



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

Batch: B-4 **Roll No.:** 1814123
Experiment / assignment / tutorial No.: 10
Grade: AA / AB / BB / BC / CC / CD /DD

Signature of the Staff In-charge with date

TITLE: Mini Project

AIM: Mini Project

Expected OUTCOME of Experiment:

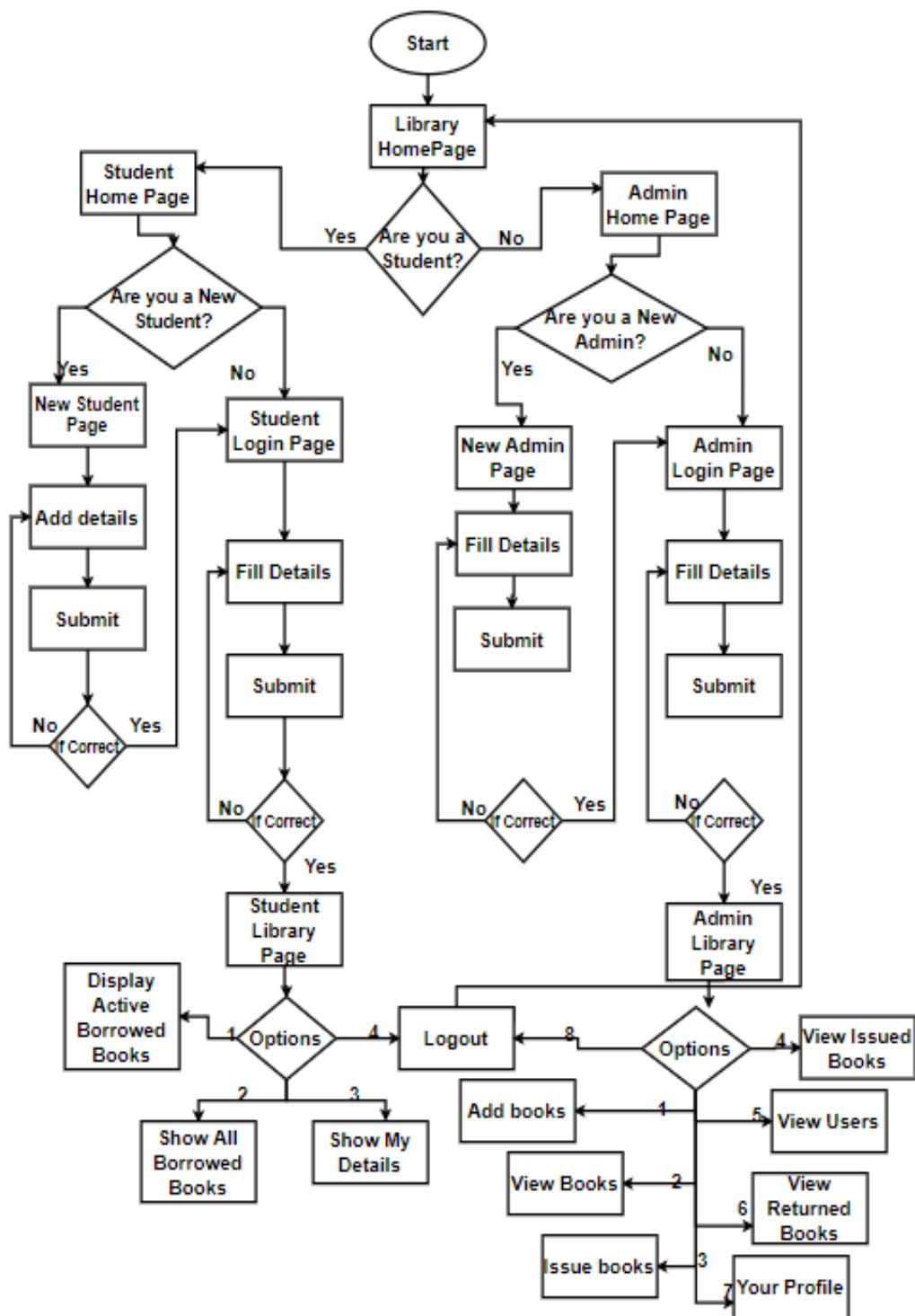
CO4: Design Java applications using JDBC connectivity and understand the basic concepts of mobile programming

Books/ Journals/ Websites referred:

Problem Definition:

To create a library management System which is able to handle student, admin, book details. The system should help in tracking borrowed, return book details, as well student details. The Student can keep track on his/her currently borrowed book, all borrowed books and details of his own. While the Admin, can add books, Issue books, view all user details, view Returned books as well as can view information of his own profile.

