Codes

1) LOGIN PAGE

```java
import java.sql.*;
import javax.swing.*;

public class LoginPage extends javax.swing.JFrame {
    public LoginPage() {
        initComponents();
        login.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton1ActionPerformed(evt);
        }
    });
    }
    @SuppressWarnings("unchecked")

    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jLabel2 = new javax.swing.JLabel();
        jLabel3 = new javax.swing.JLabel();
        jLabel4 = new javax.swing.JLabel();
        user = new javax.swing.JTextField();
        password = new javax.swing.JPasswordField();
        login = new javax.swing.JButton();
        jLabel1 = new javax.swing.JLabel();

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

        jLabel2.setBackground(new java.awt.Color(255, 255, 255));
        jLabel2.setFont(new java.awt.Font("Georgia", 0, 48)); // NOI18N
        jLabel2.setForeground(new java.awt.Color(102, 51, 0));
        jLabel2.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
        jLabel2.setText("Welcome!");
        getContentPane().add(jLabel2, new
    org.netbeans.lib.awtextra.AbsoluteConstraints(290, 250, 860, 60));

        jLabel3.setFont(new java.awt.Font("Georgia", 0, 36)); // NOI18N
        jLabel3.setForeground(new java.awt.Color(51, 51, 0));
        jLabel3.setHorizontalAlignment(javax.swing.SwingConstants.LEFT);
        jLabel3.setText("User Name");
```

```java
        getContentPane().add(jLabel3, new
org.netbeans.lib.awtextra.AbsoluteConstraints(400, 400, 260, 40));

        jLabel4.setFont(new java.awt.Font("Georgia", 0, 36)); // NOI18N
        jLabel4.setForeground(new java.awt.Color(51, 51, 0));
        jLabel4.setHorizontalAlignment(javax.swing.SwingConstants.LEFT);
        jLabel4.setText("Password");
        getContentPane().add(jLabel4, new
org.netbeans.lib.awtextra.AbsoluteConstraints(400, 480, 260, 40));

        user.setBackground(new java.awt.Color(190, 170, 131));
        user.setFont(new java.awt.Font("Georgia", 0, 24)); // NOI18N
        user.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                userActionPerformed(evt);
            }
        });
        getContentPane().add(user, new
org.netbeans.lib.awtextra.AbsoluteConstraints(800, 410, 230, 39));

        password.setBackground(new java.awt.Color(190, 170, 131));
        password.setFont(new java.awt.Font("Georgia", 0, 24)); // NOI18N
        getContentPane().add(password, new
org.netbeans.lib.awtextra.AbsoluteConstraints(800, 490, 230, 40));

        login.setBackground(new java.awt.Color(245, 237, 218));
        login.setFont(new java.awt.Font("Georgia", 0, 36)); // NOI18N
        login.setForeground(new java.awt.Color(102, 51, 0));
        login.setText("Login");
        login.setBorder(null);
        login.setBorderPainted(false);
        login.setContentAreaFilled(false);
        login.setHorizontalTextPosition(javax.swing.SwingConstants.CENTER);
        login.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                loginActionPerformed(evt);
            }
        });
        getContentPane().add(login, new
org.netbeans.lib.awtextra.AbsoluteConstraints(290, 580, 870, 50));

        jLabel1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/Login
Page.jpg"))); // NOI18N
        jLabel1.setText("    ");
```

```java
        getContentPane().add(jLabel1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, 1440, 900));

        pack();
    }// </editor-fold>

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

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

    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
        String url = "jdbc:mysql://localhost:3306/library";
        String mysqluser = "root";
        String mysqlpwd = "Taphasvi@266";
        String pswrd = new String (password.getPassword());
        String username = user.getText();
        String query = ("select PASSWORD from ADMIN where USER_ID
='"+username+"';");
        try {
            Connection conn = DriverManager.getConnection(url, mysqluser, mysqlpwd);
            Statement stm = conn.createStatement();
            ResultSet rs = stm.executeQuery(query);
            if (rs.next()) {
                String realpswrd = rs.getString("PASSWORD");
                if(realpswrd.equals(pswrd)) {
                    Dashboard dsh = new Dashboard();
                    dsh.setVisible(true);
                    this.dispose();
                }
                else {
                    JOptionPane.showMessageDialog(this, "Username Or Password Entered Is
Wrong!");
                }
            }
            else {
                JOptionPane.showMessageDialog(this, "Wrong Username!");
            }
        }
        catch (Exception e) {
            JOptionPane.showMessageDialog(this, e.getMessage());
```

```java
        }
    }
    public static void main(String args[]) {
        /* Set the Nimbus look and feel */
        //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional)
">
        /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and
feel.
         * For details see
http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
         */
        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(LoginPage.class.getName()).log(java.util.logging.Lev
el.SEVERE, null, ex);
        } catch (InstantiationException ex) {

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

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

java.util.logging.Logger.getLogger(LoginPage.class.getName()).log(java.util.logging.Lev
el.SEVERE, null, ex);
        }
        //</editor-fold>

        /* Create and display the form */
        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new LoginPage().setVisible(true);
            }
        });
```

```java
        }

        // Variables declaration - do not modify
        private javax.swing.JLabel jLabel1;
        private javax.swing.JLabel jLabel2;
        private javax.swing.JLabel jLabel3;
        private javax.swing.JLabel jLabel4;
        private javax.swing.JButton login;
        private javax.swing.JPasswordField password;
        private javax.swing.JTextField user;
        // End of variables declaration
    }
```

