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**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:-**

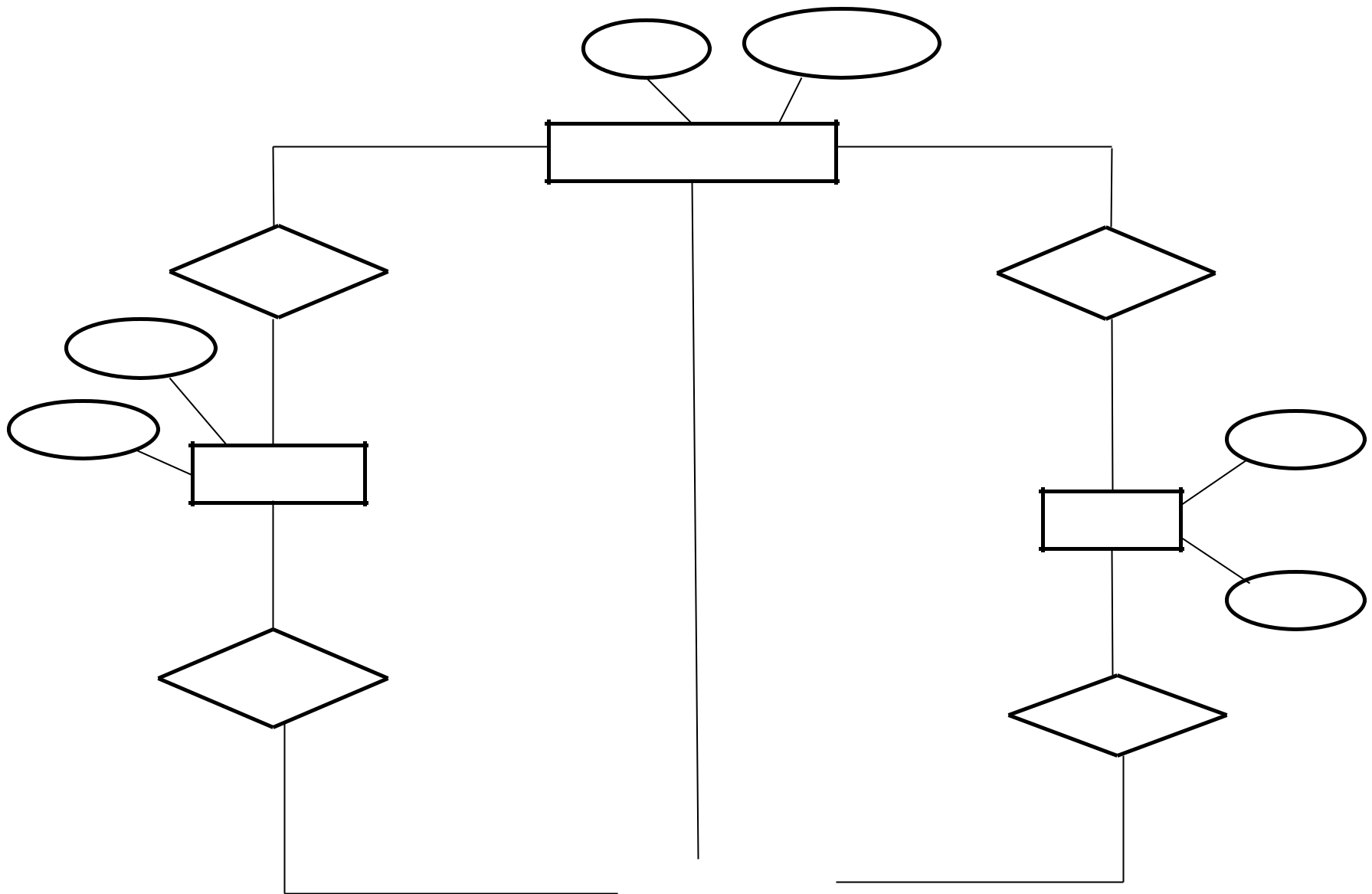
* Blood bank information view/update
* View Donor information
* Manage Patient Blood Request.

**DONOR:-**

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

**PATIENT:-**

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

**E-R DIAGRAM**

**User id**

**User password**

Has

Donor

Donor name

Donor id

Manage

Has

patient

**Patient name**

**Manage**

**Patient id**

**Admin**

Blood Bank

Blood Bank id

Blood Bank Name

**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 regstration |
|  |  |  |  |  |
| 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 | **b**igint | 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 regtraction 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

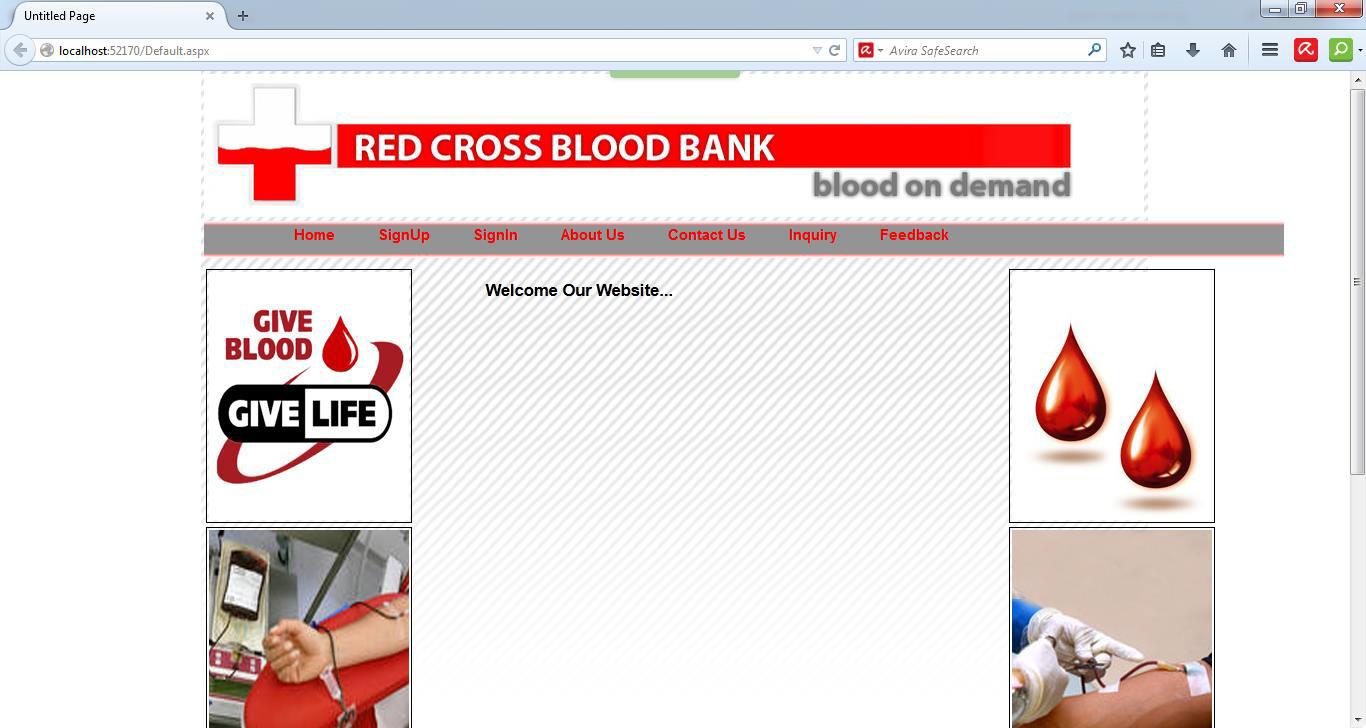
**Description:**- This Table to store feedback information

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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**