Algorithm:





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Implementation details:

Code:

Admin Part:

1.AddBooks.java

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package AdminPart;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import javax.swing.JOptionPane;

/**
 *
 * @author jaina
 */
public class AddBooks extends javax.swing.JFrame {
    String isbn, bookName, category, price, authorName, publisherName;
    float bookPrice;
    String errorLabel = "";
    boolean flag=false;
    boolean bookStatus=true;

    /**
     * Creates new form AddBooks
     */
    public AddBooks() {
        initComponents();
        this.flag=false;
        setVisible(true);
    }

    /**
     * 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() {

        jPanel1 = new javax.swing.JPanel();
        jPanel2 = new javax.swing.JPanel();
        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        jLabel3 = new javax.swing.JLabel();
        jLabel4 = new javax.swing.JLabel();
        jLabel5 = new javax.swing.JLabel();
    }
}
```



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```
jTextField1 = new javax.swing.JTextField();
jLabel6 = new javax.swing.JLabel();
jTextField2 = new javax.swing.JTextField();
jLabel7 = new javax.swing.JLabel();
jTextField3 = new javax.swing.JTextField();
jLabel8 = new javax.swing.JLabel();
jTextField4 = new javax.swing.JTextField();
jTextField5 = new javax.swing.JTextField();
jTextField6 = new javax.swing.JTextField();
jLabel9 = new javax.swing.JLabel();
jLabel10 = new javax.swing.JLabel();
jButton1 = new javax.swing.JButton();
jButton2 = new javax.swing.JButton();

setDefaultCloseOperation(javax.swing.WindowConstants.DO NOTHING ON CLOSE);
setAlwaysOnTop(true);
setMaximumSize(new java.awt.Dimension(700, 600));
setMinimumSize(new java.awt.Dimension(700, 600));
setResizable(false);

jPanel1.setBackground(new java.awt.Color(51, 255, 255));
jPanel1.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(102, 102, 255), 8, true));
jPanel1.setMaximumSize(new java.awt.Dimension(700, 600));
jPanel1.setMinimumSize(new java.awt.Dimension(700, 600));
jPanel1.setPreferredSize(new java.awt.Dimension(700, 600));
jPanel1.setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

jPanel2.setBackground(new java.awt.Color(102, 102, 255));
jPanel2.setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

jLabel1.setFont(new java.awt.Font("Colonna MT", 3, 45)); // NOI18N
jLabel1.setForeground(new java.awt.Color(255, 255, 255));
jLabel1.setText("Library Management System");
jPanel2.add(jLabel1, new org.netbeans.lib.awtextra.AbsoluteConstraints(45, 13, -1, -1));

jLabel2.setFont(new java.awt.Font("MV Boli", 1, 24)); // NOI18N
jLabel2.setForeground(new java.awt.Color(255, 255, 255));
jLabel2.setText("Add Books!!!");
jPanel2.add(jLabel2, new org.netbeans.lib.awtextra.AbsoluteConstraints(20, 60, -1, -1));

jPanel1.add(jPanel2, new org.netbeans.lib.awtextra.AbsoluteConstraints(20, 8, 660, 100));

jPanel3.setBackground(new java.awt.Color(51, 255, 255));
jPanel3.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(102, 102, 255), 5, true));
jPanel3.setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

jLabel3.setFont(new java.awt.Font("Bodoni MT Condensed", 0, 36)); // NOI18N
jLabel3.setForeground(new java.awt.Color(102, 102, 255));
jLabel3.setText("Please Enter Book Details Here:");
jPanel3.add(jLabel3, new org.netbeans.lib.awtextra.AbsoluteConstraints(18, 18, -1, -1));

jLabel4.setFont(new java.awt.Font("Bodoni MT Condensed", 0, 24)); // NOI18N
jLabel4.setForeground(new java.awt.Color(102, 102, 255));
jLabel4.setText("( Example is given )");
jPanel3.add(jLabel4, new org.netbeans.lib.awtextra.AbsoluteConstraints(340, 25, -1, -1));

jLabel5.setFont(new java.awt.Font("Tahoma", 0, 20)); // NOI18N
jLabel5.setForeground(new java.awt.Color(102, 102, 255));
jLabel5.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
```



K. J. Somaiya College of Engineering, Mumbai-77

(Autonomous College Affiliated to University of Mumbai)

```
jLabel5.setText("ISBN No.:");
jPanel3.add(jLabel5, new org.netbeans.lib.awtextra.AbsoluteConstraints(20, 90, 133, -1));

jTextField1.setBackground(new java.awt.Color(51, 255, 255));
jTextField1.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N
jTextField1.setForeground(new java.awt.Color(102, 102, 255));
jTextField1.setHorizontalAlignment(javax.swing.JTextField.CENTER);
jTextField1.setText("1234567890123");
jTextField1.setToolTipText("Enter ISBN No. Of The Book.");
jTextField1.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(102, 102, 255), 1,
true));
jPanel3.add(jTextField1, new org.netbeans.lib.awtextra.AbsoluteConstraints(156, 85, 140, 30));

jLabel6.setFont(new java.awt.Font("Tahoma", 0, 20)); // NOI18N
jLabel6.setForeground(new java.awt.Color(102, 102, 255));
jLabel6.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
jLabel6.setText("Book Name: ");
jPanel3.add(jLabel6, new org.netbeans.lib.awtextra.AbsoluteConstraints(315, 90, 150, -1));

jTextField2.setBackground(new java.awt.Color(51, 255, 255));
jTextField2.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N
jTextField2.setForeground(new java.awt.Color(102, 102, 255));
jTextField2.setHorizontalAlignment(javax.swing.JTextField.CENTER);
jTextField2.setText("Java World");
jTextField2.setToolTipText("Enter Book Name.");
jTextField2.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(102, 102, 255), 1,
true));
jPanel3.add(jTextField2, new org.netbeans.lib.awtextra.AbsoluteConstraints(470, 85, 140, 30));

jLabel7.setFont(new java.awt.Font("Tahoma", 0, 20)); // NOI18N
jLabel7.setForeground(new java.awt.Color(102, 102, 255));
jLabel7.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
jLabel7.setText("Category:");
jLabel7.setToolTipText("");
jPanel3.add(jLabel7, new org.netbeans.lib.awtextra.AbsoluteConstraints(20, 140, 130, -1));

jTextField3.setBackground(new java.awt.Color(51, 255, 255));
jTextField3.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N
jTextField3.setForeground(new java.awt.Color(102, 102, 255));
jTextField3.setHorizontalAlignment(javax.swing.JTextField.CENTER);
jTextField3.setText("Programming");
jTextField3.setToolTipText("Enter Book Category. ");
jTextField3.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(102, 102, 255), 1,
true));
jPanel3.add(jTextField3, new org.netbeans.lib.awtextra.AbsoluteConstraints(156, 135, 140, 30));

jLabel8.setFont(new java.awt.Font("Tahoma", 0, 20)); // NOI18N
jLabel8.setForeground(new java.awt.Color(102, 102, 255));
jLabel8.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
jLabel8.setText("Book Price:");
jLabel8.setToolTipText("");
jPanel3.add(jLabel8, new org.netbeans.lib.awtextra.AbsoluteConstraints(315, 140, 150, -1));

jTextField4.setBackground(new java.awt.Color(51, 255, 255));
jTextField4.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N
jTextField4.setForeground(new java.awt.Color(102, 102, 255));
jTextField4.setHorizontalAlignment(javax.swing.JTextField.CENTER);
jTextField4.setText("450");
jTextField4.setToolTipText("Enter Book Price.");
```



