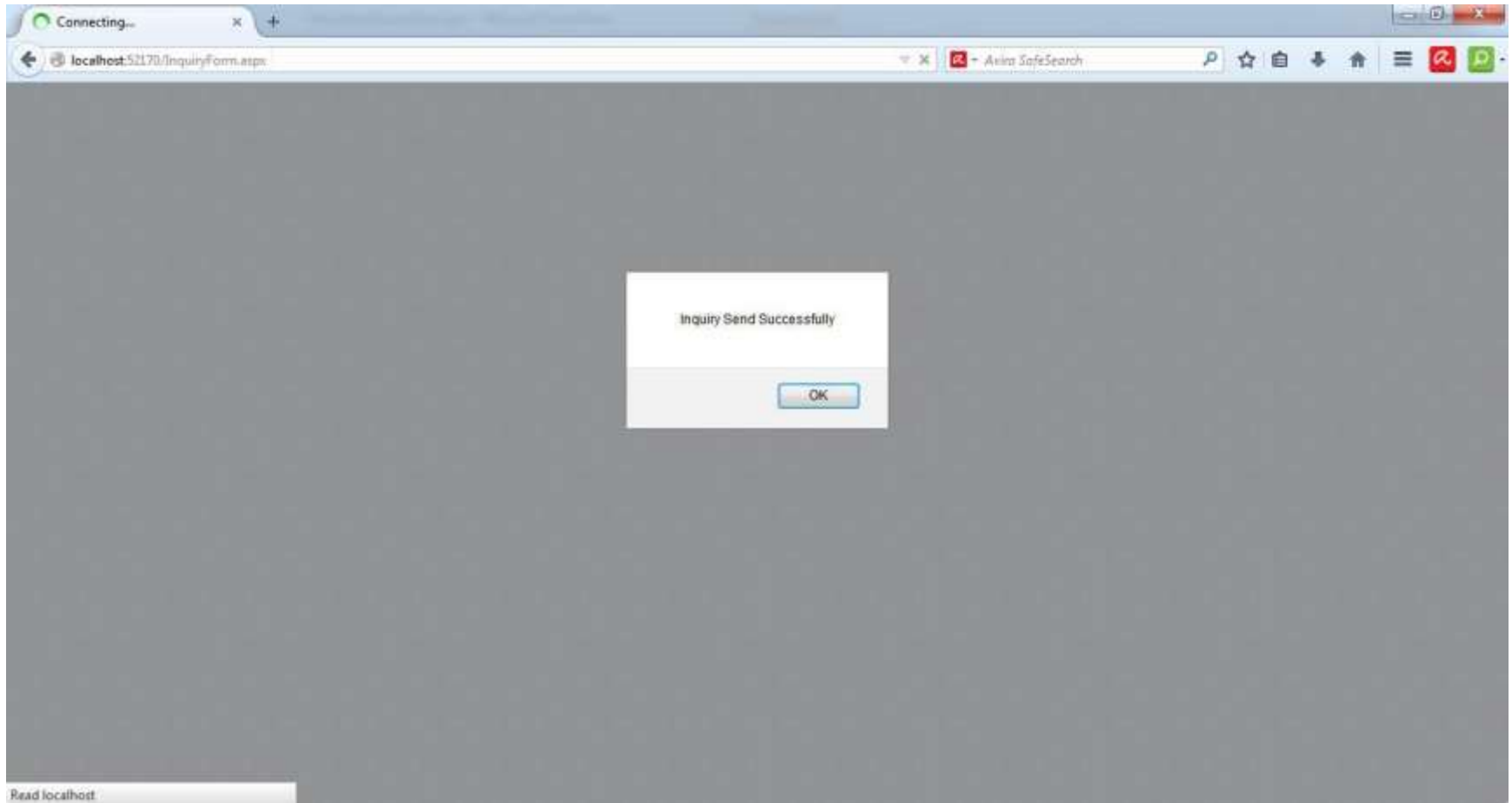
Contact No

Message



Message Confirmation page:

Description: This page for submit information message for inquire



Feedback Page:

Description: This page for feedback page show validation

Untitled Page

localhost:52170/Feedback.aspx

Avira SafeSearch

RED CROSS BLOOD BANK

blood on demand

Home SignUp SignIn About Us Contact Us Inquiry Feedback



Feedback Form

Name

Email

Feedback

- Pls Enter Name
- Pls Enter Email ID
- Pls Enter Feedback



Description: This page submit feedback information

Untitled Page x +

localhost:52170/Feedback.aspx Avira SafeSearch

RED CROSS BLOOD BANK

blood on demand

Home SignUp SignIn About Us Contact Us Inquiry Feedback

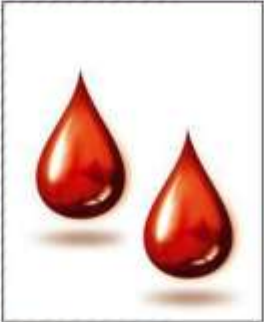


Feedback Form

Name:

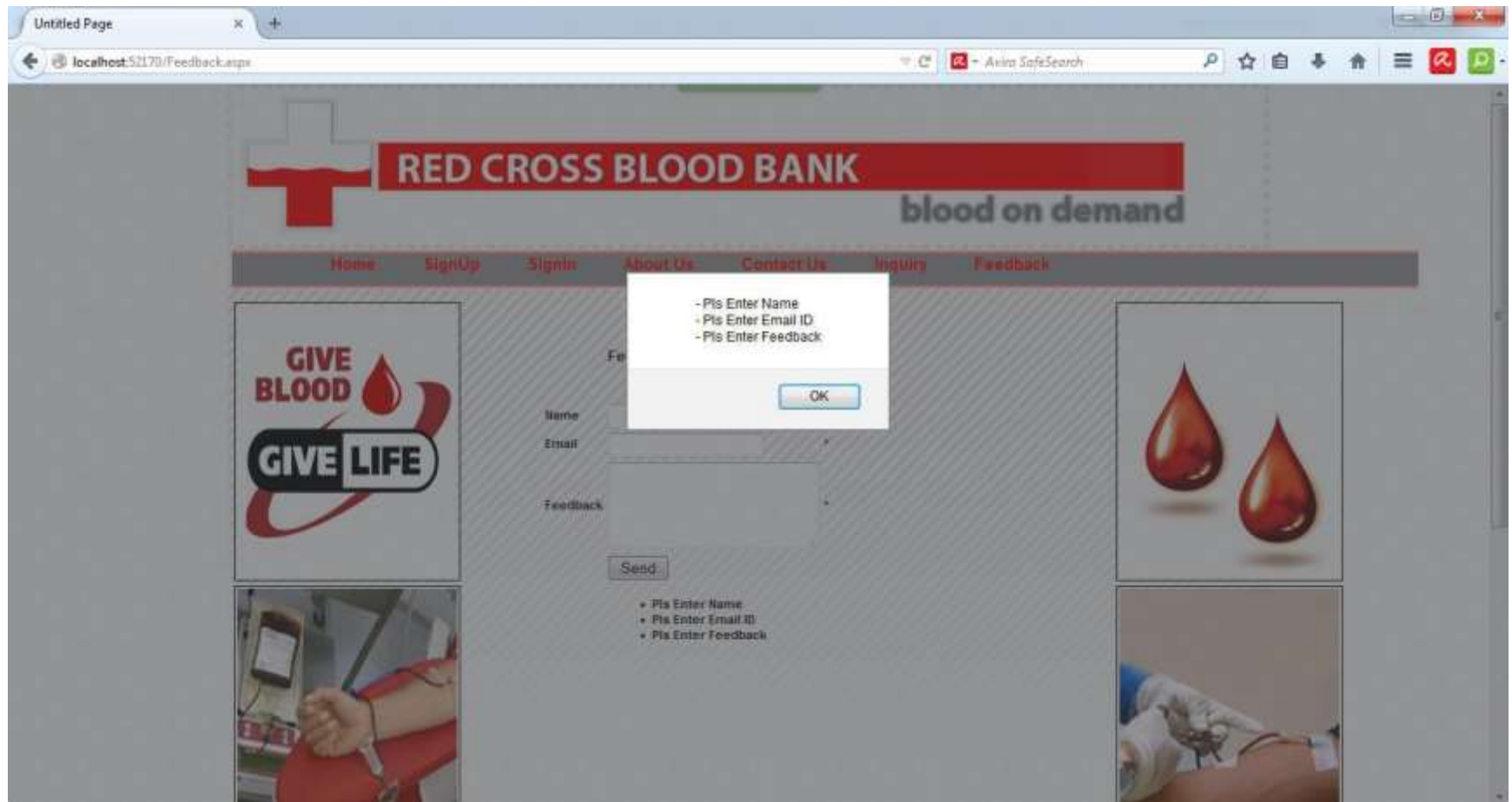
Email:

Feedback:



Validation Page:

Description: Validation for feedback form

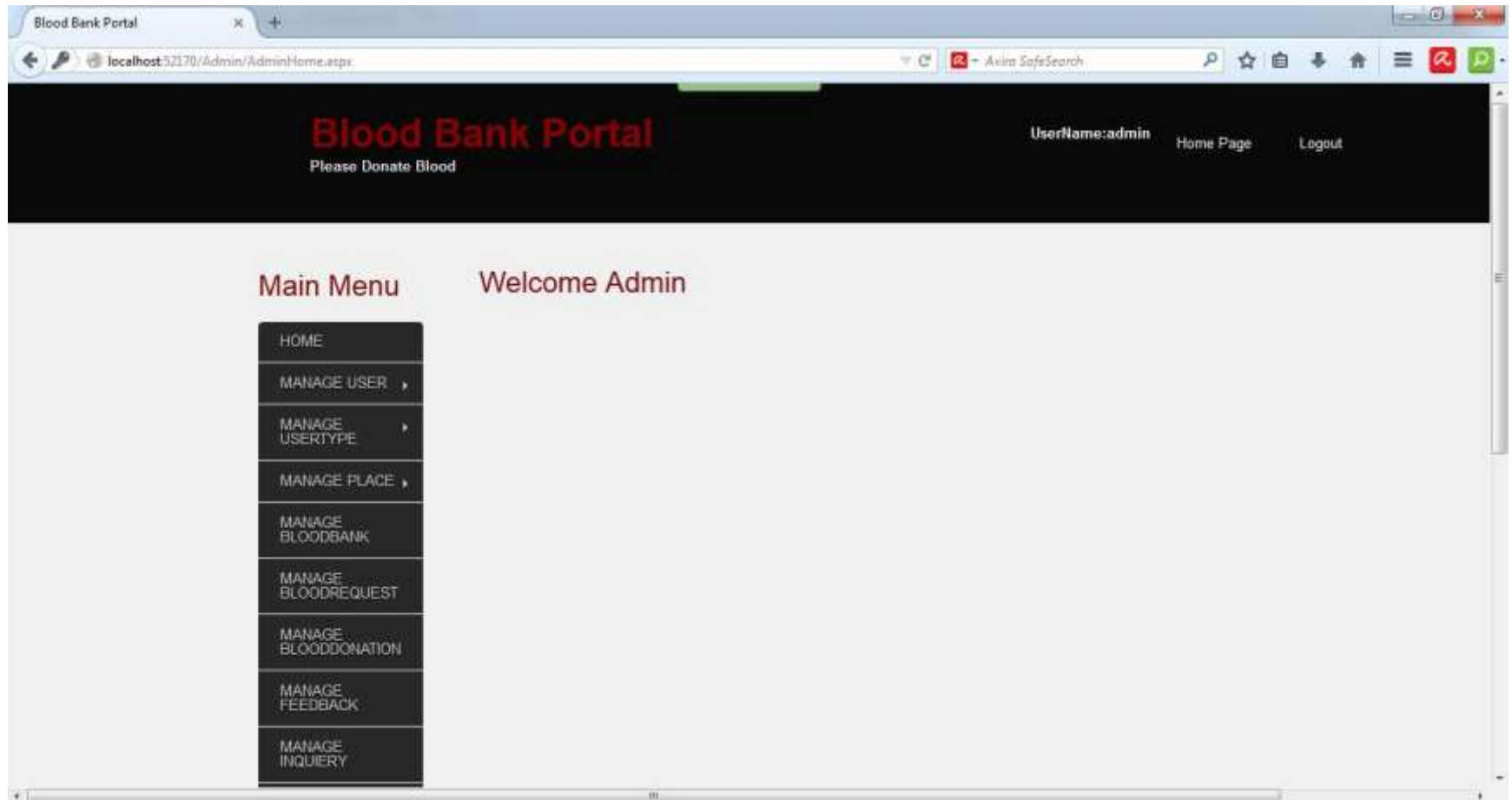


Admin Side Page:

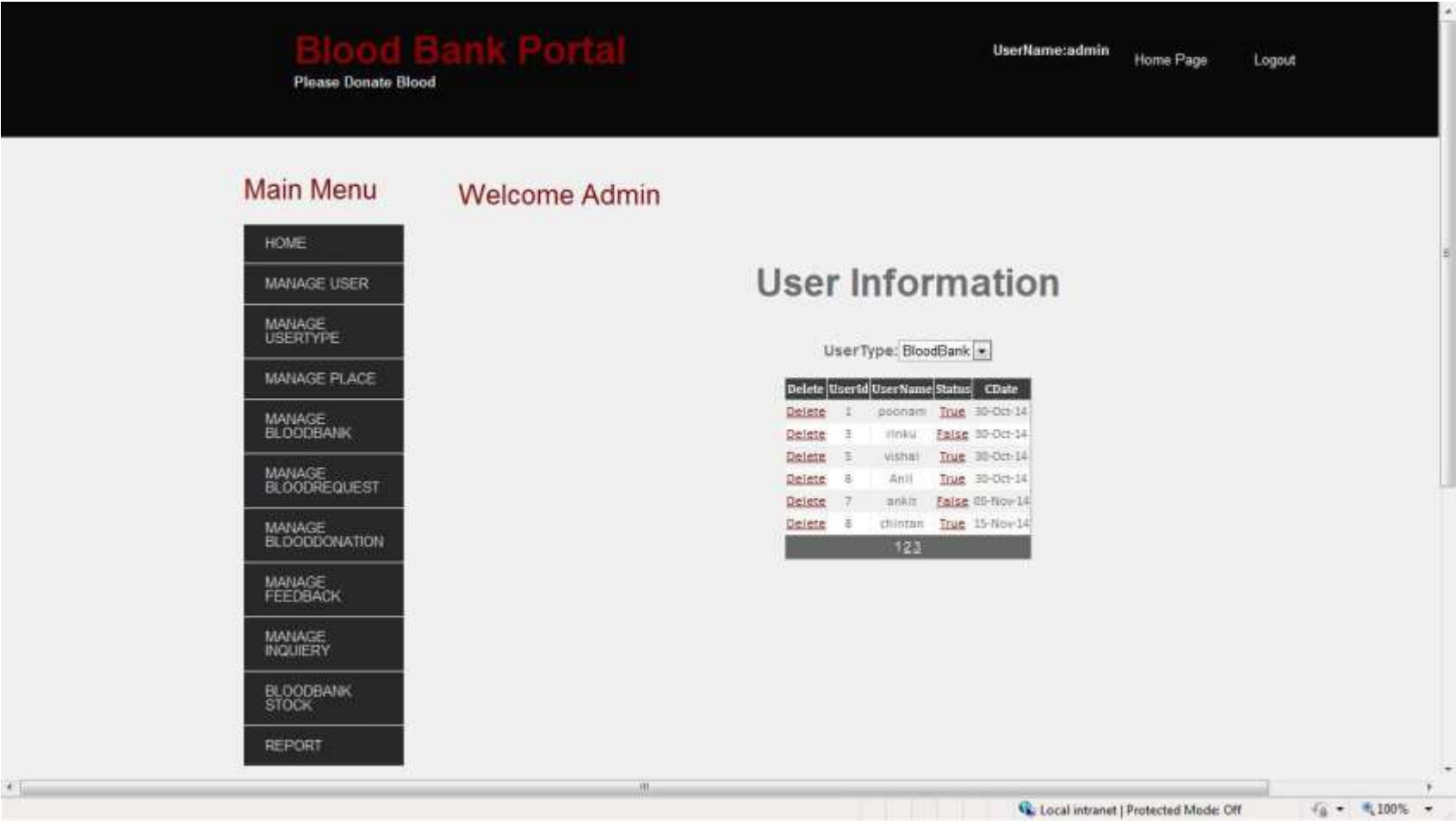
Description: This page for admin login



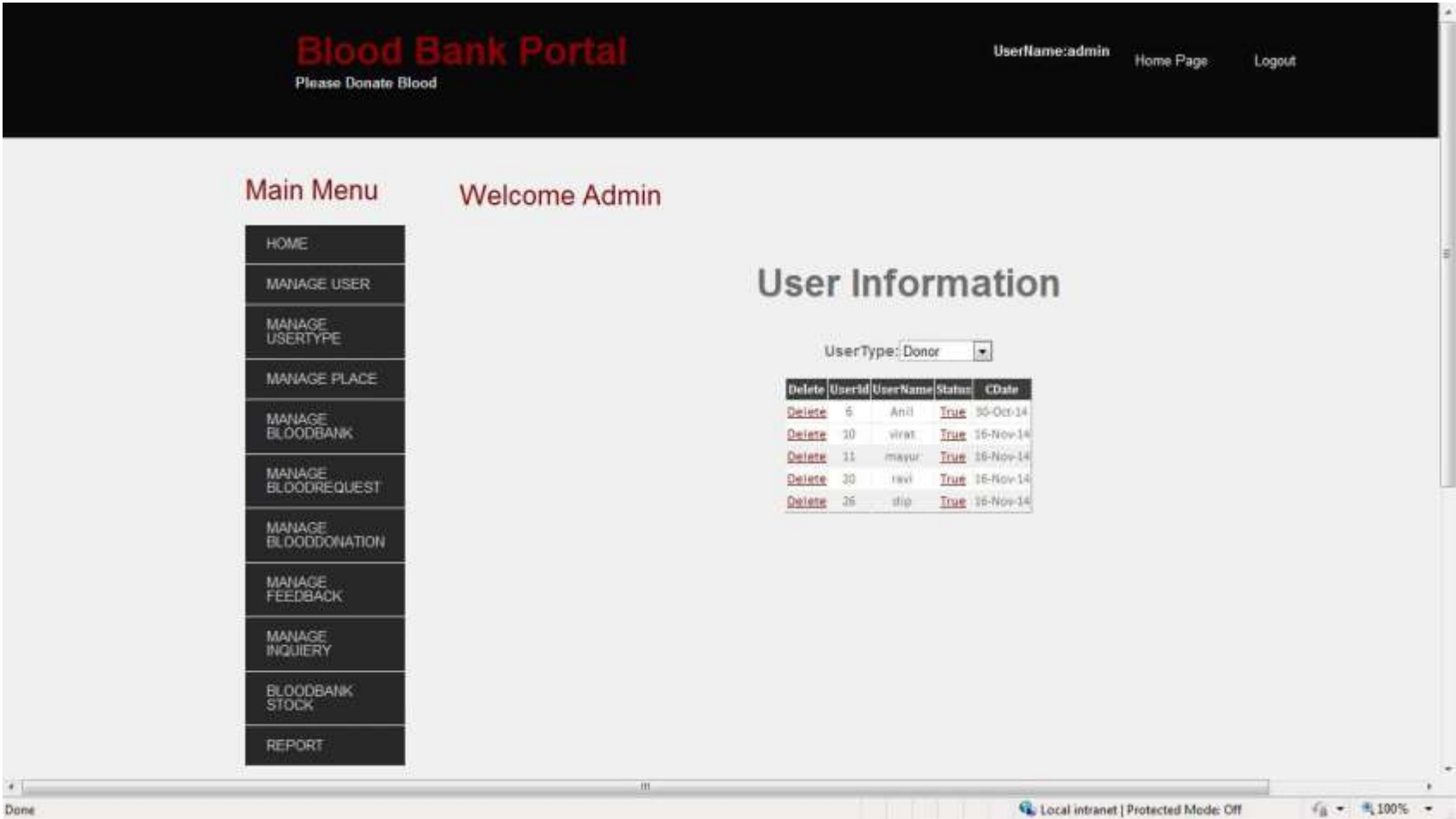
Description: This page use for admin home



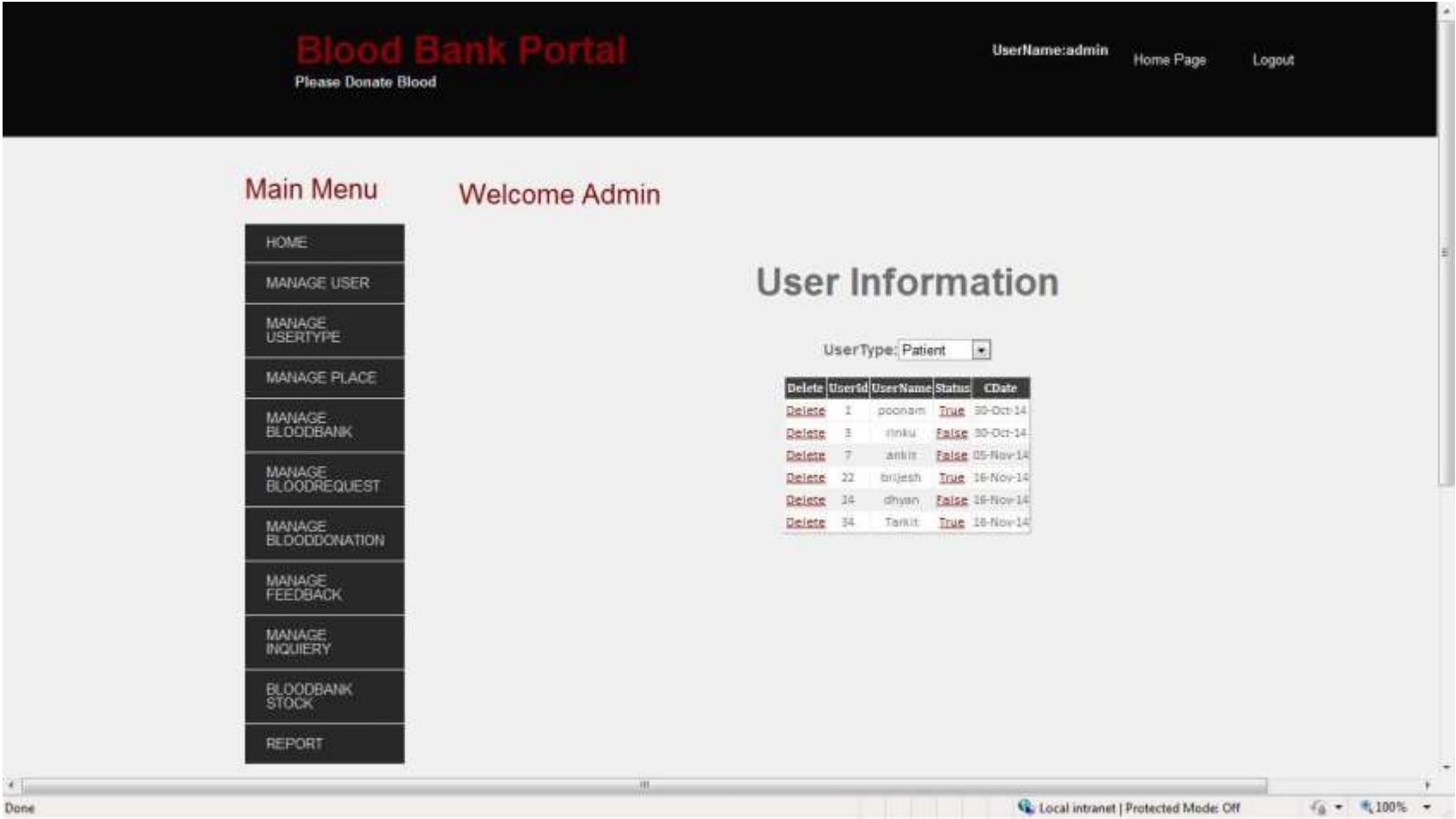
Description: This page show user type wise information



