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PROJECT REPORT

BLOOD BANK MANAGEMENT SYSTEM

COURSE TITLE: PROGRAMMING IN JAVA

COURSE CODE: SWE1007

FACULTY: THANAPAL P

TEAM MEMBERS:

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INTRODUCTION

In the critical healthcare realm, blood banks play a pivotal role in ensuring the timely availability of safe and life-saving blood products for patients in need. However, managing the intricate operations of a blood bank can be a complex and demanding task, often involving manual processes that are prone to errors and inefficiencies. To address these challenges and streamline blood bank operations, a comprehensive blood bank management system (BBMS) emerges as an invaluable tool.

BBMS is a software application specifically designed to automate and streamline various aspects of blood bank management, from donor registration and blood collection to inventory tracking and blood distribution.

Adopting BBMS offers numerous benefits for blood banks, hospitals, and the overall healthcare system. These benefits include:

Enhanced Efficiency: BBMS automates many manual tasks, such as data entry, record keeping, and inventory management, freeing up staff time to focus on critical patient care and donor engagement activities.

Improved Accuracy: BBMS reduces the risk of human error in data entry and recordkeeping, ensuring the accuracy of donor information, blood inventory levels, and transfusion records.

Streamlined Processes: BBMS streamlines blood donation and transfusion processes, making it easier for donors to register, schedule appointments, and donate blood, while also streamlining the process for healthcare providers to request and receive blood components.

Effective Inventory Management: BBMS provides real-time tracking of blood inventory levels, including blood type, location ensuring that the right blood components are available when needed.

OBJECTIVES

The objective of this project is to develop a comprehensive blood bank management system (BBMS) that streamlines and automates various aspects of blood bank operations, from donor registration and blood collection to inventory tracking and blood distribution. This system aims to address the challenges of traditional manual blood bank management methods by providing an efficient, accurate, and user-friendly solution.

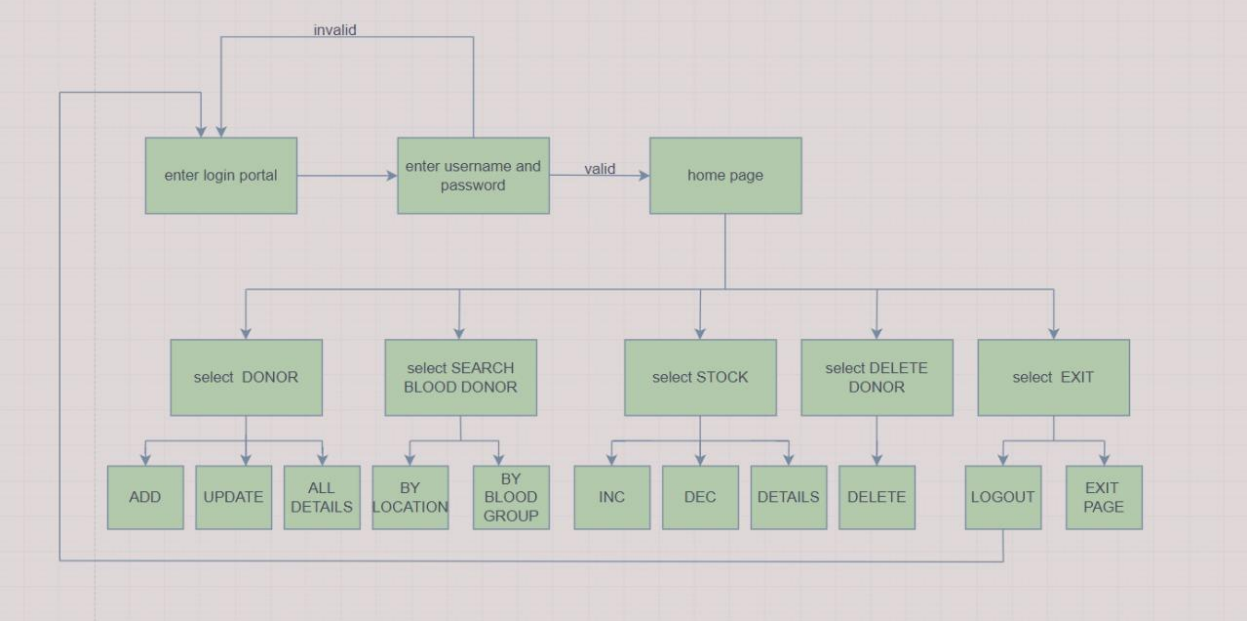
Specific Objectives:

1. **Donor Management:**
    - Create a centralized database to store and manage donor information, including name, contact details, address and blood group.
    - Enable admin to check details, add, delete and update donor details and manage stock.
2. **Blood Inventory Management:**
    - Implement a real-time inventory management system for tracking blood inventory, ensuring optimal stock levels and minimizing shortages.
3. **Find Donors:**
    - Facilitating efficient donor retrieval based on location and required blood group through robust search functionalities.

MODULES

1. **Admin Login:** Username and password to be entered to access home page.
2. **Home Page:** contains 5 options DONOR, SEARCH, STOCK, DELETE and EXIT.
3. **Add donor details:** donor details like name, number, blood group, DOB, gender, email, city, address, father's name and mother's name will be stored.
4. **Update donor details:** donor details can be updated here.
5. **Delete donor details:** donor details can be deleted.
6. **Display Donor Details:** displays the complete details of donor.
7. **Search donor based on blood group:** a donor can be searched on the basis of blood group.
8. **Search donor based on location:** a donor can be searched on the basis of blood group.
9. **Show Stock Details:** blood group along with its units available will be displayed.
10. **Increase stock:** current stock can be increased.
11. **Decrease Stock:** current stock can be decreased.

UML DIAGRAM



JAVA CONCEPTS IMPLEMENTED

DEPENDENCIES:

- Java Development Kit (JDK)
- NetBeans IDE for Java development
- MySQL Connector/J for JDBC connectivity

CONCEPTS:

- Classes and objects to store the information given during registration and to use and display when required.
- Methods to perform specific tasks and return result to user.
- Java Swing for GUI
- MySQL Database integration
- User authentication and authorization
- Event-driven programming for handling user actions 8. Using prepared Statements to execute SQL Queries with placeholders

CODE

MySQL QUERIES:

```
Create database bbms;

Use bbms;

CREATE TABLE donor (
  donorId INT NOT NULL PRIMARY KEY,
  name VARCHAR(50),
  fatherName VARCHAR(50),
  motherName VARCHAR(50),
  DOB VARCHAR(20),
  MobileNo VARCHAR(10),
  gender VARCHAR(10),
  email VARCHAR(100),
  bloodGroup VARCHAR(10),
  city VARCHAR(50),
  address VARCHAR(300)
);

CREATE TABLE stock (
    bloodGroup VARCHAR(20),
    units INT
);
```

JAVA CODES:

login.java

```
import javax.swing.JOptionPane;

public class login extends javax.swing.JFrame {

    public login() {
        initComponents();
    }

    private void initComponents() {

        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        jTextField1 = new javax.swing.JTextField();
        jPasswordField1 = new javax.swing.JPasswordField();
        jButton1 = new javax.swing.JButton();
```

```
        jButton2 = new javax.swing.JButton();
        jLabel3 = new javax.swing.JLabel();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        setUndecorated(true);
        getContentPane().setLayout(new
org.netbeans.lib.awtextra.AbsoluteLayout());

        jLabel1.setFont(new java.awt.Font("Segoe UI", 1, 18));
        jLabel1.setForeground(new java.awt.Color(255, 255, 255));
        jLabel1.setText("Username");
        getContentPane().add(jLabel1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(620, 340, 140, 20));

        jLabel2.setFont(new java.awt.Font("Segoe UI", 1, 18));
        jLabel2.setForeground(new java.awt.Color(255, 255, 255));
        jLabel2.setText("Password");
        getContentPane().add(jLabel2, new
org.netbeans.lib.awtextra.AbsoluteConstraints(620, 430, 140, -1));

        jTextField1.setBackground(new java.awt.Color(204, 204, 204));
        jTextField1.setFont(new java.awt.Font("Tahoma", 1, 14));
        jTextField1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jTextField1ActionPerformed(evt);
            }
        });
        getContentPane().add(jTextField1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(620, 370, 300, 30));

        jPasswordField1.setBackground(new java.awt.Color(204, 204, 204));
        jPasswordField1.setFont(new java.awt.Font("Tahoma", 1, 14));
        jPasswordField1.addActionListener(new java.awt.event.ActionListener()
{
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jPasswordField1ActionPerformed(evt);
            }
        });
        getContentPane().add(jPasswordField1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(620, 460, 300, 30));

        jButton1.setBackground(new java.awt.Color(204, 204, 204));
        jButton1.setFont(new java.awt.Font("Tahoma", 1, 18));
        jButton1.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\login.png"));
```

```
        jButton1.setText("Login");
        jButton1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton1ActionPerformed(evt);
            }
        });
        getContentPane().add(jButton1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(650, 540, -1, -1));

        jButton2.setBackground(new java.awt.Color(204, 204, 204));
        jButton2.setFont(new java.awt.Font("Tahoma", 1, 18));
        jButton2.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\Exit application.png"));
        jButton2.setText("Close");
        jButton2.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton2ActionPerformed(evt);
            }
        });
        getContentPane().add(jButton2, new
org.netbeans.lib.awtextra.AbsoluteConstraints(800, 540, -1, -1));

        jLabel3.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\Login Page (final).png"));
        jLabel3.setText("jLabel3");
        getContentPane().add(jLabel3, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, 1540, 860));

        pack();
    }

    private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
        int a=JOptionPane.showConfirmDialog(null,"Do you really want to close
application?", "Select", JOptionPane.YES_NO_OPTION);
        if (a==0)
            System.exit(0);
    }

    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
        if(jTextField1.getText().equals("bbms") &&
jPasswordField1.getText().equals("admin"))
        {
            setVisible(false);
            new home().setVisible(true);
```

```
        }
        else
            JOptionPane.showMessageDialog(null, "Incorrect username or
Password");
    }
        try {
            for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {

javax.swing.UIManager.setLookAndFeel(info.getClassName());
                    break;
                }
            }
        } catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(login.class.getName()).log(java.util.loggi
ng.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(login.class.getName()).log(java.util.loggi
ng.Level.SEVERE, null, ex);
        } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(login.class.getName()).log(java.util.loggi
ng.Level.SEVERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(login.class.getName()).log(java.util.loggi
ng.Level.SEVERE, null, ex);
        }

        java.awt.EventQueue.invokeLater(new Runnable() {
            @Override
            public void run() {
                new login().setVisible(true);
            }
        });
    }
    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton2;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JPasswordField jPasswordField1;
    private javax.swing.JTextField jTextField1;
```

```
}
```