K. J. Somaiya College of Engineering, Mumbai-77

(Autonomous College Affiliated to University of Mumbai)

```
jTextField4.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(102, 102, 255), 1,
true));
jPanel3.add(jTextField4, new org.netbeans.lib.awtextra.AbsoluteConstraints(470, 135, 140, 30));

jTextField5.setBackground(new java.awt.Color(51, 255, 255));
jTextField5.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N
jTextField5.setForeground(new java.awt.Color(102, 102, 255));
jTextField5.setHorizontalAlignment(javax.swing.JTextField.CENTER);
jTextField5.setText("John Doe");
jTextField5.setToolTipText("Enter Authors Name.");
jTextField5.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(102, 102, 255), 1,
true));
jPanel3.add(jTextField5, new org.netbeans.lib.awtextra.AbsoluteConstraints(156, 185, 140, 30));

jTextField6.setBackground(new java.awt.Color(51, 255, 255));
jTextField6.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N
jTextField6.setForeground(new java.awt.Color(102, 102, 255));
jTextField6.setHorizontalAlignment(javax.swing.JTextField.CENTER);
jTextField6.setText("Java World");
jTextField6.setToolTipText("Enter Publishers Name.");
jTextField6.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(102, 102, 255), 1,
true));
jPanel3.add(jTextField6, new org.netbeans.lib.awtextra.AbsoluteConstraints(470, 185, 140, 30));

jLabel9.setFont(new java.awt.Font("Tahoma", 0, 20)); // NOI18N
jLabel9.setForeground(new java.awt.Color(102, 102, 255));
jLabel9.setText("Authors Name:");
jLabel9.setToolTipText("");
jPanel3.add(jLabel9, new org.netbeans.lib.awtextra.AbsoluteConstraints(20, 190, -1, -1));

jLabel10.setFont(new java.awt.Font("Tahoma", 0, 20)); // NOI18N
jLabel10.setForeground(new java.awt.Color(102, 102, 255));
jLabel10.setText("Publishers Name:");
jLabel10.setToolTipText("");
jPanel3.add(jLabel10, new org.netbeans.lib.awtextra.AbsoluteConstraints(315, 190, -1, -1));

jPanel1.add(jPanel3, new org.netbeans.lib.awtextra.AbsoluteConstraints(30, 190, 640, 270));

jButton1.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/Images/2_AddBook.png"))); // NOI18N

jButton1.setBevelBorder(javax.swing.BorderFactory.createBevelBorder(javax.swing.border.BevelBorder.RAISED,
java.awt.Color.blue, java.awt.Color.blue, java.awt.Color.blue, java.awt.Color.blue));
jButton1.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});
jPanel1.add(jButton1, new org.netbeans.lib.awtextra.AbsoluteConstraints(290, 500, 120, 50));

jButton2.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/Images/0_PreviousButton.jpg"))); // NOI18N
jButton2.setToolTipText("To Go To Previous Page.");

jButton2.setBevelBorder(javax.swing.BorderFactory.createBevelBorder(javax.swing.border.BevelBorder.RAISED,
java.awt.Color.blue, java.awt.Color.blue, java.awt.Color.blue, java.awt.Color.blue));
jButton2.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
jButton2.addActionListener(new java.awt.event.ActionListener() {
```