2) Dashboard

```java
    public class Dashboard extends javax.swing.JFrame {
        public Dashboard() {
            initComponents();
        }
        @SuppressWarnings("unchecked")
        // <editor-fold defaultstate="collapsed" desc="Generated Code">
        private void initComponents() {

            jLabel1 = new javax.swing.JLabel();
            b2 = new javax.swing.JButton();
            b3 = new javax.swing.JButton();
            b1 = new javax.swing.JButton();
            b6 = new javax.swing.JButton();
            b5 = new javax.swing.JButton();
            b4 = new javax.swing.JButton();
            b7 = new javax.swing.JButton();
            jLabel2 = new javax.swing.JLabel();

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

            jLabel1.setFont(new java.awt.Font("Georgia", 0, 48)); // NOI18N
            jLabel1.setForeground(new java.awt.Color(102, 51, 0));
            jLabel1.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
            jLabel1.setText("Home");
```

```java
        getContentPane().add(jLabel1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(30, 150, 1381, 100));

        b2.setBackground(new java.awt.Color(245, 237, 218));
        b2.setFont(new java.awt.Font("Georgia", 0, 36)); // NOI18N
        b2.setForeground(new java.awt.Color(102, 102, 0));
        b2.setText("Add Books");
        b2.setBorderPainted(false);
        b2.setContentAreaFilled(false);
        b2.setHorizontalTextPosition(javax.swing.SwingConstants.CENTER);
        b2.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                b2ActionPerformed(evt);
            }
        });
        getContentPane().add(b2, new org.netbeans.lib.awtextra.AbsoluteConstraints(240,
450, 430, 90));

        b3.setBackground(new java.awt.Color(245, 237, 218));
        b3.setFont(new java.awt.Font("Georgia", 0, 36)); // NOI18N
        b3.setForeground(new java.awt.Color(102, 102, 0));
        b3.setText("Remove Books");
        b3.setBorderPainted(false);
        b3.setContentAreaFilled(false);
        b3.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                b3ActionPerformed(evt);
            }
        });
        getContentPane().add(b3, new org.netbeans.lib.awtextra.AbsoluteConstraints(238,
593, 440, 80));

        b1.setBackground(new java.awt.Color(245, 237, 218));
        b1.setFont(new java.awt.Font("Georgia", 0, 36)); // NOI18N
        b1.setForeground(new java.awt.Color(102, 102, 0));
        b1.setText("Available Books");
        b1.setBorderPainted(false);
        b1.setContentAreaFilled(false);
        b1.setHorizontalTextPosition(javax.swing.SwingConstants.CENTER);
        b1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                b1ActionPerformed(evt);
            }
        });
```

```java
        getContentPane().add(b1, new org.netbeans.lib.awtextra.AbsoluteConstraints(240,
320, 430, 90));

        b6.setBackground(new java.awt.Color(245, 237, 218));
        b6.setFont(new java.awt.Font("Georgia", 0, 36)); // NOI18N
        b6.setForeground(new java.awt.Color(102, 102, 0));
        b6.setText("Remove Staff");
        b6.setBorderPainted(false);
        b6.setContentAreaFilled(false);
        b6.setHorizontalTextPosition(javax.swing.SwingConstants.CENTER);
        b6.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                b6ActionPerformed(evt);
            }
        });
        getContentPane().add(b6, new org.netbeans.lib.awtextra.AbsoluteConstraints(758,
593, 430, 80));

        b5.setBackground(new java.awt.Color(245, 237, 218));
        b5.setFont(new java.awt.Font("Georgia", 0, 36)); // NOI18N
        b5.setForeground(new java.awt.Color(102, 102, 0));
        b5.setText("Add Staff");
        b5.setBorderPainted(false);
        b5.setContentAreaFilled(false);
        b5.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                b5ActionPerformed(evt);
            }
        });
        getContentPane().add(b5, new org.netbeans.lib.awtextra.AbsoluteConstraints(758,
453, 430, 90));

        b4.setBackground(new java.awt.Color(245, 237, 218));
        b4.setFont(new java.awt.Font("Georgia", 0, 36)); // NOI18N
        b4.setForeground(new java.awt.Color(102, 102, 0));
        b4.setText("Staff Details");
        b4.setBorderPainted(false);
        b4.setContentAreaFilled(false);
        b4.setHorizontalTextPosition(javax.swing.SwingConstants.CENTER);
        b4.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                b4ActionPerformed(evt);
            }
        });
```

```java
        getContentPane().add(b4, new org.netbeans.lib.awtextra.AbsoluteConstraints(760,
320, 430, 90));

        b7.setBackground(new java.awt.Color(242, 242, 242));
        b7.setFont(new java.awt.Font("Georgia", 0, 36)); // NOI18N
        b7.setForeground(new java.awt.Color(51, 51, 51));
        b7.setText("Edit Admin");
        b7.setBorderPainted(false);
        b7.setContentAreaFilled(false);
        b7.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                b7ActionPerformed(evt);
            }
        });
        getContentPane().add(b7, new org.netbeans.lib.awtextra.AbsoluteConstraints(504,
723, 430, 80));

        jLabel2.setForeground(new java.awt.Color(255, 0, 204));
        jLabel2.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/Dashboard.jpg"))); // NOI18N
        getContentPane().add(jLabel2, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, 1440, 900));

        pack();
    }// </editor-fold>

    private void b1ActionPerformed(java.awt.event.ActionEvent evt) {
        BooksAvailable books = new BooksAvailable();
        books.setVisible(true);
    }

    private void b6ActionPerformed(java.awt.event.ActionEvent evt) {
        RemoveStaff rems = new RemoveStaff();
        rems.setVisible(true);
    }

    private void b5ActionPerformed(java.awt.event.ActionEvent evt) {
        AddStaff astaff = new AddStaff();
        astaff.setVisible(true);
    }

    private void b7ActionPerformed(java.awt.event.ActionEvent evt) {
        EditAdmin admin = new EditAdmin();
        admin.setVisible(true);
```

```java
        }

    private void b2ActionPerformed(java.awt.event.ActionEvent evt) {
        AddBooks add = new AddBooks();
        add.setVisible(true);
    }

    private void b4ActionPerformed(java.awt.event.ActionEvent evt) {
        StaffAvailable staff = new StaffAvailable();
        staff.setVisible(true);
    }

    private void b3ActionPerformed(java.awt.event.ActionEvent evt) {
        RemoveBooks rem = new RemoveBooks();
        rem.setVisible(true);
    }

    /**
     * @param args the command line arguments
     */
    public static void main(String args[]) {
        /* Set the Nimbus look and feel */
        //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional)
">
        /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and
feel.
         * For details see
http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
         */
        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(Dashboard.class.getName()).log(java.util.logging.Lev
el.SEVERE, null, ex);
        } catch (InstantiationException ex) {
```

```java
            java.util.logging.Logger.getLogger(Dashboard.class.getName()).log(java.util.logging.Lev
el.SEVERE, null, ex);
        } catch (IllegalAccessException ex) {

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

            java.util.logging.Logger.getLogger(Dashboard.class.getName()).log(java.util.logging.Lev
el.SEVERE, null, ex);
        }
        //</editor-fold>

        /* Create and display the form */
        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new Dashboard().setVisible(true);
            }
        });
    }

    // Variables declaration - do not modify
    private javax.swing.JButton b1;
    private javax.swing.JButton b2;
    private javax.swing.JButton b3;
    private javax.swing.JButton b4;
    private javax.swing.JButton b5;
    private javax.swing.JButton b6;
    private javax.swing.JButton b7;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    // End of variables declaration
}
```

3) Books Available
```java
    import java.sql.*;
    import javax.swing.*;
    import javax.swing.table.DefaultTableModel;


    public class BooksAvailable extends javax.swing.JFrame {
        public BooksAvailable() {
```

```java
        initComponents();
        setDefaultCloseOperation(BooksAvailable.DISPOSE_ON_CLOSE);
    }

    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jScrollPane2 = new javax.swing.JScrollPane();
        jTable2 = new javax.swing.JTable();
        fetch = new javax.swing.JButton();
        back = new javax.swing.JButton();
        jLabel1 = new javax.swing.JLabel();

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

        jTable2.setBackground(new java.awt.Color(229, 214, 190));
        jTable2.setFont(new java.awt.Font("Georgia", 0, 14)); // NOI18N
        jTable2.setModel(new javax.swing.table.DefaultTableModel(
            new Object [][] {

            },
            new String [] {
                "Book ID", "Category", "Name", "Author", "Copies"
            }
        ));
        jTable2.setOpaque(false);
        jScrollPane2.setViewportView(jTable2);

        getContentPane().add(jScrollPane2, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, 1440, 600));

        fetch.setBackground(new java.awt.Color(245, 237, 218));
        fetch.setFont(new java.awt.Font("Georgia", 0, 36)); // NOI18N
        fetch.setForeground(new java.awt.Color(255, 255, 255));
        fetch.setText("Fetch");
        fetch.setBorderPainted(false);
        fetch.setContentAreaFilled(false);
        fetch.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                fetchActionPerformed(evt);
            }
        });
```

```java
        getContentPane().add(fetch, new
org.netbeans.lib.awtextra.AbsoluteConstraints(190, 750, 440, 80));

        back.setBackground(new java.awt.Color(245, 237, 218));
        back.setFont(new java.awt.Font("Georgia", 0, 36)); // NOI18N
        back.setForeground(new java.awt.Color(255, 255, 255));
        back.setText("Back");
        back.setBorderPainted(false);
        back.setContentAreaFilled(false);
        back.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                backActionPerformed(evt);
            }
        });
        getContentPane().add(back, new
org.netbeans.lib.awtextra.AbsoluteConstraints(800, 750, 440, 80));

        jLabel1.setBackground(new java.awt.Color(153, 51, 0));
        jLabel1.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/BooksAvailable.jpg"))); // NOI18N
        getContentPane().add(jLabel1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, 1440, 900));

        pack();
    }// </editor-fold>

    private void fetchActionPerformed(java.awt.event.ActionEvent evt) {
        DefaultTableModel model = (DefaultTableModel)jTable2.getModel();
        String url = "jdbc:mysql://localhost:3306/library";
        String user = "root";
        String pwd = "Taphasvi@266";
        String query = "SELECT *FROM BOOKS;";
        try {
            Connection conn = DriverManager.getConnection(url,user,pwd);
            Statement stm = conn.createStatement();
            ResultSet rs = stm.executeQuery(query);
            while (rs.next()) {
                String bookid =rs.getString("BOOK_ID");
                String category = rs.getString("CATEGORY");
                String title = rs.getString("TITLE");
                String author = rs.getString("AUTHOR");
                String copies = rs.getString("COPIES");
                model.addRow(new Object[] {bookid, category, title, author, copies});
            }
```

```java
                rs.close();
                stm.close();
            }
            catch (Exception e) {
                JOptionPane.showMessageDialog(this, e.getMessage());

            }
        }

        private void backActionPerformed(java.awt.event.ActionEvent evt) {
            this.dispose();
        }

        /**
         * @param args the command line arguments
         */
        public static void main(String args[]) {
            /* Set the Nimbus look and feel */
            //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional)
">
            /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and
feel.
             * For details see
http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
             */
            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(BooksAvailable.class.getName()).log(java.util.logging.
Level.SEVERE, null, ex);
            } catch (InstantiationException ex) {

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

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

            java.util.logging.Logger.getLogger(BooksAvailable.class.getName()).log(java.util.logging.
Level.SEVERE, null, ex);
        }
        //</editor-fold>

        /* Create and display the form */
        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new BooksAvailable().setVisible(true);
            }
        });
    }

    // Variables declaration - do not modify
    private javax.swing.JButton back;
    private javax.swing.JButton fetch;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JScrollPane jScrollPane2;
    private javax.swing.JTable jTable2;
    // End of variables declaration
}
```