home.java

```
import javax.swing.JOptionPane;

public class home extends javax.swing.JFrame {
    public home() {
        initComponents();
    }
    private void initComponents() {

        jSeparator7 = new javax.swing.JSeparator();
        jLabel1 = new javax.swing.JLabel();
        jMenuBar1 = new javax.swing.JMenuBar();
        jMenu1 = new javax.swing.JMenu();
        jMenuItem1 = new javax.swing.JMenuItem();
        jSeparator1 = new javax.swing.JPopupMenu.Separator();
        jMenuItem2 = new javax.swing.JMenuItem();
        jSeparator2 = new javax.swing.JPopupMenu.Separator();
        jMenuItem3 = new javax.swing.JMenuItem();
        jSeparator8 = new javax.swing.JPopupMenu.Separator();
        jMenu2 = new javax.swing.JMenu();
        jMenuItem4 = new javax.swing.JMenuItem();
        jSeparator3 = new javax.swing.JPopupMenu.Separator();
        jMenuItem5 = new javax.swing.JMenuItem();
        jSeparator9 = new javax.swing.JPopupMenu.Separator();
        jMenu3 = new javax.swing.JMenu();
        jMenuItem6 = new javax.swing.JMenuItem();
        jSeparator4 = new javax.swing.JPopupMenu.Separator();
        jMenuItem7 = new javax.swing.JMenuItem();
        jSeparator5 = new javax.swing.JPopupMenu.Separator();
        jMenuItem8 = new javax.swing.JMenuItem();
        jSeparator10 = new javax.swing.JPopupMenu.Separator();
        jMenu4 = new javax.swing.JMenu();
        jMenuItem9 = new javax.swing.JMenuItem();
        jSeparator11 = new javax.swing.JPopupMenu.Separator();
        jMenu5 = new javax.swing.JMenu();
        jMenuItem10 = new javax.swing.JMenuItem();
        jSeparator6 = new javax.swing.JPopupMenu.Separator();
        jMenuItem11 = new javax.swing.JMenuItem();
        jSeparator12 = new javax.swing.JPopupMenu.Separator();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        setUndecorated(true);
```

```
        getContentPane().setLayout(new
org.netbeans.lib.awtextra.AbsoluteLayout());

        jLabel1.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\Home-Blood Bank Management System.png"));
        jLabel1.setText("jLabel1");
        getContentPane().add(jLabel1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, -60, 1580, 870));

        jMenu1.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\Donor.png"));
        jMenu1.setText("  Donor  ");
        jMenu1.setFont(new java.awt.Font("Segoe UI", 0, 18));
        jMenu1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jMenu1ActionPerformed(evt);
            }
        });


jMenuItem1.setAccelerator(javax.swing.KeyStroke.getKeyStroke(java.awt.event.K
eyEvent.VK_A, java.awt.event.InputEvent.CTRL_DOWN_MASK));
        jMenuItem1.setFont(new java.awt.Font("Segoe UI", 0, 18));
        jMenuItem1.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\Add new.png"));
        jMenuItem1.setText("Add New");
        jMenuItem1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jMenuItem1ActionPerformed(evt);
            }
        });
        jMenu1.add(jMenuItem1);
        jMenu1.add(jSeparator1);


jMenuItem2.setAccelerator(javax.swing.KeyStroke.getKeyStroke(java.awt.event.K
eyEvent.VK_Q, java.awt.event.InputEvent.CTRL_DOWN_MASK));
        jMenuItem2.setFont(new java.awt.Font("Segoe UI", 0, 18));
        jMenuItem2.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\Update details.png"));
        jMenuItem2.setText("Update Details");
        jMenuItem2.addActionListener(new java.awt.event.ActionListener() {
```

```
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jMenuItem2ActionPerformed(evt);
            }
        });
        jMenu1.add(jMenuItem2);
        jMenu1.add(jSeparator2);


jMenuItem3.setAccelerator(javax.swing.KeyStroke.getKeyStroke(java.awt.event.K
eyEvent.VK_W, java.awt.event.InputEvent.CTRL_DOWN_MASK));
        jMenuItem3.setFont(new java.awt.Font("Segoe UI", 0, 18));
        jMenuItem3.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\Details.png"));
        jMenuItem3.setText("All Donor Details");
        jMenuItem3.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jMenuItem3ActionPerformed(evt);
            }
        });
        jMenu1.add(jMenuItem3);
        jMenu1.add(jSeparator8);

        jMenuBar1.add(jMenu1);

        jMenu2.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\search user.png"));
        jMenu2.setText("  Search Blood Donor  ");
        jMenu2.setFont(new java.awt.Font("Segoe UI", 0, 18));


jMenuItem4.setAccelerator(javax.swing.KeyStroke.getKeyStroke(java.awt.event.K
eyEvent.VK_L, java.awt.event.InputEvent.ALT_DOWN_MASK));
        jMenuItem4.setFont(new java.awt.Font("Segoe UI", 0, 18));
        jMenuItem4.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\Location.png"));
        jMenuItem4.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jMenuItem4ActionPerformed(evt);
            }
        });
        jMenu2.add(jMenuItem4);
        jMenu2.add(jSeparator3);
```

```
jMenuItem5.setAccelerator(javax.swing.KeyStroke.getKeyStroke(java.awt.event.K
eyEvent.VK_B, java.awt.event.InputEvent.ALT_DOWN_MASK));
        jMenuItem5.setFont(new java.awt.Font("Segoe UI", 0, 18));
        jMenuItem5.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\Blood group.png"));
        jMenuItem5.setText("Blood Group");
        jMenuItem5.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jMenuItem5ActionPerformed(evt);
            }
        });
        jMenu2.add(jMenuItem5);
        jMenu2.add(jSeparator9);

        jMenuBar1.add(jMenu2);

        jMenu3.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\stock.png"));
        jMenu3.setText("   Stock   ");
        jMenu3.setFont(new java.awt.Font("Segoe UI", 0, 18));


jMenuItem6.setAccelerator(javax.swing.KeyStroke.getKeyStroke(java.awt.event.K
eyEvent.VK_I, java.awt.event.InputEvent.SHIFT_DOWN_MASK));
        jMenuItem6.setFont(new java.awt.Font("Segoe UI", 0, 18));
        jMenuItem6.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\Inc.png"));
        jMenuItem6.setText("Increase");
        jMenuItem6.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jMenuItem6ActionPerformed(evt);
            }
        });
        jMenu3.add(jMenuItem6);
        jMenu3.add(jSeparator4);


jMenuItem7.setAccelerator(javax.swing.KeyStroke.getKeyStroke(java.awt.event.K
eyEvent.VK_D, java.awt.event.InputEvent.SHIFT_DOWN_MASK));
        jMenuItem7.setFont(new java.awt.Font("Segoe UI", 0, 18));
```

```
        jMenuItem7.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\Dec.png"));
        jMenuItem7.setText("Decrease");
        jMenuItem7.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jMenuItem7ActionPerformed(evt);
            }
        });
        jMenu3.add(jMenuItem7);
        jMenu3.add(jSeparator5);


jMenuItem8.setAccelerator(javax.swing.KeyStroke.getKeyStroke(java.awt.event.K
eyEvent.VK_Q, java.awt.event.InputEvent.SHIFT_DOWN_MASK));
        jMenuItem8.setFont(new java.awt.Font("Segoe UI", 0, 18));
        jMenuItem8.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\Details.png"));
        jMenuItem8.setText("Details");
        jMenuItem8.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jMenuItem8ActionPerformed(evt);
            }
        });
        jMenu3.add(jMenuItem8);
        jMenu3.add(jSeparator10);

        jMenuBar1.add(jMenu3);

        jMenu4.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\delete donor.png"));
        jMenu4.setText(" Delete Donor");
        jMenu4.setFont(new java.awt.Font("Segoe UI", 0, 18));


jMenuItem9.setAccelerator(javax.swing.KeyStroke.getKeyStroke(java.awt.event.K
eyEvent.VK_D, java.awt.event.InputEvent.CTRL_DOWN_MASK));
        jMenuItem9.setFont(new java.awt.Font("Segoe UI", 0, 18));
        jMenuItem9.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\delete.png"));
        jMenuItem9.setText("Delete Donor");
        jMenuItem9.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
```

```
                jMenuItem9ActionPerformed(evt);
            }
        });
        jMenu4.add(jMenuItem9);
        jMenu4.add(jSeparator11);

        jMenuBar1.add(jMenu4);

        jMenu5.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\exit.png"));
        jMenu5.setText("    Exit    ");
        jMenu5.setFont(new java.awt.Font("Segoe UI", 0, 18));


jMenuItem10.setAccelerator(javax.swing.KeyStroke.getKeyStroke(java.awt.event.
KeyEvent.VK_L, java.awt.event.InputEvent.CTRL_DOWN_MASK));
        jMenuItem10.setFont(new java.awt.Font("Segoe UI", 0, 18));
        jMenuItem10.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\Logout.png"));
        jMenuItem10.setText("Logout");
        jMenuItem10.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jMenuItem10ActionPerformed(evt);
            }
        });
        jMenu5.add(jMenuItem10);
        jMenu5.add(jSeparator6);


jMenuItem11.setAccelerator(javax.swing.KeyStroke.getKeyStroke(java.awt.event.
KeyEvent.VK_E, java.awt.event.InputEvent.CTRL_DOWN_MASK));
        jMenuItem11.setFont(new java.awt.Font("Segoe UI", 0, 18));
        jMenuItem11.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\Exit application.png"));
        jMenuItem11.setText("Exit Application");
        jMenuItem11.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jMenuItem11ActionPerformed(evt);
            }
        });
        jMenu5.add(jMenuItem11);
        jMenu5.add(jSeparator12);
```

```
        jMenuBar1.add(jMenu5);

        setJMenuBar(jMenuBar1);

        pack();
    }

    private void jMenuItem2ActionPerformed(java.awt.event.ActionEvent evt) {
        new updateDetailsDonor().setVisible(true);
    }

    private void jMenuItem10ActionPerformed(java.awt.event.ActionEvent evt) {
        int a=JOptionPane.showConfirmDialog(null, "Do you really want to
logout", "Select", JOptionPane.YES_NO_OPTION);
        if (a==0) {
            setVisible(false);
            new login().setVisible(true);
           }
    }

    private void jMenuItem11ActionPerformed(java.awt.event.ActionEvent evt) {
        int a=JOptionPane.showConfirmDialog(null, "Do you really want to
close application", "Select", JOptionPane.YES_NO_OPTION);
        if (a==0) {
            System.exit(0);
        }
    }

    private void jMenuItem1ActionPerformed(java.awt.event.ActionEvent evt) {
        new addNewDonor().setVisible(true);
    }

    private void jMenu1ActionPerformed(java.awt.event.ActionEvent evt) {

    }

    private void jMenuItem3ActionPerformed(java.awt.event.ActionEvent evt) {
        new allDonorDetails().setVisible(true);
    }

    private void jMenuItem4ActionPerformed(java.awt.event.ActionEvent evt) {
        new searchBloodDonor().setVisible(true);
    }

    private void jMenuItem5ActionPerformed(java.awt.event.ActionEvent evt) {
        new searchBloodDonorBloodGroup().setVisible(true);
```

```
    }

    private void jMenuItem6ActionPerformed(java.awt.event.ActionEvent evt) {
        new stockIncrease().setVisible(true);
    }

    private void jMenuItem7ActionPerformed(java.awt.event.ActionEvent evt) {
        new stockDecrease().setVisible(true);
    }

    private void jMenuItem8ActionPerformed(java.awt.event.ActionEvent evt) {
        new stockDetails().setVisible(true);
    }

    private void jMenuItem9ActionPerformed(java.awt.event.ActionEvent evt) {
        new deleteDonor().setVisible(true);
    }

    public static void main(String args[]) {
        try {
            for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {

javax.swing.UIManager.setLookAndFeel(info.getClassName());
                    break;
                }
            }
        } catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(home.class.getName()).log(java.util.loggin
g.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(home.class.getName()).log(java.util.loggin
g.Level.SEVERE, null, ex);
        } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(home.class.getName()).log(java.util.loggin
g.Level.SEVERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(home.class.getName()).log(java.util.loggin
g.Level.SEVERE, null, ex);
        }
```

```
        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new home().setVisible(true);
            }
        });
    }

    private javax.swing.JLabel jLabel1;
    private javax.swing.JMenu jMenu1;
    private javax.swing.JMenu jMenu2;
    private javax.swing.JMenu jMenu3;
    private javax.swing.JMenu jMenu4;
    private javax.swing.JMenu jMenu5;
    private javax.swing.JMenuBar jMenuBar1;
    private javax.swing.JMenuItem jMenuItem1;
    private javax.swing.JMenuItem jMenuItem10;
    private javax.swing.JMenuItem jMenuItem11;
    private javax.swing.JMenuItem jMenuItem2;
    private javax.swing.JMenuItem jMenuItem3;
    private javax.swing.JMenuItem jMenuItem4;
    private javax.swing.JMenuItem jMenuItem5;
    private javax.swing.JMenuItem jMenuItem6;
    private javax.swing.JMenuItem jMenuItem7;
    private javax.swing.JMenuItem jMenuItem8;
    private javax.swing.JMenuItem jMenuItem9;
    private javax.swing.JPopupMenu.Separator jSeparator1;
    private javax.swing.JPopupMenu.Separator jSeparator10;
    private javax.swing.JPopupMenu.Separator jSeparator11;
    private javax.swing.JPopupMenu.Separator jSeparator12;
    private javax.swing.JPopupMenu.Separator jSeparator2;
    private javax.swing.JPopupMenu.Separator jSeparator3;
    private javax.swing.JPopupMenu.Separator jSeparator4;
    private javax.swing.JPopupMenu.Separator jSeparator5;
    private javax.swing.JPopupMenu.Separator jSeparator6;
    private javax.swing.JSeparator jSeparator7;
    private javax.swing.JPopupMenu.Separator jSeparator8;
    private javax.swing.JPopupMenu.Separator jSeparator9;
}
```

addNewDonor.java

```
import java.sql.*;
import com.mycompany.blood_bank_management_system.ConnectionProvider;
import java.text.*;
```

```
import javax.swing.*;

public class addNewDonor extends javax.swing.JFrame {

    public addNewDonor() {
        initComponents();
    }

    private void initComponents() {

        jLabel1 = new javax.swing.JLabel();
        jSeparator1 = new javax.swing.JSeparator();
        jLabel2 = new javax.swing.JLabel();
        jLabel3 = new javax.swing.JLabel();
        jLabel4 = new javax.swing.JLabel();
        jLabel5 = new javax.swing.JLabel();
        jLabel6 = new javax.swing.JLabel();
        jLabel7 = new javax.swing.JLabel();
        jLabel8 = new javax.swing.JLabel();
        jLabel9 = new javax.swing.JLabel();
        jTextField1 = new javax.swing.JTextField();
        jTextField2 = new javax.swing.JTextField();
        jTextField3 = new javax.swing.JTextField();
        jDateChooser1 = new com.toedter.calendar.JDateChooser();
        jTextField4 = new javax.swing.JTextField();
        jComboBox1 = new javax.swing.JComboBox<>();
        jLabel10 = new javax.swing.JLabel();
        jLabel11 = new javax.swing.JLabel();
        jLabel12 = new javax.swing.JLabel();
        jLabel13 = new javax.swing.JLabel();
        jTextField5 = new javax.swing.JTextField();
        jTextField6 = new javax.swing.JTextField();
        jComboBox2 = new javax.swing.JComboBox<>();
        jScrollPane1 = new javax.swing.JScrollPane();
        jTextArea1 = new javax.swing.JTextArea();
        jSeparator2 = new javax.swing.JSeparator();
        jButton1 = new javax.swing.JButton();
        jButton2 = new javax.swing.JButton();
        jButton3 = new javax.swing.JButton();
        jLabel14 = new javax.swing.JLabel();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        setLocation(new java.awt.Point(400, 180));
        setUndecorated(true);
        addComponentListener(new java.awt.event.ComponentAdapter() {
            public void componentShown(java.awt.event.ComponentEvent evt) {
```

```
                formComponentShown(evt);
            }
        });
        getContentPane().setLayout(new
org.netbeans.lib.awtextra.AbsoluteLayout());

        jLabel1.setFont(new java.awt.Font("Broadway", 0, 36));
        jLabel1.setText("Add New Donor");
        getContentPane().add(jLabel1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(210, 30, 309, -1));
        getContentPane().add(jSeparator1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 73, 700, 10));

        jLabel2.setFont(new java.awt.Font("Tahoma", 1, 14));
        jLabel2.setText("New Donor ID");
        getContentPane().add(jLabel2, new
org.netbeans.lib.awtextra.AbsoluteConstraints(17, 129, 112, -1));

        jLabel3.setFont(new java.awt.Font("Tahoma", 1, 18));
        jLabel3.setForeground(new java.awt.Color(255, 51, 51));
        getContentPane().add(jLabel3, new
org.netbeans.lib.awtextra.AbsoluteConstraints(147, 129, 159, -1));

        jLabel4.setFont(new java.awt.Font("Tahoma", 1, 14));
        jLabel4.setText("Full Name");
        getContentPane().add(jLabel4, new
org.netbeans.lib.awtextra.AbsoluteConstraints(17, 175, 139, -1));

        jLabel5.setFont(new java.awt.Font("Tahoma", 1, 14));
        jLabel5.setText("Father Name");
        getContentPane().add(jLabel5, new
org.netbeans.lib.awtextra.AbsoluteConstraints(17, 216, 98, -1));

        jLabel6.setFont(new java.awt.Font("Tahoma", 1, 14));
        jLabel6.setText("Mother Name");
        getContentPane().add(jLabel6, new
org.netbeans.lib.awtextra.AbsoluteConstraints(17, 261, -1, -1));

        jLabel7.setFont(new java.awt.Font("Tahoma", 1, 14));
        jLabel7.setText("Date of Birth");
        getContentPane().add(jLabel7, new
org.netbeans.lib.awtextra.AbsoluteConstraints(17, 302, 98, -1));

        jLabel8.setFont(new java.awt.Font("Tahoma", 1, 14));
        jLabel8.setText("Mobile No");
```

```
        getContentPane().add(jLabel8, new
org.netbeans.lib.awtextra.AbsoluteConstraints(17, 358, 98, -1));

        jLabel9.setFont(new java.awt.Font("Tahoma", 1, 14));
        jLabel9.setText("Gender");
        getContentPane().add(jLabel9, new
org.netbeans.lib.awtextra.AbsoluteConstraints(17, 399, 98, -1));

        jTextField1.setFont(new java.awt.Font("Tahoma", 1, 14));
        getContentPane().add(jTextField1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(146, 172, 160, -1));

        jTextField2.setFont(new java.awt.Font("Tahoma", 1, 14));
        getContentPane().add(jTextField2, new
org.netbeans.lib.awtextra.AbsoluteConstraints(146, 213, 160, -1));

        jTextField3.setFont(new java.awt.Font("Tahoma", 1, 14));
        getContentPane().add(jTextField3, new
org.netbeans.lib.awtextra.AbsoluteConstraints(146, 261, 160, -1));

        jDateChooser1.setFont(new java.awt.Font("Tahoma", 1, 14));
        getContentPane().add(jDateChooser1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(146, 315, 160, -1));

        jTextField4.setFont(new java.awt.Font("Tahoma", 1, 14));
        getContentPane().add(jTextField4, new
org.netbeans.lib.awtextra.AbsoluteConstraints(146, 355, 160, -1));

        jComboBox1.setFont(new java.awt.Font("Tahoma", 1, 14));
        jComboBox1.setModel(new javax.swing.DefaultComboBoxModel<>(new
String[] { "Male", "Female", "Others" }));
        getContentPane().add(jComboBox1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(146, 396, 160, -1));

        jLabel10.setFont(new java.awt.Font("Tahoma", 1, 14));
        jLabel10.setText("Email");
        getContentPane().add(jLabel10, new
org.netbeans.lib.awtextra.AbsoluteConstraints(368, 175, 43, -1));

        jLabel11.setFont(new java.awt.Font("Tahoma", 1, 14));
        jLabel11.setText("Blood Group");
        getContentPane().add(jLabel11, new
org.netbeans.lib.awtextra.AbsoluteConstraints(368, 216, -1, -1));

        jLabel12.setFont(new java.awt.Font("Tahoma", 1, 14));
        jLabel12.setText("City");
```

```
        getContentPane().add(jLabel12, new
org.netbeans.lib.awtextra.AbsoluteConstraints(368, 264, 43, -1));

        jLabel13.setFont(new java.awt.Font("Tahoma", 1, 14));
        jLabel13.setText("Complete Address");
        getContentPane().add(jLabel13, new
org.netbeans.lib.awtextra.AbsoluteConstraints(368, 302, -1, -1));

        jTextField5.setFont(new java.awt.Font("Tahoma", 1, 14));
        getContentPane().add(jTextField5, new
org.netbeans.lib.awtextra.AbsoluteConstraints(518, 172, 160, -1));

        jTextField6.setFont(new java.awt.Font("Tahoma", 1, 14));
        getContentPane().add(jTextField6, new
org.netbeans.lib.awtextra.AbsoluteConstraints(518, 261, 160, -1));

        jComboBox2.setFont(new java.awt.Font("Tahoma", 1, 14));
        jComboBox2.setModel(new javax.swing.DefaultComboBoxModel<>(new
String[] { "A+", "A-", "B+", "B-", "O+", "O-", "AB+", "AB-" }));
        jComboBox2.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jComboBox2ActionPerformed(evt);
            }
        });
        getContentPane().add(jComboBox2, new
org.netbeans.lib.awtextra.AbsoluteConstraints(518, 213, 160, -1));

        jTextArea1.setColumns(20);
        jTextArea1.setFont(new java.awt.Font("Tahoma", 1, 14));
        jTextArea1.setRows(5);
        jScrollPane1.setViewportView(jTextArea1);

        getContentPane().add(jScrollPane1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(518, 302, 170, -1));
        getContentPane().add(jSeparator2, new
org.netbeans.lib.awtextra.AbsoluteConstraints(6, 431, 694, 10));

        jButton1.setFont(new java.awt.Font("Tahoma", 1, 14));
        jButton1.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\save.png"));
        jButton1.setText("Save");
        jButton1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton1ActionPerformed(evt);
            }
```

```
        });
        getContentPane().add(jButton1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(150, 450, -1, -1));

        jButton2.setFont(new java.awt.Font("Tahoma", 1, 14));
        jButton2.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\Update details.png"));
        jButton2.setText("Reset");
        jButton2.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton2ActionPerformed(evt);
            }
        });
        getContentPane().add(jButton2, new
org.netbeans.lib.awtextra.AbsoluteConstraints(310, 450, -1, -1));

        jButton3.setFont(new java.awt.Font("Tahoma", 1, 14));
        jButton3.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\Exit application.png"));
        jButton3.setText("Close");
        jButton3.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton3ActionPerformed(evt);
            }
        });
        getContentPane().add(jButton3, new
org.netbeans.lib.awtextra.AbsoluteConstraints(470, 450, -1, -1));

        jLabel14.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\hand to hand.jpg"));
        jLabel14.setText("jLabel14");
        getContentPane().add(jLabel14, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, 700, 500));

        pack();
    }

    private void formComponentShown(java.awt.event.ComponentEvent evt) {

        try{
            Connection con= ConnectionProvider.getCon();
```

```
            Statement st=
con.createStatement(ResultSet.TYPE_SCROLL_INSENSITIVE,
ResultSet.CONCUR_READ_ONLY);
            ResultSet rs= st.executeQuery("select max(donorId) from donor");
            if (rs.first())
            {
                int id= rs.getInt(1);
                id= id+1;
                String str= String.valueOf(id);
                jLabel3.setText(str);
            }
            else
                jLabel3.setText("1");
        }
        catch (Exception e) {
            JOptionPane.showMessageDialog(null, e);
        }
    }

    private void jComboBox2ActionPerformed(java.awt.event.ActionEvent evt){}

    private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
        setVisible(false);
    }

    private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
        setVisible(false);
        new addNewDonor().setVisible(true);
    }

    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

        String donorId= jLabel3.getText();
        String name= jTextField1.getText();
        String fatherName= jTextField2.getText();
        String motherName= 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();

        try{
```

```
            Connection con= ConnectionProvider.getCon();
            Statement st= con.createStatement();
            st.executeUpdate("insert into donor values('"+donorId+"',
'"+name+"', '"+fatherName+"', '"+motherName+"', '"+DOB+"', '"+MobileNo+"',
'"+gender+"', '"+email+"', '"+bloodGroup+"', '"+city+"', '"+address+"')");
            JOptionPane.showMessageDialog(null, "Successfully updated");
            setVisible(false);
            new addNewDonor().setVisible(true);
        }
        catch (Exception e) {
            JOptionPane.showMessageDialog(null, e);
        }
    }


    public static void main(String args[]) {
        try {
            for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {

javax.swing.UIManager.setLookAndFeel(info.getClassName());
                    break;
                }
            }
        } catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(addNewDonor.class.getName()).log(java.util
.logging.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(addNewDonor.class.getName()).log(java.util
.logging.Level.SEVERE, null, ex);
        } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(addNewDonor.class.getName()).log(java.util
.logging.Level.SEVERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(addNewDonor.class.getName()).log(java.util
.logging.Level.SEVERE, null, ex);
        }

        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new addNewDonor().setVisible(true);
```

```
            }
        });
    }

    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton2;
    private javax.swing.JButton jButton3;
    private javax.swing.JComboBox<String> jComboBox1;
    private javax.swing.JComboBox<String> jComboBox2;
    private com.toedter.calendar.JDateChooser jDateChooser1;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel10;
    private javax.swing.JLabel jLabel11;
    private javax.swing.JLabel jLabel12;
    private javax.swing.JLabel jLabel13;
    private javax.swing.JLabel jLabel14;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JLabel jLabel4;
    private javax.swing.JLabel jLabel5;
    private javax.swing.JLabel jLabel6;
    private javax.swing.JLabel jLabel7;
    private javax.swing.JLabel jLabel8;
    private javax.swing.JLabel jLabel9;
    private javax.swing.JScrollPane jScrollPane1;
    private javax.swing.JSeparator jSeparator1;
    private javax.swing.JSeparator jSeparator2;
    private javax.swing.JTextArea jTextArea1;
    private javax.swing.JTextField jTextField1;
    private javax.swing.JTextField jTextField2;
    private javax.swing.JTextField jTextField3;
    private javax.swing.JTextField jTextField4;
    private javax.swing.JTextField jTextField5;
    private javax.swing.JTextField jTextField6;
}
```