K. J. Somaiya College of Engineering, Mumbai-77

(Autonomous College Affiliated to University of Mumbai)

```
public void actionPerformed(java.awt.event.ActionEvent evt) {
    jButton2ActionPerformed(evt);
}
});
jPanel1.add(jButton2, new org.netbeans.lib.awtextra.AbsoluteConstraints(30, 120, 75, 50));

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE, 700,
    javax.swing.GroupLayout.PREFERRED_SIZE)
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE, 600,
    javax.swing.GroupLayout.PREFERRED_SIZE)
);

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

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    errorLabel="";
    String l1 = validateTextField1();
    String l2 = validateTextField2();
    String l3 = validateTextField3();
    String l4 = validateTextField4();
    String l5 = validateTextField5();
    String l6 = validateTextField6();
    String label = l1+l2+l3+l4+l5+l6;
    if(flag)
    {
        JOptionPane.showMessageDialog(this, label,"ERRORS",JOptionPane.ERROR_MESSAGE);
    }
    else
    {
        bookPrice = Integer.parseInt(price);
        int option = JOptionPane.showConfirmDialog(this, "Are you SURE you want to add this book?", "Confirmation", JOptionPane.YES_NO_OPTION);
        if(option==0)
        {
            Connection con=null;
            PreparedStatement pst=null;
            try{
                String url = "jdbc:mysql://localhost:3306/library";
                String MySQLname = "root";
                String password = "";
                //Class.forName("com.mysql.jdbc.Driver");
                con=(Connection) DriverManager.getConnection(url,MySQLname,password);
                if(con == null)
                {
                    JOptionPane.showMessageDialog(this, "Error in Connecting To Database!!!");
                }
                else
                {
                    String sql = "INSERT INTO book (BookName, ISBNNo, AuthorName, Category, Price,
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
Publisher, Status)+" VALUES (?, ?, ?, ?, ?, ?, ?, ?);"
        pst=con.prepareStatement(sql);
        pst.setString(1,bookName);
        pst.setString(2,isbn);
        pst.setString(3,authorName);
        pst.setString(4,category);
        pst.setFloat(5,bookPrice);
        pst.setString(6,publisherName);
        pst.setBoolean(7,bookStatus);
        int r=pst.executeUpdate();
    //    ResultSet rs=pst.executeQuery(sql); //view data in table format
        pst.close();
        con.close();
    //    rs.close();
    if(r>0)
        {JOptionPane.showMessageDialog(this, "Book "+bookName+" of ISBN No.:"+isbn+" is
Added Successfully!!","Message",JOptionPane.INFORMATION_MESSAGE);}
        jTextField1.setText(null);
        jTextField2.setText(null);
        jTextField3.setText(null);
        jTextField4.setText(null);
        jTextField5.setText(null);
        jTextField6.setText(null);
    }
}catch (Exception e1) {
    // TODO Auto-generated catch block
    JOptionPane.showMessageDialog(null, e1);
}
}
else
{
    this.dispose();
}
}
//jLabel12.setText(label);

}

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

public String validateTextField1()
{
    errorLabel="";
    flag=false;
    isbn = jTextField1.getText();
    bookName = jTextField2.getText();
    category = jTextField3.getText();
    price = jTextField4.getText();
    authorName = jTextField5.getText();
    publisherName = jTextField6.getText();
    if(isbn.equals("") || isbn.length()!=13)
    {
        errorLabel = errorLabel + " Enter ISBN No. of 13 digit.";
        jTextField1.setText(null);
        flag=true;
    }
}
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
if(isbn.length()==13)
{
    char arr[] = isbn.toCharArray();
    for(int i=0; i<13; i++)
    {
        if(arr[i]<48 || arr[i]>57)
        {
            errorLabel = errorLabel + " ISBN No. Should be Digits Only.";
            jTextField1.setText(null);
            flag=true;
            break;
        }
    }
    return errorLabel;
}

public String validateTextField2()
{
    errorLabel="";
    if(bookName.equals(""))
    {
        errorLabel = errorLabel + "\n Enter Book Name.";
        jTextField2.setText(null);
        flag=true;
    }
    return errorLabel;
}

public String validateTextField3()
{
    errorLabel="";
    if(category.equals(""))
    {
        errorLabel = errorLabel + "\n Enter Book Category.";
        jTextField3.setText(null);
        flag=true;
    }
    return errorLabel;
}

public String validateTextField4()
{
    errorLabel="";

    if(price.equals(""))
    {
        errorLabel = errorLabel + "\n Enter Book Price.";
        jTextField4.setText(null);
        flag=true;
    }

    if(price!=null)
    {
        char pr[] = price.toCharArray();
        for(int i=0; i<price.length(); i++)
        {
            if(pr[i]=='.' || pr[i]<48 || pr[i]>57)
```



K. J. Somaiya College of Engineering, Mumbai-77
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```
{  
    errorLabel = errorLabel + "\n Price Should be Floating Points Only.";  
    jTextField4.setText(null);  
    flag=true;  
    break;  
}  
}  
}  
return errorLabel;  
}  
  
public String validateTextField5()  
{  
  
    errorLabel="";  
    if(authorName.equals(""))  
    {  
        errorLabel = errorLabel + "\n Enter Authors Name.";  
        jTextField5.setText(null);  
        flag=true;  
    }  
    return errorLabel;  
}  
  
public String validateTextField6()  
{  
  
    errorLabel="";  
    if(publisherName.equals(""))  
    {  
        errorLabel = errorLabel + "\n Enter Publishers Name.";  
        jTextField6.setText(null);  
        flag=true;  
    }  
    return errorLabel;  
}  
  
/**  
 * @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.Level.SEVERE,  
null, ex);  
    } catch (InstantiationException ex) {  

```



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

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

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

//</editor-fold>
//</editor-fold>

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

// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel10;
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.JPanel jPanel1;
private javax.swing.JPanel jPanel2;
private javax.swing.JPanel jPanel3;
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;
// End of variables declaration
}
```