4) Add Books

```java
mport java.sql.*;
import javax.swing.*;

public class AddBooks extends javax.swing.JFrame {
    public AddBooks() {
        initComponents();
        setDefaultCloseOperation(AddBooks.DISPOSE_ON_CLOSE);
    }

    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {
```

```java
        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();
        t5 = new javax.swing.JTextField();
        t4 = new javax.swing.JTextField();
        t3 = new javax.swing.JTextField();
        t2 = new javax.swing.JTextField();
        t1 = new javax.swing.JTextField();
        cancel = new javax.swing.JButton();
        add = new javax.swing.JButton();
        jLabel1 = new javax.swing.JLabel();

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

        jLabel2.setFont(new java.awt.Font("Georgia", 0, 48)); // NOI18N
        jLabel2.setForeground(new java.awt.Color(102, 51, 0));
        jLabel2.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
        jLabel2.setText("Add Books");
        getContentPane().add(jLabel2, new
org.netbeans.lib.awtextra.AbsoluteConstraints(30, 130, 1381, 100));

        jLabel3.setFont(new java.awt.Font("Georgia", 0, 36)); // NOI18N
        jLabel3.setForeground(new java.awt.Color(51, 51, 0));
        jLabel3.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
        jLabel3.setText("Copies:");
        getContentPane().add(jLabel3, new
org.netbeans.lib.awtextra.AbsoluteConstraints(90, 670, 440, 70));

        jLabel4.setFont(new java.awt.Font("Georgia", 0, 36)); // NOI18N
        jLabel4.setForeground(new java.awt.Color(51, 51, 0));
        jLabel4.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
        jLabel4.setText("Book ID:");
        getContentPane().add(jLabel4, new
org.netbeans.lib.awtextra.AbsoluteConstraints(90, 280, 440, 70));

        jLabel5.setFont(new java.awt.Font("Georgia", 0, 36)); // NOI18N
        jLabel5.setForeground(new java.awt.Color(51, 51, 0));
        jLabel5.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
        jLabel5.setText("Title:");
```

```java
        getContentPane().add(jLabel5, new
org.netbeans.lib.awtextra.AbsoluteConstraints(90, 480, 440, 70));

        jLabel6.setFont(new java.awt.Font("Georgia", 0, 36)); // NOI18N
        jLabel6.setForeground(new java.awt.Color(51, 51, 0));
        jLabel6.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
        jLabel6.setText("Author:");
        getContentPane().add(jLabel6, new
org.netbeans.lib.awtextra.AbsoluteConstraints(90, 570, 440, 70));

        jLabel7.setFont(new java.awt.Font("Georgia", 0, 36)); // NOI18N
        jLabel7.setForeground(new java.awt.Color(51, 51, 0));
        jLabel7.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
        jLabel7.setText("Category:");
        getContentPane().add(jLabel7, new
org.netbeans.lib.awtextra.AbsoluteConstraints(90, 380, 440, 70));

        t5.setBackground(new java.awt.Color(248, 242, 236));
        t5.setFont(new java.awt.Font("Georgia", 0, 36)); // NOI18N
        t5.setBorder(null);
        t5.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                t5ActionPerformed(evt);
            }
        });
        getContentPane().add(t5, new org.netbeans.lib.awtextra.AbsoluteConstraints(710,
670, 640, 70));

        t4.setBackground(new java.awt.Color(248, 242, 236));
        t4.setFont(new java.awt.Font("Georgia", 0, 36)); // NOI18N
        t4.setBorder(null);
        t4.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                t4ActionPerformed(evt);
            }
        });
        getContentPane().add(t4, new org.netbeans.lib.awtextra.AbsoluteConstraints(710,
570, 640, 70));

        t3.setBackground(new java.awt.Color(248, 242, 236));
        t3.setFont(new java.awt.Font("Georgia", 0, 36)); // NOI18N
        t3.setBorder(null);
        t3.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
```

```java
            t3ActionPerformed(evt);
        }
    });
    getContentPane().add(t3, new org.netbeans.lib.awtextra.AbsoluteConstraints(710,
470, 640, 70));

    t2.setBackground(new java.awt.Color(248, 242, 236));
    t2.setFont(new java.awt.Font("Georgia", 0, 36)); // NOI18N
    t2.setBorder(null);
    t2.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            t2ActionPerformed(evt);
        }
    });
    getContentPane().add(t2, new org.netbeans.lib.awtextra.AbsoluteConstraints(710,
380, 640, 70));

    t1.setBackground(new java.awt.Color(248, 242, 236));
    t1.setFont(new java.awt.Font("Georgia", 0, 36)); // NOI18N
    t1.setBorder(null);
    t1.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            t1ActionPerformed(evt);
        }
    });
    getContentPane().add(t1, new org.netbeans.lib.awtextra.AbsoluteConstraints(710,
280, 640, 70));

    cancel.setBackground(new java.awt.Color(245, 237, 218));
    cancel.setFont(new java.awt.Font("Georgia", 0, 36)); // NOI18N
    cancel.setForeground(new java.awt.Color(255, 255, 255));
    cancel.setText("Cancel");
    cancel.setBorderPainted(false);
    cancel.setContentAreaFilled(false);
    cancel.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            cancelActionPerformed(evt);
        }
    });
    getContentPane().add(cancel, new
org.netbeans.lib.awtextra.AbsoluteConstraints(810, 770, 440, 90));

    add.setBackground(new java.awt.Color(245, 237, 218));
    add.setFont(new java.awt.Font("Georgia", 0, 36)); // NOI18N
```

```java
        add.setForeground(new java.awt.Color(255, 255, 255));
        add.setText("Add");
        add.setBorderPainted(false);
        add.setContentAreaFilled(false);
        add.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                addActionPerformed(evt);
            }
        });
        getContentPane().add(add, new
org.netbeans.lib.awtextra.AbsoluteConstraints(190, 770, 440, 90));

        jLabel1.setBackground(new java.awt.Color(248, 242, 236));
        jLabel1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/Add
Books.jpg"))); // NOI18N
        getContentPane().add(jLabel1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, 1440, 900));

        pack();
    }// </editor-fold>

    private void t2ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
    }

    private void addActionPerformed(java.awt.event.ActionEvent evt) {
        String url = "jdbc:mysql://localhost:3306/library";
        String user = "root";
        String pwd = "Taphasvi@266";
        String insertQuery = "INSERT INTO BOOKS VALUES(?,?,?,?,?)";
        String updateQuery = "UPDATE BOOKS SET COPIES=COPIES+? WHERE TITLE=?
AND CATEGORY=? AND AUTHOR=?";
        String id = t1.getText();
        String category = t2.getText();
        String title = t3.getText();
        String author = t4.getText();
        int copies = Integer.parseInt(t5.getText());
        try {
            Connection conn = DriverManager.getConnection(url, user, pwd);
            PreparedStatement checkStm = conn.prepareStatement(updateQuery);
            checkStm.setInt(1, copies);
            checkStm.setString(2, title);
            checkStm.setString(3, category);
            checkStm.setString(4, author);
```

```java
        int rows = checkStm.executeUpdate();
        if (rows > 0) {
            JOptionPane.showMessageDialog(this, "One record updated successfully");
        } else {
            PreparedStatement insertStm = conn.prepareStatement(insertQuery);
            insertStm.setString(1, id);
            insertStm.setString(2, category);
            insertStm.setString(3, title);
            insertStm.setString(4, author);
            insertStm.setInt(5, copies);
            insertStm.execute();
            JOptionPane.showMessageDialog(this, "One record added successfully");
        }
        t1.setText(null);
        t2.setText(null);
        t3.setText(null);
        t4.setText(null);
        t5.setText(null);

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

private void cancelActionPerformed(java.awt.event.ActionEvent evt) {
    this.dispose();
}

private void t1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

private void t3ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

private void t4ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

private void t5ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}
```

```java
    /**
     * @param args the command line arguments
     */
    public static void main(String args[]) {
        /* Set the Nimbus look and feel */
        //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional)
">
        /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and
feel.
         * For details see
http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
         */
        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(AddBooks.class.getName()).log(java.util.logging.Leve
l.SEVERE, null, ex);
        } catch (InstantiationException ex) {

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

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

java.util.logging.Logger.getLogger(AddBooks.class.getName()).log(java.util.logging.Leve
l.SEVERE, null, ex);
        }
        //</editor-fold>

        /* Create and display the form */
        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new AddBooks().setVisible(true);
            }
```

```java
        });
    }

    // Variables declaration - do not modify
    private javax.swing.JButton add;
    private javax.swing.JButton cancel;
    private javax.swing.JLabel jLabel1;
    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.JTextField t1;
    private javax.swing.JTextField t2;
    private javax.swing.JTextField t3;
    private javax.swing.JTextField t4;
    private javax.swing.JTextField t5;
    // End of variables declaration
}
```