updateDetailsDonor.java

```
import java.sql.*;
import com.mycompany.blood_bank_management_system.ConnectionProvider;
import javax.swing.JOptionPane;

public class updateDetailsDonor extends javax.swing.JFrame {
    public updateDetailsDonor() {
        initComponents();
    }
```

```
    private void initComponents() {

        jLabel13 = new javax.swing.JLabel();
        jLabel1 = new javax.swing.JLabel();
        jSeparator1 = new javax.swing.JSeparator();
        jLabel2 = new javax.swing.JLabel();
        jButton1 = new javax.swing.JButton();
        jTextField2 = new javax.swing.JTextField();
        jSeparator2 = new javax.swing.JSeparator();
        jLabel3 = new javax.swing.JLabel();
        jLabel4 = new javax.swing.JLabel();
        jLabel5 = new javax.swing.JLabel();
        jLabel6 = new javax.swing.JLabel();
        jLabel7 = new javax.swing.JLabel();
        jLabel8 = new javax.swing.JLabel();
        jTextField1 = new javax.swing.JTextField();
        jTextField3 = new javax.swing.JTextField();
        jTextField4 = new javax.swing.JTextField();
        jTextField5 = new javax.swing.JTextField();
        jTextField6 = new javax.swing.JTextField();
        jTextField7 = new javax.swing.JTextField();
        jLabel9 = new javax.swing.JLabel();
        jLabel10 = new javax.swing.JLabel();
        jLabel11 = new javax.swing.JLabel();
        jLabel12 = new javax.swing.JLabel();
        jTextField8 = new javax.swing.JTextField();
        jTextField9 = new javax.swing.JTextField();
        jTextField10 = new javax.swing.JTextField();
        jScrollPane1 = new javax.swing.JScrollPane();
        jTextArea1 = new javax.swing.JTextArea();
        jSeparator4 = new javax.swing.JSeparator();
        jButton2 = new javax.swing.JButton();
        jButton3 = new javax.swing.JButton();
        jButton4 = new javax.swing.JButton();
        jLabel14 = new javax.swing.JLabel();

        jLabel13.setText("jLabel13");

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        setLocation(new java.awt.Point(400, 180));
        setUndecorated(true);
        getContentPane().setLayout(new
org.netbeans.lib.awtextra.AbsoluteLayout());

        jLabel1.setFont(new java.awt.Font("Broadway", 0, 36));
```

```
        jLabel1.setText("Update Donor Details");
        getContentPane().add(jLabel1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(120, 20, 419, -1));
        getContentPane().add(jSeparator1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 71, 728, -1));

        jLabel2.setFont(new java.awt.Font("Tahoma", 1, 14));
        jLabel2.setText("Donor ID:");
        getContentPane().add(jLabel2, new
org.netbeans.lib.awtextra.AbsoluteConstraints(140, 90, 80, 20));

        jButton1.setFont(new java.awt.Font("Tahoma", 1, 14));
        jButton1.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\search1.png"));
        jButton1.setText("Search");
        jButton1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton1ActionPerformed(evt);
            }
        });
        getContentPane().add(jButton1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(400, 90, -1, 30));

        jTextField2.setFont(new java.awt.Font("Tahoma", 1, 14));
        jTextField2.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jTextField2ActionPerformed(evt);
            }
        });
        getContentPane().add(jTextField2, new
org.netbeans.lib.awtextra.AbsoluteConstraints(230, 90, 145, -1));
        getContentPane().add(jSeparator2, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 410, 700, 0));

        jLabel3.setFont(new java.awt.Font("Tahoma", 1, 14));
        jLabel3.setText("Full Name");
        getContentPane().add(jLabel3, new
org.netbeans.lib.awtextra.AbsoluteConstraints(40, 170, 98, -1));

        jLabel4.setFont(new java.awt.Font("Tahoma", 1, 14));
        jLabel4.setText("Father Name");
        getContentPane().add(jLabel4, new
org.netbeans.lib.awtextra.AbsoluteConstraints(40, 210, 98, -1));

        jLabel5.setFont(new java.awt.Font("Tahoma", 1, 14));
```

```
        jLabel5.setText("Mother Name");
        getContentPane().add(jLabel5, new
org.netbeans.lib.awtextra.AbsoluteConstraints(40, 250, -1, -1));

        jLabel6.setFont(new java.awt.Font("Tahoma", 1, 14));
        jLabel6.setText("Date of Birth");
        getContentPane().add(jLabel6, new
org.netbeans.lib.awtextra.AbsoluteConstraints(40, 290, 98, -1));

        jLabel7.setFont(new java.awt.Font("Tahoma", 1, 14));
        jLabel7.setText("Mobile No");
        getContentPane().add(jLabel7, new
org.netbeans.lib.awtextra.AbsoluteConstraints(40, 330, 98, -1));

        jLabel8.setFont(new java.awt.Font("Tahoma", 1, 14));
        jLabel8.setText("Gender");
        getContentPane().add(jLabel8, new
org.netbeans.lib.awtextra.AbsoluteConstraints(40, 370, 98, -1));

        jTextField1.setFont(new java.awt.Font("Tahoma", 1, 14));
        getContentPane().add(jTextField1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(160, 170, 150, -1));

        jTextField3.setFont(new java.awt.Font("Tahoma", 1, 14));
        getContentPane().add(jTextField3, new
org.netbeans.lib.awtextra.AbsoluteConstraints(160, 210, 150, -1));

        jTextField4.setFont(new java.awt.Font("Tahoma", 1, 14));
        jTextField4.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jTextField4ActionPerformed(evt);
            }
        });
        getContentPane().add(jTextField4, new
org.netbeans.lib.awtextra.AbsoluteConstraints(160, 250, 150, -1));

        jTextField5.setFont(new java.awt.Font("Tahoma", 1, 14));
        jTextField5.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jTextField5ActionPerformed(evt);
            }
        });
        getContentPane().add(jTextField5, new
org.netbeans.lib.awtextra.AbsoluteConstraints(160, 290, 150, -1));

        jTextField6.setFont(new java.awt.Font("Tahoma", 1, 14));
```

```
        jTextField6.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jTextField6ActionPerformed(evt);
            }
        });
        getContentPane().add(jTextField6, new
org.netbeans.lib.awtextra.AbsoluteConstraints(160, 330, 150, -1));

        jTextField7.setFont(new java.awt.Font("Tahoma", 1, 14));
        getContentPane().add(jTextField7, new
org.netbeans.lib.awtextra.AbsoluteConstraints(160, 370, 150, -1));

        jLabel9.setFont(new java.awt.Font("Tahoma", 1, 14));
        jLabel9.setText("Email");
        getContentPane().add(jLabel9, new
org.netbeans.lib.awtextra.AbsoluteConstraints(370, 170, 88, -1));

        jLabel10.setFont(new java.awt.Font("Tahoma", 1, 14));
        jLabel10.setText("Blood Group");
        getContentPane().add(jLabel10, new
org.netbeans.lib.awtextra.AbsoluteConstraints(370, 210, -1, -1));

        jLabel11.setFont(new java.awt.Font("Tahoma", 1, 14));
        jLabel11.setText("City");
        getContentPane().add(jLabel11, new
org.netbeans.lib.awtextra.AbsoluteConstraints(370, 250, 88, -1));

        jLabel12.setFont(new java.awt.Font("Tahoma", 1, 14));
        jLabel12.setText("Complete Address");
        getContentPane().add(jLabel12, new
org.netbeans.lib.awtextra.AbsoluteConstraints(370, 290, 132, -1));

        jTextField8.setFont(new java.awt.Font("Tahoma", 1, 14));
        jTextField8.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jTextField8ActionPerformed(evt);
            }
        });
        getContentPane().add(jTextField8, new
org.netbeans.lib.awtextra.AbsoluteConstraints(510, 170, 150, -1));

        jTextField9.setFont(new java.awt.Font("Tahoma", 1, 14));
        getContentPane().add(jTextField9, new
org.netbeans.lib.awtextra.AbsoluteConstraints(510, 210, 150, -1));

        jTextField10.setFont(new java.awt.Font("Tahoma", 1, 14));
```

```
        getContentPane().add(jTextField10, new
org.netbeans.lib.awtextra.AbsoluteConstraints(510, 250, 150, -1));

        jTextArea1.setColumns(20);
        jTextArea1.setFont(new java.awt.Font("Tahoma", 1, 14));
        jTextArea1.setRows(5);
        jScrollPane1.setViewportView(jTextArea1);

        getContentPane().add(jScrollPane1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(510, 290, 150, -1));
        getContentPane().add(jSeparator4, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 409, 700, 0));

        jButton2.setFont(new java.awt.Font("Tahoma", 1, 14));
        jButton2.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\Update details.png"));
        jButton2.setText("Reset");
        jButton2.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton2ActionPerformed(evt);
            }
        });
        getContentPane().add(jButton2, new
org.netbeans.lib.awtextra.AbsoluteConstraints(320, 440, -1, -1));

        jButton3.setFont(new java.awt.Font("Tahoma", 1, 14));
        jButton3.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\save.png"));
        jButton3.setText("Update");
        jButton3.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton3ActionPerformed(evt);
            }
        });
        getContentPane().add(jButton3, new
org.netbeans.lib.awtextra.AbsoluteConstraints(110, 440, -1, -1));

        jButton4.setFont(new java.awt.Font("Tahoma", 1, 14));
        jButton4.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\Exit application.png"));
        jButton4.setText("Close");
        jButton4.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
```

```
                jButton4ActionPerformed(evt);
            }
        });
        getContentPane().add(jButton4, new
org.netbeans.lib.awtextra.AbsoluteConstraints(510, 440, -1, -1));

        jLabel14.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\hand to hand.jpg"));
        jLabel14.setText("jLabel14");
        getContentPane().add(jLabel14, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, 700, -1));

        pack();
    }

    private void jTextField4ActionPerformed(java.awt.event.ActionEvent evt) {
    }

    private void jTextField5ActionPerformed(java.awt.event.ActionEvent evt) {
    }

    private void jTextField6ActionPerformed(java.awt.event.ActionEvent evt) {
    }

    private void jTextField8ActionPerformed(java.awt.event.ActionEvent evt) {
    }

    private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
        setVisible(false);
        new updateDetailsDonor().setVisible(true);
    }

    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
        String donorId= jTextField2.getText();
        try {
            Connection con= ConnectionProvider.getCon();
            Statement st= con.createStatement();
            ResultSet rs= st.executeQuery("Select * from donor where
donorId='"+donorId+"'");
            if (rs.next()) {
                jTextField1.setText(rs.getString(2));
                jTextField3.setText(rs.getString(3));
                jTextField4.setText(rs.getString(4));
                jTextField5.setText(rs.getString(5));
                jTextField6.setText(rs.getString(6));
```

```
                jTextField7.setText(rs.getString(7));
                jTextField8.setText(rs.getString(8));
                jTextField9.setText(rs.getString(9));
                jTextField10.setText(rs.getString(10));
                jTextArea1.setText(rs.getString(11));
                jTextField2.setEditable(false);
            }
            else
                JOptionPane.showMessageDialog(null, "DonorId does not
Exist");
        }
        catch(Exception e) {}
    }

    private void jTextField2ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
    }

    private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        setVisible(false);
    }

    private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        String donorId= jTextField2.getText();
        String name= jTextField1.getText();
        String fatherName= jTextField3.getText();
        String motherName= jTextField4.getText();
        String DOB= jTextField5.getText();
        String mobileNo= jTextField6.getText();
        String gender= jTextField7.getText();
        String email= jTextField8.getText();
        String bloodGroup= jTextField9.getText();
        String city= jTextField10.getText();
        String address= jTextArea1.getText();
        try {
            Connection con= ConnectionProvider.getCon();
            Statement st= con.createStatement();
            st.executeUpdate("update donor set name='"+name+"',
fatherName='"+fatherName+"', motherName='"+motherName+"', DOB='"+DOB+"',
mobileNo='"+mobileNo+"', gender='"+gender+"', email='"+email+"',
bloodGroup='"+bloodGroup+"', city='"+city+"', address='"+address+"' where
donorId='"+donorId+"'");
            JOptionPane.showMessageDialog(null, "Successfully Updated");
            setVisible(false);
```

```
            new updateDetailsDonor().setVisible(true);
        }
        catch (Exception e) {
            JOptionPane.showMessageDialog(null, "Connection Error");
        }
    }

    public static void main(String args[]) {
        try {
            for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {

javax.swing.UIManager.setLookAndFeel(info.getClassName());
                    break;
                }
            }
        } catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(updateDetailsDonor.class.getName()).log(ja
va.util.logging.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(updateDetailsDonor.class.getName()).log(ja
va.util.logging.Level.SEVERE, null, ex);
        } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(updateDetailsDonor.class.getName()).log(ja
va.util.logging.Level.SEVERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(updateDetailsDonor.class.getName()).log(ja
va.util.logging.Level.SEVERE, null, ex);
        }

        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new updateDetailsDonor().setVisible(true);
            }
        });
    }

    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton2;
    private javax.swing.JButton jButton3;
    private javax.swing.JButton jButton4;
```

```
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel10;
    private javax.swing.JLabel jLabel11;
    private javax.swing.JLabel jLabel12;
    private javax.swing.JLabel jLabel13;
    private javax.swing.JLabel jLabel14;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JLabel jLabel4;
    private javax.swing.JLabel jLabel5;
    private javax.swing.JLabel jLabel6;
    private javax.swing.JLabel jLabel7;
    private javax.swing.JLabel jLabel8;
    private javax.swing.JLabel jLabel9;
    private javax.swing.JScrollPane jScrollPane1;
    private javax.swing.JSeparator jSeparator1;
    private javax.swing.JSeparator jSeparator2;
    private javax.swing.JSeparator jSeparator4;
    private javax.swing.JTextArea jTextArea1;
    private javax.swing.JTextField jTextField1;
    private javax.swing.JTextField jTextField10;
    private javax.swing.JTextField jTextField2;
    private javax.swing.JTextField jTextField3;
    private javax.swing.JTextField jTextField4;
    private javax.swing.JTextField jTextField5;
    private javax.swing.JTextField jTextField6;
    private javax.swing.JTextField jTextField7;
    private javax.swing.JTextField jTextField8;
    private javax.swing.JTextField jTextField9;
}
```