2.AdminFunctions.java

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package AdminPart;
import LMSLoginPart.Homepage;
import javax.swing.JOptionPane;
/**
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
*  
* @author jaina  
*/  
public class AdminFunctions extends javax.swing.JFrame {  
    String adminId;  
    /**  
     * Creates new form AdminFunctions  
     */  
    public AdminFunctions(String Id) {  
        initComponents();  
        this.adminId = Id;  
        setVisible(true);  
    }  
  
    private AdminFunctions() {  
        throw new UnsupportedOperationException("Not supported yet."); //To change body of generated  
methods, choose Tools | Templates.  
    }  
  
    /**  
     * 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() {  
  
        jPanel1 = new javax.swing.JPanel();  
        jPanel2 = new javax.swing.JPanel();  
        jLabel1 = new javax.swing.JLabel();  
        jLabel2 = new javax.swing.JLabel();  
        jButton1 = new javax.swing.JButton();  
        jButton2 = new javax.swing.JButton();  
        jButton3 = new javax.swing.JButton();  
        jButton4 = new javax.swing.JButton();  
        jButton5 = new javax.swing.JButton();  
        jButton6 = new javax.swing.JButton();  
        jButton7 = new javax.swing.JButton();  
        jButton9 = new javax.swing.JButton();  
  
        setDefaultCloseOperation(javax.swing.WindowConstants.DO_NOTHING_ON_CLOSE);  
        setBounds(new java.awt.Rectangle(0, 0, 1400, 800));  
        setCursor(new java.awt.Cursor(java.awt.Cursor.DEFAULT_CURSOR));  
        setMaximumSize(new java.awt.Dimension(1400, 800));  
        setMinimumSize(new java.awt.Dimension(1400, 800));  
        setResizable(false);  
        setSize(new java.awt.Dimension(1400, 800));  
        getContentPane().setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());  
  
        jPanel1.setBackground(new java.awt.Color(51, 255, 255));  
        jPanel1.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(102, 102, 255), 10,  
true));  
        jPanel1.setCursor(new java.awt.Cursor(java.awt.Cursor.DEFAULT_CURSOR));  
        jPanel1.setMaximumSize(new java.awt.Dimension(1400, 800));  
        jPanel1.setMinimumSize(new java.awt.Dimension(1400, 800));  
        jPanel1.setName(""); // NOI18N  
        jPanel1.setPreferredSize(new java.awt.Dimension(1400, 800));  
        jPanel1.setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
jPanel2.setBackground(new java.awt.Color(102, 102, 255));  
  
jLabel1.setFont(new java.awt.Font("Colonna MT", 3, 60)); // NOI18N  
jLabel1.setForeground(new java.awt.Color(255, 255, 255));  
jLabel1.setText("Library Management System");  
  
jLabel2.setFont(new java.awt.Font("MV Boli", 1, 36)); // NOI18N  
jLabel2.setForeground(new java.awt.Color(255, 255, 255));  
jLabel2.setText("Welcome Admin!!!");  
  
javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);  
jPanel2.setLayout(jPanel2Layout);  
jPanel2Layout.setHorizontalGroup(  
    jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
        .addGroup(jPanel2Layout.createSequentialGroup()  
            .addGap(43, 43, 43)  
            .addComponent(jLabel2))  
        .addGroup(jPanel2Layout.createSequentialGroup()  
            .addGap(253, 253, 253)  
            .addComponent(jLabel1)))  
    .addContainerGap(252, Short.MAX_VALUE))  
);  
jPanel2Layout.setVerticalGroup(  
    jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
        .addGroup(jPanel2Layout.createSequentialGroup()  
            .addGap(43, 43, 43)  
            .addComponent(jLabel2))  
        .addGroup(jPanel2Layout.createSequentialGroup()  
            .addGap(253, 253, 253)  
            .addComponent(jLabel1)))  
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,  
        javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))  
);  
  
jPanel1.add(jPanel2, new org.netbeans.lib.awtextra.AbsoluteConstraints(50, 10, 1300, 150));  
  
jButton1.setIcon(new  
    javax.swing.ImageIcon(getClass().getResource("/Images/1_ViewBooks.jpg"))); // NOI18N  
  
jButton1.setBevelBorder(javax.swing.BorderFactory.createBevelBorder(javax.swing.border.BevelBorder.RAISED,  
    java.awt.Color.red, java.awt.Color.red, java.awt.Color.red, java.awt.Color.red));  
jButton1.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));  
jButton1.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        jButton1ActionPerformed(evt);  
    }  
});  
jPanel1.add(jButton1, new org.netbeans.lib.awtextra.AbsoluteConstraints(380, 220, 300, 200));  
  
jButton2.setIcon(new  
    javax.swing.ImageIcon(getClass().getResource("/Images/2_AddBooks.png"))); // NOI18N  
  
jButton2.setBevelBorder(javax.swing.BorderFactory.createBevelBorder(javax.swing.border.BevelBorder.RAISED,  
    java.awt.Color.green, java.awt.Color.green, java.awt.Color.green, java.awt.Color.green));  
jButton2.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));  
jButton2.addActionListener(new java.awt.event.ActionListener() {
```



K. J. Somaiya College of Engineering, Mumbai-77

(Autonomous College Affiliated to University of Mumbai)