5) REMOVE BOOKS

```java
import java.sql.*;
import javax.swing.*;

public class RemoveBooks extends javax.swing.JFrame {
    public RemoveBooks() {
        initComponents();
        setDefaultCloseOperation(RemoveBooks.DISPOSE_ON_CLOSE);
    }
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jLabel2 = new javax.swing.JLabel();
        delete = new javax.swing.JButton();
        cancel = new javax.swing.JButton();
        t1 = new javax.swing.JTextField();
        jLabel1 = new javax.swing.JLabel();

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

```java
        jLabel2.setFont(new java.awt.Font("Georgia", 0, 48)); // NOI18N
        jLabel2.setForeground(new java.awt.Color(102, 51, 0));
        jLabel2.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
        jLabel2.setText("Enter Book ID or Title");
        getContentPane().add(jLabel2, new
org.netbeans.lib.awtextra.AbsoluteConstraints(30, 170, 1381, 100));

        delete.setBackground(new java.awt.Color(245, 237, 218));
        delete.setFont(new java.awt.Font("Georgia", 0, 36)); // NOI18N
        delete.setForeground(new java.awt.Color(255, 255, 255));
        delete.setText("Delete");
        delete.setBorderPainted(false);
        delete.setContentAreaFilled(false);
        delete.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                deleteActionPerformed(evt);
            }
        });
        getContentPane().add(delete, new
org.netbeans.lib.awtextra.AbsoluteConstraints(240, 540, 440, 80));

        cancel.setBackground(new java.awt.Color(245, 237, 218));
        cancel.setFont(new java.awt.Font("Georgia", 0, 36)); // NOI18N
        cancel.setForeground(new java.awt.Color(255, 255, 255));
        cancel.setText("Cancel");
        cancel.setBorderPainted(false);
        cancel.setContentAreaFilled(false);
        cancel.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                cancelActionPerformed(evt);
            }
        });
        getContentPane().add(cancel, new
org.netbeans.lib.awtextra.AbsoluteConstraints(790, 540, 440, 80));

        t1.setBackground(new java.awt.Color(248, 242, 236));
        t1.setFont(new java.awt.Font("Georgia", 0, 36)); // NOI18N
        t1.setHorizontalAlignment(javax.swing.JTextField.CENTER);
        t1.setBorder(null);
        t1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                t1ActionPerformed(evt);
            }
```

```java
        });
        getContentPane().add(t1, new org.netbeans.lib.awtextra.AbsoluteConstraints(240,
360, 980, 100));

        jLabel1.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/Remove.jpg"))); // NOI18N
        getContentPane().add(jLabel1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, 1440, 900));

        pack();
    }// </editor-fold>

    private void deleteActionPerformed(java.awt.event.ActionEvent evt) {
        String url = "jdbc:mysql://localhost:3306/library";
        String user = "root";
        String pwd = "Taphasvi@266";
        String input = t1.getText();
        String query = "delete FROM BOOKS where book_id ='"+input+"' or title
='"+input+"';";
        try{
            Connection conn = DriverManager.getConnection(url,user,pwd);
            Statement stm = conn.createStatement();
            int rows = stm.executeUpdate(query);
            if(rows>0)
                JOptionPane.showMessageDialog(this, "Book removed from library!");
            else
                JOptionPane.showMessageDialog(this, "No such book available!");

            stm.close();
        }catch(Exception e){
            JOptionPane.showMessageDialog(this, e.getMessage());
        }
    }

    private void cancelActionPerformed(java.awt.event.ActionEvent evt) {
        this.dispose();
    }

    private void t1ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
    }

    /**
     * @param args the command line arguments
```

```java
     */
    public static void main(String args[]) {
        /* Set the Nimbus look and feel */
        //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional)
">
        /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and
feel.
         * For details see
http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
         */
        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(RemoveBooks.class.getName()).log(java.util.logging.
Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {

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

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

java.util.logging.Logger.getLogger(RemoveBooks.class.getName()).log(java.util.logging.
Level.SEVERE, null, ex);
        }
        //</editor-fold>

        /* Create and display the form */
        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new RemoveBooks().setVisible(true);
            }
        });
    }
```

```java
    // Variables declaration - do not modify
    private javax.swing.JButton cancel;
    private javax.swing.JButton delete;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JTextField t1;
    // End of variables declaration
}
```

6) AVAIALBLE STAFFS

```java
import java.sql.*;
import javax.swing.*;
import javax.swing.table.DefaultTableModel;

public class StaffAvailable extends javax.swing.JFrame {
    public StaffAvailable() {
        initComponents();
        setDefaultCloseOperation(StaffAvailable.DISPOSE_ON_CLOSE);
    }
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        fetch = new javax.swing.JButton();
        back = new javax.swing.JButton();
        jScrollPane2 = new javax.swing.JScrollPane();
        jTable2 = new javax.swing.JTable();
        jLabel1 = new javax.swing.JLabel();

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

        fetch.setBackground(new java.awt.Color(245, 237, 218));
        fetch.setFont(new java.awt.Font("Georgia", 0, 36)); // NOI18N
        fetch.setForeground(new java.awt.Color(255, 255, 255));
        fetch.setText("Fetch");
        fetch.setBorderPainted(false);
        fetch.setContentAreaFilled(false);
        fetch.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                fetchActionPerformed(evt);
            }
        });
```

```java
        getContentPane().add(fetch, new
org.netbeans.lib.awtextra.AbsoluteConstraints(190, 750, 440, 80));

        back.setBackground(new java.awt.Color(245, 237, 218));
        back.setFont(new java.awt.Font("Georgia", 0, 36)); // NOI18N
        back.setForeground(new java.awt.Color(255, 255, 255));
        back.setText("Back");
        back.setBorderPainted(false);
        back.setContentAreaFilled(false);
        back.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                backActionPerformed(evt);
            }
        });
        getContentPane().add(back, new
org.netbeans.lib.awtextra.AbsoluteConstraints(790, 750, 440, 80));

        jTable2.setBackground(new java.awt.Color(229, 214, 190));
        jTable2.setFont(new java.awt.Font("Georgia", 0, 14)); // NOI18N
        jTable2.setModel(new javax.swing.table.DefaultTableModel(
            new Object [][] {

            },
            new String [] {
                "Staff ID", "Name", "Contact"
            }
        ));
        jTable2.setOpaque(false);
        jScrollPane2.setViewportView(jTable2);

        getContentPane().add(jScrollPane2, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, 1440, 600));

        jLabel1.setFont(new java.awt.Font("Georgia", 0, 14)); // NOI18N
        jLabel1.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/BooksAvailable.jpg"))); // NOI18N
        getContentPane().add(jLabel1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, 1440, 900));

        pack();
    }// </editor-fold>

    private void fetchActionPerformed(java.awt.event.ActionEvent evt) {
        DefaultTableModel model = (DefaultTableModel)jTable2.getModel();
```

```java
        String url = "jdbc:mysql://localhost:3306/library";
        String user = "root";
        String pwd = "Taphasvi@266";
        String query = "SELECT *FROM STAFF;";
        try {
            Connection conn = DriverManager.getConnection(url,user,pwd);
            Statement stm = conn.createStatement();
            ResultSet rs = stm.executeQuery(query);
            while (rs.next()) {
                String staffid =rs.getString("STAFF_ID");
                String name = rs.getString("name");
                long contact = rs.getLong("CONTACT");
                model.addRow(new Object[] {staffid, name, contact});
            }
            rs.close();
            stm.close();
        }
        catch (Exception e) {
            JOptionPane.showMessageDialog(this, e.getMessage());

        }
    }

    private void backActionPerformed(java.awt.event.ActionEvent evt) {
        this.dispose();
    }

    /**
     * @param args the command line arguments
     */
    public static void main(String args[]) {
        /* Set the Nimbus look and feel */
        //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
        /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.
         * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
         */
        try {
            for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {
                    javax.swing.UIManager.setLookAndFeel(info.getClassName());
```

```java
                break;
            }
        }
    } catch (ClassNotFoundException ex) {

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

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

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

java.util.logging.Logger.getLogger(StaffAvailable.class.getName()).log(java.util.logging.L
evel.SEVERE, null, ex);
    }
    //</editor-fold>

    /* Create and display the form */
    java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
            new StaffAvailable().setVisible(true);
        }
    });
    }