allDonorDetails.java

```
import java.sql.*;
import com.mycompany.blood_bank_management_system.ConnectionProvider;
import javax.swing.JOptionPane;
import javax.swing.JTable;
import net.proteanit.sql.DbUtils;

public class allDonorDetails extends javax.swing.JFrame {

    public allDonorDetails() {
        initComponents();
    }

    private void initComponents() {
```

```
        jLabel1 = new javax.swing.JLabel();
        jSeparator1 = new javax.swing.JSeparator();
        jProgressBar1 = new javax.swing.JProgressBar();
        jScrollPane1 = new javax.swing.JScrollPane();
        jTable1 = new javax.swing.JTable();
        jSeparator2 = new javax.swing.JSeparator();
        jButton1 = new javax.swing.JButton();
        jButton3 = new javax.swing.JButton();
        jLabel2 = new javax.swing.JLabel();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        setLocation(new java.awt.Point(400, 180));
        setUndecorated(true);
        addComponentListener(new java.awt.event.ComponentAdapter() {
            public void componentShown(java.awt.event.ComponentEvent evt) {
                formComponentShown(evt);
            }
        });
        getContentPane().setLayout(new
org.netbeans.lib.awtextra.AbsoluteLayout());

        jLabel1.setFont(new java.awt.Font("Broadway", 0, 36));
        jLabel1.setText("All Donor Details");
        getContentPane().add(jLabel1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(180, 20, 330, -1));
        getContentPane().add(jSeparator1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 68, 707, 10));
        getContentPane().add(jProgressBar1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 423, 707, 0));

        jTable1.setModel(new javax.swing.table.DefaultTableModel(
            new Object [][] {
                {null, null, null, null, null, null, null, null, null, null,
null},
                {null, null, null, null, null, null, null, null, null, null,
null},
                {null, null, null, null, null, null, null, null, null, null,
null},
                {null, null, null, null, null, null, null, null, null, null,
null}
            },
            new String [] {
                "Donor ID", "Name", "Father's Name", "Mother's Name", "DOB",
"Mobile No", "Gender", "Email", "Blood Group", "City", "Address"
            }
```

```
        ));
        jScrollPane1.setViewportView(jTable1);

        getContentPane().add(jScrollPane1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(10, 91, 680, 310));
        getContentPane().add(jSeparator2, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 407, 707, 0));

        jButton1.setFont(new java.awt.Font("Tahoma", 1, 14));
        jButton1.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\print.png"));
        jButton1.setText("Print");
        jButton1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton1ActionPerformed(evt);
            }
        });
        getContentPane().add(jButton1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(10, 447, -1, 30));

        jButton3.setFont(new java.awt.Font("Tahoma", 1, 14));
        jButton3.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\Exit application.png"));
        jButton3.setText("Close");
        jButton3.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton3ActionPerformed(evt);
            }
        });
        getContentPane().add(jButton3, new
org.netbeans.lib.awtextra.AbsoluteConstraints(600, 445, -1, 30));

        jLabel2.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\hand to hand.jpg"));
        jLabel2.setText("jLabel2");
        getContentPane().add(jLabel2, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, 700, 500));

        pack();
    }

    private void formComponentShown(java.awt.event.ComponentEvent evt) {
        try {
```

```
            Connection con= ConnectionProvider.getCon();
            Statement st= con.createStatement();
            ResultSet rs= st.executeQuery("Select * from donor");
            jTable1.setAutoResizeMode(jTable1.AUTO_RESIZE_OFF);
            jTable1.setModel(DbUtils.resultSetToTableModel(rs));
        }
        catch (Exception e) {
            JOptionPane.showMessageDialog(null, e);
        }
    }

    private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
        setVisible(false);
    }

    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
        try {
            jTable1.print(javax.swing.JTable.PrintMode.NORMAL);
        }
        catch (Exception e) {
            JOptionPane.showMessageDialog(null,e);
        }
    }

    public static void main(String args[]) {
        try {
            for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {

javax.swing.UIManager.setLookAndFeel(info.getClassName());
                    break;
                }
            }
        } catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(allDonorDetails.class.getName()).log(java.
util.logging.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(allDonorDetails.class.getName()).log(java.
util.logging.Level.SEVERE, null, ex);
        } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(allDonorDetails.class.getName()).log(java.
util.logging.Level.SEVERE, null, ex);
```

```
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(allDonorDetails.class.getName()).log(java.
util.logging.Level.SEVERE, null, ex);
        }



        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new allDonorDetails().setVisible(true);
            }
        });
    }
    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton3;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JProgressBar jProgressBar1;
    private javax.swing.JScrollPane jScrollPane1;
    private javax.swing.JSeparator jSeparator1;
    private javax.swing.JSeparator jSeparator2;
    private javax.swing.JTable jTable1;
}
```

searchBloodDonor.java

```
import javax.swing.JFrame;
import java.sql.*;
import com.mycompany.blood_bank_management_system.ConnectionProvider;
import javax.swing.JOptionPane;
import net.proteanit.sql.DbUtils;

    public searchBloodDonor() {
        initComponents();
    }

    private void initComponents() {

        jLabel1 = new javax.swing.JLabel();
        jSeparator1 = new javax.swing.JSeparator();
        jLabel2 = new javax.swing.JLabel();
        jTextField1 = new javax.swing.JTextField();
        jSeparator2 = new javax.swing.JSeparator();
        jScrollPane1 = new javax.swing.JScrollPane();
        jTable1 = new javax.swing.JTable();
```

```
        jSeparator3 = new javax.swing.JSeparator();
        jButton1 = new javax.swing.JButton();
        jButton2 = new javax.swing.JButton();
        jLabel4 = new javax.swing.JLabel();
        jLabel5 = new javax.swing.JLabel();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        setLocation(new java.awt.Point(400, 180));
        setUndecorated(true);
        getContentPane().setLayout(new
org.netbeans.lib.awtextra.AbsoluteLayout());

        jLabel1.setFont(new java.awt.Font("Broadway", 0, 36));
        jLabel1.setText("Search Blood Donor");
        getContentPane().add(jLabel1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(160, 10, -1, -1));
        getContentPane().add(jSeparator1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 71, 700, -1));

        jLabel2.setFont(new java.awt.Font("Tahoma", 1, 14));
        jLabel2.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\Location.png"));
        jLabel2.setText("Address/ Location");
        getContentPane().add(jLabel2, new
org.netbeans.lib.awtextra.AbsoluteConstraints(190, 90, 160, -1));

        jTextField1.setFont(new java.awt.Font("Tahoma", 1, 14));
        jTextField1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jTextField1ActionPerformed(evt);
            }
        });
        jTextField1.addKeyListener(new java.awt.event.KeyAdapter() {
            public void keyReleased(java.awt.event.KeyEvent evt) {
                jTextField1KeyReleased(evt);
            }
        });
        getContentPane().add(jTextField1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(360, 90, 150, -1));
        getContentPane().add(jSeparator2, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 127, 700, -1));

        jTable1.setModel(new javax.swing.table.DefaultTableModel(
            new Object [][] {
```

```
                {null, null, null, null, null, null, null, null, null, null,
null},
                {null, null, null, null, null, null, null, null, null, null,
null},
                {null, null, null, null, null, null, null, null, null, null,
null},
                {null, null, null, null, null, null, null, null, null, null,
null}
            },
            new String [] {
                "DonorID", "Name", "FatherName", "MotherName", "DOB",
"MobileNo", "Gender", "Email", "BloodGroup", "City", "Address"
            }
        ));
        jScrollPane1.setViewportView(jTable1);

        getContentPane().add(jScrollPane1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(6, 148, 688, 262));
        getContentPane().add(jSeparator3, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 422, 694, -1));

        jButton1.setFont(new java.awt.Font("Tahoma", 1, 14));
        jButton1.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\print.png"));
        jButton1.setText("Print");
        jButton1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton1ActionPerformed(evt);
            }
        });
        getContentPane().add(jButton1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(6, 437, -1, -1));

        jButton2.setFont(new java.awt.Font("Tahoma", 1, 14));
        jButton2.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\Exit application.png"));
        jButton2.setText("Close");
        jButton2.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton2ActionPerformed(evt);
            }
        });
        getContentPane().add(jButton2, new
org.netbeans.lib.awtextra.AbsoluteConstraints(602, 437, -1, -1));
```

```
        jLabel4.setFont(new java.awt.Font("Berlin Sans FB Demi", 0, 18));
        jLabel4.setText("[by location/ address]");
        getContentPane().add(jLabel4, new
org.netbeans.lib.awtextra.AbsoluteConstraints(270, 40, -1, 30));

        jLabel5.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\hand to hand.jpg"));
        jLabel5.setText("jLabel5");
        getContentPane().add(jLabel5, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, 700, -1));

        pack();
    }

    private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
    }

    private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        setVisible(false);
    }

    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        try {
            jTable1.print(javax.swing.JTable.PrintMode.NORMAL);
        }
        catch (Exception e) {
            JOptionPane.showMessageDialog(null,e);
        }
    }

    private void jTextField1KeyReleased(java.awt.event.KeyEvent evt) {
        // TODO add your handling code here:
        String location=jTextField1.getText();
        try {
        Connection con= ConnectionProvider.getCon();
        Statement st= con.createStatement();
        ResultSet rs= st.executeQuery("Select * from donor where city like
'%"+location+"%' or address like '%"+location+"%'");
            jTable1.setAutoResizeMode(jTable1.AUTO_RESIZE_OFF);
            jTable1.setModel(DbUtils.resultSetToTableModel(rs));
        }
```

```
        catch (Exception e) {
            JOptionPane.showMessageDialog(null, e);
        }
    }

    public static void main(String args[]) {
        try {
            for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {

javax.swing.UIManager.setLookAndFeel(info.getClassName());
                    break;
                }
            }
        } catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(searchBloodDonor.class.getName()).log(java
.util.logging.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(searchBloodDonor.class.getName()).log(java
.util.logging.Level.SEVERE, null, ex);
        } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(searchBloodDonor.class.getName()).log(java
.util.logging.Level.SEVERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(searchBloodDonor.class.getName()).log(java
.util.logging.Level.SEVERE, null, ex);
        }

        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new searchBloodDonor().setVisible(true);
            }
        });
    }
    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton2;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel4;
    private javax.swing.JLabel jLabel5;
    private javax.swing.JScrollPane jScrollPane1;
```

```
    private javax.swing.JSeparator jSeparator1;
    private javax.swing.JSeparator jSeparator2;
    private javax.swing.JSeparator jSeparator3;
    private javax.swing.JTable jTable1;
    private javax.swing.JTextField jTextField1;
}
```

searchBloodDonorBloodGroup

```
import javax.swing.JTable;
import java.sql.*;
import com.mycompany.blood_bank_management_system.ConnectionProvider;
import javax.swing.JOptionPane;
import net.proteanit.sql.DbUtils;
public class searchBloodDonorBloodGroup extends javax.swing.JFrame {
    public searchBloodDonorBloodGroup() {
        initComponents();
    }
    private void initComponents() {

        jSeparator3 = new javax.swing.JSeparator();
        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        jSeparator1 = new javax.swing.JSeparator();
        jLabel3 = new javax.swing.JLabel();
        jTextField1 = new javax.swing.JTextField();
        jSeparator2 = new javax.swing.JSeparator();
        jScrollPane1 = new javax.swing.JScrollPane();
        jTable1 = new javax.swing.JTable();
        jSeparator4 = new javax.swing.JSeparator();
        jButton1 = new javax.swing.JButton();
        jButton2 = new javax.swing.JButton();
        jLabel4 = new javax.swing.JLabel();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        setLocation(new java.awt.Point(400, 180));
        setUndecorated(true);
        getContentPane().setLayout(new
org.netbeans.lib.awtextra.AbsoluteLayout());

        jLabel1.setFont(new java.awt.Font("Broadway", 0, 36));
        jLabel1.setText("Search Blood Donor");
        getContentPane().add(jLabel1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(169, 6, -1, -1));

        jLabel2.setFont(new java.awt.Font("Berlin Sans FB Demi", 0, 18));
```

```
        jLabel2.setText("[by Blood Group]");
        getContentPane().add(jLabel2, new
org.netbeans.lib.awtextra.AbsoluteConstraints(294, 53, -1, -1));
        getContentPane().add(jSeparator1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 80, 706, -1));

        jLabel3.setFont(new java.awt.Font("Tahoma", 1, 14));
        jLabel3.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\Blood group.png"));
        jLabel3.setText("Blood Group");
        getContentPane().add(jLabel3, new
org.netbeans.lib.awtextra.AbsoluteConstraints(204, 102, -1, -1));

        jTextField1.setFont(new java.awt.Font("Tahoma", 1, 14));
        jTextField1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jTextField1ActionPerformed(evt);
            }
        });
        jTextField1.addKeyListener(new java.awt.event.KeyAdapter() {
            public void keyReleased(java.awt.event.KeyEvent evt) {
                jTextField1KeyReleased(evt);
            }
        });
        getContentPane().add(jTextField1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(334, 101, 171, -1));
        getContentPane().add(jSeparator2, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 130, 706, 10));

        jTable1.setModel(new javax.swing.table.DefaultTableModel(
            new Object [][] {
                {null, null, null, null, null, null, null, null, null, null,
null},
                {null, null, null, null, null, null, null, null, null, null,
null},
                {null, null, null, null, null, null, null, null, null, null,
null},
                {null, null, null, null, null, null, null, null, null, null,
null}
            },
            new String [] {
                "DonorID", "Name", "FatherName", "MotherName", "DOB",
"MobileNo", "Gender", "Email", "BloodGroup", "City", "Address"
            }
        ));
```

```
        jScrollPane1.setViewportView(jTable1);

        getContentPane().add(jScrollPane1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(6, 148, 688, 262));
        getContentPane().add(jSeparator4, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 426, 706, 10));

        jButton1.setFont(new java.awt.Font("Tahoma", 1, 14));
        jButton1.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\print.png"));
        jButton1.setText("Print");
        jButton1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton1ActionPerformed(evt);
            }
        });
        getContentPane().add(jButton1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(6, 437, -1, -1));

        jButton2.setFont(new java.awt.Font("Tahoma", 1, 14));
        jButton2.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\Exit application.png"));
        jButton2.setText("Close");
        jButton2.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton2ActionPerformed(evt);
            }
        });
        getContentPane().add(jButton2, new
org.netbeans.lib.awtextra.AbsoluteConstraints(602, 437, -1, -1));

        jLabel4.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\hand to hand.jpg"));
        jLabel4.setText("jLabel4");
        getContentPane().add(jLabel4, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, 700, -1));

        pack();
    }

    private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
    }
```

```
    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
        try {
            jTable1.print(javax.swing.JTable.PrintMode.NORMAL);
        }
        catch (Exception e) {
            JOptionPane.showMessageDialog(null,e);
        }
    }

    private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
        setVisible(false);
    }

    private void jTextField1KeyReleased(java.awt.event.KeyEvent evt) {
        String bloodGroup=jTextField1.getText();
        try {
        Connection con= ConnectionProvider.getCon();
        Statement st= con.createStatement();
        ResultSet rs= st.executeQuery("Select * from donor where bloodgroup
like '%"+bloodGroup+"%'");
        jTable1.setAutoResizeMode(jTable1.AUTO_RESIZE_OFF);
        jTable1.setModel(DbUtils.resultSetToTableModel(rs));
        }
        catch (Exception e) {
            JOptionPane.showMessageDialog(null, e);
        }
    }
    public static void main(String args[]) {
        try {
            for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {

javax.swing.UIManager.setLookAndFeel(info.getClassName());
                    break;
                }
            }
        } catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(searchBloodDonorBloodGroup.class.getName()
).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(searchBloodDonorBloodGroup.class.getName()
).log(java.util.logging.Level.SEVERE, null, ex);
```

```
        } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(searchBloodDonorBloodGroup.class.getName()
).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(searchBloodDonorBloodGroup.class.getName()
).log(java.util.logging.Level.SEVERE, null, ex);
        }



        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new searchBloodDonorBloodGroup().setVisible(true);
            }
        });
    }


    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton2;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JLabel jLabel4;
    private javax.swing.JScrollPane jScrollPane1;
    private javax.swing.JSeparator jSeparator1;
    private javax.swing.JSeparator jSeparator2;
    private javax.swing.JSeparator jSeparator3;
    private javax.swing.JSeparator jSeparator4;
    private javax.swing.JTable jTable1;
    private javax.swing.JTextField jTextField1;

}
```