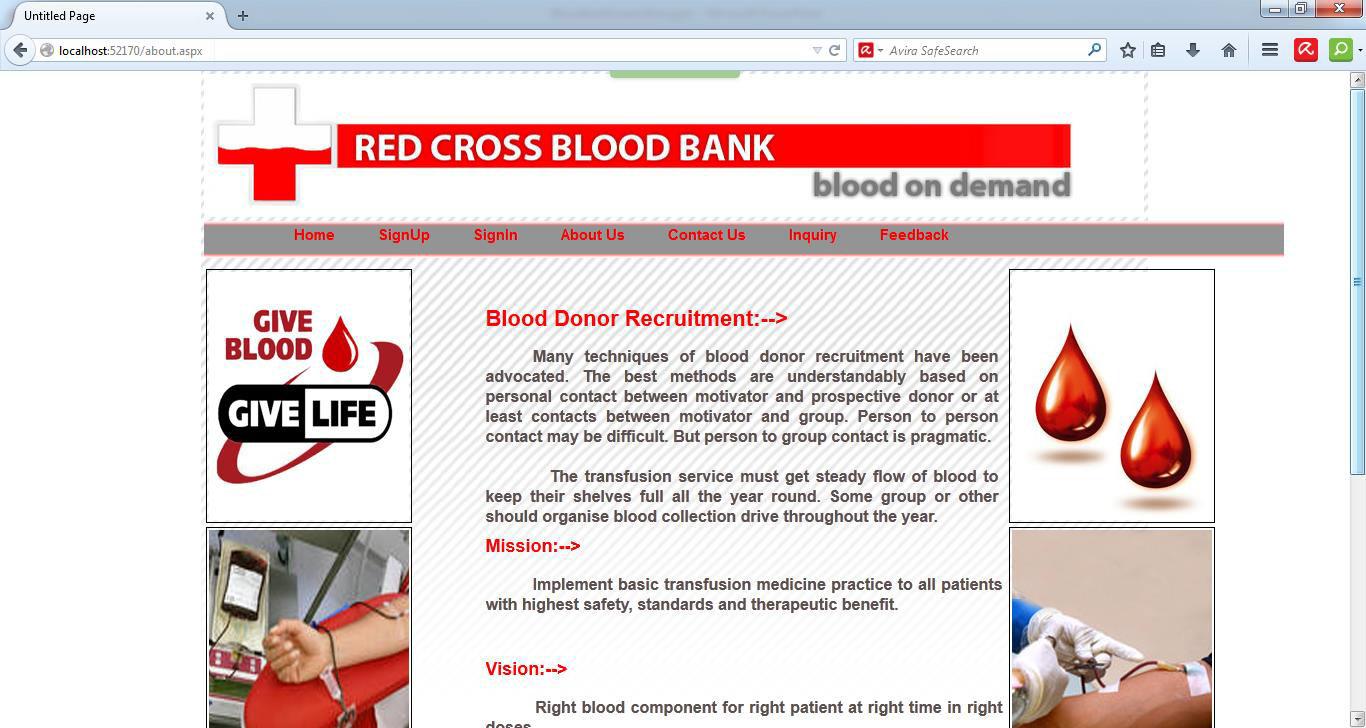
**Home Page:**

**Description:** This page for show home page information



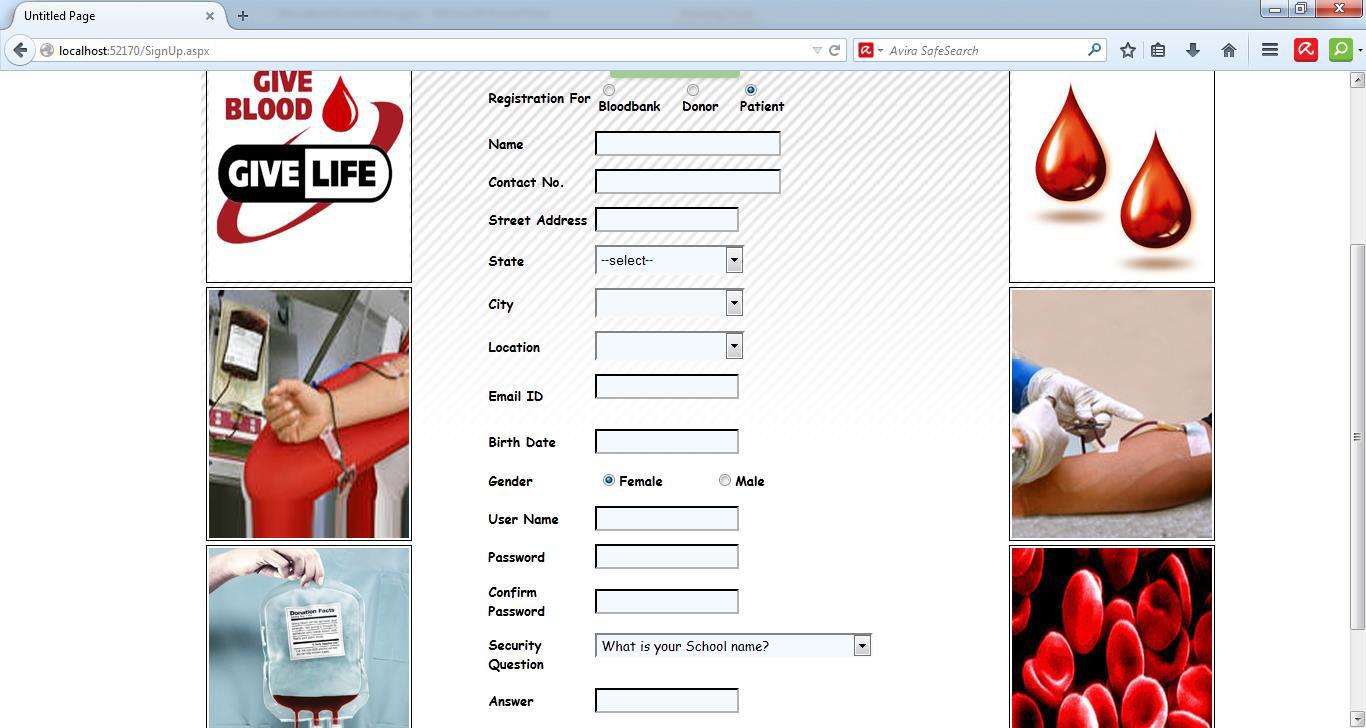
**About Us Page:**

**Description:** This page for show about us information page



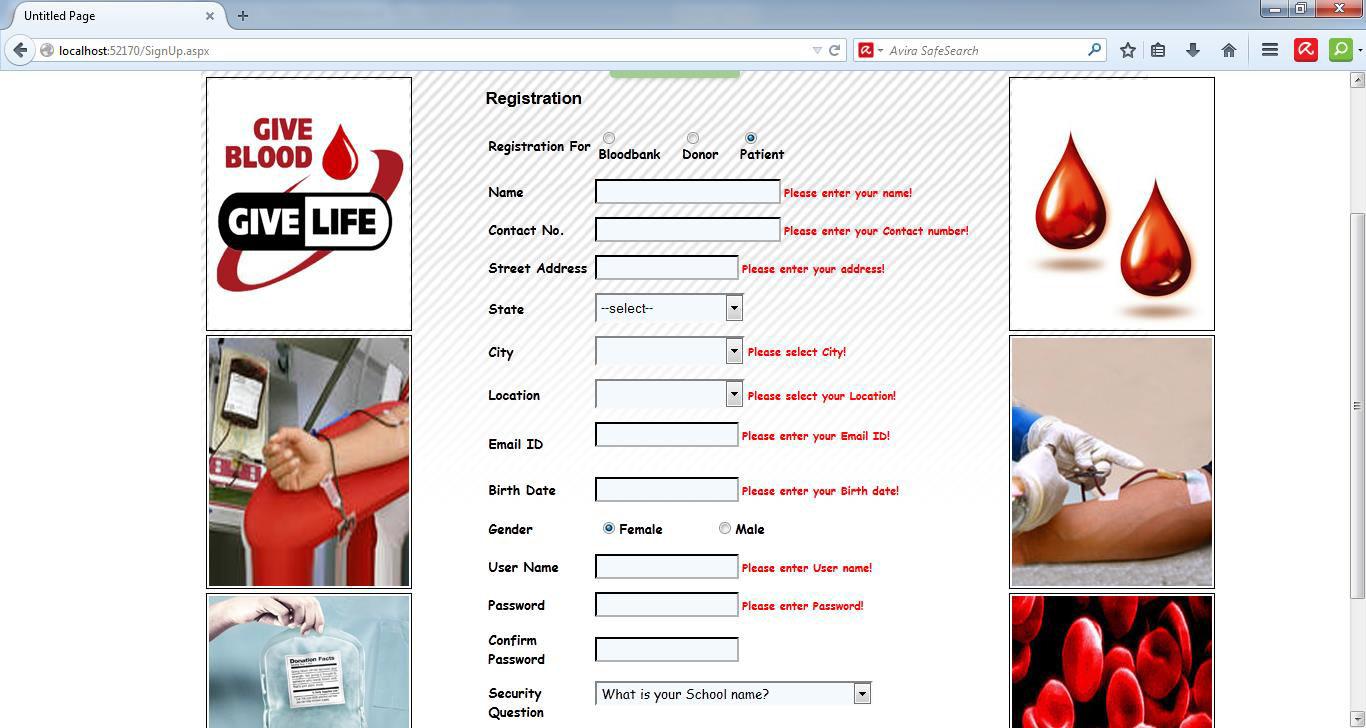