```
public void actionPerformed(java.awt.event.ActionEvent evt) {
    jButton2ActionPerformed(evt);
}
});
jPanel1.add(jButton2, new org.netbeans.lib.awtextra.AbsoluteConstraints(50, 220, 300, 200));

jButton3.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/Images/3_IssueBook.jpg"))); // NOI18N

jButton3.setBorder(javax.swing.BorderFactory.createBevelBorder(javax.swing.border.BevelBorder.RAI
SED, java.awt.Color.white, java.awt.Color.white, java.awt.Color.white, java.awt.Color.white));
jButton3.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
jButton3.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton3ActionPerformed(evt);
    }
});
jPanel1.add(jButton3, new org.netbeans.lib.awtextra.AbsoluteConstraints(50, 460, 300, 200));

jButton4.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/Images/4_ViewIssuedBooks.png"))); // NOI18N

jButton4.setBorder(javax.swing.BorderFactory.createBevelBorder(javax.swing.border.BevelBorder.RAI
SED, java.awt.Color.green, java.awt.Color.green, java.awt.Color.green, java.awt.Color.green));
jButton4.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
jButton4.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton4ActionPerformed(evt);
    }
});
jPanel1.add(jButton4, new org.netbeans.lib.awtextra.AbsoluteConstraints(380, 460, 300, 200));

jButton5.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/Images/5_ViewReturnedBooks.jpg"))); // NOI18N

jButton5.setBorder(javax.swing.BorderFactory.createBevelBorder(javax.swing.border.BevelBorder.RAI
SED, java.awt.Color.orange, java.awt.Color.orange, java.awt.Color.orange, java.awt.Color.orange));
jButton5.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
jButton5.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton5ActionPerformed(evt);
    }
});
jPanel1.add(jButton5, new org.netbeans.lib.awtextra.AbsoluteConstraints(710, 460, 300, 200));

jButton6.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/Images/6_ViewUser.png"))); // NOI18N

jButton6.setBorder(javax.swing.BorderFactory.createBevelBorder(javax.swing.border.BevelBorder.RAI
SED, java.awt.Color.black, java.awt.Color.black, java.awt.Color.black, java.awt.Color.black));
jButton6.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
jButton6.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton6ActionPerformed(evt);
    }
});
jPanel1.add(jButton6, new org.netbeans.lib.awtextra.AbsoluteConstraints(710, 220, 300, 200));

jButton7.setIcon(new
```



K. J. Somaiya College of Engineering, Mumbai-77

(Autonomous College Affiliated to University of Mumbai)

```
javax.swing.ImageIcon(getClass().getResource("/Images/7_AdminProfile.png"))); // NOI18N

jButton7.setBorder(javax.swing.BorderFactory.createBevelBorder(javax.swing.border.BevelBorder.RAISED, java.awt.Color.blue, java.awt.Color.blue, java.awt.Color.blue, java.awt.Color.blue));
jButton7.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
jButton7.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton7ActionPerformed(evt);
    }
});
jPanel1.add(jButton7, new org.netbeans.lib.awtextra.AbsoluteConstraints(1040, 300, 300, 200));

jButton9.setIcon(new javax.swing.ImageIcon(getClass().getResource("/Images/0_LogOut.png")));
// NOI18N
jButton9.setToolTipText("To Logout of Admin Panel.");

jButton9.setBorder(javax.swing.BorderFactory.createBevelBorder(javax.swing.border.BevelBorder.RAISED, java.awt.Color.blue, java.awt.Color.blue, java.awt.Color.blue, java.awt.Color.blue));
jButton9.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
jButton9.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton9ActionPerformed(evt);
    }
});
jPanel1.add(jButton9, new org.netbeans.lib.awtextra.AbsoluteConstraints(1090, 540, 200, 80));

getContentPane().add(jPanel1, new org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, 1400, 800));

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

private void jButton9ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    int option = JOptionPane.showConfirmDialog(this, "Are you SURE you want to Log Out?", "Confirmation", JOptionPane.YES_NO_OPTION);
    if(option==0)
    {
        this.dispose();
        new Homepage();
    }
}

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

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    new ViewBooks();
}

private void jButton6ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    new ViewUsers();
}

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
// TODO add your handling code here:  
new IssueBooks(adminId);  
}  
  
private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
    new ViewIssuedBooks();  
}  
  
private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
    new ViewBooksReturned();  
}  
  
private void jButton7ActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
    new YourProfile(adminId);  
}  
  
/**  
 * @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(AdminFunctions.class.getName()).log(java.util.logging.Level.SEVERE  
        , null, ex);  
    } catch (InstantiationException ex) {  
  
        java.util.logging.Logger.getLogger(AdminFunctions.class.getName()).log(java.util.logging.Level.SEVERE  
        , null, ex);  
    } catch (IllegalAccessException ex) {  
  
        java.util.logging.Logger.getLogger(AdminFunctions.class.getName()).log(java.util.logging.Level.SEVERE  
        , null, ex);  
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {  
  
        java.util.logging.Logger.getLogger(AdminFunctions.class.getName()).log(java.util.logging.Level.SEVERE  
        , null, ex);  
    }  
    //</editor-fold>  
    //</editor-fold>  
  
    /* Create and display the form */  
    java.awt.EventQueue.invokeLater(new Runnable() {  
        public void run() {
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
    new AdminFunctions().setVisible(true);
}
});
}

// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JButton jButton3;
private javax.swing.JButton jButton4;
private javax.swing.JButton jButton5;
private javax.swing.JButton jButton6;
private javax.swing.JButton jButton7;
private javax.swing.JButton jButton9;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JPanel jPanel1;
private javax.swing.JPanel jPanel2;
// End of variables declaration
}
```

3.AdminPart.java

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package AdminPart;

/**
 *
 * @author jaina
 */
class AdminCaller{
    String adminId;
    AdminCaller(String Id)
    {
        this.adminId = Id;
        new AdminFunctions(adminId);
    }
}

public class AdminPart {
    String adminId;
    /**
     * @param args the command line arguments
     */

    public AdminPart(String Id) {
        this.adminId = Id;
        new AdminFunctions(adminId);
    }
    public static void main(String[] args) {
        // TODO code application logic here:
    }
}
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
4.IssuBooks.java
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package AdminPart;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import javax.swing.JOptionPane;
import java.sql.Timestamp;
import java.text.SimpleDateFormat;
import java.util.Calendar;
import java.util.Date;

/**
 *
 * @author jaina
 */
public class IssueBooks extends javax.swing.JFrame {
    String isbn, state, studRollNo, bookName, category, studName, gender, department, studentId,
adminId;
    int rollNo;
    String errorLabel="";
    boolean flag=false;
    boolean status;
    /**
     * Creates new form IssueBooks
     */
    public IssueBooks(String Id) {
        initComponents();
        this.adminId = Id;
        setVisible(true);
        jLabel6.setVisible(false);
        jLabel7.setVisible(false);
        jLabel8.setVisible(false);
        jLabel10.setVisible(false);
        jLabel13.setVisible(false);
        jLabel14.setVisible(false);
        jTextField2.setVisible(false);
        jTextField3.setVisible(false);
        jTextField4.setVisible(false);
        jTextField6.setVisible(false);
        jTextField7.setVisible(false);
        jTextField8.setVisible(false);
    }

    private IssueBooks() {
        throw new UnsupportedOperationException("Not supported yet."); //To change body of generated
methods, choose Tools | Templates.
    }

    /**
     * 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.
    }
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

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

    jPanel1 = new javax.swing.JPanel();
    jPanel2 = new javax.swing.JPanel();
    jLabel1 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();
    jPanel3 = new javax.swing.JPanel();
    jLabel3 = new javax.swing.JLabel();
    jLabel4 = new javax.swing.JLabel();
    jLabel5 = new javax.swing.JLabel();
    jTextField1 = new javax.swing.JTextField();
    jLabel6 = new javax.swing.JLabel();
    jTextField2 = new javax.swing.JTextField();
    jLabel7 = new javax.swing.JLabel();
    jTextField3 = new javax.swing.JTextField();
    jLabel8 = new javax.swing.JLabel();
    jTextField4 = new javax.swing.JTextField();
    jTextField5 = new javax.swing.JTextField();
    jTextField6 = new javax.swing.JTextField();
    jLabel9 = new javax.swing.JLabel();
    jLabel10 = new javax.swing.JLabel();
    jLabel11 = new javax.swing.JLabel();
    jLabel12 = new javax.swing.JLabel();
    jLabel13 = new javax.swing.JLabel();
    jTextField7 = new javax.swing.JTextField();
    jLabel14 = new javax.swing.JLabel();
    jTextField8 = new javax.swing.JTextField();
    jButton1 = new javax.swing.JButton();
    jButton2 = new javax.swing.JButton();

    setDefaultCloseOperation(javax.swing.WindowConstants.DO_NOTHING_ON_CLOSE);
    setMaximumSize(new java.awt.Dimension(700, 600));
    setMinimumSize(new java.awt.Dimension(700, 600));
    setResizable(false);

    jPanel1.setBackground(new java.awt.Color(51, 255, 255));
    jPanel1.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(102, 102, 255), 8, true));
    jPanel1.setMaximumSize(new java.awt.Dimension(700, 600));
    jPanel1.setMinimumSize(new java.awt.Dimension(700, 600));
    jPanel1.setPreferredSize(new java.awt.Dimension(700, 600));
    jPanel1.setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

    jPanel2.setBackground(new java.awt.Color(102, 102, 255));
    jPanel2.setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

    jLabel1.setFont(new java.awt.Font("Colonna MT", 3, 45)); // NOI18N
    jLabel1.setForeground(new java.awt.Color(255, 255, 255));
    jLabel1.setText("Library Management System");
    jPanel2.add(jLabel1, new org.netbeans.lib.awtextra.AbsoluteConstraints(45, 13, -1, -1));

    jLabel2.setFont(new java.awt.Font("MV Boli", 1, 24)); // NOI18N
    jLabel2.setForeground(new java.awt.Color(255, 255, 255));
    jLabel2.setText("Issue Books!!!");
    jPanel2.add(jLabel2, new org.netbeans.lib.awtextra.AbsoluteConstraints(20, 60, -1, -1));

    jPanel1.add(jPanel2, new org.netbeans.lib.awtextra.AbsoluteConstraints(20, 8, 660, 100));
}
```