stockIncrease.java

```
import java.sql.*;
import com.mycompany.blood_bank_management_system.ConnectionProvider;
import javax.swing.JOptionPane;
import net.proteanit.sql.DbUtils;

public class stockIncrease extends javax.swing.JFrame {
    public stockIncrease() {
        initComponents();
```

```
    }

    private void initComponents() {

        jLabel1 = new javax.swing.JLabel();
        jSeparator1 = new javax.swing.JSeparator();
        jLabel2 = new javax.swing.JLabel();
        jComboBox1 = new javax.swing.JComboBox<>();
        jLabel3 = new javax.swing.JLabel();
        jTextField1 = new javax.swing.JTextField();
        jButton1 = new javax.swing.JButton();
        jSeparator2 = new javax.swing.JSeparator();
        jScrollPane1 = new javax.swing.JScrollPane();
        jTable1 = new javax.swing.JTable();
        jSeparator3 = new javax.swing.JSeparator();
        jButton2 = new javax.swing.JButton();
        jButton3 = new javax.swing.JButton();
        jLabel4 = new javax.swing.JLabel();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        setLocation(new java.awt.Point(400, 180));
        setUndecorated(true);
        addComponentListener(new java.awt.event.ComponentAdapter() {
            public void componentShown(java.awt.event.ComponentEvent evt) {
                formComponentShown(evt);
            }
        });
        getContentPane().setLayout(new
org.netbeans.lib.awtextra.AbsoluteLayout());

        jLabel1.setFont(new java.awt.Font("Broadway", 0, 36));
        jLabel1.setText("Stock (Increase)");
        getContentPane().add(jLabel1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(198, 19, -1, -1));
        getContentPane().add(jSeparator1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 66, 700, 10));

        jLabel2.setFont(new java.awt.Font("Tahoma", 1, 14));
        jLabel2.setText("Blood Group");
        getContentPane().add(jLabel2, new
org.netbeans.lib.awtextra.AbsoluteConstraints(40, 90, -1, 20));

        jComboBox1.setFont(new java.awt.Font("Tahoma", 1, 14));
        jComboBox1.setModel(new javax.swing.DefaultComboBoxModel<>(new
String[] { "A+", "A-", "B+", "B-", "O+", "O-", "AB+", "AB-" }));
```

```
        getContentPane().add(jComboBox1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(140, 90, 100, -1));

        jLabel3.setFont(new java.awt.Font("Tahoma", 1, 14));
        jLabel3.setText("Units");
        getContentPane().add(jLabel3, new
org.netbeans.lib.awtextra.AbsoluteConstraints(300, 90, 61, 20));

        jTextField1.setFont(new java.awt.Font("Tahoma", 1, 14));
        getContentPane().add(jTextField1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(350, 90, 90, -1));

        jButton1.setFont(new java.awt.Font("Tahoma", 1, 14));
        jButton1.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\save.png"));
        jButton1.setText("Update");
        jButton1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton1ActionPerformed(evt);
            }
        });
        getContentPane().add(jButton1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(540, 90, -1, -1));
        getContentPane().add(jSeparator2, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 133, 700, 10));

        jTable1.setFont(new java.awt.Font("Tahoma", 1, 14));
        jTable1.setModel(new javax.swing.table.DefaultTableModel(
            new Object [][] {
                {null, null},
                {null, null},
                {null, null},
                {null, null}
            },
            new String [] {
                "Blood Group (Loading...)", "Units (Loading...)"
            }
        ));
        jScrollPane1.setViewportView(jTable1);

        getContentPane().add(jScrollPane1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(65, 161, 560, 225));
        getContentPane().add(jSeparator3, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 412, 700, -1));
```

```
        jButton2.setFont(new java.awt.Font("Tahoma", 1, 14));
        jButton2.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\print.png"));
        jButton2.setText("Print");
        jButton2.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton2ActionPerformed(evt);
            }
        });
        getContentPane().add(jButton2, new
org.netbeans.lib.awtextra.AbsoluteConstraints(70, 430, -1, -1));

        jButton3.setFont(new java.awt.Font("Tahoma", 1, 14));
        jButton3.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\Exit application.png"));
        jButton3.setText("Close");
        jButton3.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton3ActionPerformed(evt);
            }
        });
        getContentPane().add(jButton3, new
org.netbeans.lib.awtextra.AbsoluteConstraints(530, 430, -1, -1));

        jLabel4.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\hand to hand.jpg"));
        jLabel4.setText("jLabel4");
        getContentPane().add(jLabel4, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, 700, -1));

        pack();
    }

    private void formComponentShown(java.awt.event.ComponentEvent evt) {
        try {
        Connection con= ConnectionProvider.getCon();
        Statement st= con.createStatement();
        ResultSet rs= st.executeQuery("Select * from stock");
        jTable1.setModel(DbUtils.resultSetToTableModel(rs));
        }
        catch (Exception e) {
            JOptionPane.showMessageDialog(null, e);
        }
```

```
    }

    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
        String bloodGroup= (String)jComboBox1.getSelectedItem();
        String unit= jTextField1.getText();
        int unit1= Integer.parseInt(unit);
        try {
            Connection con= ConnectionProvider.getCon();
            Statement st= con.createStatement();
            st.executeUpdate("Update stock set units=units+'"+unit1+"' where
bloodGroup='"+bloodGroup+"'");
            JOptionPane.showMessageDialog(null,"Successfull Updated");
            setVisible(false);
            new stockIncrease().setVisible(true);
        }
        catch (Exception e) {
            JOptionPane.showMessageDialog(null, e);
        }
    }

    private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
        try {
            jTable1.print(javax.swing.JTable.PrintMode.NORMAL);
        }
        catch (Exception e) {
            JOptionPane.showMessageDialog(null,e);
        }
    }

    private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
        setVisible(false);
    }
    public static void main(String args[]) {
        try {
            for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {

javax.swing.UIManager.setLookAndFeel(info.getClassName());
                    break;
                }
            }
        } catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(stockIncrease.class.getName()).log(java.ut
il.logging.Level.SEVERE, null, ex);
```

```
        } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(stockIncrease.class.getName()).log(java.ut
il.logging.Level.SEVERE, null, ex);
        } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(stockIncrease.class.getName()).log(java.ut
il.logging.Level.SEVERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(stockIncrease.class.getName()).log(java.ut
il.logging.Level.SEVERE, null, ex);
        }



        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new stockIncrease().setVisible(true);
            }
        });
    }


    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton2;
    private javax.swing.JButton jButton3;
    private javax.swing.JComboBox<String> jComboBox1;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JLabel jLabel4;
    private javax.swing.JScrollPane jScrollPane1;
    private javax.swing.JSeparator jSeparator1;
    private javax.swing.JSeparator jSeparator2;
    private javax.swing.JSeparator jSeparator3;
    private javax.swing.JTable jTable1;
    private javax.swing.JTextField jTextField1;

}
```

stockDecrease.java

```
import java.sql.*;
import com.mycompany.blood_bank_management_system.ConnectionProvider;
import javax.swing.JOptionPane;
import net.proteanit.sql.DbUtils;
```

```
public class stockDecrease extends javax.swing.JFrame {
    private void initComponents() {

        jLabel1 = new javax.swing.JLabel();
        jSeparator1 = new javax.swing.JSeparator();
        jLabel2 = new javax.swing.JLabel();
        jComboBox1 = new javax.swing.JComboBox<>();
        jLabel3 = new javax.swing.JLabel();
        jTextField1 = new javax.swing.JTextField();
        jButton1 = new javax.swing.JButton();
        jSeparator2 = new javax.swing.JSeparator();
        jScrollPane1 = new javax.swing.JScrollPane();
        jTable1 = new javax.swing.JTable();
        jSeparator3 = new javax.swing.JSeparator();
        jButton2 = new javax.swing.JButton();
        jButton3 = new javax.swing.JButton();
        jLabel4 = new javax.swing.JLabel();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        setLocation(new java.awt.Point(400, 180));
        setUndecorated(true);
        addComponentListener(new java.awt.event.ComponentAdapter() {
            public void componentShown(java.awt.event.ComponentEvent evt) {
                formComponentShown(evt);
            }
        });
        getContentPane().setLayout(new
org.netbeans.lib.awtextra.AbsoluteLayout());

        jLabel1.setFont(new java.awt.Font("Broadway", 0, 36));
        jLabel1.setText("Stock (Decrease)");
        getContentPane().add(jLabel1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(190, 10, -1, -1));
        getContentPane().add(jSeparator1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 66, 700, 10));

        jLabel2.setFont(new java.awt.Font("Tahoma", 1, 14));
        jLabel2.setText("Blood Group");
        getContentPane().add(jLabel2, new
org.netbeans.lib.awtextra.AbsoluteConstraints(40, 90, -1, 20));

        jComboBox1.setFont(new java.awt.Font("Tahoma", 1, 14));
        jComboBox1.setModel(new javax.swing.DefaultComboBoxModel<>(new
String[] { "A+", "A-", "B+", "B-", "O+", "O-", "AB+", "AB-" }));
        jComboBox1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
```

```
                jComboBox1ActionPerformed(evt);
            }
        });
        getContentPane().add(jComboBox1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(140, 90, 100, -1));

        jLabel3.setFont(new java.awt.Font("Tahoma", 1, 14));
        jLabel3.setText("Units");
        getContentPane().add(jLabel3, new
org.netbeans.lib.awtextra.AbsoluteConstraints(300, 90, 61, 20));

        jTextField1.setFont(new java.awt.Font("Tahoma", 1, 14));
        getContentPane().add(jTextField1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(350, 90, 90, -1));

        jButton1.setFont(new java.awt.Font("Tahoma", 1, 14));
        jButton1.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\save.png"));
        jButton1.setText("Update");
        jButton1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton1ActionPerformed(evt);
            }
        });
        getContentPane().add(jButton1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(540, 90, -1, -1));
        getContentPane().add(jSeparator2, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 133, 700, 10));

        jTable1.setFont(new java.awt.Font("Tahoma", 1, 14));
        jTable1.setModel(new javax.swing.table.DefaultTableModel(
            new Object [][] {
                {null, null},
                {null, null},
                {null, null},
                {null, null}
            },
            new String [] {
                "Blood Group (Loading...)", "Units (Loading...)"
            }
        ));
        jTable1.addComponentListener(new java.awt.event.ComponentAdapter() {
            public void componentShown(java.awt.event.ComponentEvent evt) {
                jTable1ComponentShown(evt);
            }
```

```
        });
        jScrollPane1.setViewportView(jTable1);

        getContentPane().add(jScrollPane1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(65, 161, 560, 225));
        getContentPane().add(jSeparator3, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 410, 700, -1));

        jButton2.setFont(new java.awt.Font("Tahoma", 1, 14));
        jButton2.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\print.png"));
        jButton2.setText("Print");
        jButton2.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton2ActionPerformed(evt);
            }
        });
        getContentPane().add(jButton2, new
org.netbeans.lib.awtextra.AbsoluteConstraints(70, 430, -1, -1));

        jButton3.setFont(new java.awt.Font("Tahoma", 1, 14));
        jButton3.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\Exit application.png"));
        jButton3.setText("Close");
        jButton3.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton3ActionPerformed(evt);
            }
        });
        getContentPane().add(jButton3, new
org.netbeans.lib.awtextra.AbsoluteConstraints(530, 430, -1, -1));

        jLabel4.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\hand to hand.jpg"));
        jLabel4.setText("jLabel4");
        jLabel4.addComponentListener(new java.awt.event.ComponentAdapter() {
            public void componentShown(java.awt.event.ComponentEvent evt) {
                jLabel4ComponentShown(evt);
            }
        });
        getContentPane().add(jLabel4, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, 700, -1));
```

```
        pack();
    }

    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
        String bloodGroup= (String)jComboBox1.getSelectedItem();
        String unit= jTextField1.getText();
        int unit1= Integer.parseInt(unit);
        try {
            Connection con= ConnectionProvider.getCon();
            Statement st= con.createStatement();
            st.executeUpdate("Update stock set units=units-'"+unit1+"' where
bloodGroup='"+bloodGroup+"'");
            JOptionPane.showMessageDialog(null,"Successfull Updated");
            setVisible(false);
            new stockDecrease().setVisible(true);
        }
        catch (Exception e) {
            JOptionPane.showMessageDialog(null, e);
        }
    }

    private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
        try {
            jTable1.print(javax.swing.JTable.PrintMode.NORMAL);
        }
        catch (Exception e) {
            JOptionPane.showMessageDialog(null,e);
        }
    }

    private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
        setVisible(false);
    }

    private void jComboBox1ActionPerformed(java.awt.event.ActionEvent evt) {
}

    private void jTable1ComponentShown(java.awt.event.ComponentEvent evt) { }

    private void jLabel4ComponentShown(java.awt.event.ComponentEvent evt) { }

    private void formComponentShown(java.awt.event.ComponentEvent evt) {
        try {
        Connection con= ConnectionProvider.getCon();
        Statement st= con.createStatement();
        ResultSet rs= st.executeQuery("Select * from stock");
```

```
        jTable1.setModel(DbUtils.resultSetToTableModel(rs));
        }
        catch (Exception e) {
            JOptionPane.showMessageDialog(null, e);
        }
    }

        try {
            for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {

javax.swing.UIManager.setLookAndFeel(info.getClassName());
                    break;
                }
            }
        } catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(stockDecrease.class.getName()).log(java.ut
il.logging.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(stockDecrease.class.getName()).log(java.ut
il.logging.Level.SEVERE, null, ex);
        } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(stockDecrease.class.getName()).log(java.ut
il.logging.Level.SEVERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(stockDecrease.class.getName()).log(java.ut
il.logging.Level.SEVERE, null, ex);
        }



        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new stockDecrease().setVisible(true);
            }
        });
    }


    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton2;
```

```
    private javax.swing.JButton jButton3;
    private javax.swing.JComboBox<String> jComboBox1;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JLabel jLabel4;
    private javax.swing.JScrollPane jScrollPane1;
    private javax.swing.JSeparator jSeparator1;
    private javax.swing.JSeparator jSeparator2;
    private javax.swing.JSeparator jSeparator3;
    private javax.swing.JTable jTable1;
    private javax.swing.JTextField jTextField1;

}
```

stockDetails.java

```
import com.mycompany.blood_bank_management_system.ConnectionProvider;
import java.sql.Connection;
import java.sql.ResultSet;
import java.sql.Statement;
import javax.swing.JOptionPane;
import net.proteanit.sql.DbUtils;

public class stockDetails extends javax.swing.JFrame {
    private void initComponents() {

        jLabel1 = new javax.swing.JLabel();
        jSeparator2 = new javax.swing.JSeparator();
        jScrollPane1 = new javax.swing.JScrollPane();
        jTable1 = new javax.swing.JTable();
        jSeparator3 = new javax.swing.JSeparator();
        jButton1 = new javax.swing.JButton();
        jButton3 = new javax.swing.JButton();
        jLabel2 = new javax.swing.JLabel();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        setLocation(new java.awt.Point(400, 180));
        setUndecorated(true);
        addComponentListener(new java.awt.event.ComponentAdapter() {
            public void componentShown(java.awt.event.ComponentEvent evt) {
                formComponentShown(evt);
            }
        });
        getContentPane().setLayout(new
org.netbeans.lib.awtextra.AbsoluteLayout());
```

```
        jLabel1.setFont(new java.awt.Font("Broadway", 0, 36));
        jLabel1.setText("Stock   Details");
        getContentPane().add(jLabel1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(200, 40, -1, -1));
        getContentPane().add(jSeparator2, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 100, 700, 10));

        jTable1.setFont(new java.awt.Font("Tahoma", 1, 14));
        jTable1.setModel(new javax.swing.table.DefaultTableModel(
            new Object [][] {
                {null, null},
                {null, null},
                {null, null},
                {null, null}
            },
            new String [] {
                "Blood Group (Loading...)", "Units (Loading...)"
            }
        ));
        jTable1.addComponentListener(new java.awt.event.ComponentAdapter() {
            public void componentShown(java.awt.event.ComponentEvent evt) {
                jTable1ComponentShown(evt);
            }
        });
        jScrollPane1.setViewportView(jTable1);

        getContentPane().add(jScrollPane1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(110, 130, 510, 250));
        getContentPane().add(jSeparator3, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 410, 700, -1));

        jButton1.setFont(new java.awt.Font("Tahoma", 1, 14));
        jButton1.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\print.png"));
        jButton1.setText("Print");
        jButton1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton1ActionPerformed(evt);
            }
        });
        getContentPane().add(jButton1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(110, 430, -1, 30));

        jButton3.setFont(new java.awt.Font("Tahoma", 1, 14));
```

```
        jButton3.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\Exit application.png"));
        jButton3.setText("Close");
        jButton3.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton3ActionPerformed(evt);
            }
        });
        getContentPane().add(jButton3, new
org.netbeans.lib.awtextra.AbsoluteConstraints(530, 430, -1, 30));

        jLabel2.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\hand to hand.jpg"));
        jLabel2.setText("jLabel2");
        getContentPane().add(jLabel2, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, 700, -1));

        pack();
    }

    private void formComponentShown(java.awt.event.ComponentEvent evt) {
        try {
            Connection con= ConnectionProvider.getCon();
            Statement st= con.createStatement();
            ResultSet rs= st.executeQuery("Select * from stock");
            jTable1.setModel(DbUtils.resultSetToTableModel(rs));
        }
        catch (Exception e) {
            JOptionPane.showMessageDialog(null, e);
        }
    }

    private void jTable1ComponentShown(java.awt.event.ComponentEvent evt) {
    }

    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
        try {
            jTable1.print(javax.swing.JTable.PrintMode.NORMAL);
        }
        catch (Exception e) {
            JOptionPane.showMessageDialog(null,e);
        }
    }
```

```
    private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
        setVisible(false);
    }

        try {
            for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {

javax.swing.UIManager.setLookAndFeel(info.getClassName());
                    break;
                }
            }
        } catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(stockDetails.class.getName()).log(java.uti
l.logging.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(stockDetails.class.getName()).log(java.uti
l.logging.Level.SEVERE, null, ex);
        } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(stockDetails.class.getName()).log(java.uti
l.logging.Level.SEVERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(stockDetails.class.getName()).log(java.uti
l.logging.Level.SEVERE, null, ex);
        }



        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new stockDetails().setVisible(true);
            }
        });
    }

    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton3;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JScrollPane jScrollPane1;
    private javax.swing.JSeparator jSeparator2;
```

```
    private javax.swing.JSeparator jSeparator3;
    private javax.swing.JTable jTable1;
}
```