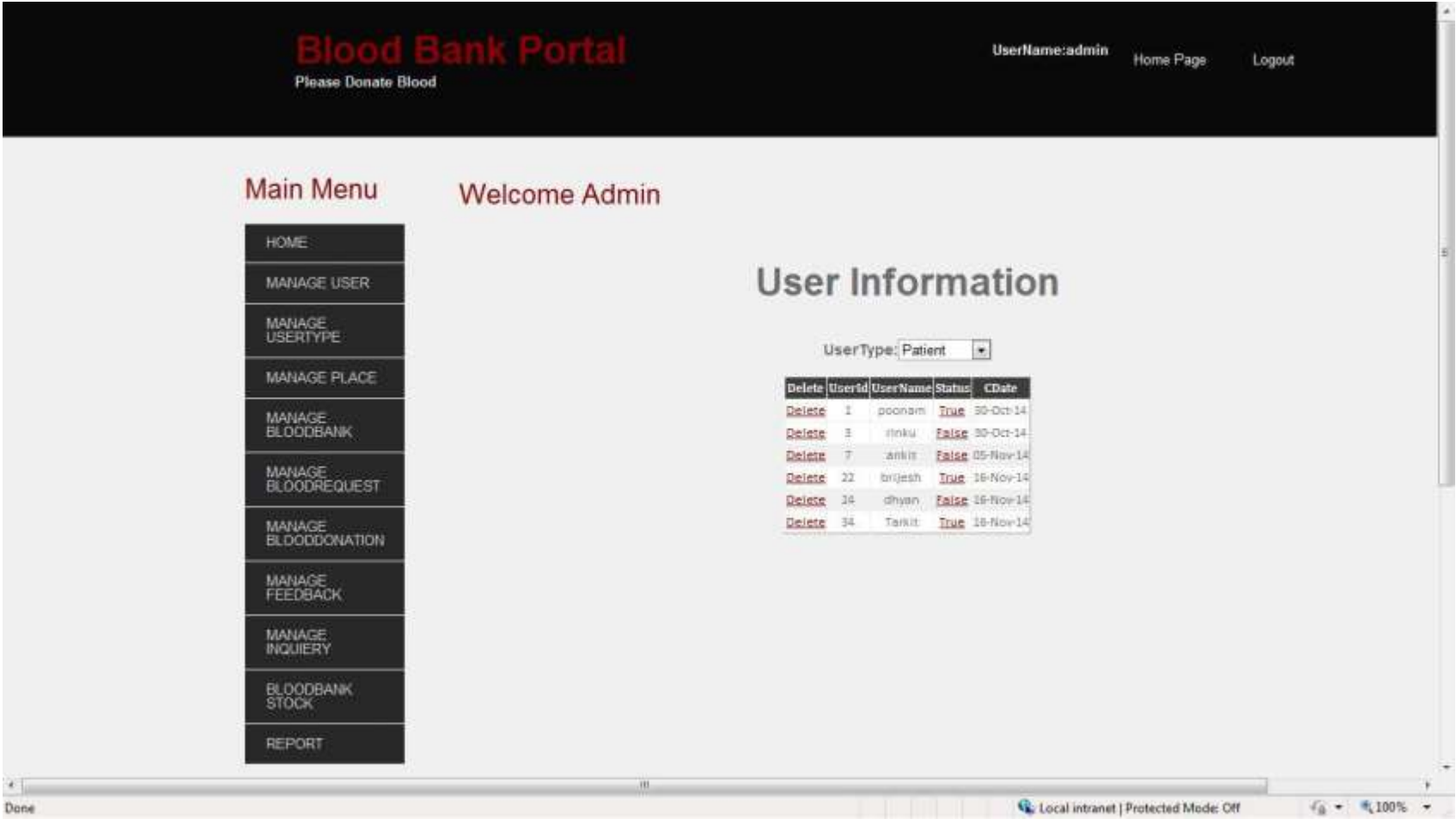
Description: This page show Donor user type wise information



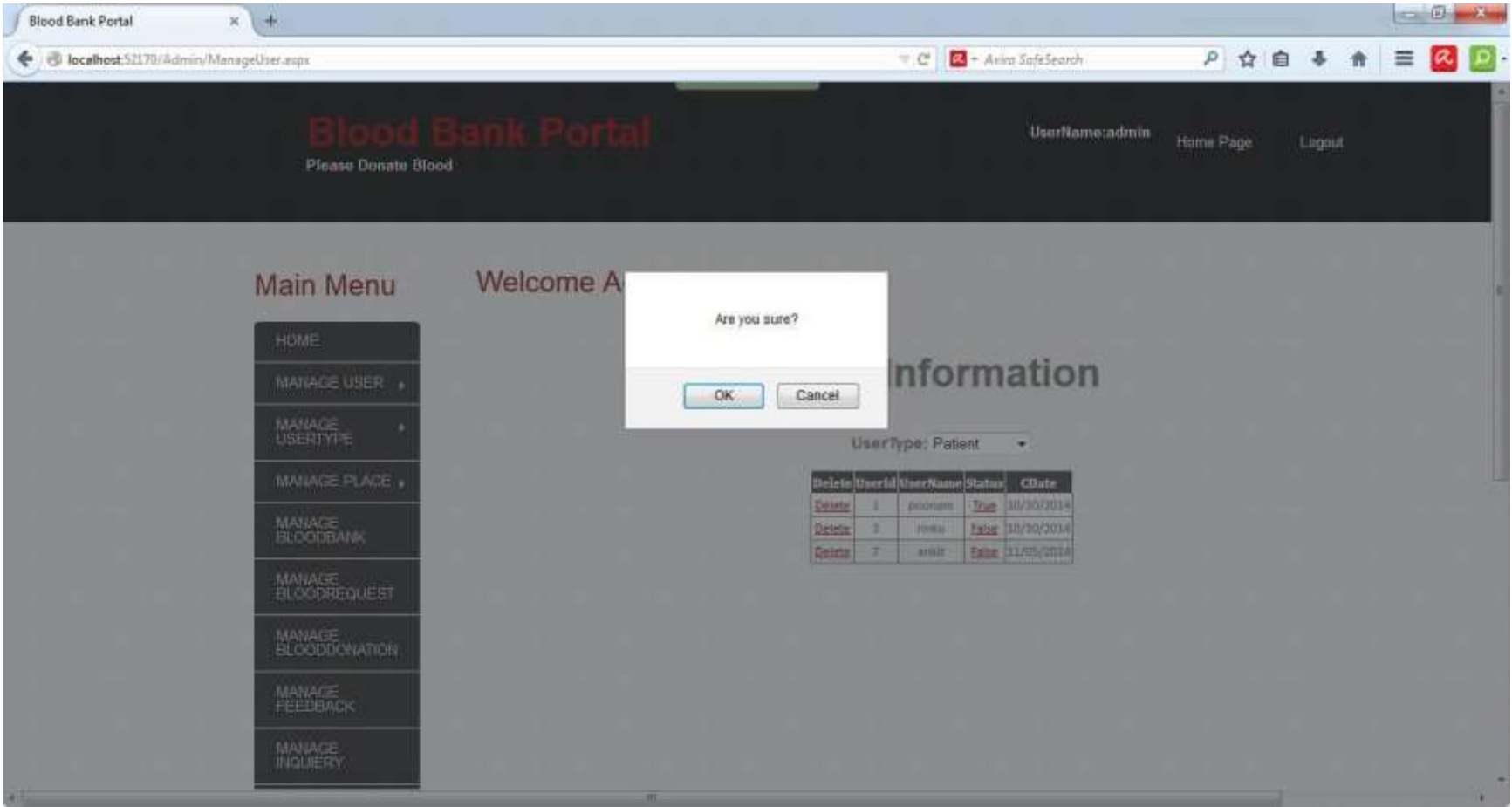
Description: This page show patient user type wise information