**Registration Page:**

**Description:** This page for user registration page



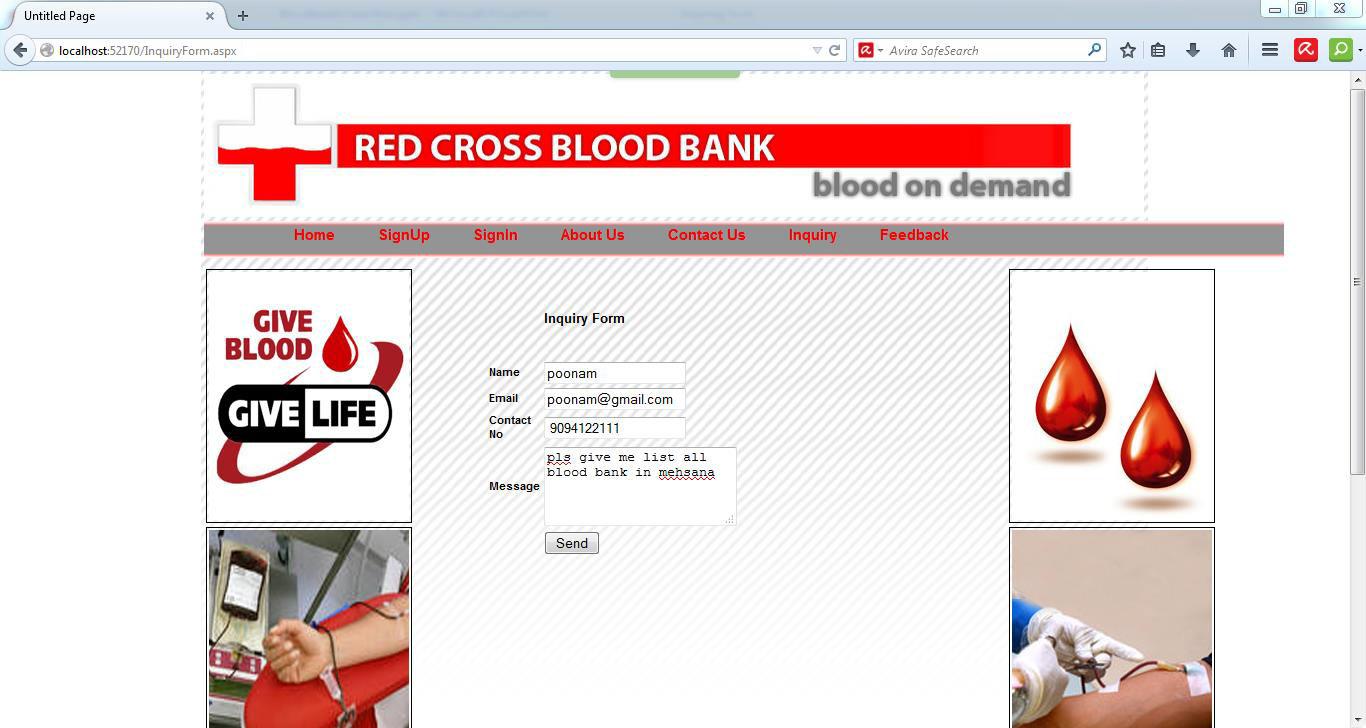
**Registration validation page:**

**Description:** This page for registration validation



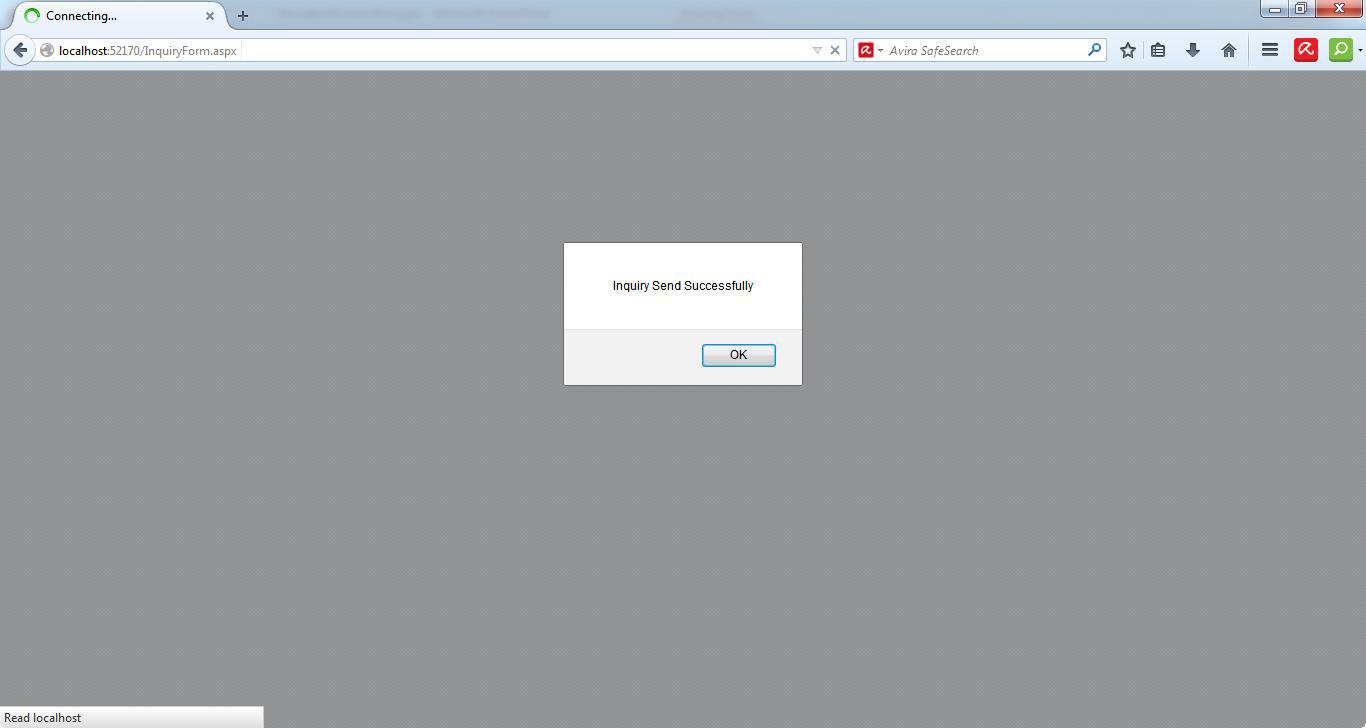