deleteDonor.java

```
import com.mycompany.blood_bank_management_system.ConnectionProvider;
import java.sql.*;
import javax.swing.JOptionPane;
public class deleteDonor extends javax.swing.JFrame {
    private void initComponents() {

        jLabel1 = new javax.swing.JLabel();
        jSeparator1 = new javax.swing.JSeparator();
        jLabel3 = new javax.swing.JLabel();
        jTextField1 = new javax.swing.JTextField();
        jSeparator2 = new javax.swing.JSeparator();
        jLabel2 = new javax.swing.JLabel();
        jLabel4 = new javax.swing.JLabel();
        jLabel5 = new javax.swing.JLabel();
        jLabel6 = new javax.swing.JLabel();
        jLabel7 = new javax.swing.JLabel();
        jLabel8 = new javax.swing.JLabel();
        jLabel9 = new javax.swing.JLabel();
        jTextField2 = new javax.swing.JTextField();
        jTextField3 = new javax.swing.JTextField();
        jTextField4 = new javax.swing.JTextField();
        jTextField5 = new javax.swing.JTextField();
        jLabel10 = new javax.swing.JLabel();
        jLabel11 = new javax.swing.JLabel();
        jLabel12 = new javax.swing.JLabel();
        jLabel13 = new javax.swing.JLabel();
        jTextField6 = new javax.swing.JTextField();
        jTextField7 = new javax.swing.JTextField();
        jScrollPane1 = new javax.swing.JScrollPane();
        jTextArea1 = new javax.swing.JTextArea();
        jButton2 = new javax.swing.JButton();
        jButton3 = new javax.swing.JButton();
        jButton4 = new javax.swing.JButton();
        jSeparator3 = new javax.swing.JSeparator();
        jButton1 = new javax.swing.JButton();
        jTextField8 = new javax.swing.JTextField();
        jTextField9 = new javax.swing.JTextField();
        jTextField10 = new javax.swing.JTextField();
        jLabel14 = new javax.swing.JLabel();
```

```
        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        setLocation(new java.awt.Point(400, 180));
        setUndecorated(true);
        getContentPane().setLayout(new
org.netbeans.lib.awtextra.AbsoluteLayout());

        jLabel1.setFont(new java.awt.Font("Broadway", 0, 36));
        jLabel1.setText("Delete Donor");
        getContentPane().add(jLabel1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(220, 20, -1, -1));
        getContentPane().add(jSeparator1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(6, 69, 844, 10));

        jLabel3.setFont(new java.awt.Font("Tahoma", 1, 14));
        jLabel3.setText("Donor Id");
        getContentPane().add(jLabel3, new
org.netbeans.lib.awtextra.AbsoluteConstraints(170, 90, 70, 20));

        jTextField1.setFont(new java.awt.Font("Tahoma", 1, 14));
        getContentPane().add(jTextField1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(280, 90, 90, -1));
        getContentPane().add(jSeparator2, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 132, 700, -1));

        jLabel2.setFont(new java.awt.Font("Tahoma", 1, 14));
        jLabel2.setText("New Donor ID");
        getContentPane().add(jLabel2, new
org.netbeans.lib.awtextra.AbsoluteConstraints(20, 140, 112, -1));

        jLabel4.setFont(new java.awt.Font("Tahoma", 1, 14));
        jLabel4.setText("Full Name");
        getContentPane().add(jLabel4, new
org.netbeans.lib.awtextra.AbsoluteConstraints(20, 170, 139, 30));

        jLabel5.setFont(new java.awt.Font("Tahoma", 1, 14));
        jLabel5.setText("Father Name");
        getContentPane().add(jLabel5, new
org.netbeans.lib.awtextra.AbsoluteConstraints(20, 220, 98, -1));

        jLabel6.setFont(new java.awt.Font("Tahoma", 1, 14));
        jLabel6.setText("Mother Name");
        getContentPane().add(jLabel6, new
org.netbeans.lib.awtextra.AbsoluteConstraints(20, 260, -1, -1));

        jLabel7.setFont(new java.awt.Font("Tahoma", 1, 14));
        jLabel7.setText("Date of Birth");
```

```
        getContentPane().add(jLabel7, new
org.netbeans.lib.awtextra.AbsoluteConstraints(20, 300, 98, -1));

        jLabel8.setFont(new java.awt.Font("Tahoma", 1, 14));
        jLabel8.setText("Mobile No");
        getContentPane().add(jLabel8, new
org.netbeans.lib.awtextra.AbsoluteConstraints(20, 337, 98, 30));

        jLabel9.setFont(new java.awt.Font("Tahoma", 1, 14));
        jLabel9.setText("Gender");
        getContentPane().add(jLabel9, new
org.netbeans.lib.awtextra.AbsoluteConstraints(20, 380, 98, -1));

        jTextField2.setFont(new java.awt.Font("Tahoma", 1, 14));
        getContentPane().add(jTextField2, new
org.netbeans.lib.awtextra.AbsoluteConstraints(146, 172, 160, -1));

        jTextField3.setFont(new java.awt.Font("Tahoma", 1, 14));
        getContentPane().add(jTextField3, new
org.netbeans.lib.awtextra.AbsoluteConstraints(146, 213, 160, -1));

        jTextField4.setFont(new java.awt.Font("Tahoma", 1, 14));
        getContentPane().add(jTextField4, new
org.netbeans.lib.awtextra.AbsoluteConstraints(150, 260, 160, 20));

        jTextField5.setFont(new java.awt.Font("Tahoma", 1, 14));
        getContentPane().add(jTextField5, new
org.netbeans.lib.awtextra.AbsoluteConstraints(150, 300, 160, -1));

        jLabel10.setFont(new java.awt.Font("Tahoma", 1, 14));
        jLabel10.setText("Email");
        getContentPane().add(jLabel10, new
org.netbeans.lib.awtextra.AbsoluteConstraints(368, 175, 43, -1));

        jLabel11.setFont(new java.awt.Font("Tahoma", 1, 14));
        jLabel11.setText("Blood Group");
        getContentPane().add(jLabel11, new
org.netbeans.lib.awtextra.AbsoluteConstraints(368, 216, -1, -1));

        jLabel12.setFont(new java.awt.Font("Tahoma", 1, 14));
        jLabel12.setText("City");
        getContentPane().add(jLabel12, new
org.netbeans.lib.awtextra.AbsoluteConstraints(370, 260, 43, -1));

        jLabel13.setFont(new java.awt.Font("Tahoma", 1, 14));
        jLabel13.setText("Complete Address");
```

```
        getContentPane().add(jLabel13, new
org.netbeans.lib.awtextra.AbsoluteConstraints(368, 302, -1, -1));

        jTextField6.setFont(new java.awt.Font("Tahoma", 1, 14));
        getContentPane().add(jTextField6, new
org.netbeans.lib.awtextra.AbsoluteConstraints(150, 340, 160, -1));

        jTextField7.setFont(new java.awt.Font("Tahoma", 1, 14));
        getContentPane().add(jTextField7, new
org.netbeans.lib.awtextra.AbsoluteConstraints(150, 380, 160, -1));

        jTextArea1.setColumns(20);
        jTextArea1.setFont(new java.awt.Font("Tahoma", 1, 14));
        jTextArea1.setRows(5);
        jScrollPane1.setViewportView(jTextArea1);

        getContentPane().add(jScrollPane1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(518, 302, 170, -1));

        jButton2.setFont(new java.awt.Font("Tahoma", 1, 14));
        jButton2.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\delete.png"));
        jButton2.setText("Delete");
        jButton2.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton2ActionPerformed(evt);
            }
        });
        getContentPane().add(jButton2, new
org.netbeans.lib.awtextra.AbsoluteConstraints(150, 450, -1, -1));

        jButton3.setFont(new java.awt.Font("Tahoma", 1, 14));
        jButton3.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\Update details.png"));
        jButton3.setText("Reset");
        jButton3.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton3ActionPerformed(evt);
            }
        });
        getContentPane().add(jButton3, new
org.netbeans.lib.awtextra.AbsoluteConstraints(310, 450, -1, -1));

        jButton4.setFont(new java.awt.Font("Tahoma", 1, 14));
```

```
        jButton4.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\Exit application.png"));
        jButton4.setText("Close");
        jButton4.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton4ActionPerformed(evt);
            }
        });
        getContentPane().add(jButton4, new
org.netbeans.lib.awtextra.AbsoluteConstraints(470, 450, -1, -1));
        getContentPane().add(jSeparator3, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 423, 700, 10));

        jButton1.setFont(new java.awt.Font("Tahoma", 1, 14));
        jButton1.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\search1.png"));
        jButton1.setText("Search");
        jButton1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton1ActionPerformed(evt);
            }
        });
        getContentPane().add(jButton1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(410, 90, 110, -1));

        jTextField8.setFont(new java.awt.Font("Tahoma", 1, 14));
        getContentPane().add(jTextField8, new
org.netbeans.lib.awtextra.AbsoluteConstraints(520, 170, 170, -1));

        jTextField9.setFont(new java.awt.Font("Tahoma", 1, 14));
        getContentPane().add(jTextField9, new
org.netbeans.lib.awtextra.AbsoluteConstraints(520, 210, 168, -1));

        jTextField10.setFont(new java.awt.Font("Tahoma", 1, 14));
        getContentPane().add(jTextField10, new
org.netbeans.lib.awtextra.AbsoluteConstraints(520, 260, 168, -1));

        jLabel14.setIcon(new
javax.swing.ImageIcon("C:\\Users\\hp\\Documents\\NetBeansProjects\\Blood_Bank
_Management_System\\Icons & Images\\hand to hand.jpg"));
        jLabel14.setText("jLabel14");
        getContentPane().add(jLabel14, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, 700, -1));
```

```
        pack();
    }

    private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        String donorId= jTextField1.getText();
        try{
            Connection con= ConnectionProvider.getCon();
            Statement st= con.createStatement();
            st.executeUpdate("delete from donor where
donorId='"+donorId+"'");
            JOptionPane.showMessageDialog(null, "Successfully Deleted");
            setVisible(false);
            new deleteDonor().setVisible(true);
        }
        catch (Exception e) {
            JOptionPane.showMessageDialog(null, e);
        }
    }

    private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
        setVisible(false);
        new deleteDonor().setVisible(true);
    }

    private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
        setVisible(false);
    }

    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
        String donorId= jTextField1.getText();
        try {
            Connection con= ConnectionProvider.getCon();
            Statement st= con.createStatement();
            ResultSet rs= st.executeQuery("Select * from donor where
donorId='"+donorId+"'");
            if (rs.next()) {
                jTextField2.setText(rs.getString(2));
                jTextField3.setText(rs.getString(3));
                jTextField4.setText(rs.getString(4));
                jTextField5.setText(rs.getString(5));
                jTextField6.setText(rs.getString(6));
                jTextField7.setText(rs.getString(7));
                jTextField8.setText(rs.getString(8));
                jTextField9.setText(rs.getString(9));
                jTextField10.setText(rs.getString(10));
```

```
                jTextArea1.setText(rs.getString(11));
                jTextField1.setEditable(false);
            }
            else
            JOptionPane.showMessageDialog(null, "DonorId does not Exist");
        }
        catch(Exception e) {}
    }

    public static void main(String args[]) {
        try {
            for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {

javax.swing.UIManager.setLookAndFeel(info.getClassName());
                    break;
                }
            }
        } catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(deleteDonor.class.getName()).log(java.util
.logging.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(deleteDonor.class.getName()).log(java.util
.logging.Level.SEVERE, null, ex);
        } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(deleteDonor.class.getName()).log(java.util
.logging.Level.SEVERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(deleteDonor.class.getName()).log(java.util
.logging.Level.SEVERE, null, ex);
        }



        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new deleteDonor().setVisible(true);
            }
        });
    }
```

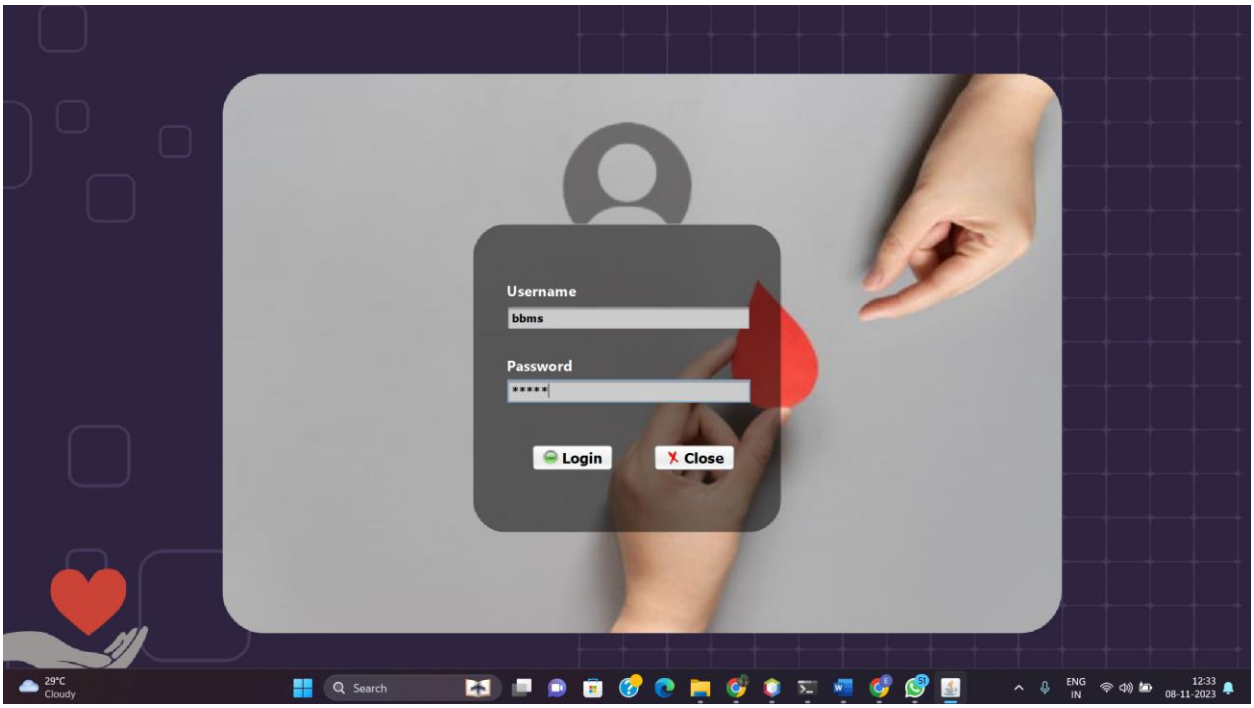
```
    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton2;
    private javax.swing.JButton jButton3;
    private javax.swing.JButton jButton4;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel10;
    private javax.swing.JLabel jLabel11;
    private javax.swing.JLabel jLabel12;
    private javax.swing.JLabel jLabel13;
    private javax.swing.JLabel jLabel14;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JLabel jLabel4;
    private javax.swing.JLabel jLabel5;
    private javax.swing.JLabel jLabel6;
    private javax.swing.JLabel jLabel7;
    private javax.swing.JLabel jLabel8;
    private javax.swing.JLabel jLabel9;
    private javax.swing.JScrollPane jScrollPane1;
    private javax.swing.JSeparator jSeparator1;
    private javax.swing.JSeparator jSeparator2;
    private javax.swing.JSeparator jSeparator3;
    private javax.swing.JTextArea jTextArea1;
    private javax.swing.JTextField jTextField1;
    private javax.swing.JTextField jTextField10;
    private javax.swing.JTextField jTextField2;
    private javax.swing.JTextField jTextField3;
    private javax.swing.JTextField jTextField4;
    private javax.swing.JTextField jTextField5;
    private javax.swing.JTextField jTextField6;
    private javax.swing.JTextField jTextField7;
    private javax.swing.JTextField jTextField8;
    private javax.swing.JTextField jTextField9;

}
```

