

JAVA-DBMS PROJECT

Title:

Blood-Bank Management System

Problem Statement:

A blood bank is a center where blood is gathered as a result of blood donation where it is stored and preserved for later use in blood transfusion. Therefore, a blood bank management system is required for proper maintenance. The main aim of this project is to help the people who needs blood in emergency and to associate some donors who are willing to donate their blood to needy people and save their lives. This system helps in managing stock through various features such as increasing, deleting or updating donor details as well as stock entities. Users need to be authorised by administrators to use this tool which enhances the security.

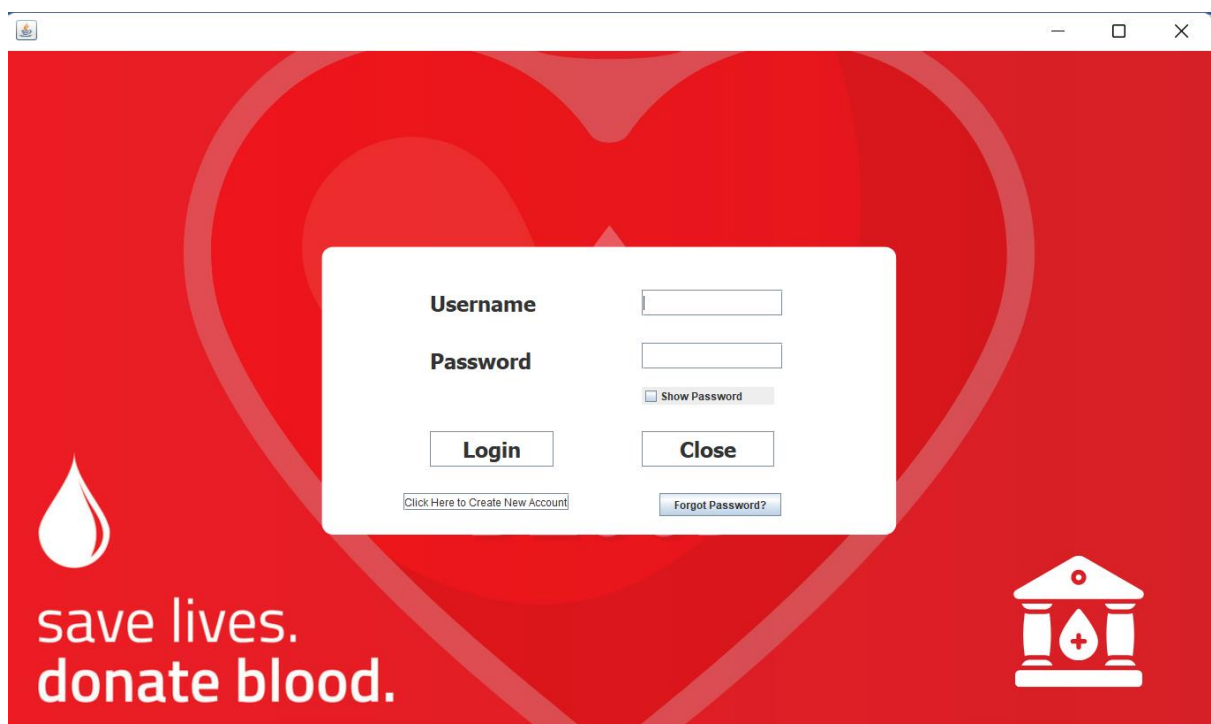
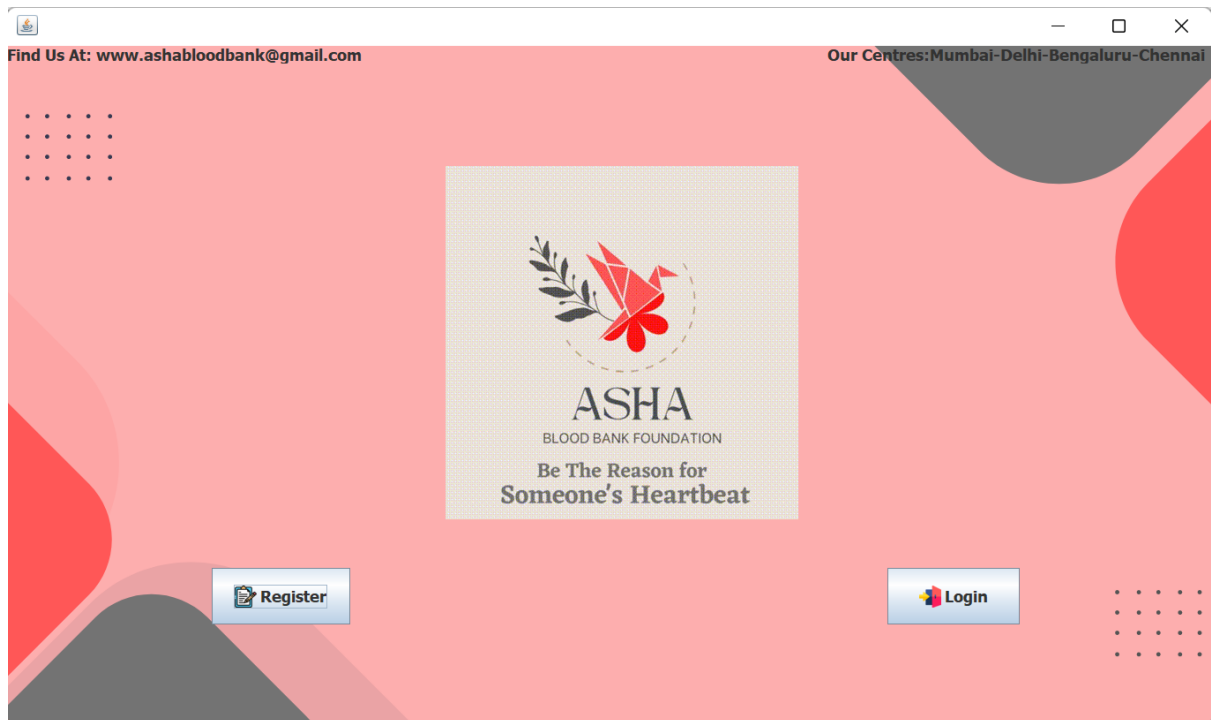
Group Members:

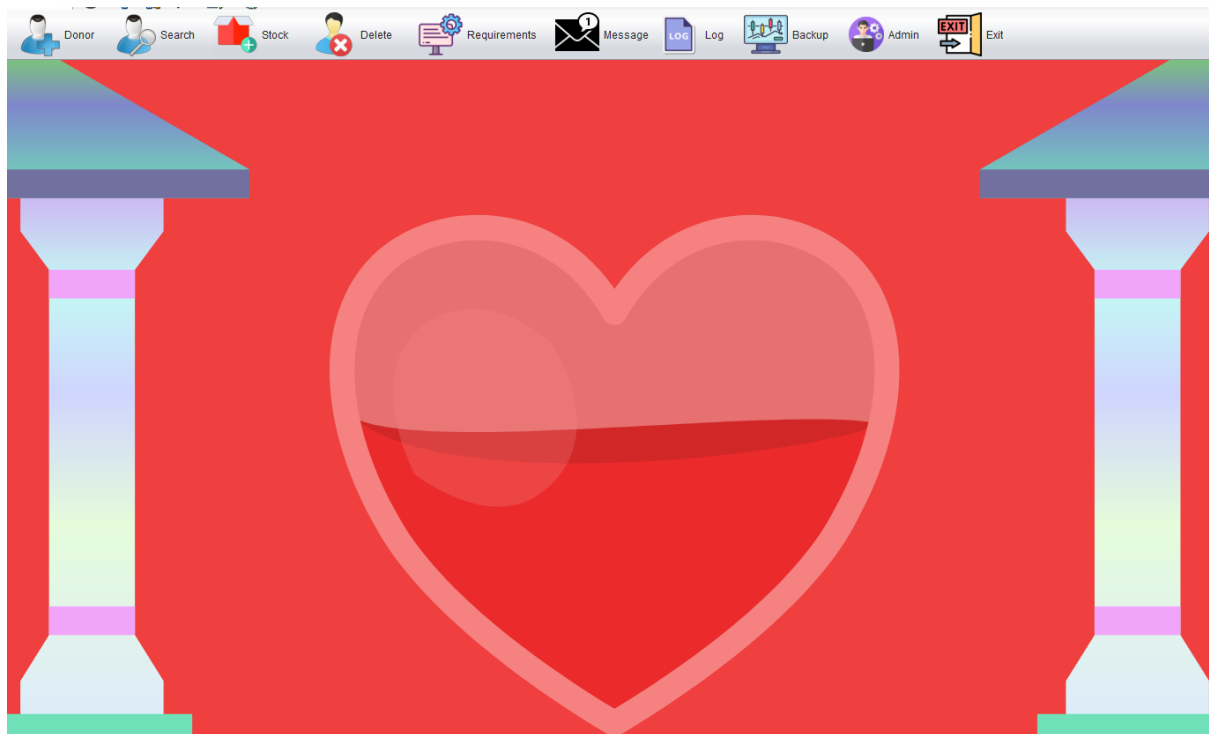
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Front-End Design:





ADD NEW DONOR

New DonorID **1**

Full Name	<input type="text"/>	Email	<input type="text"/>
Fathers Name	<input type="text"/>	Blood Group	<input type="text" value="O+"/>
Mothers Name	<input type="text"/>	City	<input type="text"/>
DOB	<input type="text"/>	Address	<input type="text"/>
Mobile No	<input type="text"/>		
Gender	<input type="text" value="Male"/>		

Event-Handling Code:

```

private void savebuttonActionPerformed(java.awt.event.ActionEvent
evt) {
    // TODO add your handling code here:
    String donorId=jLabel13.getText();
    String name=jTextField1.getText();
    String fathersname=jTextField2.getText();
    String mothersname=jTextField3.getText();
    SimpleDateFormat dFormat=new SimpleDateFormat("dd-MM-
yyyy");
    String DOB=dFormat.format(jDateChooser1.getDate());
    String mobileno=jTextField4.getText();
    String gender=(String)jComboBox1.getSelectedItem();
    String email=jTextField5.getText();
    String bloodgroup=(String)jComboBox2.getSelectedItem();
    String city=jTextField6.getText();
    String address=jTextArea1.getText();
    if(name.length()<=0 || mobileno.length()<=0)
    {
        JOptionPane.showMessageDialog(null,"Null value not
allowed");
    }
    else
    {
        try{
            Connection con=ConnectionProvider.getcon();

```

```

        Statement st=con.createStatement();

        st.executeUpdate("insert into addonor
values('"+donorId+"','"+name+"','"+fathersname+"','"+mothersname
+'','"+DOB+"','"+mobilenumber+"','"+gender+"','"+email+"','"+bloodgroup
+'','"+city+"','"+address+"')");

        JOptionPane.showMessageDialog(null,"Successfully
Updated");

        setVisible(false);

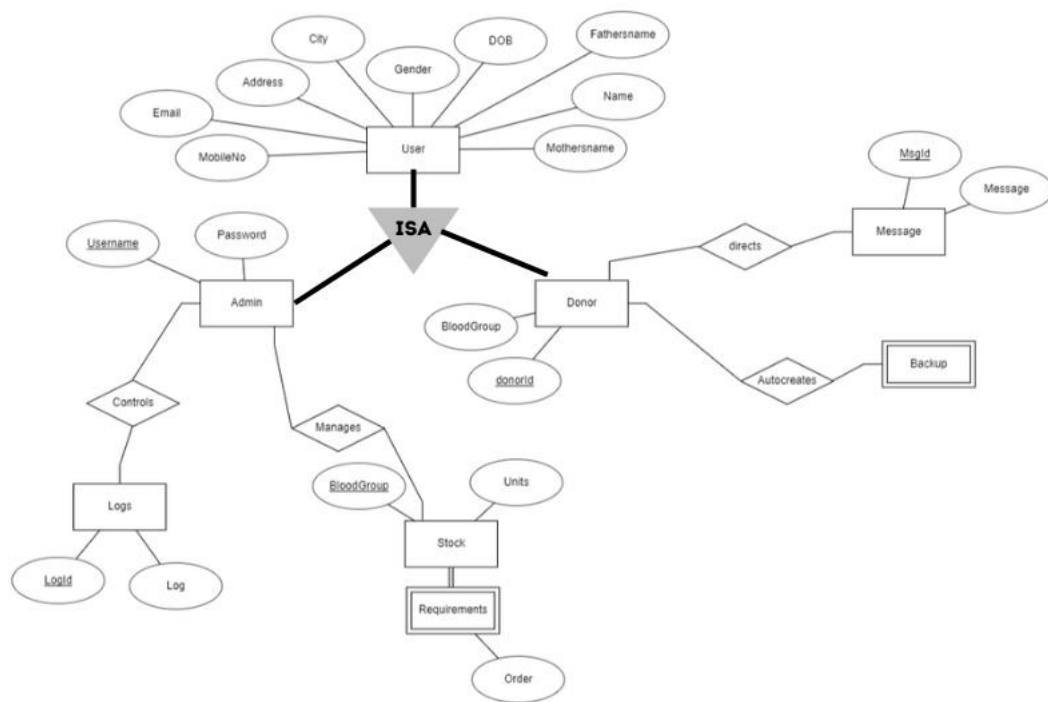
        new addonor().setVisible(true);
    }
    catch(Exception e)
    {
        JOptionPane.showMessageDialog(null,e);

    }

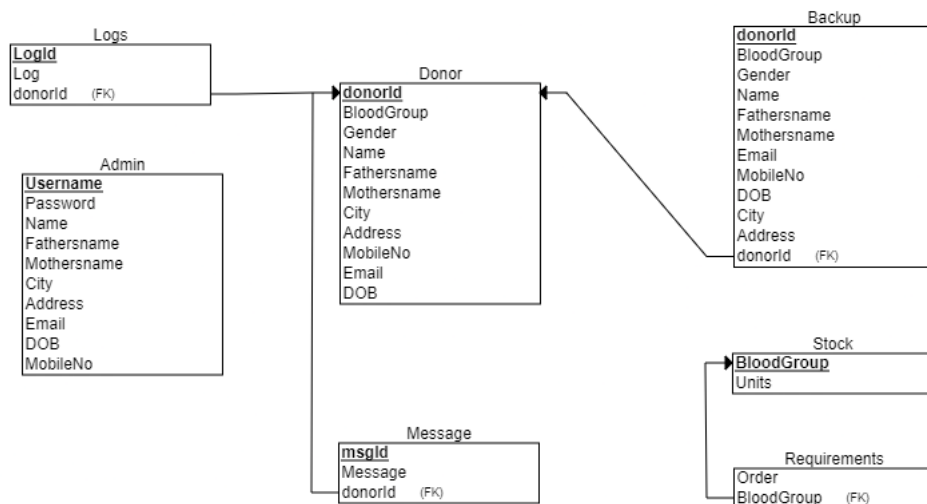
}