Description: This page show blood bank user type wise information

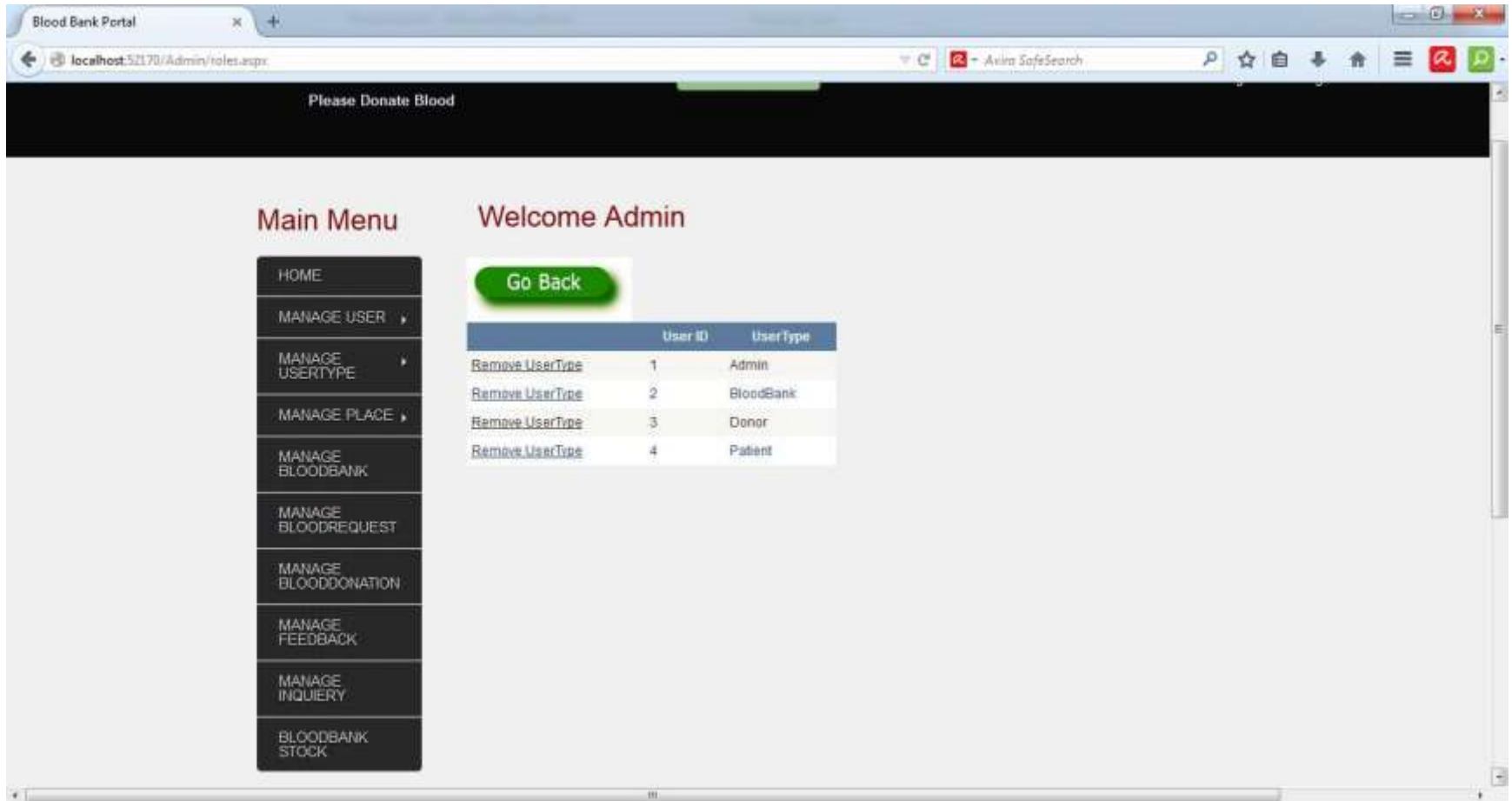


Description: This page show message delete confirmation page for patient

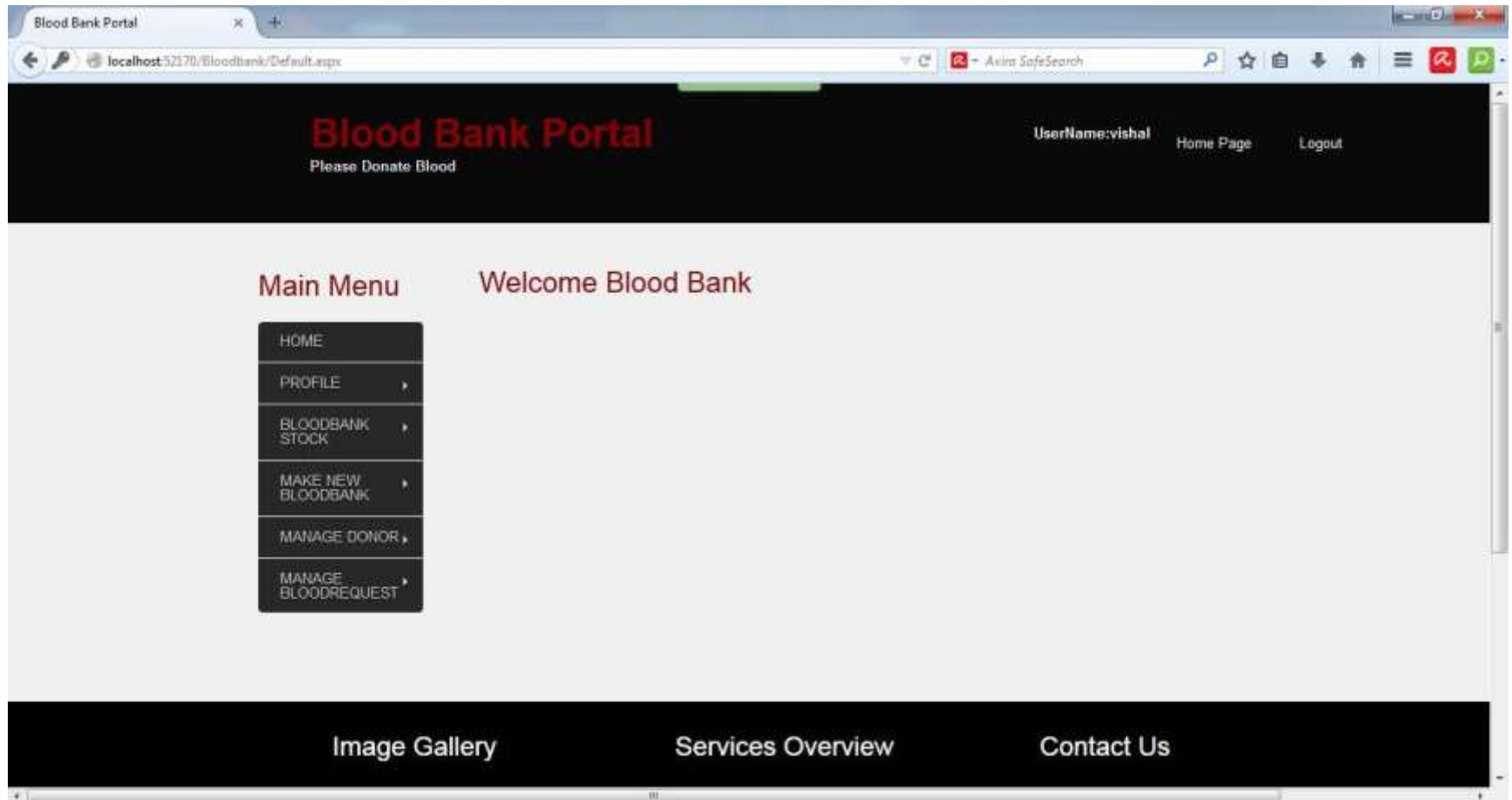


Place Side Page:

Description: This page show place information(state, city, locatio



Description: This page show blood bank home information



Individual Solution:-

2.Sharjeel Khan

TABLE:

create table Donor_Data

(
Donor_Name **varchar**(20) NOT NULL,
Donor_Id **varchar**(50) NOT NULL **Primary Key** ,
Donor_Blood_Group **varchar**(50) NOT NULL,
Donor_Medical_report **varchar**(50) NOT NULL,
Donor_Address **varchar**(20) NOT NULL,
Donor_contact **varchar**(20) NOT NULL

);

create table Patient_Data

(
Patient_Name **varchar**(20) NOT NULL,
Patient_Id **varchar**(100) NOT NULL **Primary Key** ,
Patient_Blood_Group **varchar**(50) NOT NULL,
Patient_Disease **varchar**(50) NOT NULL

);

```
create table Blood_Bank_Data  
(  
Serial_No varchar(20) NOT NULL,  
Blood_Bank_Name varchar(100) NOT NULL,  
Blood_Bank_Address varchar(50) NOT NULL,  
Blood_Bank_Contact_Number varchar(50) NOT NULL,  
Donor_Id varchar(50) NOT NULL References Donor_Data(Donor_Id)
```

);

DATA:

```
INSERT into Donor_Data  
(  
Donor_Name,Donor_Id,Donor_Blood_Group,Donor_Medical_report,Donor_Address,Donor_contact
```



```
)  
VALUES  
(N'Hamza', N'1001', N'A+', N'Positive',N'Lahore,Pakistan',N'0333-4049000'),  
(N'Ahmed', N'1002', N'B+', N'Positive',N'Abbottabad,Pakistan',N'0333-4047001'),  
(N'Zain', N'1003', N'O-', N'Positive',N'Islamabad,Pakistan',N'0333-4029004'),  
(N'inam', N'1004', N'A+', N'Negitive',N'HariPur,Pakistan',N'0333-4049040')
```

```
INSERT into patient_data
```

```
(Patient_Name  
  ,Patient_Id  
  ,Patient_Blood_Group  
  ,Patient_Disease  
)
```

```
VALUES
```

```
Patient_Name    Patient_Id  Patient_Blood_Group  Patient_Disease  
(N'asif',      N'B201',   N'B+',             N'Brain tummer'),  
(N'Amir',      N'B202',   N'A+',             N'Cancer'),
```

```
(N'Umer', N'B203', N'O-', N'Blood Cancer')  
(N'Nimra', N'B204', N'B-', N'Heart Disease');
```

```
INSERT into Blood_Bank_Data  
(  
Serial_No,  
Blood_Bank_Name,  
Blood_Bank_Address,  
Blood_Bank_Contact_Number,  
Donor_Id  
)
```

VALUES

```
(N'S_01', N'Ammar Blood Bank', N'Abbottabad,Pakistan', N'0992-0023450',N'1002'),  
(N'S_02', N'Al-shifa Blood Bank',N'Haripur,pakistan', N'0992-900983',N'1004'),  
(N'S_03', N'Hamza Blood Bank', N'islamabad,Pakistan', N'0992-452345',N'1003'),  
(N'S_04', N'Hassan Blood Bank', N'Lahore,Pakistan', N'0992-986019',N'1001');
```

Output:

Donor_Data:

Donor_Name	Donor_Id	Donor_Blood_Group	Donor_Medical_report	Donor_Address	Donor_contact
Hamza	1001	A+	Positive	Lahore, Pakistan	0333-4049000
Ahmed	1002	B+	Positive	Abbottabad, Pakistan	0333-4047001
Zain	1003	O-	Positive	Islamabad, Pakistan	0333-4029004
inam	1004	A+	Negative	Haripur, Pakistan	0333-4049040

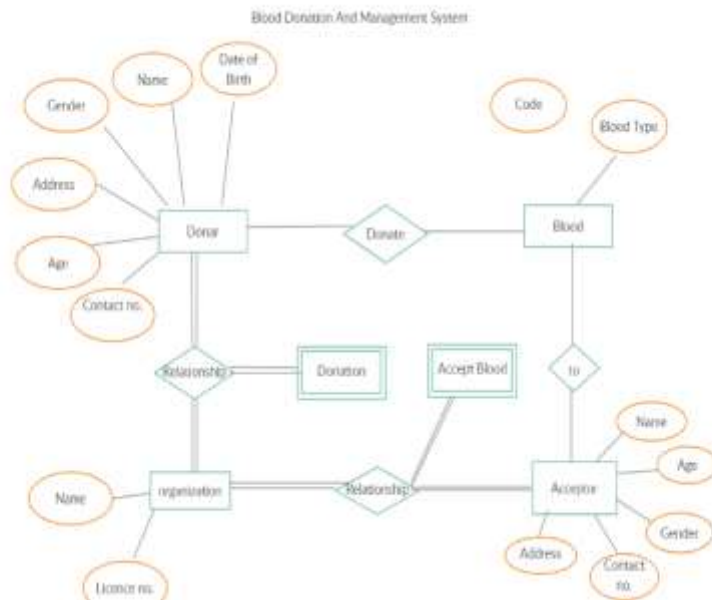
Datient_Data:

Patient_Name	Patient_Id	Patient_Blood_Group	Patient_Disease
asif	B201	B+	Brain tummer
Amir	B202	A+	Cancer
Umer	B203	O-	Blood Cancer
Nimra	B204	B-	Heart Disease

Blood_Bank_Data:

<u>Serial_No</u>	<u>Blood_Bank_Name</u>	<u>Blood_Bank_Address</u>	<u>Blood_Bank_Contact_Number</u>	<u>Donor_Id</u>
S_01	AMMAR Blood Bank	lahore	0992-093945	1001
S_02	Tariq Blood Bank	Abbottabad	0992-91233	1002
S_03	Rauf Blood Bank	Haripur	0992-123123	1004
S_04	Shifa Blood Bank	Islamabad	0992-123432	1003

ER AND EER DIAGRAM OF WHOLE SEMESTER PROJECT:



Hanzala Shahid: -

TABLE:

`create table Donor_Data`

```
(  
Donor_Name varchar(20) NOT NULL,  
Donor_Id varchar(50) NOT NULL Primary Key ,  
Donor_Blood_Group varchar(50) NOT NULL,  
Donor_Medical_report varchar(50) NOT NULL,  
Donor_Address varchar(20) NOT NULL,  
Donor_contact varchar(20) NOT NULL
```

```
);
```

```
create table Patient_Data
```

```
(  
Patient_Name varchar(20) NOT NULL,  
Patient_Id varchar(100) NOT NULL Primary Key ,  
Patient_Blood_Group varchar(50) NOT NULL,  
Patient_Disease varchar(50) NOT NULL
```

```
);
```

```
create table Blood_Bank_Data
```

```
(  
Serial_No varchar(20) NOT NULL,  
Blood_Bank_Name varchar(100) NOT NULL,  
Blood_Bank_Address varchar(50) NOT NULL,  
Blood_Bank_Contact_Number varchar(50) NOT NULL,  
Donor_Id varchar(50) NOT NULL References Donor_Data(Donor_Id)
```

);

DATA:

INSERT into Donor_Data

(
Donor_Name,Donor_Id,Donor_Blood_Group,Donor_Medical_report,Donor_Address,Donor_contact
)

VALUES

(N'Hamza', N'1001', N'A+', N'Positive',N'Lahore,Pakistan',N'0333-4049000'),

(N'Ahmed', N'1002', N'B+', N'Positive',N'Abbottabad,Pakistan',N'0333-4047001'),

(N'Zain', N'1003', N'O-', N'Positive',N'Islamabad,Pakistan',N'0333-4029004'),

(N'inam', N'1004', N'A+', N'Negative',N'HariPur,Pakistan',N'0333-4049040')

```
INSERT into patient_data
```

```
(Patient_Name  
  ,Patient_Id  
  ,Patient_Blood_Group  
  ,Patient_Disease  
)
```

```
VALUES
```

```
Patient_Name    Patient_Id  Patient_Blood_Group  Patient_Disease  
(N'asif',      N'B201',   N'B+',              N'Brain tummer'),  
(N'Amir',      N'B202',   N'A+',              N'Cancer'),  
(N'Umer',      N'B203',   N'O-',              N'Blood Cancer')  
(N'Nimra',     N'B204',   N'B-',              N'Heart Disease');
```

```
INSERT into Blood_Bank_Data
```

```
(  
Serial_No,  
Blood_Bank_Name,  
Blood_Bank_Address,
```



```
Blood_Bank_Contact_Number,  
Donor_Id  
)
```