**Inquiry Page:**

**Description:** This page for store inquiry information



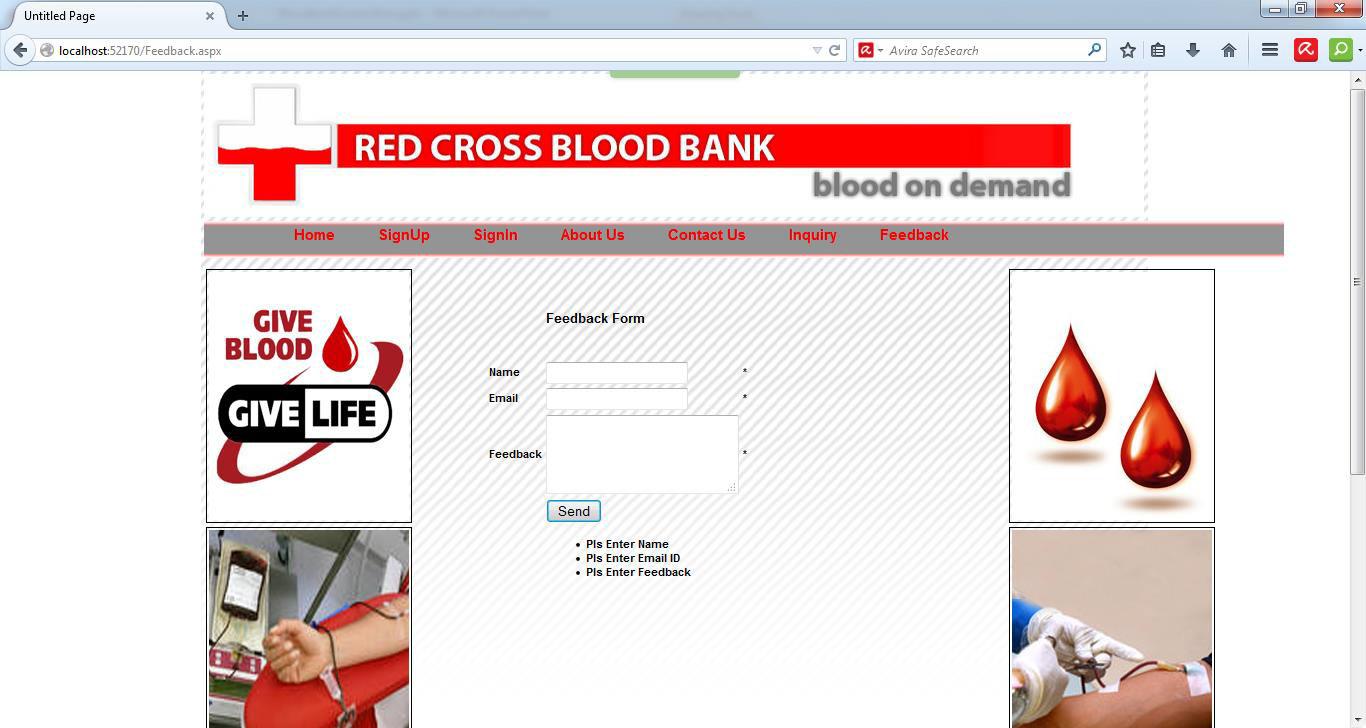
**Message Confirmation page:**

**Description:** This page for submit information message for inquire

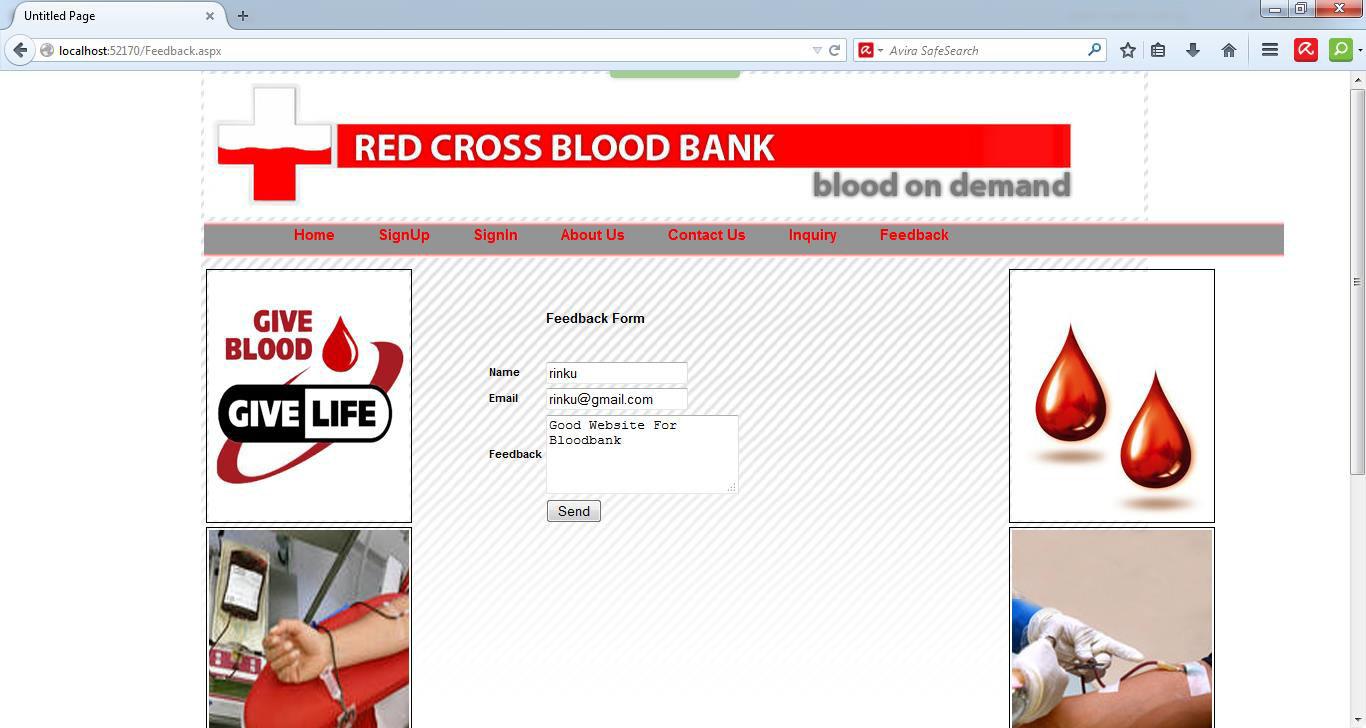