    // Variables declaration - do not modify
    private javax.swing.JButton back;
    private javax.swing.JButton fetch;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JScrollPane jScrollPane2;
    private javax.swing.JTable jTable2;
    // End of variables declaration
}
```

7) ADD STAFF

```java
import java.sql.*;
import javax.swing.*;

public class AddStaff extends javax.swing.JFrame {
```

```java
    public AddStaff() {
        initComponents();
        setDefaultCloseOperation(AddStaff.DISPOSE_ON_CLOSE);
    }
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jLabel2 = new javax.swing.JLabel();
        jLabel4 = new javax.swing.JLabel();
        jLabel5 = new javax.swing.JLabel();
        jLabel6 = new javax.swing.JLabel();
        t1 = new javax.swing.JTextField();
        t2 = new javax.swing.JTextField();
        t3 = new javax.swing.JTextField();
        add = new javax.swing.JButton();
        cancel = new javax.swing.JButton();
        jLabel1 = new javax.swing.JLabel();

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

        jLabel2.setFont(new java.awt.Font("Georgia", 0, 48)); // NOI18N
        jLabel2.setForeground(new java.awt.Color(102, 51, 0));
        jLabel2.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
        jLabel2.setText("Add Staff");
        getContentPane().add(jLabel2, new
org.netbeans.lib.awtextra.AbsoluteConstraints(30, 130, 1381, 100));

        jLabel4.setFont(new java.awt.Font("Georgia", 0, 36)); // NOI18N
        jLabel4.setForeground(new java.awt.Color(51, 51, 0));
        jLabel4.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
        jLabel4.setText("Contact:");
        getContentPane().add(jLabel4, new
org.netbeans.lib.awtextra.AbsoluteConstraints(90, 600, 440, 90));

        jLabel5.setFont(new java.awt.Font("Georgia", 0, 36)); // NOI18N
        jLabel5.setForeground(new java.awt.Color(51, 51, 0));
        jLabel5.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
        jLabel5.setText("Name:");
        getContentPane().add(jLabel5, new
org.netbeans.lib.awtextra.AbsoluteConstraints(90, 440, 440, 90));

        jLabel6.setFont(new java.awt.Font("Georgia", 0, 36)); // NOI18N
```

```java
        jLabel6.setForeground(new java.awt.Color(51, 51, 0));
        jLabel6.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
        jLabel6.setText("Staff ID:");
        getContentPane().add(jLabel6, new
org.netbeans.lib.awtextra.AbsoluteConstraints(90, 280, 440, 90));

        t1.setBackground(new java.awt.Color(248, 242, 236));
        t1.setFont(new java.awt.Font("Georgia", 0, 36)); // NOI18N
        t1.setBorder(null);
        t1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                t1ActionPerformed(evt);
            }
        });
        getContentPane().add(t1, new org.netbeans.lib.awtextra.AbsoluteConstraints(710,
280, 640, 90));

        t2.setBackground(new java.awt.Color(248, 242, 236));
        t2.setFont(new java.awt.Font("Georgia", 0, 36)); // NOI18N
        t2.setBorder(null);
        t2.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                t2ActionPerformed(evt);
            }
        });
        getContentPane().add(t2, new org.netbeans.lib.awtextra.AbsoluteConstraints(710,
440, 640, 90));

        t3.setBackground(new java.awt.Color(248, 242, 236));
        t3.setFont(new java.awt.Font("Georgia", 0, 36)); // NOI18N
        t3.setBorder(null);
        t3.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                t3ActionPerformed(evt);
            }
        });
        getContentPane().add(t3, new org.netbeans.lib.awtextra.AbsoluteConstraints(710,
600, 640, 90));

        add.setBackground(new java.awt.Color(245, 237, 218));
        add.setFont(new java.awt.Font("Georgia", 0, 36)); // NOI18N
        add.setForeground(new java.awt.Color(255, 255, 255));
        add.setText("Add");
        add.setBorderPainted(false);
```

```java
        add.setContentAreaFilled(false);
        add.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                addActionPerformed(evt);
            }
        });
        getContentPane().add(add, new
org.netbeans.lib.awtextra.AbsoluteConstraints(190, 770, 440, 90));

        cancel.setBackground(new java.awt.Color(245, 237, 218));
        cancel.setFont(new java.awt.Font("Georgia", 0, 36)); // NOI18N
        cancel.setForeground(new java.awt.Color(255, 255, 255));
        cancel.setText("Cancel");
        cancel.setBorderPainted(false);
        cancel.setContentAreaFilled(false);
        cancel.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                cancelActionPerformed(evt);
            }
        });
        getContentPane().add(cancel, new
org.netbeans.lib.awtextra.AbsoluteConstraints(810, 770, 440, 90));

        jLabel1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/Add
Staff.jpg"))); // NOI18N
        getContentPane().add(jLabel1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, 1440, 900));

        pack();
    }// </editor-fold>

    private void t1ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
    }

    private void t2ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
    }

    private void t3ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
    }

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

```java
        String url = "jdbc:mysql://localhost:3306/library";
        String user = "root";
        String pwd = "Taphasvi@266";
        String query = "insert INTO STAFF values(?,?,?)";
            String id = t1.getText();
            String name = t2.getText();
            int contact = Integer.parseInt(t3.getText());
            try{
               Connection conn = DriverManager.getConnection(url, user, pwd);
                  PreparedStatement stm = conn.prepareCall(query);
                  stm.setString(1, id);
                  stm.setString(2, name);
                  stm.setInt(3, contact);
                  stm.execute();
                  JOptionPane.showMessageDialog(this, "One staff added successfully");
               t1.setText(null);
               t2.setText(null);
               t3.setText(null);
            }catch(Exception e) {
               JOptionPane.showMessageDialog(this, e);
            }
      }

   private void cancelActionPerformed(java.awt.event.ActionEvent evt) {
      this.dispose();
   }

   /**
    * @param args the command line arguments
    */
   public static void main(String args[]) {
      /* Set the Nimbus look and feel */
      //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional)
">
      /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and
feel.
       * For details see
http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
       */
      try {
         for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
             if ("Nimbus".equals(info.getName())) {
                 javax.swing.UIManager.setLookAndFeel(info.getClassName());
```

```java
                break;
            }
        }
    } catch (ClassNotFoundException ex) {

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

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

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

java.util.logging.Logger.getLogger(AddStaff.class.getName()).log(java.util.logging.Level.
SEVERE, null, ex);
    }
    //</editor-fold>

    /* Create and display the form */
    java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
            new AddStaff().setVisible(true);
        }
    });
}

// Variables declaration - do not modify
private javax.swing.JButton add;
private javax.swing.JButton cancel;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JTextField t1;
private javax.swing.JTextField t2;
private javax.swing.JTextField t3;
// End of variables declaration
}
```