```

ER DIAGRAM:



MAPPING ER TO TABLES:



Connectivity Code:

1)Connecting Back-End to Front-End:

```
package Project;

import java.sql.*;

public class ConnectionProvider {

    public static Connection getcon()
    {
        try{
            Class.forName("com.mysql.jdbc.Driver");

            Connection
con=DriverManager.getConnection("jdbc:mysql://localhost/login","r
oot","pass@12345");

            return con;
        }
        catch(Exception e)
        {
            return null;
        }
    }

}
```

2)Connecting 2 J-Frames:

```
private void submitActionPerformed(java.awt.event.ActionEvent evt)
{
```

```

// TODO add your handling code here:
if(jTextField1.getText().equals("12345"))
{
    setVisible(false);
    new Register().setVisible(true);
}
else
{
    JOptionPane.showMessageDialog(null,"Incorrect Security
Pin");
}
}

```

TABLES:

1)Donor Table:

	donorId	name	fathersname	mothersname	DOB	MobileNo	Gender	Email	BloodGroup	City	Address
▶	2	MAH	SHIS	SBUS	17-01-2023	8928505950	Male	shbajb	O +	KALYAN	ansjaj
✱	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

2)Backup Table:

	donorId	name	fathersname	mothersname	DOB	MobileNo	Gender	Email	BloodGroup	City	Address
▶	1	VIRAT	ISS	SAROJ	07-01-2023	9920426708	Female	sarthakm@gmail.com	O +	THANE	maha
✱	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

3)Log Table:

	Id	Log
▶	1	INSERT OPERATION --04/01/2023 __ __ 11:47:18 AM
	2	INSERT OPERATION --04/01/2023 __ __ 11:48:03 AM
	1	UPDATE OPERATION --04/01/2023 __ __ 11:49:05 AM
	1	DELETE OPERATION --04/01/2023 __ __ 11:50:57 AM

4)Message Table:

	Id	Message
▶	1	Name :VIRAT,Update EMAIL
	1	Name :VIRAT,Update EMAIL
	2	Name :MAH,Update EMAIL

5)Register Table:

	FirstName	LastName	Username	DOB	Address	Password	SecurityQ	Answer
▶	jasiishi	hssia	amogh	15-01-2023	hsjs	hello	What is your nick name?	ara
	anup	singh	anupsingh	16-01-2023	gorakhpur	anup	What is your mother tongue?	bhojpuri
	arnav	more	arnavm	09-01-2003	parel	hi	What is your nick name?	amodu
	rohit	sharma	imro45	10-01-2023	borivali	ind	What is your nick name?	hitman
	rekha	mahle	moony	13-01-2023	jhsdu	pf	What is your mother tongue?	konkani

6)Requirements Table:

	Id	Bg	Value	DATE_Time
▶	1	O+	100	2023-01-04 11:50:25
*	NULL	NULL	NULL	NULL

7)Stock Table:

	BloodGroup	Units
▶	A+	50
	A-	50
	B+	50
	B-	50
	AB+	50
	AB-	50
	O+	15
	O-	50