**Feedback Page:**

**Description:** This page for feedback page show validation

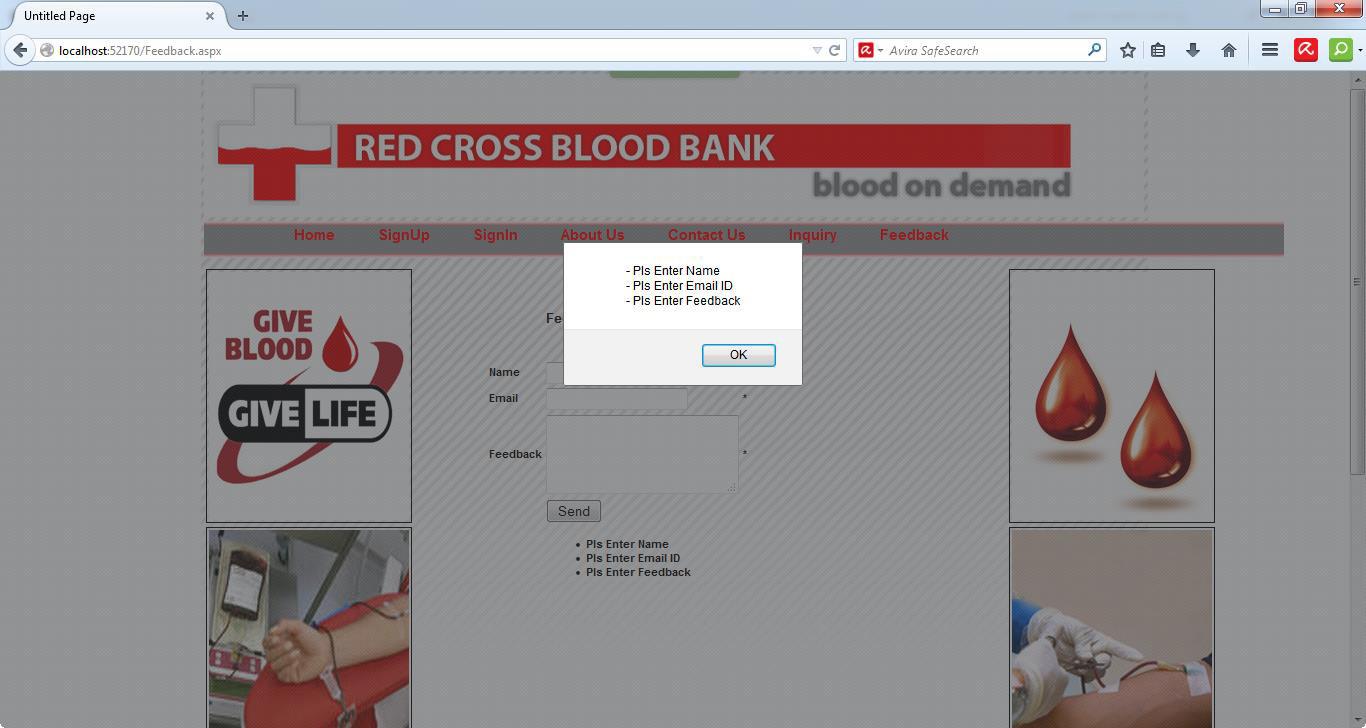


**Description:** This page submit feedback information



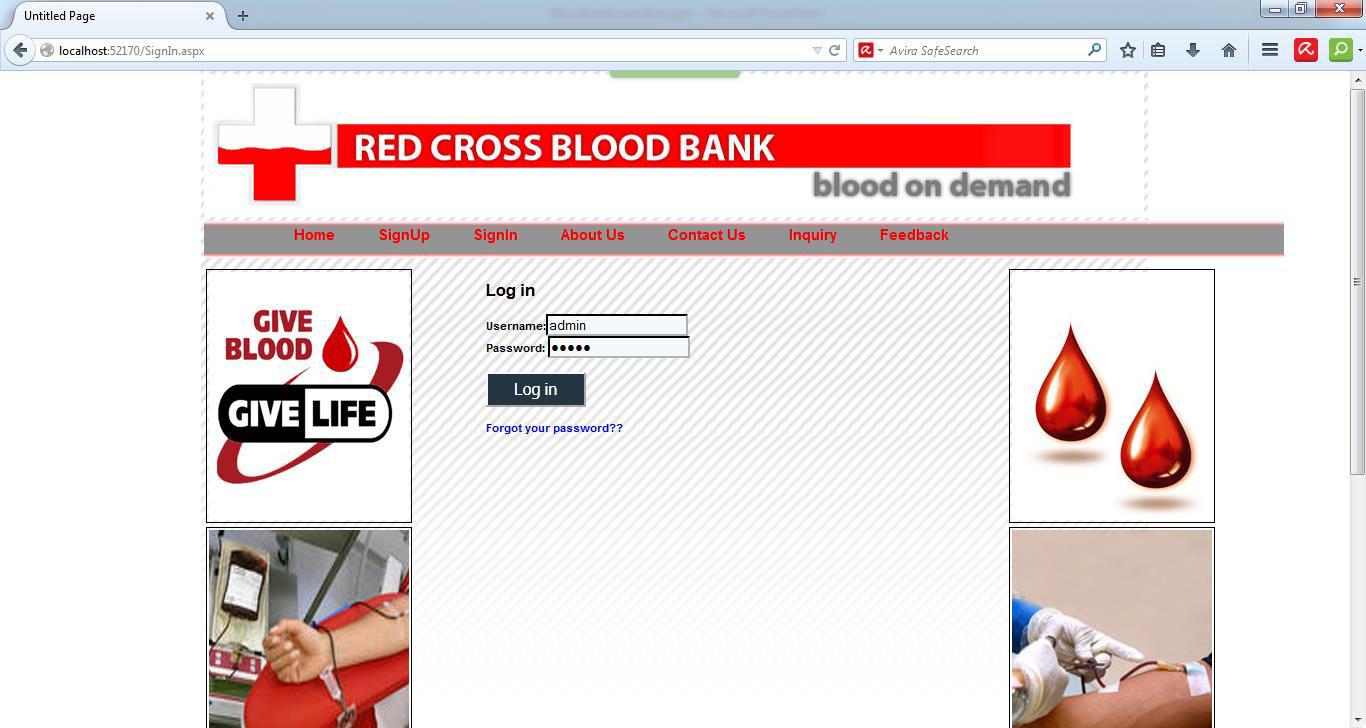
**Validation Page:**

**Description: V**alidation for feedback form

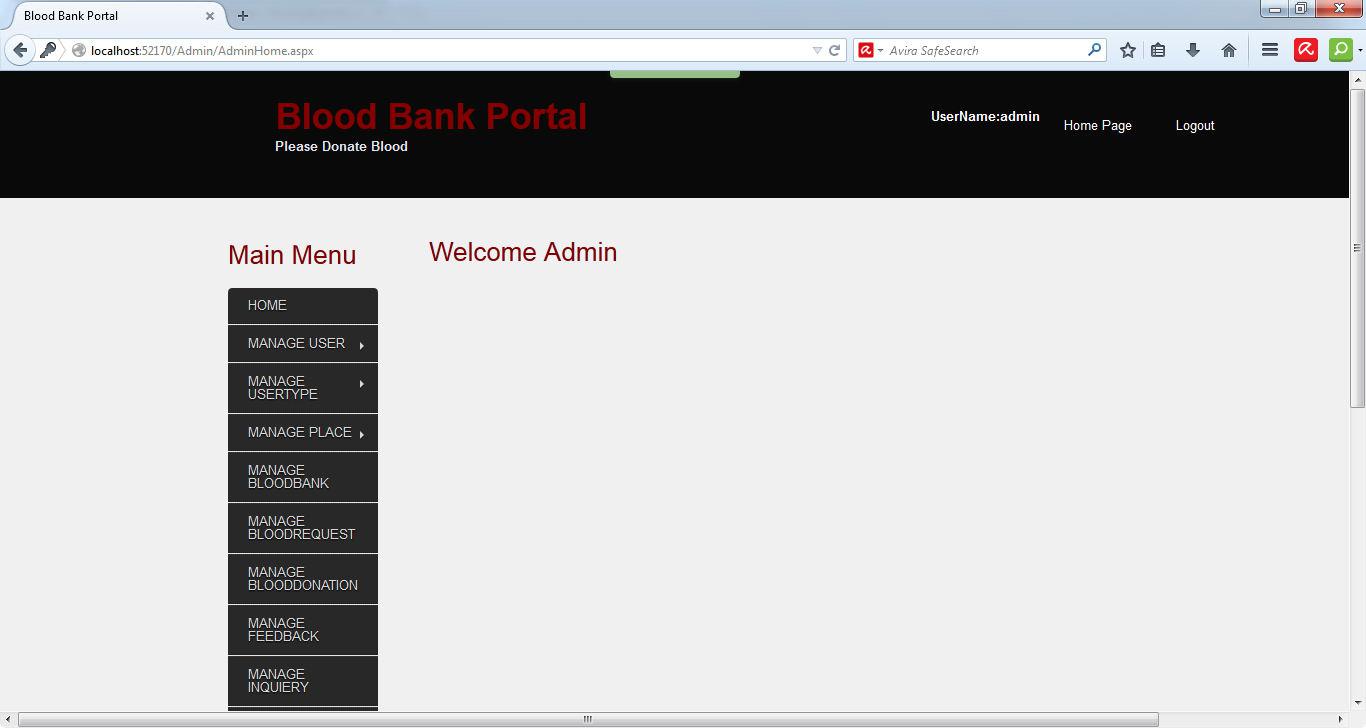


**Admin Side Page:**

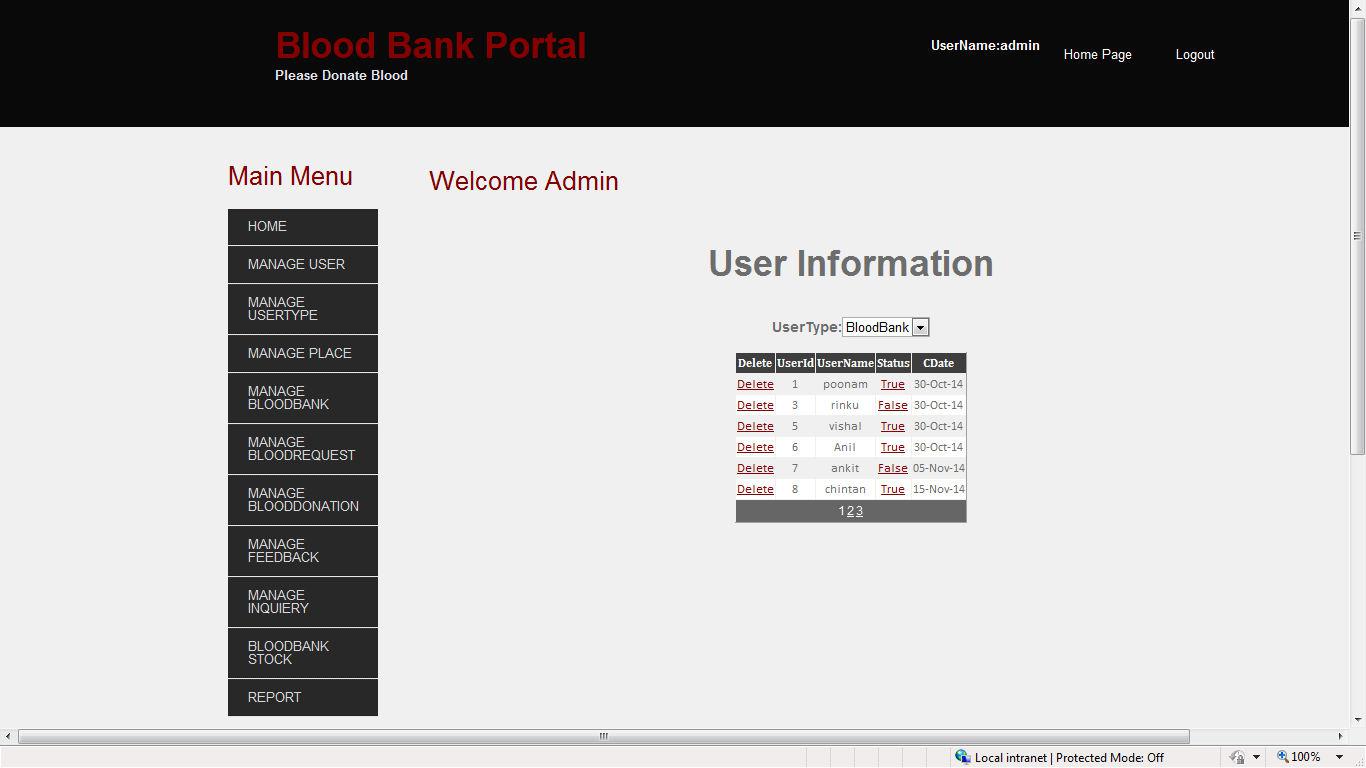
**Description:** This page for admin login



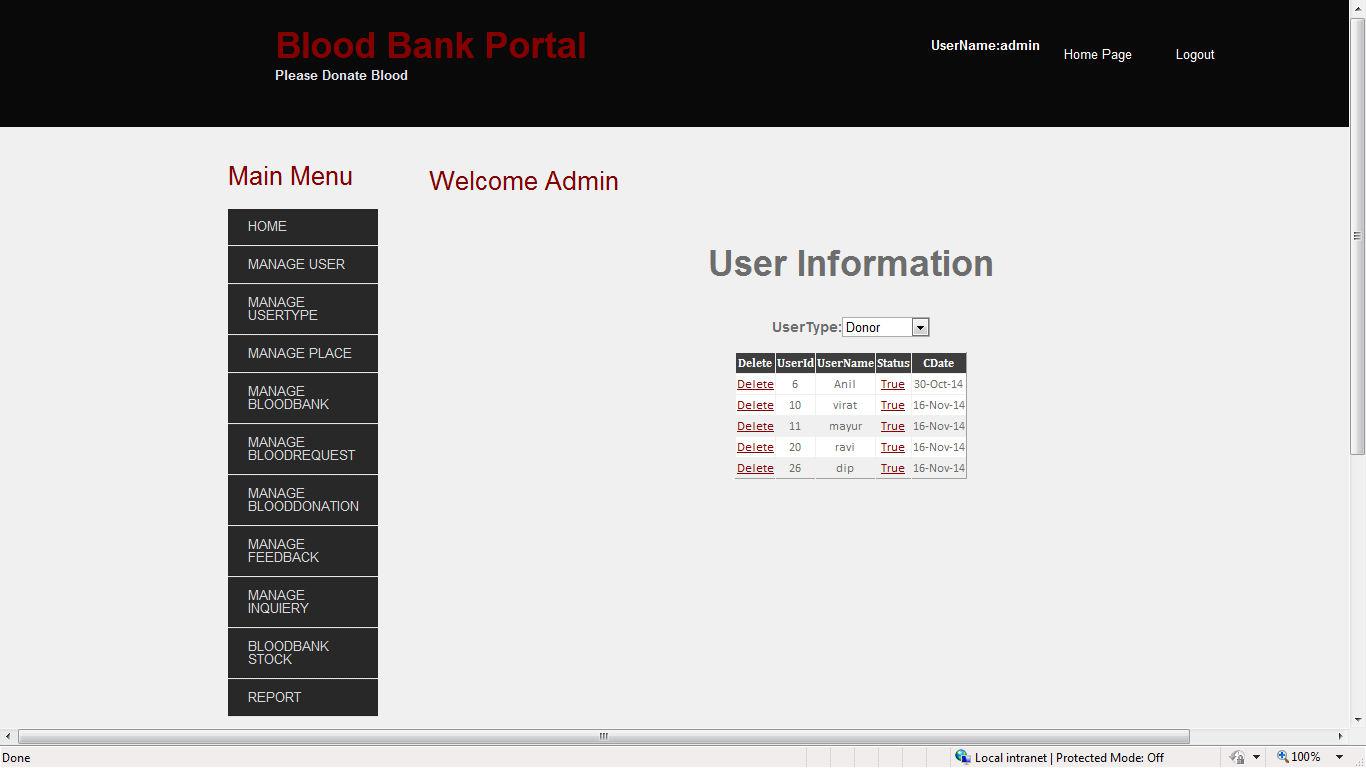
**Description:** This page use for admin home