8) Remove STAFF

```java
import java.sql.*;
import javax.swing.*;
public class RemoveStaff extends javax.swing.JFrame {

    /**
     * Creates new form RemoveStaff
     */
    public RemoveStaff() {
        initComponents();
        setDefaultCloseOperation(RemoveStaff.DISPOSE_ON_CLOSE);
    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jLabel2 = new javax.swing.JLabel();
        cancel = new javax.swing.JButton();
        delete = new javax.swing.JButton();
        t1 = new javax.swing.JTextField();
        jLabel1 = new javax.swing.JLabel();

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

        jLabel2.setFont(new java.awt.Font("Georgia", 0, 48)); // NOI18N
        jLabel2.setForeground(new java.awt.Color(102, 51, 0));
        jLabel2.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
        jLabel2.setText("Enter Staff ID or Name");
        getContentPane().add(jLabel2, new
org.netbeans.lib.awtextra.AbsoluteConstraints(30, 170, 1381, 100));

        cancel.setBackground(new java.awt.Color(245, 237, 218));
        cancel.setFont(new java.awt.Font("Georgia", 0, 36)); // NOI18N
        cancel.setForeground(new java.awt.Color(255, 255, 255));
        cancel.setText("Cancel");
        cancel.setBorderPainted(false);
        cancel.setContentAreaFilled(false);
```

```java
        cancel.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                cancelActionPerformed(evt);
            }
        });
        getContentPane().add(cancel, new
org.netbeans.lib.awtextra.AbsoluteConstraints(790, 540, 440, 80));

        delete.setBackground(new java.awt.Color(245, 237, 218));
        delete.setFont(new java.awt.Font("Georgia", 0, 36)); // NOI18N
        delete.setForeground(new java.awt.Color(255, 255, 255));
        delete.setText("Delete");
        delete.setBorderPainted(false);
        delete.setContentAreaFilled(false);
        delete.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                deleteActionPerformed(evt);
            }
        });
        getContentPane().add(delete, new
org.netbeans.lib.awtextra.AbsoluteConstraints(240, 540, 440, 80));

        t1.setBackground(new java.awt.Color(248, 242, 236));
        t1.setFont(new java.awt.Font("Georgia", 0, 36)); // NOI18N
        t1.setHorizontalAlignment(javax.swing.JTextField.CENTER);
        t1.setBorder(null);
        t1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                t1ActionPerformed(evt);
            }
        });
        getContentPane().add(t1, new org.netbeans.lib.awtextra.AbsoluteConstraints(240,
360, 980, 100));

        jLabel1.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/Remove.jpg"))); // NOI18N
        getContentPane().add(jLabel1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, 1440, 900));

        pack();
    }// </editor-fold>

    private void cancelActionPerformed(java.awt.event.ActionEvent evt) {
        this.dispose();
```

```java
        }

    private void deleteActionPerformed(java.awt.event.ActionEvent evt) {
        String url = "jdbc:mysql://localhost:3306/library";
        String user = "root";
        String pwd = "Taphasvi@266";
        String input = t1.getText();
        String query = "delete FROM STAFF where staff_id ='"+input+"' or name
='"+input+"';";
        try{
            Connection conn = DriverManager.getConnection(url, user, pwd);
            Statement stm = conn.createStatement();
            int rows = stm.executeUpdate(query);
            if(rows>0)
            JOptionPane.showMessageDialog(this, "Staff removed from library!");
            else
            JOptionPane.showMessageDialog(this, "No staff available!");

            stm.close();
        }catch(Exception e){
            JOptionPane.showMessageDialog(this, e.getMessage());
        }
    }

    private void t1ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
    }

    /**
     * @param args the command line arguments
     */
    public static void main(String args[]) {
        /* Set the Nimbus look and feel */
        //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional)
">
        /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and
feel.
         * For details see
http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
         */
        try {
            for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {
```

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

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

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

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

java.util.logging.Logger.getLogger(RemoveStaff.class.getName()).log(java.util.logging.L
evel.SEVERE, null, ex);
    }
    //</editor-fold>

    /* Create and display the form */
    java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
            new RemoveStaff().setVisible(true);
        }
    });
}

// Variables declaration - do not modify
private javax.swing.JButton cancel;
private javax.swing.JButton delete;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JTextField t1;
// End of variables declaration
}
```

9) EDIT ADMIN
```java
import java.sql.*;
import javax.swing.*;
```

```java
public class EditAdmin extends javax.swing.JFrame {
    public EditAdmin() {
        initComponents();
        setDefaultCloseOperation(EditAdmin.DISPOSE_ON_CLOSE);
    }
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jLabel2 = new javax.swing.JLabel();
        jLabel3 = new javax.swing.JLabel();
        jComboBox1 = new javax.swing.JComboBox<>();
        t1 = new javax.swing.JTextField();
        update = new javax.swing.JButton();
        cancel = new javax.swing.JButton();
        jLabel1 = new javax.swing.JLabel();

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

        jLabel2.setFont(new java.awt.Font("Georgia", 0, 48)); // NOI18N
        jLabel2.setForeground(new java.awt.Color(102, 51, 0));
        jLabel2.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
        jLabel2.setText("Updated Value:");
        getContentPane().add(jLabel2, new
org.netbeans.lib.awtextra.AbsoluteConstraints(20, 370, 1381, 90));

        jLabel3.setFont(new java.awt.Font("Georgia", 0, 48)); // NOI18N
        jLabel3.setForeground(new java.awt.Color(102, 51, 0));
        jLabel3.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
        jLabel3.setText("Edit:");
        getContentPane().add(jLabel3, new
org.netbeans.lib.awtextra.AbsoluteConstraints(30, 130, 1381, 90));

        jComboBox1.setBackground(new java.awt.Color(248, 242, 236));
        jComboBox1.setFont(new java.awt.Font("Georgia", 0, 14)); // NOI18N
        jComboBox1.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] {
"USER_ID", "NAME", "PASSWORD", "CONTACT" }));
        jComboBox1.setBorder(null);
        getContentPane().add(jComboBox1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(232, 243, 980, 100));

        t1.setBackground(new java.awt.Color(248, 242, 236));
        t1.setFont(new java.awt.Font("Georgia", 0, 36)); // NOI18N
```

```java
        t1.setHorizontalAlignment(javax.swing.JTextField.CENTER);
        t1.setBorder(null);
        t1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                t1ActionPerformed(evt);
            }
        });
        getContentPane().add(t1, new org.netbeans.lib.awtextra.AbsoluteConstraints(250,
490, 970, 100));

        update.setBackground(new java.awt.Color(245, 237, 218));
        update.setFont(new java.awt.Font("Georgia", 0, 36)); // NOI18N
        update.setForeground(new java.awt.Color(255, 255, 255));
        update.setText("Update");
        update.setBorderPainted(false);
        update.setContentAreaFilled(false);
        update.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                updateActionPerformed(evt);
            }
        });
        getContentPane().add(update, new
org.netbeans.lib.awtextra.AbsoluteConstraints(230, 650, 440, 80));

        cancel.setBackground(new java.awt.Color(245, 237, 218));
        cancel.setFont(new java.awt.Font("Georgia", 0, 36)); // NOI18N
        cancel.setForeground(new java.awt.Color(255, 255, 255));
        cancel.setText("Cancel");
        cancel.setBorderPainted(false);
        cancel.setContentAreaFilled(false);
        cancel.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                cancelActionPerformed(evt);
            }
        });
        getContentPane().add(cancel, new
org.netbeans.lib.awtextra.AbsoluteConstraints(790, 650, 440, 80));

        jLabel1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/Edit
Admin.jpg"))); // NOI18N
        getContentPane().add(jLabel1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, 1440, 900));

        pack();
```

```java
    }// </editor-fold>

    private void t1ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
    }

    private void updateActionPerformed(java.awt.event.ActionEvent evt) {
        String url = "jdbc:mysql://localhost:3306/library";
        String user = "root";
        String pwd = "Taphasvi@266";
        String id = t1.getText();
        String column = jComboBox1.getSelectedItem().toString();
        String query = "update admin set "+column+" = '"+id+"';";
        try{
            Connection conn = DriverManager.getConnection(url, user,pwd);
            Statement stmt = conn.createStatement();
            int rows=stmt.executeUpdate(query);
            if(rows>0){
                JOptionPane.showMessageDialog(this, "Credentials Updated Successfully");
            }
            t1.setText("");
        }catch(Exception e){
            JOptionPane.showMessageDialog(this, e);
        }
    }

    private void cancelActionPerformed(java.awt.event.ActionEvent evt) {
        this.dispose();
    }

    /**
     * @param args the command line arguments
     */
    public static void main(String args[]) {
        /* Set the Nimbus look and feel */
        //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional)
">
        /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and
feel.
         * For details see
http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
         */
        try {
```

```java
        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(EditAdmin.class.getName()).log(java.util.logging.Leve
l.SEVERE, null, ex);
    } catch (InstantiationException ex) {

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

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

java.util.logging.Logger.getLogger(EditAdmin.class.getName()).log(java.util.logging.Leve
l.SEVERE, null, ex);
    }
    //</editor-fold>

    /* Create and display the form */
    java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
            new EditAdmin().setVisible(true);
        }
    });
}