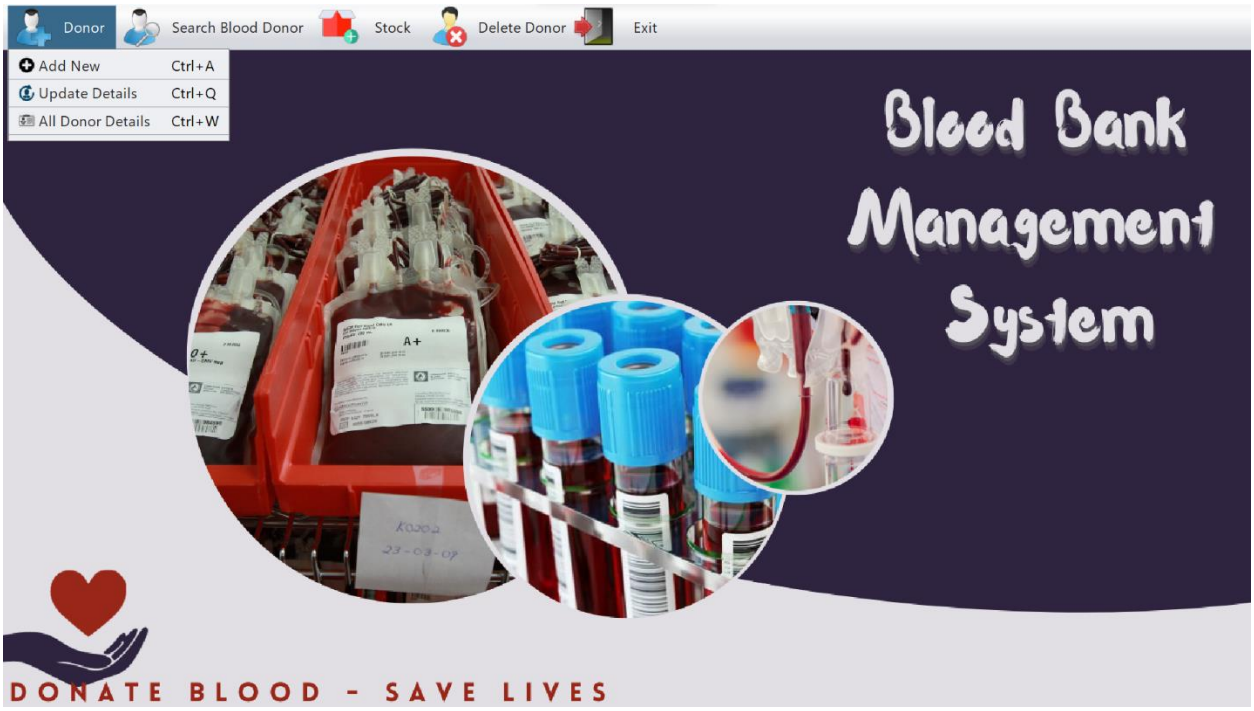
connectionProvider.java

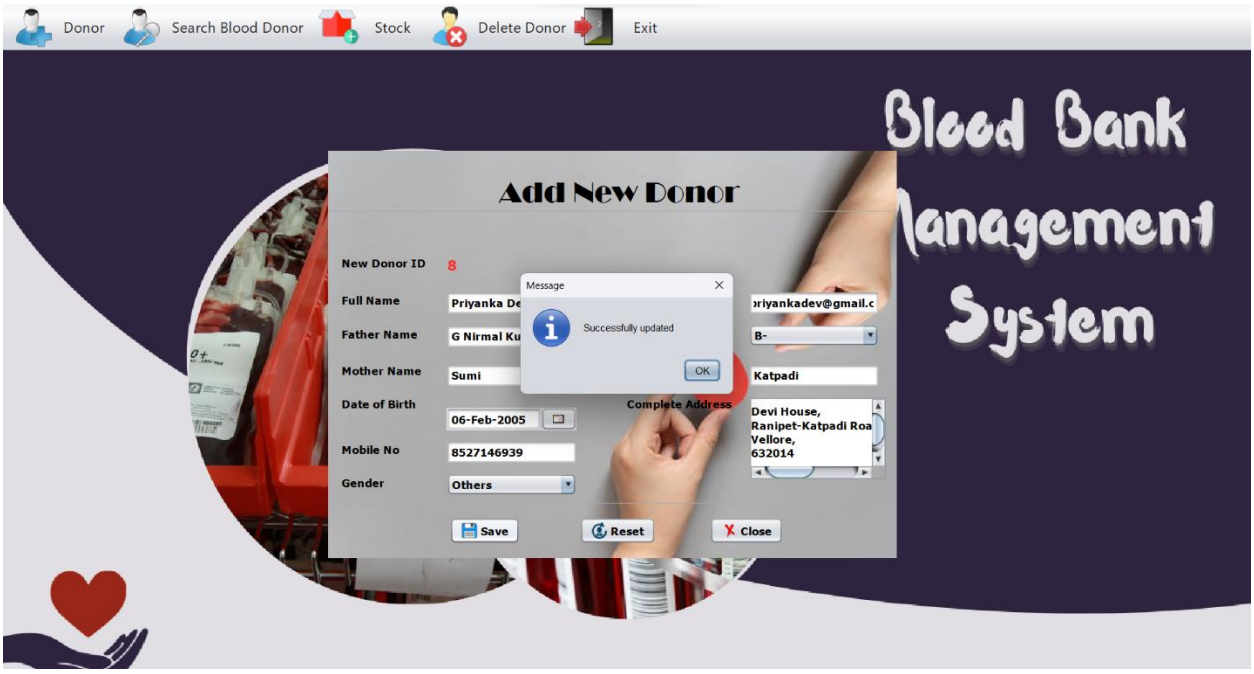
```
package com.mycompany.blood_bank_management_system;
import java.sql.*;
public class ConnectionProvider {
    public static Connection getCon()
    {
        try {
            Class.forName("com.mysql.jdbc.Driver");
```

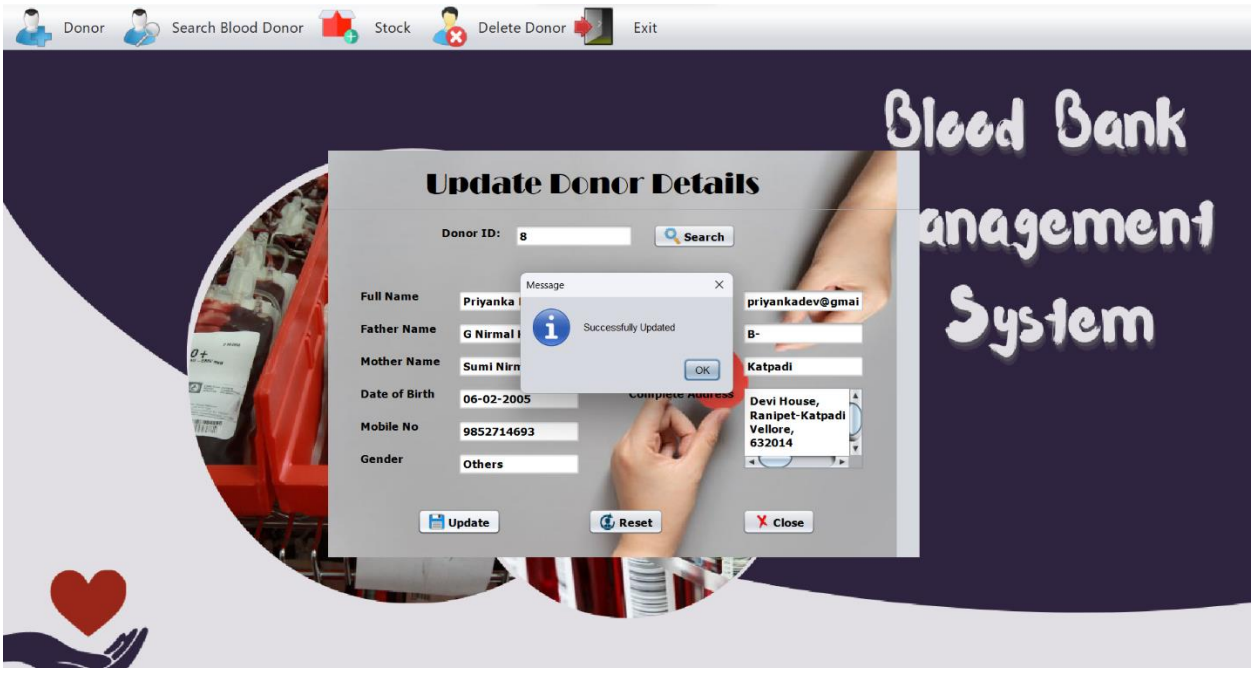
```
            Connection con=
DriverManager.getConnection("jdbc:mysql://localhost:3306/bbms", "root",
"eshal");
            return con;
        } catch (Exception e)
        {
            return null;
        }
    }
}
```

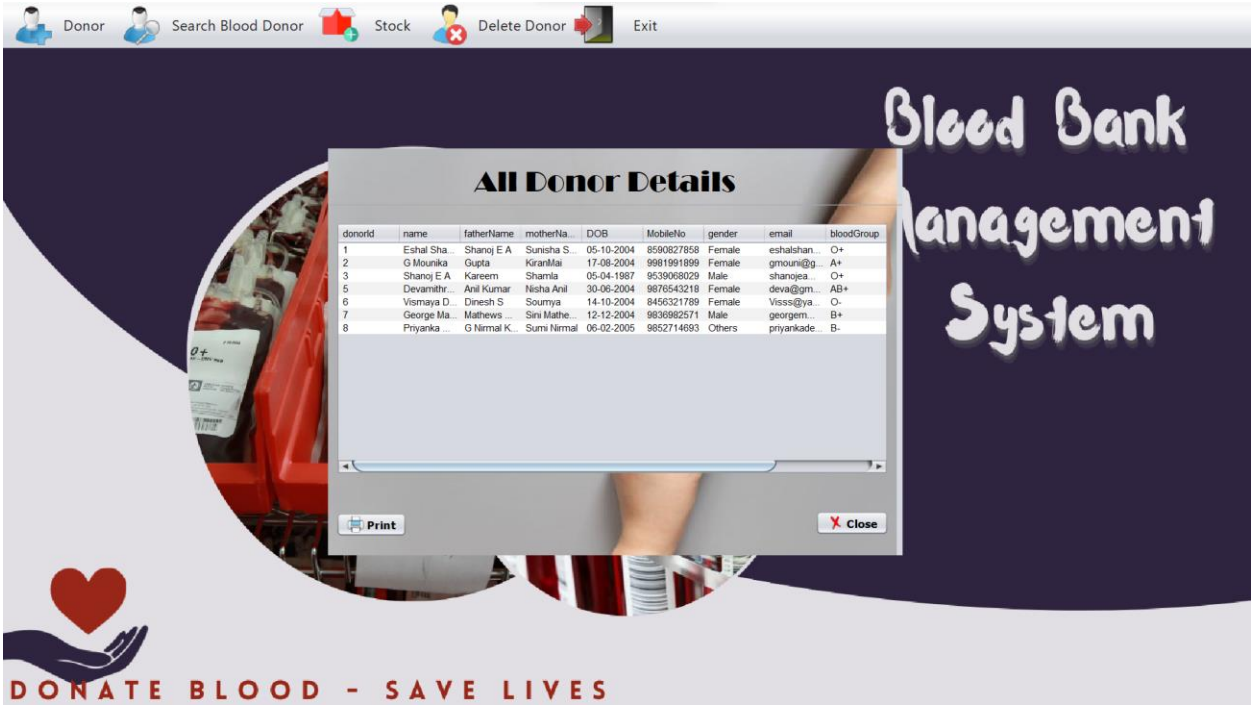
OUTPUT SCREENS

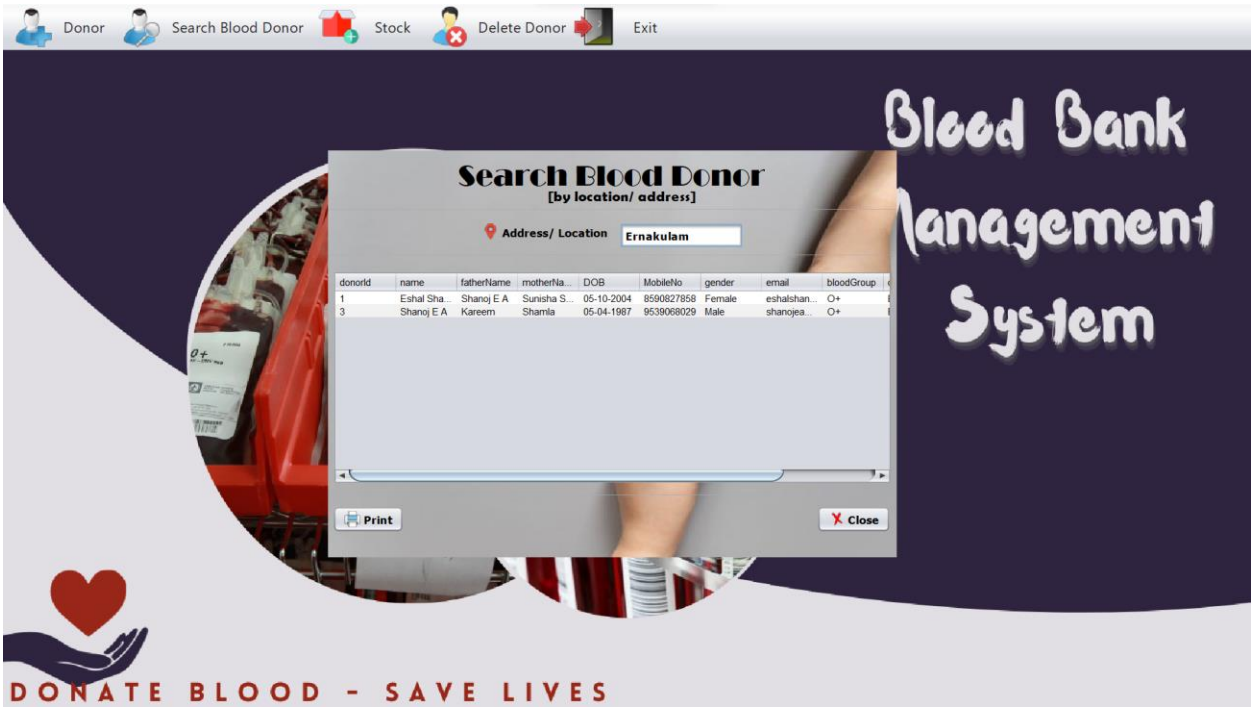


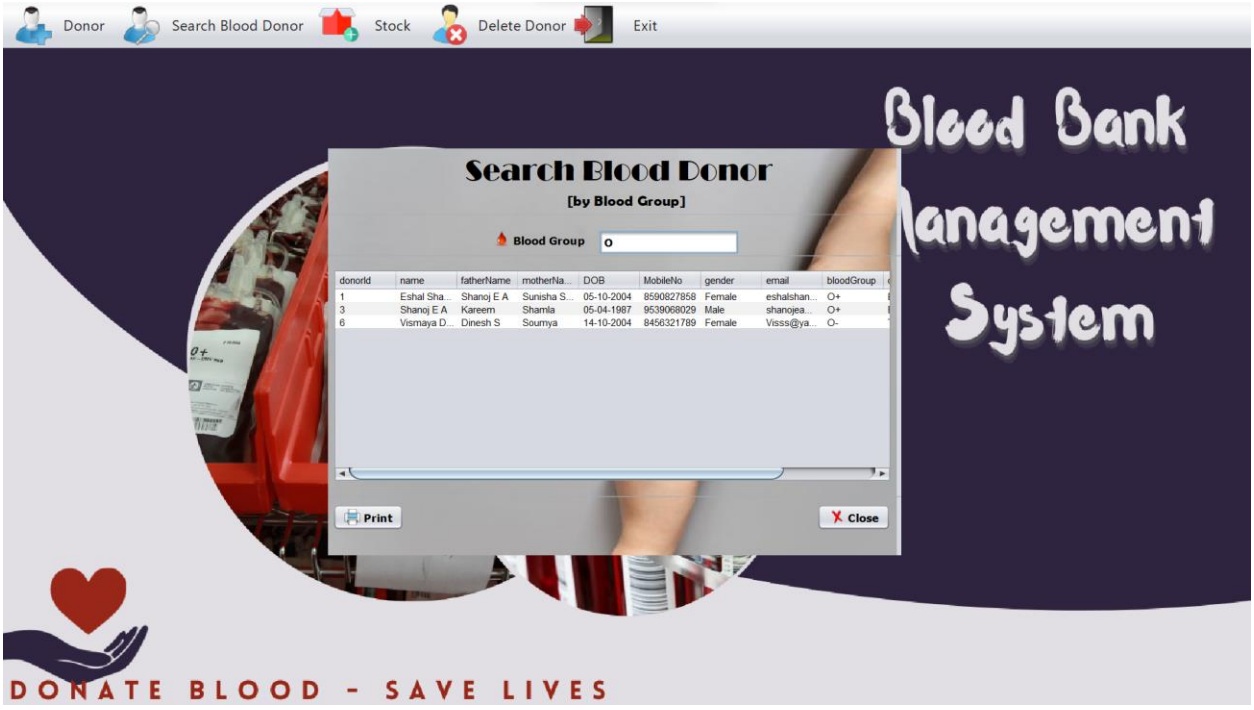


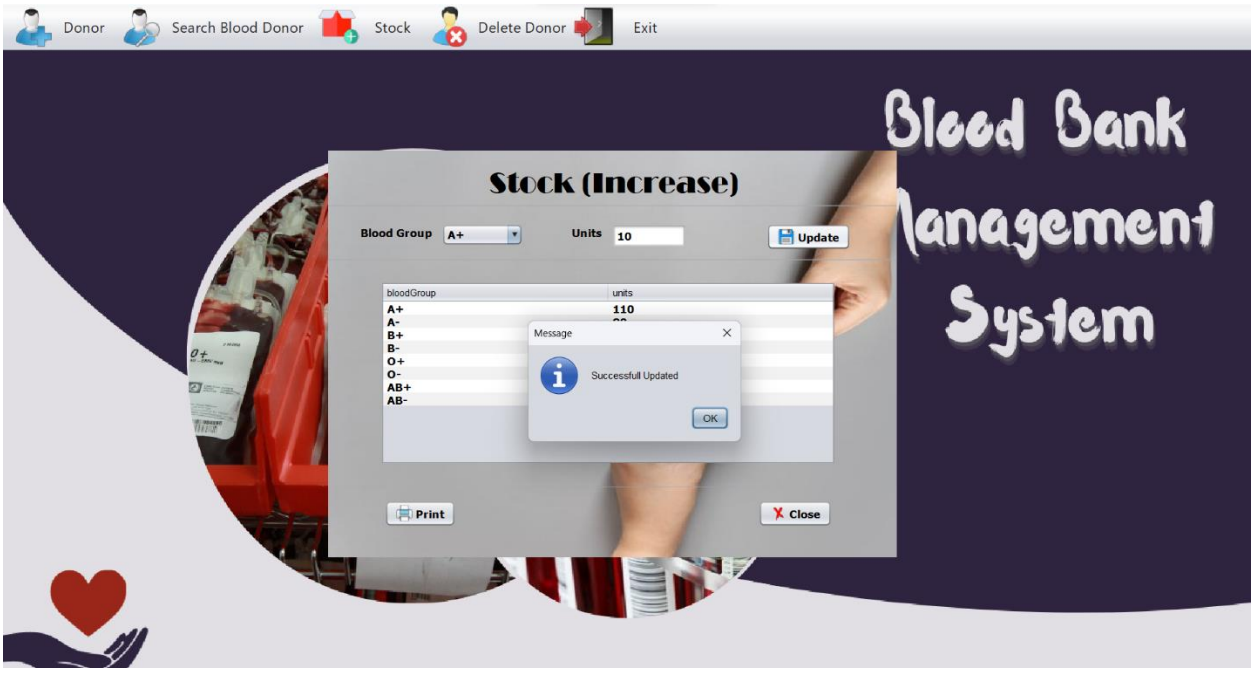

Donor
Search Blood Donor
Stock
Delete Donor
Exit
Blood Bank
Management
System
Add New Donor
New Donor ID
8
Full Name
Priyanka De
priyankadev@gmail.c
Father Name
G Nirmal Ku
B-
Mother Name
Sumi
Katpadi
Date of Birth
06-Feb-2005
Complete Address
Devi House,
Ranipet-Katpadi Roa
Vellore,
632014
Mobile No
8527146939
Gender
Others
Save
Reset
Close
Message
Successfully updated
OK