VALUES

```
(N'S_01', N'Ammar Blood Bank', N'Abbottabad,Pakistan', N'0992-0023450',N'1002'),  
(N'S_02', N'Al-shifa Blood Bank',N'Haripur,pakistan', N'0992-900983',N'1004'),  
(N'S_03', N'Hamza Blood Bank', N'islamabad,Pakistan', N'0992-452345',N'1003'),  
(N'S_04', N'Hassan Blood Bank', N'Lahore,Pakistan', N'0992-986019',N'1001');
```

Output:

Donor_Data:

Donor_Name	Donor_Id	Donor_Blood_Group	Donor_Medical_report	Donor_Address	Donor_contact
Hamza	1001	A+	Positive	Lahore, Pakistan	0333-4049000
Ahmed	1002	B+	Positive	Abbottabad, Pakistan	0333-4047001
Zain	1003	O-	Positive	Islamabad, Pakistan	0333-4029004
inam	1004	A+	Negative	Haripur, Pakistan	0333-4049040

Datient_Data:

Patient_Name	Patient_Id	Patient_Blood_Group	Patient_Disease
asif	B201	B+	Brain tummer
Amir	B202	A+	Cancer
Umer	B203	O-	Blood Cancer
Nimra	B204	B-	Heart Disease

Blood_Bank_Data:

Serial_No	Blood_Bank_Name	Blood_Bank_Address	Blood_Bank_Contact_Number	Donor_Id
S_01	AMMAR Blood Bank	lahore	0992-093945	1001
S_02	Tariq Blood Bank	Abbottabad	0992-91233	1002
S_03	Rauf Blood Bank	Haripur	0992-123123	1004
S_04	Shifa Blood Bank	Islamabad	0992-123432	1003

ER AND EER DIAGRAM OF WHOLE SEMESTER PROJECT:



Hamza-Bin-Ahmad: -

TABLE:

```
create table Donor_Data
(
Donor_Name varchar(20) NOT NULL,
Donor_Id varchar(50) NOT NULL Primary Key ,
Donor_Blood_Group varchar(50) NOT NULL,
Donor_Medical_report varchar(50) NOT NULL,
Donor_Address varchar(20) NOT NULL,
Donor_contact varchar(20) NOT NULL

);
```

```
create table Patient_Data
(
Patient_Name varchar(20) NOT NULL,
Patient_Id varchar(100) NOT NULL Primary Key ,
Patient_Blood_Group varchar(50) NOT NULL,
Patient_Disease varchar(50) NOT NULL

);
```

```
create table Blood_Bank_Data
(
Serial_No varchar(20) NOT NULL,
Blood_Bank_Name varchar(100) NOT NULL,
Blood_Bank_Address varchar(50) NOT NULL,
Blood_Bank_Contact_Number varchar(50) NOT NULL,
```

Donor_Id **varchar**(50) NOT NULL **References** Donor_Data(Donor_Id)

);

DATA:

INSERT into Donor_Data

(
Donor_Name,Donor_Id,Donor_Blood_Group,Donor_Medical_report,Donor_Address,Donor_contact
)

VALUES

(N'Hamza', N'1001', N'A+', N'Positive',N'Lahore,Pakistan',N'0333-4049000'),

(N'Ahmed', N'1002', N'B+', N'Positive',N'Abbottabad,Pakistan',N'0333-4047001'),

(N'Zain', N'1003', N'O-', N'Positive',N'Islamabad,Pakistan',N'0333-4029004'),

(N'inam', N'1004', N'A+', N'Negitive',N'HariPur,Pakistan',N'0333-4049040')

```
INSERT into patient_data
```

```
(Patient_Name  
  ,Patient_Id  
  ,Patient_Blood_Group  
  ,Patient_Disease  
)
```

```
VALUES
```

```
Patient_Name    Patient_Id  Patient_Blood_Group  Patient_Disease  
(N'asif',      N'B201',   N'B+',             N'Brain tummer'),  
(N'Amir',      N'B202',   N'A+',             N'Cancer'),  
(N'Umer',      N'B203',   N'O-',             N'Blood Cancer')  
(N'Nimra',     N'B204',   N'B-',             N'Heart Disease');
```

```
INSERT into Blood_Bank_Data
```

```
(  
Serial_No,  
Blood_Bank_Name,
```

```
Blood_Bank_Address,  
Blood_Bank_Contact_Number,  
Donor_Id  
)
```

VALUES

```
(N'S_01', N'Ammar Blood Bank', N'Abbottabad,Pakistan', N'0992-0023450',N'1002'),  
(N'S_02', N'Al-shifa Blood Bank',N'Haripur,pakistan', N'0992-900983',N'1004'),  
(N'S_03', N'Hamza Blood Bank', N'islamabad,Pakistan', N'0992-452345',N'1003'),  
(N'S_04', N'Hassan Blood Bank', N'Lahore,Pakistan', N'0992-986019',N'1001');
```

Output:

Donor_Data:

Donor_Name	Donor_Id	Donor_Blood_Group	Donor_Medical_report	Donor_Address	Donor_contact
Hamza	1001	A+	Positive	Lahore, Pakistan	0333-4049000
Ahmed	1002	B+	Positive	Abbottabad, Pakistan	0333-4047001
Zain	1003	O-	Positive	Islamabad, Pakistan	0333-4029004
inam	1004	A+	Negative	Haripur, Pakistan	0333-4049040

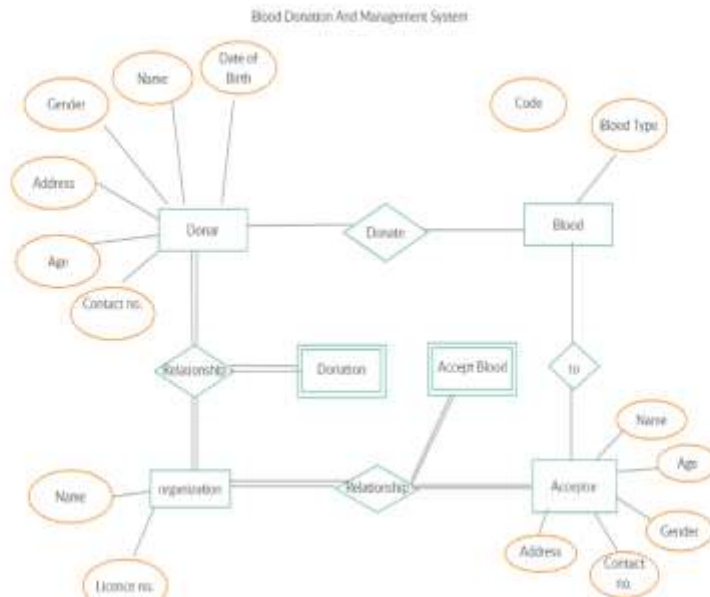
Datient_Data:

Patient_Name	Patient_Id	Patient_Blood_Group	Patient_Disease
asif	B201	B+	Brain tummer
Amir	B202	A+	Cancer
Umer	B203	O-	Blood Cancer
Nimra	B204	B-	Heart Disease

Blood_Bank_Data:

Serial_No	Blood_Bank_Name	Blood_Bank_Address	Blood_Bank_Contact_Number	Donor_Id
S_01	AMMAR Blood Bank	lahore	0992-093945	1001
S_02	Tariq Blood Bank	Abbottabad	0992-91233	1002
S_03	Rauf Blood Bank	Haripur	0992-123123	1004
S_04	Shifa Blood Bank	Islamabad	0992-123432	1003