// Variables declaration - do not modify
private javax.swing.JButton cancel;
private javax.swing.JComboBox<String> jComboBox1;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JTextField t1;
private javax.swing.JButton update;
// End of variables declaration
}
```
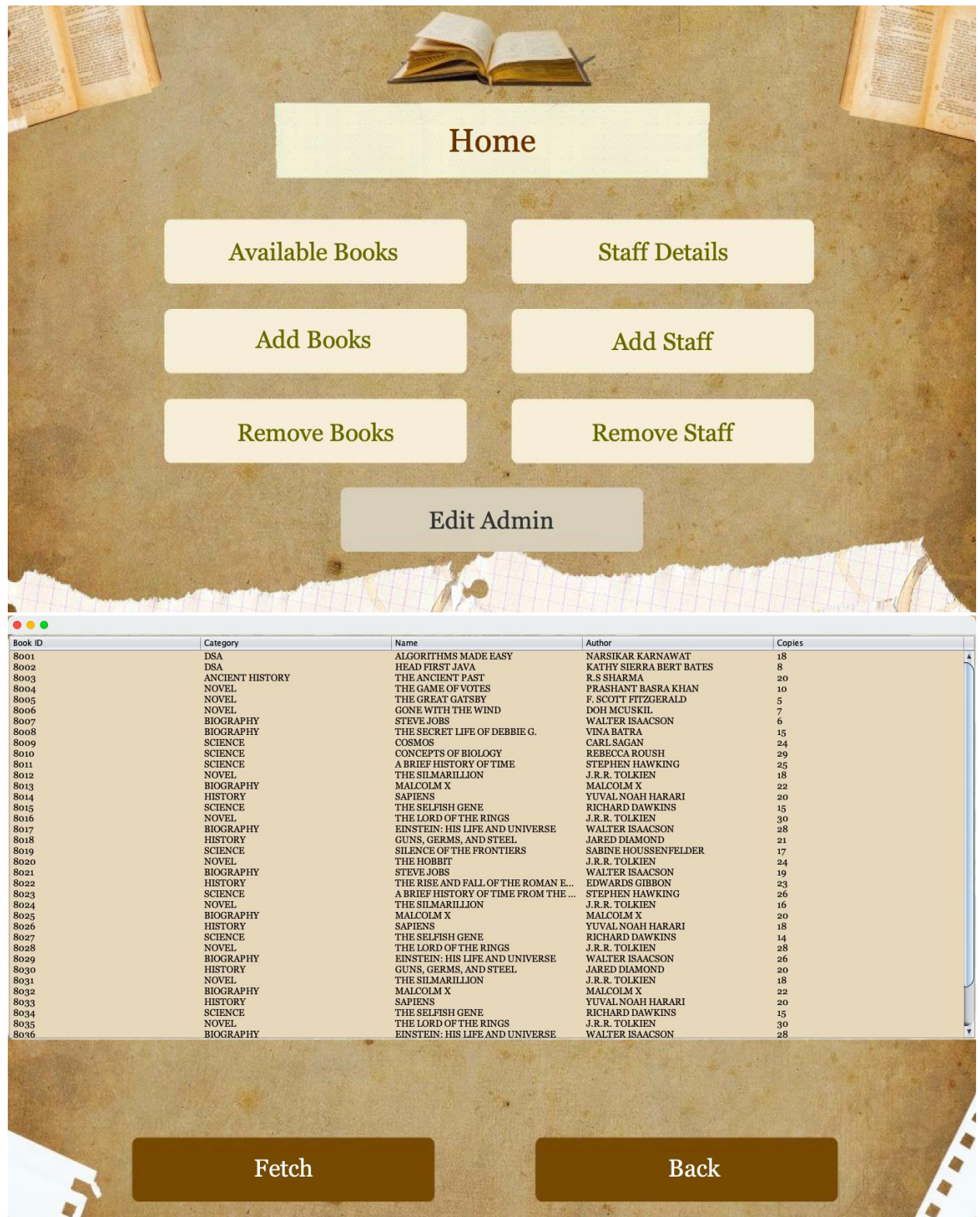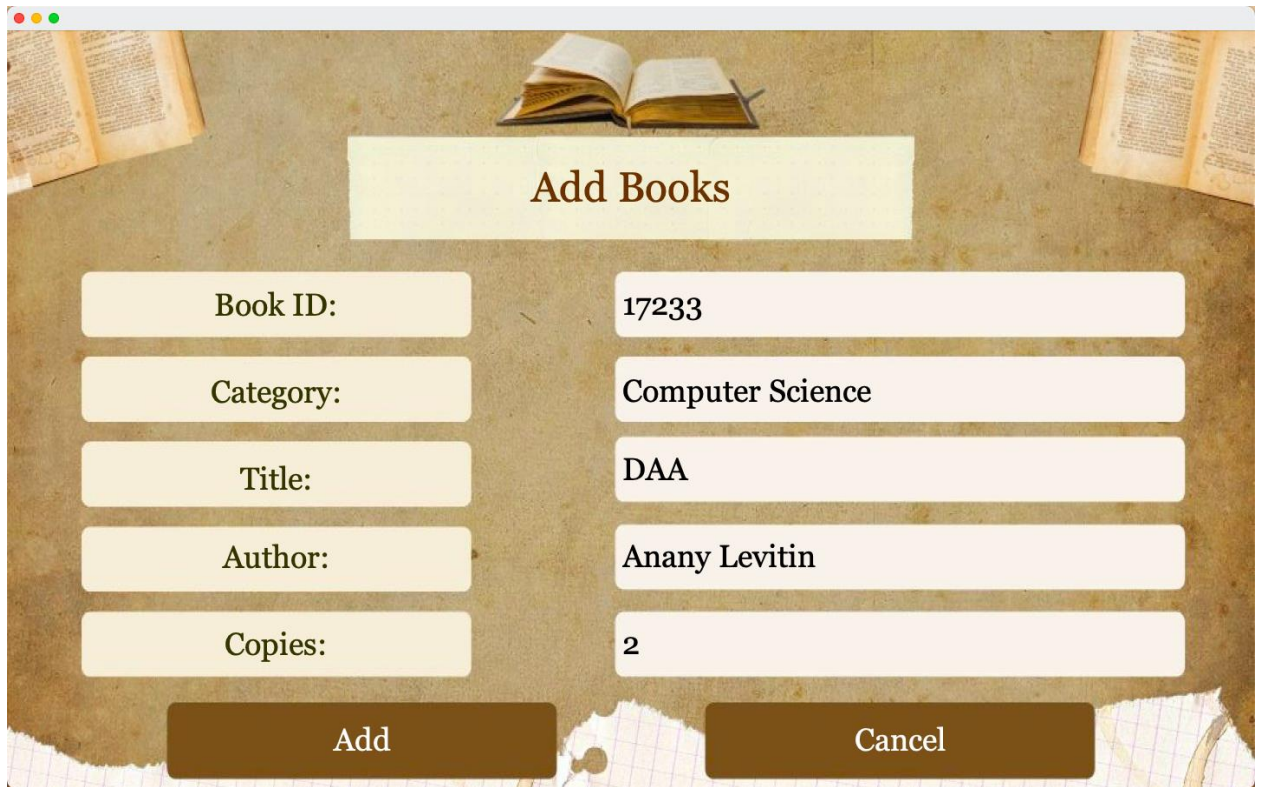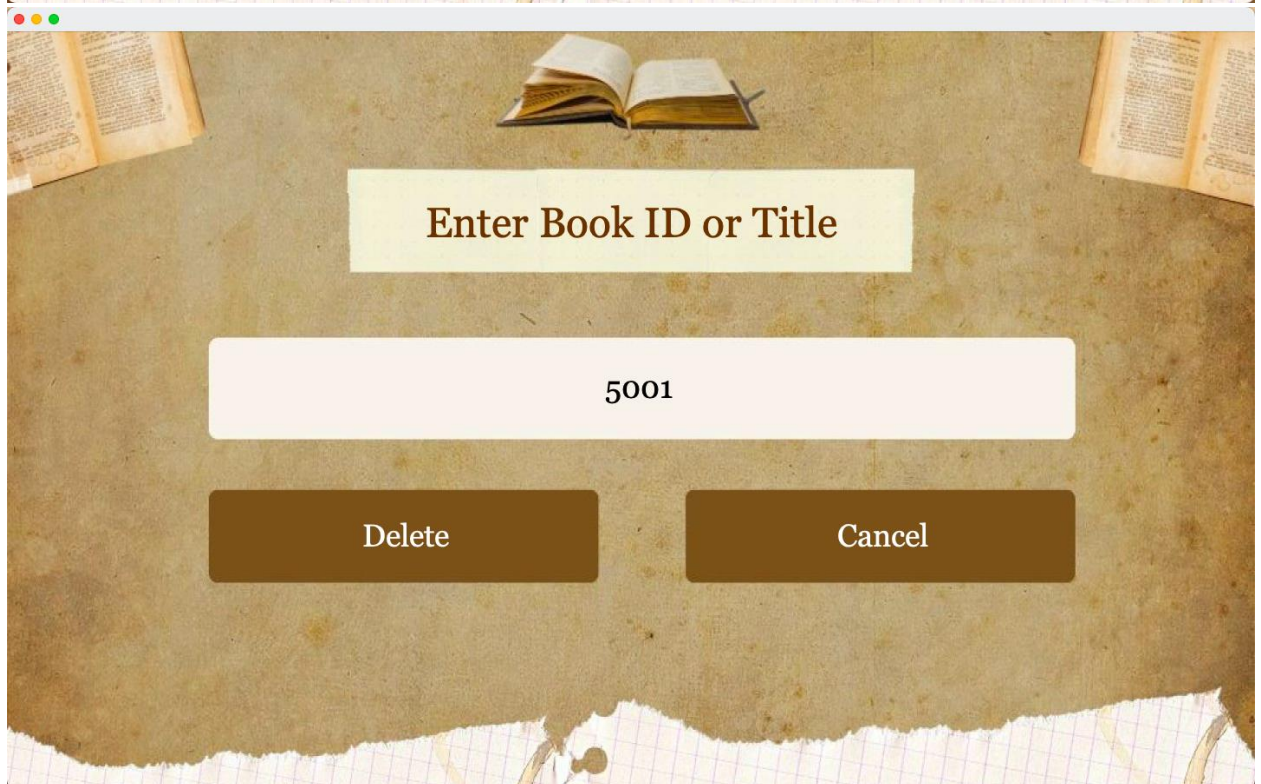
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8025	BIOGRAPHY	MALCOLM X	MALCOLM X	20
8026	HISTORY	SAPIENS	YUVAL NOAH HARARI	18
8027	SCIENCE	THE SELFISH GENE	RICHARD DAWKINS	14
8028	NOVEL	THE LORD OF THE RINGS	J.R.R. TOLKIEN	28
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8030	HISTORY	GUNS, GERMS, AND STEEL	JARED DIAMOND	20
8031	NOVEL	THE SILMARILLION	J.R.R. TOLKIEN	18
8032	BIOGRAPHY	MALCOLM X	MALCOLM X	22