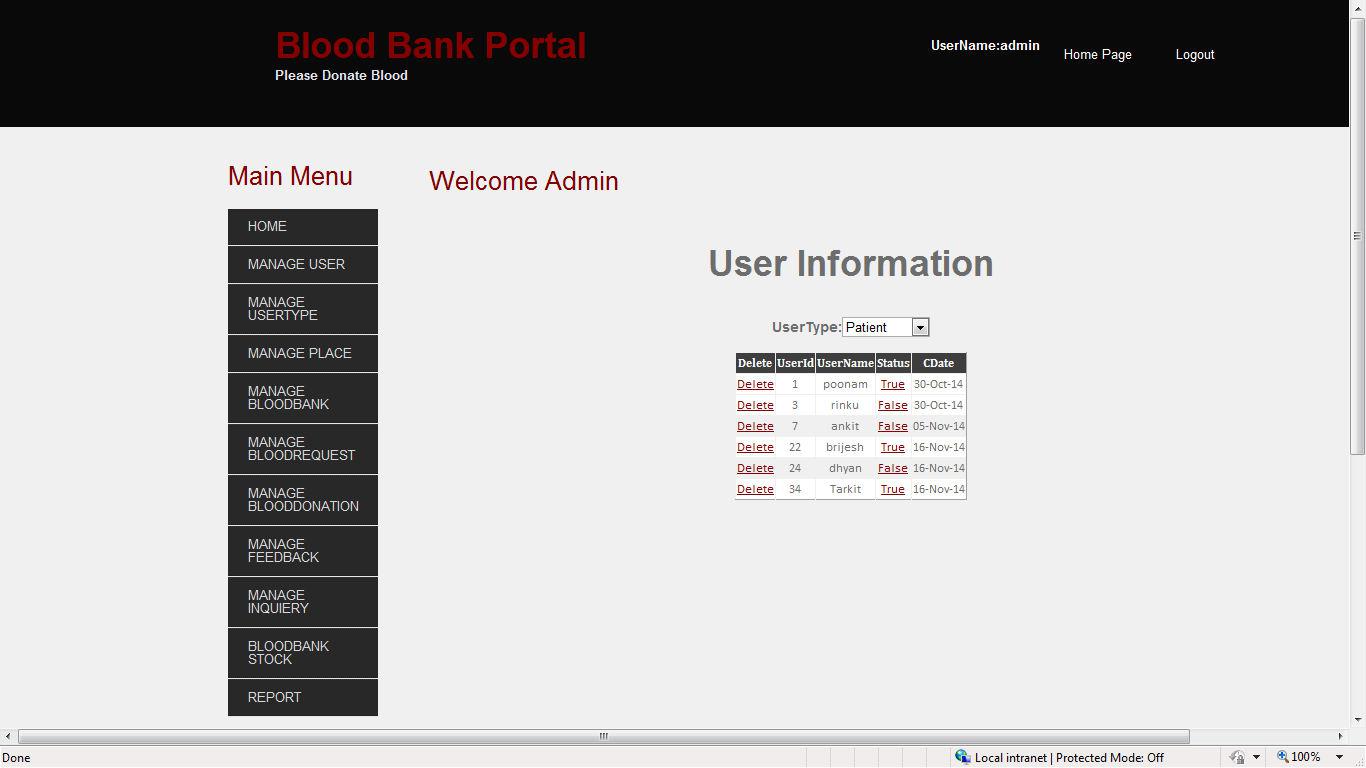
**Description:** This page show user type wise information



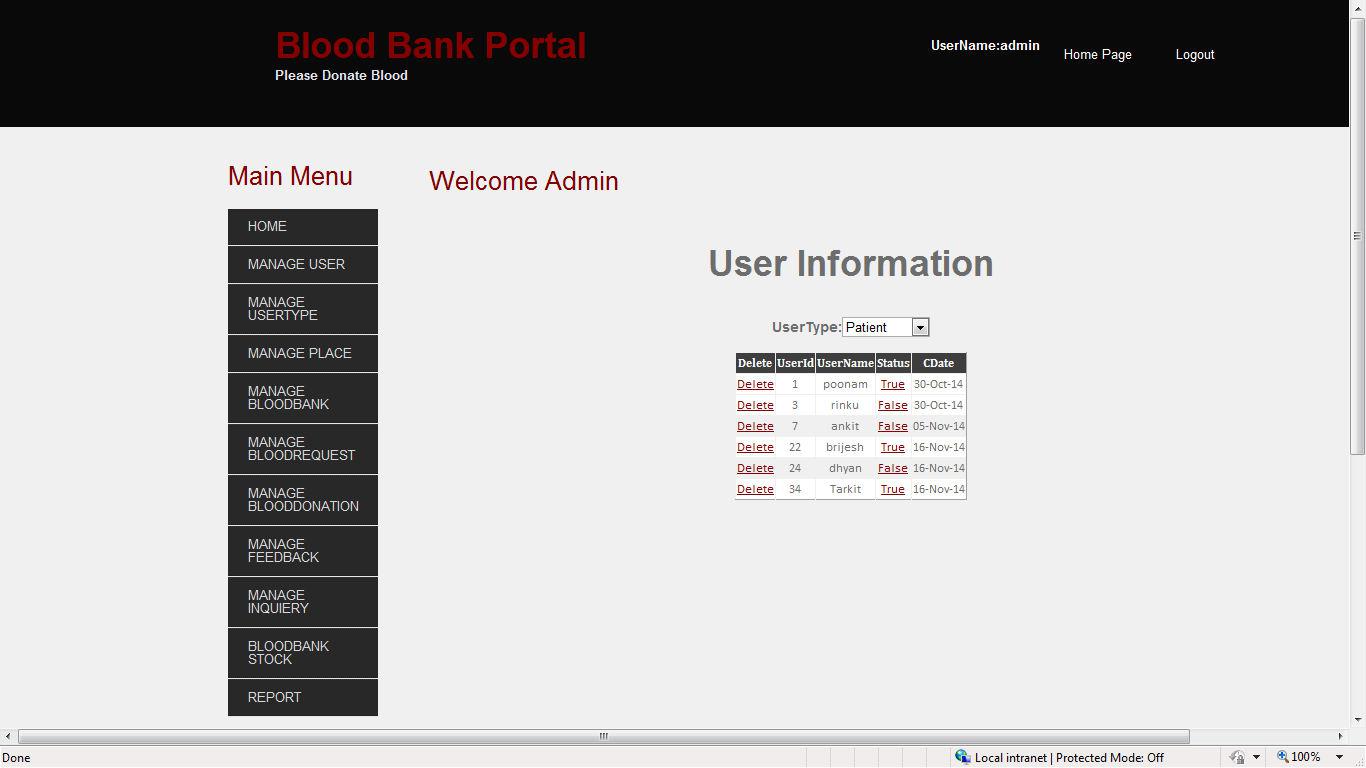
**Description:** This page show Donor user type wise information



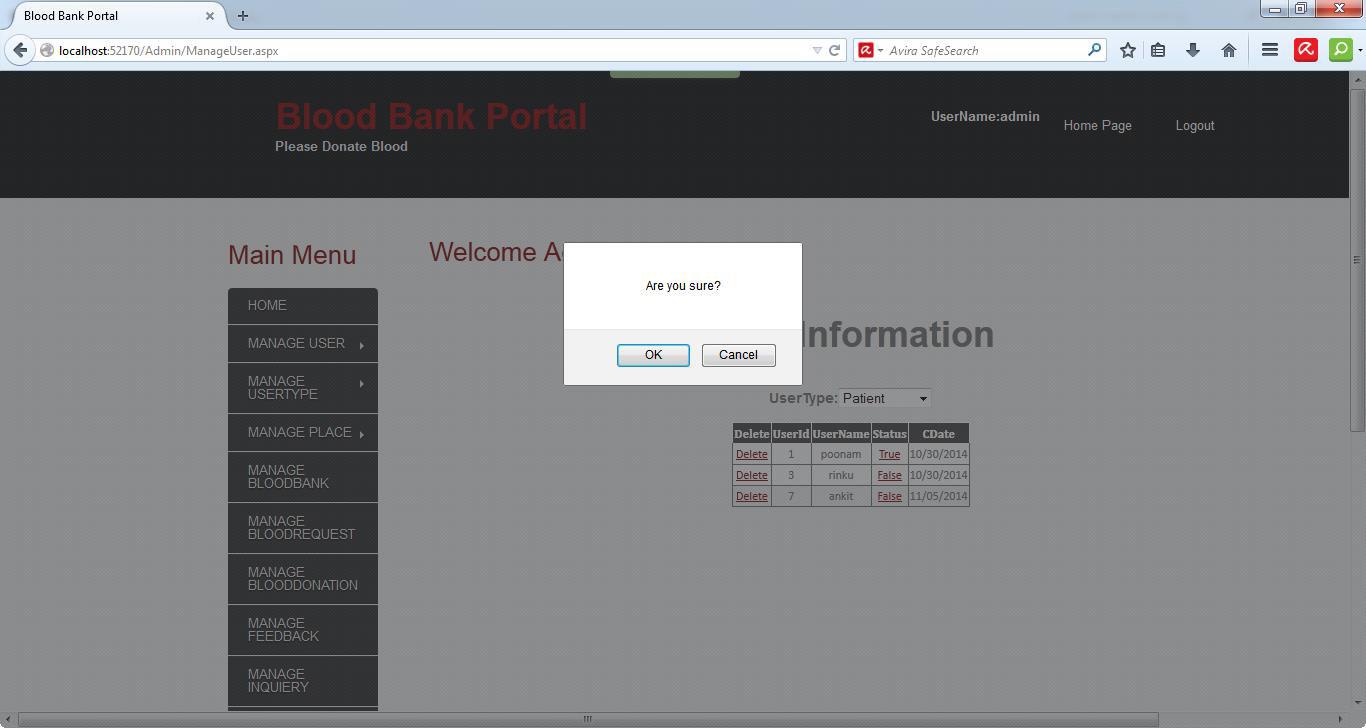
**Description:** This page show patient user type wise information