ER AND EER DIAGRAM OF WHOLE SEMESTER PROJECT:



Abdullah Noor:-

TABLE:

```
create table Donor_Data
(
Donor_Name varchar(20) NOT NULL,
Donor_Id varchar(50) NOT NULL Primary Key ,
Donor_Blood_Group varchar(50) NOT NULL,
Donor_Medical_report varchar(50) NOT NULL,
Donor_Address varchar(20) NOT NULL,
Donor_contact varchar(20) NOT NULL

);
```

```
create table Patient_Data
(
Patient_Name varchar(20) NOT NULL,
Patient_Id varchar(100) NOT NULL Primary Key ,
Patient_Blood_Group varchar(50) NOT NULL,
Patient_Disease varchar(50) NOT NULL

);
```

```
create table Blood_Bank_Data
(
Serial_No varchar(20) NOT NULL,
Blood_Bank_Name varchar(100) NOT NULL,
Blood_Bank_Address varchar(50) NOT NULL,
Blood_Bank_Contact_Number varchar(50) NOT NULL,
```

Donor_Id **varchar**(50) NOT NULL **References** Donor_Data(Donor_Id)

);

DATA:

INSERT into Donor_Data

(
Donor_Name,Donor_Id,Donor_Blood_Group,Donor_Medical_report,Donor_Address,Donor_contact
)

VALUES

(N'Hamza', N'1001', N'A+', N'Positive',N'Lahore,Pakistan',N'0333-4049000'),

(N'Ahmed', N'1002', N'B+', N'Positive',N'Abbottabad,Pakistan',N'0333-4047001'),

(N'Zain', N'1003', N'O-', N'Positive',N'Islamabad,Pakistan',N'0333-4029004'),

(N'inam', N'1004', N'A+', N'Negative',N'HariPur,Pakistan',N'0333-4049040')

```
INSERT into patient_data
```

```
(Patient_Name  
  ,Patient_Id  
  ,Patient_Blood_Group  
  ,Patient_Disease  
)
```

```
VALUES
```

```
Patient_Name    Patient_Id  Patient_Blood_Group  Patient_Disease  
(N'asif',      N'B201',   N'B+',             N'Brain tummer'),  
(N'Amir',      N'B202',   N'A+',             N'Cancer'),  
(N'Umer',      N'B203',   N'O-',             N'Blood Cancer'),  
(N'Nimra',     N'B204',   N'B-',             N'Heart Disease');
```

```
INSERT into Blood_Bank_Data
```

```
(  
Serial_No,  
Blood_Bank_Name,
```

```
Blood_Bank_Address,  
Blood_Bank_Contact_Number,  
Donor_Id  
)
```

VALUES

```
(N'S_01', N'Ammar Blood Bank', N'Abbottabad,Pakistan', N'0992-0023450',N'1002'),  
(N'S_02', N'Al-shifa Blood Bank',N'Haripur,pakistan', N'0992-900983',N'1004'),  
(N'S_03', N'Hamza Blood Bank', N'islamabad,Pakistan', N'0992-452345',N'1003'),  
(N'S_04', N'Hassan Blood Bank', N'Lahore,Pakistan', N'0992-986019',N'1001');
```

Output:

Donor_Data:

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Hamza	1001	A+	Positive	Lahore, Pakistan	0333-4049000
Ahmed	1002	B+	Positive	Abbottabad, Pakistan	0333-4047001
Zain	1003	O-	Positive	Islamabad, Pakistan	0333-4029004
inam	1004	A+	Negative	Haripur, Pakistan	0333-4049040

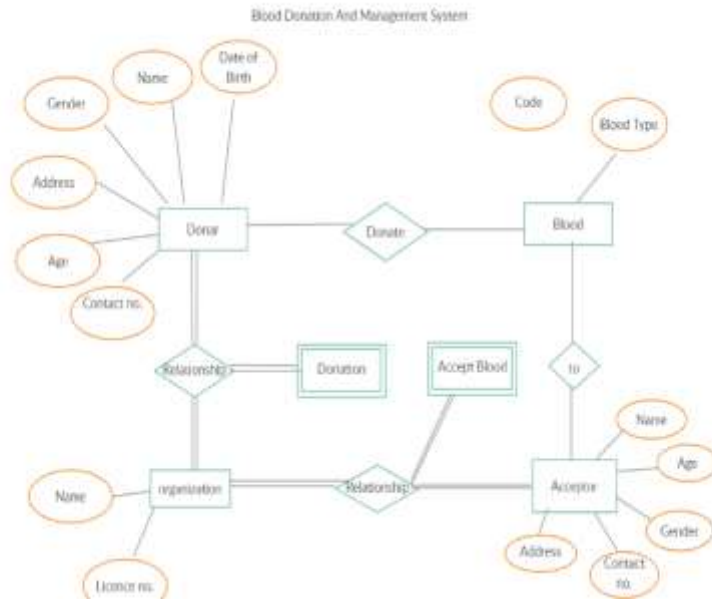
Datient_Data:

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Umer	B203	O-	Blood Cancer
Nimra	B204	B-	Heart Disease

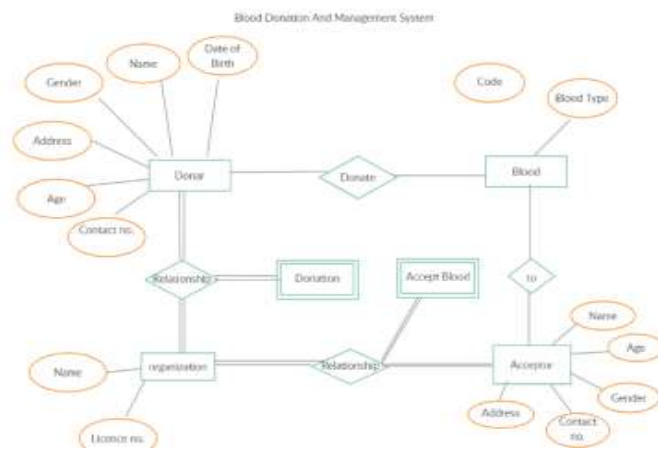
Blood_Bank_Data:

Serial_No	Blood_Bank_Name	Blood_Bank_Address	Blood_Bank_Contact_Number	Donor_Id
S_01	AMMAR Blood Bank	lahore	0992-093945	1001
S_02	Tariq Blood Bank	Abbottabad	0992-91233	1002
S_03	Rauf Blood Bank	Haripur	0992-123123	1004
S_04	Shifa Blood Bank	Islamabad	0992-123432	1003

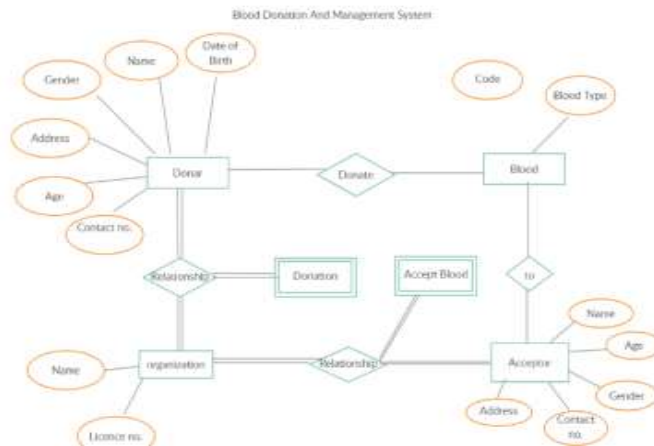
ER AND EER DIAGRAM OF WHOLE SEMESTER PROJECT:



Usman Jadoon: -



Usama Farid:-



Question 2:

Write the output of conceptual database design?

Ans:

Build a conceptual data model

Recognize entity types

Recognize the relationship types

Identify and connect attributes with entity or relationship types

Determine attribute domains

Determine candidate, primary, and alternate key attributes

Consider the use of improved modeling concepts (optional step)

Check model for redundancy

Validate the conceptual model against user transactions

Review the conceptual data model with user