8033	HISTORY	SAPIENS	YUVAL NOAH HARARI	20
8034	SCIENCE	THE SELFISH GENE	RICHARD DAWKINS	15
8035	NOVEL	THE LORD OF THE RINGS	J.R.R. TOLKIEN	30
8036	BIOGRAPHY	EINSTEIN: HIS LIFE AND UNIVERSE	WALTER ISAACSON	28

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1003	Vruksha	954231432
1004	Preethi	956314312
1005	Leo	889775434
1006	Garnacho	864778356
1007	Amad	873567652
1008	Messi	783568903
1009	Mainoo	890267489
1010	Rashford	908765678
1011	Onana	908767894
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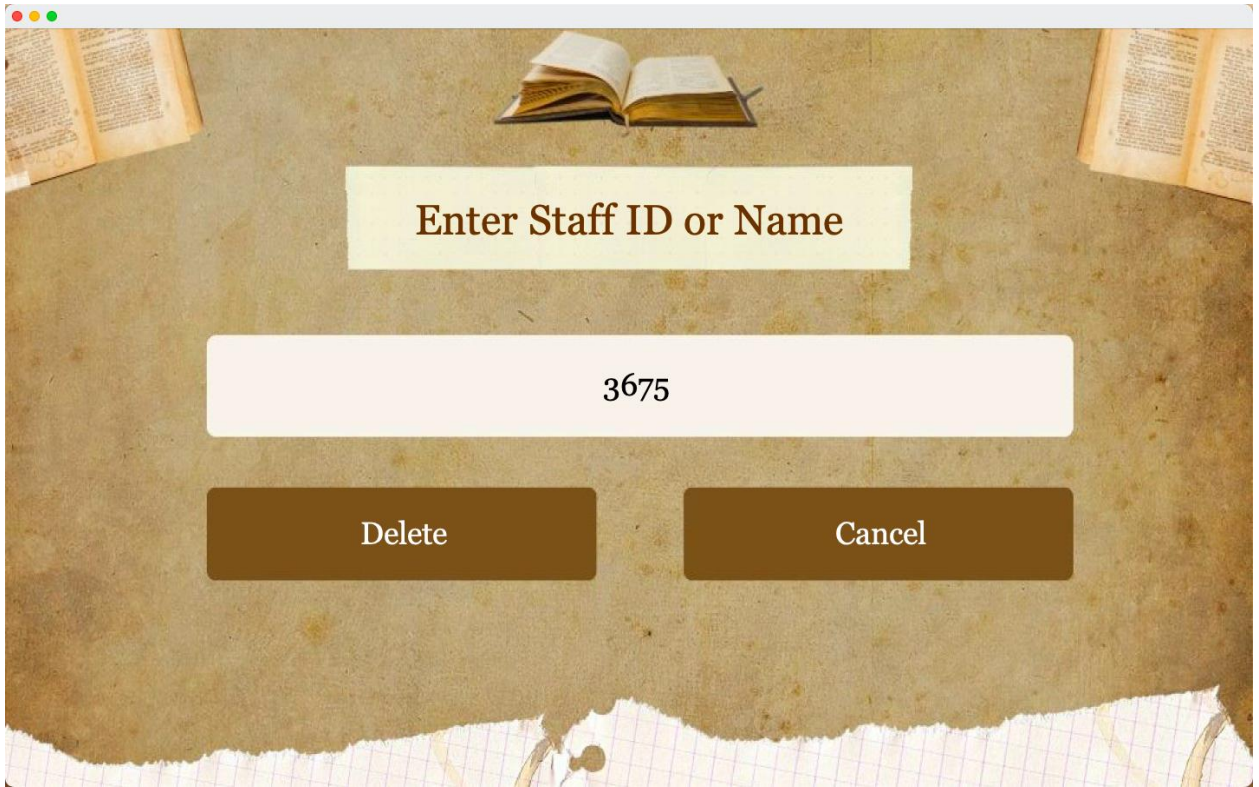
Name: George

Contact: 98367829
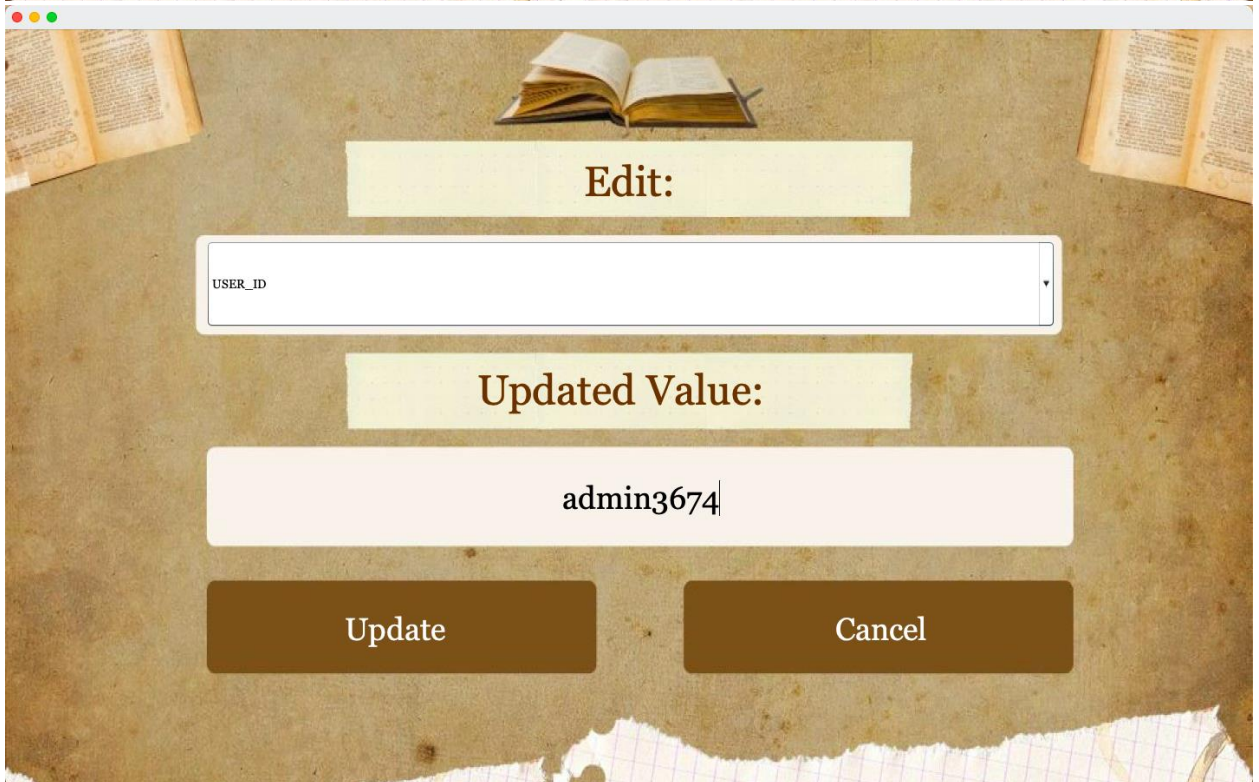
Add   **Cancel**

Enter Staff ID or Name

3675

Delete   **Cancel**

Edit:

USER_ID ▾

Updated Value:

admin3674

Update   **Cancel**

Welcome!

User Name   ritika2805

Password   *******

Login