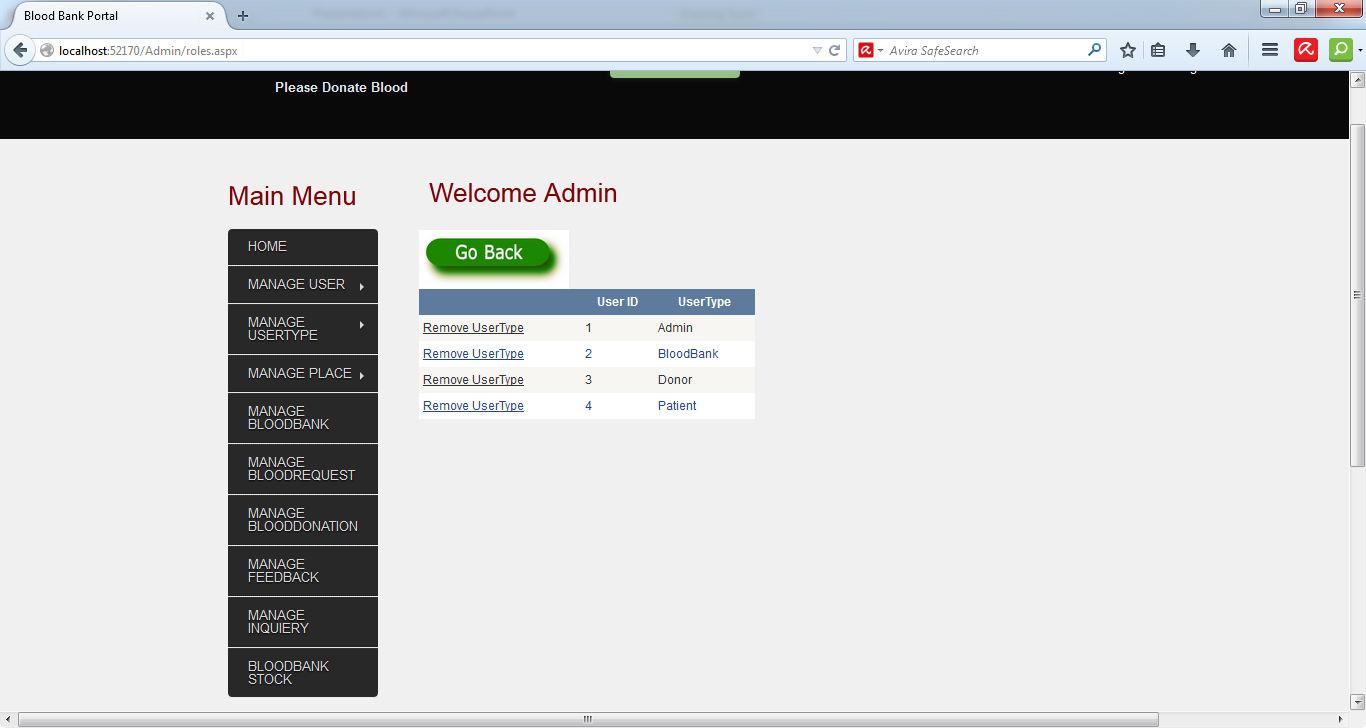
**Description:** This page show blood bank user type wise information



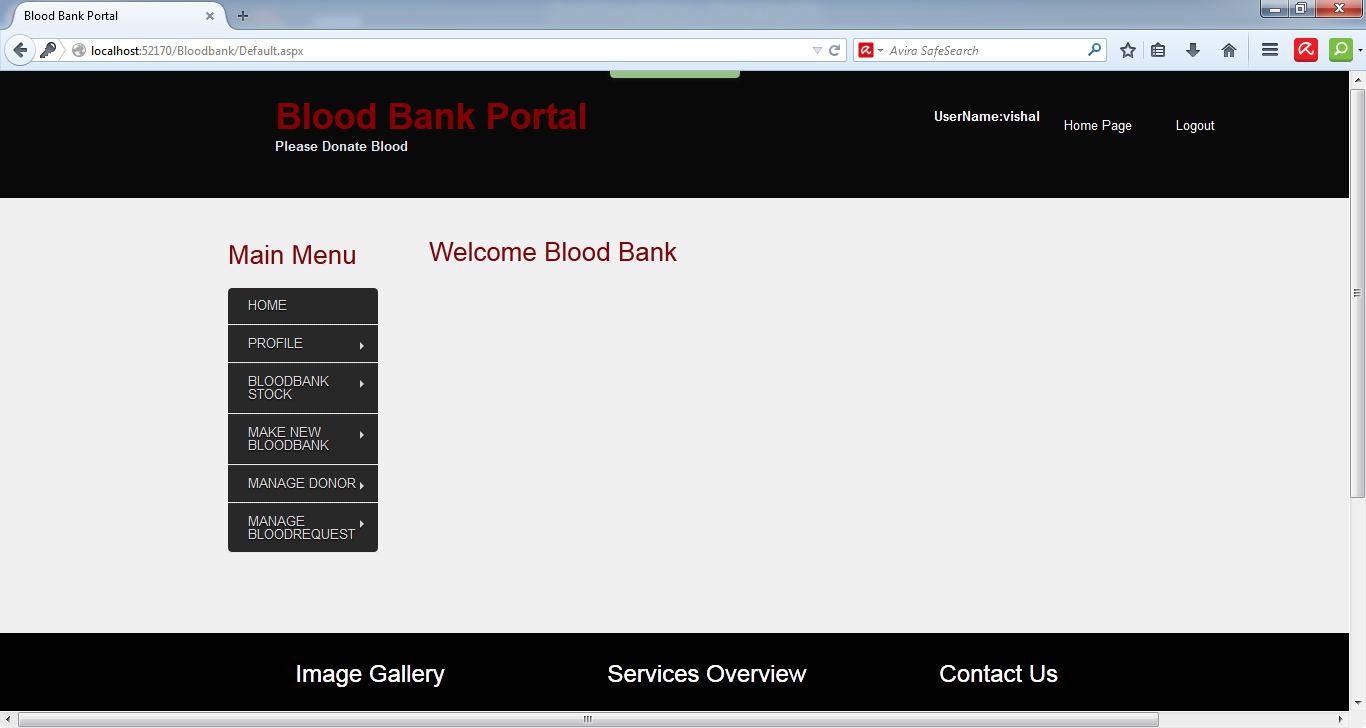
**Description:** This page show message delete confirmation page for patient



**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:

**S**erial\_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:



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'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:

**S**erial\_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:

**S**erial\_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'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:

**S**erial\_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