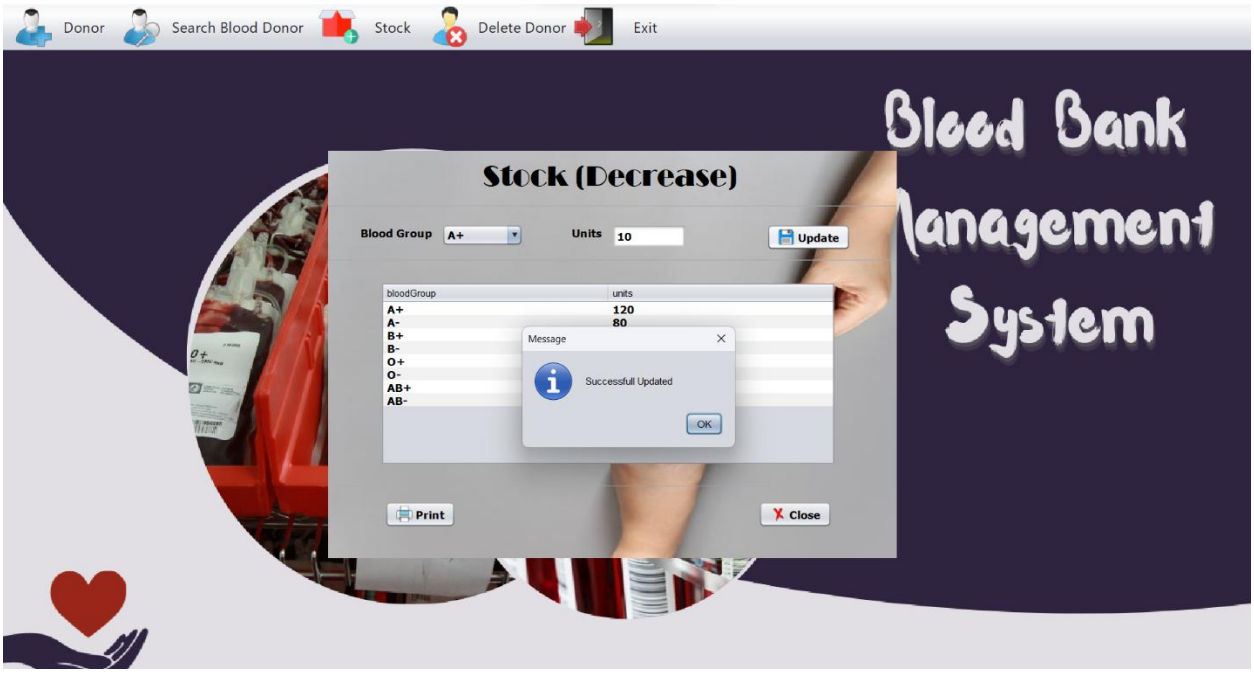

Donor
Search Blood Donor
Stock
Delete Donor
Exit
Blood Bank
Management
System
Update Donor Details
Donor ID:
8
Search
Full Name
Priyanka
priyankadev@gmai
Father Name
G Nirmal
B-
Mother Name
Sumi Nirm
Katpadi
Date of Birth
06-02-2005
Devi House,
Ranipet-Katpadi
Vellore,
632014
Mobile No
9852714693
Gender
Others
Update
Reset
Close
Message
Successfully Updated
OK

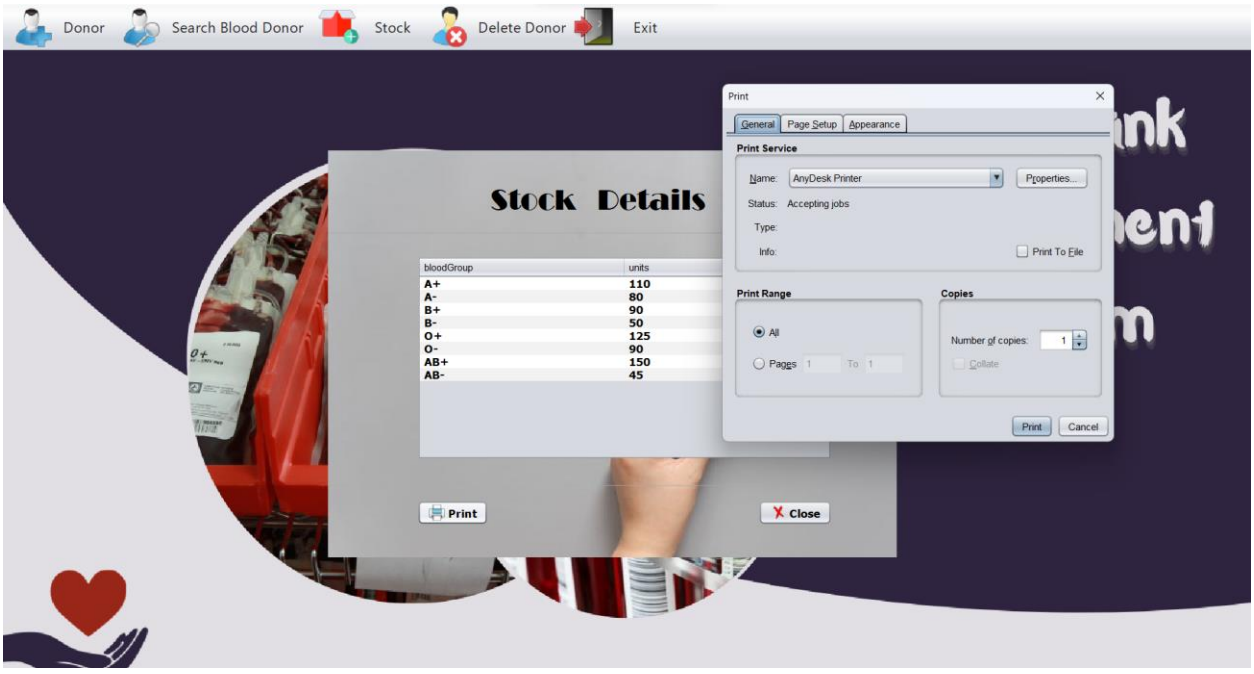

Donor
Search Blood Donor
Stock
Delete Donor
Exit
Blood Bank
Management
System
All Donor Details
donorId | name | fatherName | motherNa... | DOB | MobileNo | gender | email | bloodGroup
1 | Eshal Sha... | Shanoj E A | Sunisha S... | 05-10-2004 | 8590827858 | Female | eshalshan... | O+
2 | G Mounika | Gupta | KiranMai | 17-08-2004 | 9981991899 | Female | gmouni@g... | A+
3 | Shanoj E A | Kareem | Shamla | 05-04-1987 | 9539068029 | Male | shanojea... | O+
5 | Devamithr... | Anil Kumar | Nisha Anil | 30-06-2004 | 9876543218 | Female | deva@gm... | AB+
6 | Vismaya D... | Dinesh S | Soumya | 14-10-2004 | 8456321789 | Female | Visss@ya... | O-
7 | George Ma... | Mathews ... | Sini Mathe... | 12-12-2004 | 9836982571 | Male | georgem... | B+
8 | Priyanka ... | G Nirmal K... | Sumi Nirmal | 06-02-2005 | 9852714693 | Others | priyankade... | B-
Print
Close
DONATE BLOOD - SAVE LIVES

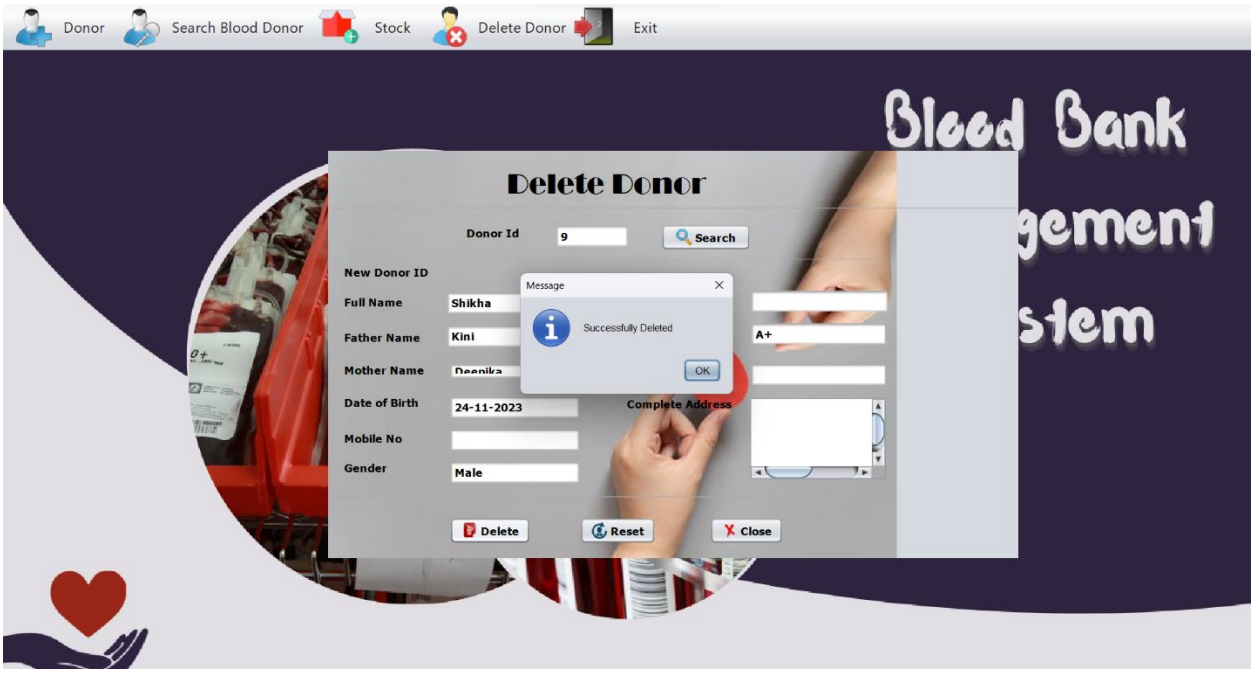

Donor
Search Blood Donor
Stock
Delete Donor
Exit
Blood Bank
Management
System
Search Blood Donor
[by location/ address]
Address/ Location
Ernakulam
donorId | name | fatherName | motherNa... | DOB | MobileNo | gender | email | bloodGroup
1 | Eshal Sha... | Shanoj E A | Sunisha S... | 05-10-2004 | 8590827858 | Female | eshalshan... | O+
3 | Shanoj E A | Kareem | Shamla | 05-04-1987 | 9539068029 | Male | shanojea... | O+
Print
Close
DONATE BLOOD - SAVE LIVES

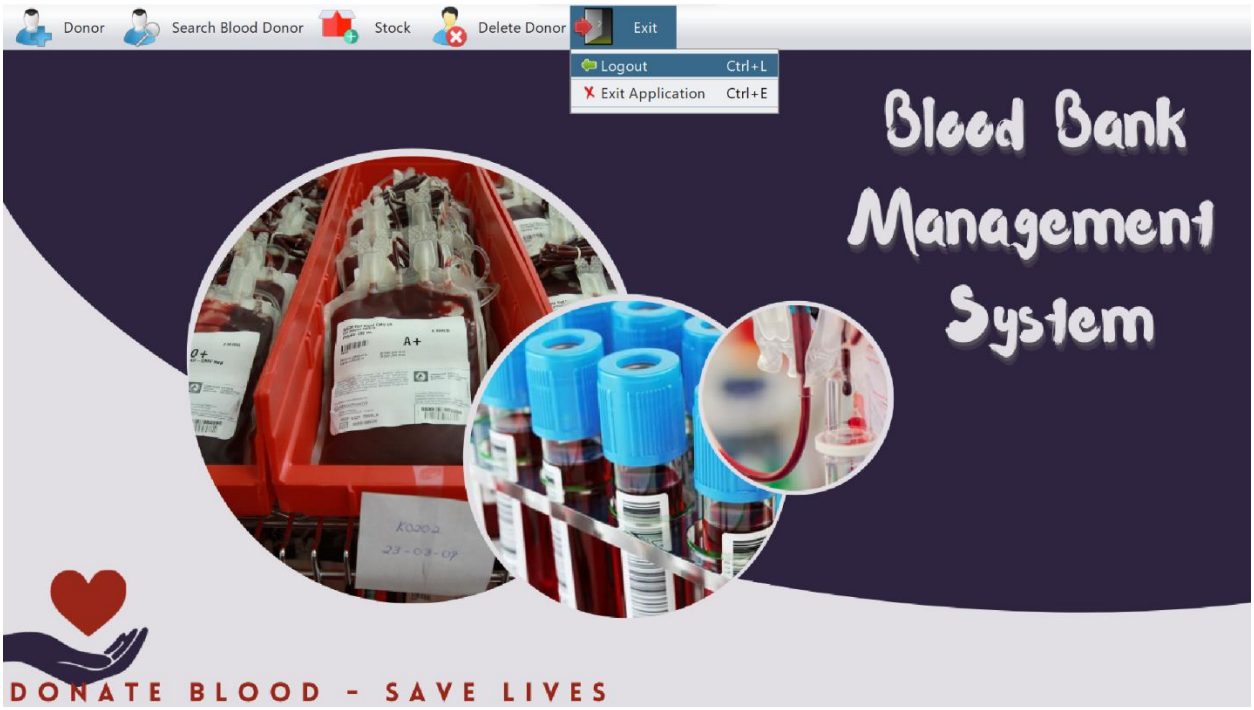

Donor
Search Blood Donor
Stock
Delete Donor
Exit
Blood Bank Management System
Search Blood Donor
[by Blood Group]
Blood Group
O
donorId
name
fatherName
motherNa...
DOB
MobileNo
gender
email
bloodGroup
1
Eshal Sha...
Shanoj E A
Sunisha S...
05-10-2004
8590827858
Female
eshalshan...
O+
3
Shanoj E A
Kareem
Shamla
05-04-1987
9539068029
Male
shanojea...
O+
6
Vismaya D...
Dinesh S
Soumya
14-10-2004
8456321789
Female
Visss@ya...
O-
Print
Close
DONATE BLOOD - SAVE LIVES


Donor
Search Blood Donor
Stock
Delete Donor
Exit
Blood Bank Management System
Stock (Increase)
Blood Group
A+
Units
10
Update
bloodGroup
units
A+
110
A-
B+
B-
O+
O-
AB+
AB-
Message
Successfull Updated
OK
Print
Close


Donor
Search Blood Donor
Stock
Delete Donor
Exit
Blood Bank
Management
System
Stock (Decrease)
Blood Group
A+
Units
10
Update
bloodGroup
units
A+ 120
A- 80
B+
B-
O+
O-
AB+
AB-
Message
Successfull Updated
OK
Print
Close


Donor
Search Blood Donor
Stock
Delete Donor
Exit
Stock Details
bloodGroup
units
A+ 110
A- 80
B+ 90
B- 50
O+ 125
O- 90
AB+ 150
AB- 45
Print
Close
Print
General
Page Setup
Appearance
Print Service
Name:
AnyDesk Printer
Properties...
Status:
Accepting jobs
Type:
Info:
Print To File
Print Range
All
Pages
Copies
Number of copies:
Collate
Print
Cancel


Donor
Search Blood Donor
Stock
Delete Donor
Exit
Blood Bank
gement
stem
Delete Donor
Donor Id
9
Search
New Donor ID
Full Name
Shikha
Father Name
Kini
Mother Name
Deepika
Date of Birth
24-11-2023
Mobile No
Gender
Male
Message
Successfully Deleted
OK
A+
Complete Address
Delete
Reset
Close


Donor
Search Blood Donor
Stock
Delete Donor
Exit
Logout Ctrl+L
Exit Application Ctrl+E
Blood Bank
Management
System
A+
DONATE BLOOD - SAVE LIVES

CONCLUSION

Blood bank management systems (BBMS) play a critical role in modern healthcare, ensuring the efficient and safe collection, storage, and distribution of blood. By automating manual processes, improving data accuracy, and streamlining workflows, BBMS contribute to saving lives and improving patient outcomes. As healthcare systems continue to evolve, BBMS will remain an essential tool for optimizing blood management and ensuring the availability of this life-saving resource.