K. J. Somaiya College of Engineering, Mumbai-77

(Autonomous College Affiliated to University of Mumbai)

```
jPanel3.setBackground(new java.awt.Color(51, 255, 255));
jPanel3.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(102, 102, 255), 5, true));
jPanel3.setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

jLabel3.setFont(new java.awt.Font("Bodoni MT Condensed", 0, 36)); // NOI18N
jLabel3.setForeground(new java.awt.Color(102, 102, 255));
jLabel3.setText("Please Enter Book Details Here:");
jPanel3.add(jLabel3, new org.netbeans.lib.awtextra.AbsoluteConstraints(18, 18, -1, -1));

jLabel4.setFont(new java.awt.Font("Bodoni MT Condensed", 0, 24)); // NOI18N
jLabel4.setForeground(new java.awt.Color(102, 102, 255));
jLabel4.setText("( Example is given )");
jPanel3.add(jLabel4, new org.netbeans.lib.awtextra.AbsoluteConstraints(340, 25, -1, -1));

jLabel5.setFont(new java.awt.Font("Tahoma", 0, 20)); // NOI18N
jLabel5.setForeground(new java.awt.Color(102, 102, 255));
jLabel5.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
jLabel5.setText("ISBN No.:");
jPanel3.add(jLabel5, new org.netbeans.lib.awtextra.AbsoluteConstraints(20, 90, 133, -1));

jTextField1.setBackground(new java.awt.Color(51, 255, 255));
jTextField1.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N
jTextField1.setForeground(new java.awt.Color(102, 102, 255));
jTextField1.setHorizontalAlignment(javax.swing.JTextField.CENTER);
jTextField1.setText("1234567890123");
jTextField1.setToolTipText("Enter ISBN No. Of The Book.");
jTextField1.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(102, 102, 255), 1, true));
jPanel3.add(jTextField1, new org.netbeans.lib.awtextra.AbsoluteConstraints(156, 85, 140, 30));

jLabel6.setFont(new java.awt.Font("Tahoma", 0, 20)); // NOI18N
jLabel6.setForeground(new java.awt.Color(102, 102, 255));
jLabel6.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
jLabel6.setText("Book Name: ");
jPanel3.add(jLabel6, new org.netbeans.lib.awtextra.AbsoluteConstraints(315, 90, 150, -1));

jTextField2.setEditable(false);
jTextField2.setBackground(new java.awt.Color(51, 255, 255));
jTextField2.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N
jTextField2.setForeground(new java.awt.Color(102, 102, 255));
jTextField2.setHorizontalAlignment(javax.swing.JTextField.CENTER);
jTextField2.setText("Java World");
jTextField2.setToolTipText("You can't edit this field.");
jTextField2.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(102, 102, 255), 1, true));
jPanel3.add(jTextField2, new org.netbeans.lib.awtextra.AbsoluteConstraints(470, 85, 140, 30));

jLabel7.setFont(new java.awt.Font("Tahoma", 0, 20)); // NOI18N
jLabel7.setForeground(new java.awt.Color(102, 102, 255));
jLabel7.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
jLabel7.setText("Category:");
jLabel7.setToolTipText("");
jPanel3.add(jLabel7, new org.netbeans.lib.awtextra.AbsoluteConstraints(20, 140, 130, -1));

jTextField3.setEditable(false);
jTextField3.setBackground(new java.awt.Color(51, 255, 255));
jTextField3.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N
jTextField3.setForeground(new java.awt.Color(102, 102, 255));
```



K. J. Somaiya College of Engineering, Mumbai-77

(Autonomous College Affiliated to University of Mumbai)

```
jTextField3.setHorizontalAlignment(javax.swing.JTextField.CENTER);
jTextField3.setText("John Doe");
jTextField3.setToolTipText("You can't edit this field.");
jTextField3.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(102, 102, 255), 1,
true));
jPanel3.add(jTextField3, new org.netbeans.lib.awtextra.AbsoluteConstraints(156, 135, 140, 30));

jLabel8.setFont(new java.awt.Font("Tahoma", 0, 20)); // NOI18N
jLabel8.setForeground(new java.awt.Color(102, 102, 255));
jLabel8.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
jLabel8.setText("Book Status:");
jLabel8.setToolTipText("");
jPanel3.add(jLabel8, new org.netbeans.lib.awtextra.AbsoluteConstraints(315, 140, 150, -1));

jTextField4.setEditable(false);
jTextField4.setBackground(new java.awt.Color(51, 255, 255));
jTextField4.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N
jTextField4.setForeground(new java.awt.Color(102, 102, 255));
jTextField4.setHorizontalAlignment(javax.swing.JTextField.CENTER);
jTextField4.setText("Unavailable");
jTextField4.setToolTipText("You can't edit this field.");
jTextField4.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(102, 102, 255), 1,
true));
jPanel3.add(jTextField4, new org.netbeans.lib.awtextra.AbsoluteConstraints(470, 135, 140, 30));

jTextField5.setBackground(new java.awt.Color(51, 255, 255));
jTextField5.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N
jTextField5.setForeground(new java.awt.Color(102, 102, 255));
jTextField5.setHorizontalAlignment(javax.swing.JTextField.CENTER);
jTextField5.setText("120");
jTextField5.setToolTipText("");
jTextField5.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(102, 102, 255), 1,
true));
jTextField5.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField5ActionPerformed(evt);
    }
});
jPanel3.add(jTextField5, new org.netbeans.lib.awtextra.AbsoluteConstraints(156, 235, 140, 30));

jTextField6.setEditable(false);
jTextField6.setBackground(new java.awt.Color(51, 255, 255));
jTextField6.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N
jTextField6.setForeground(new java.awt.Color(102, 102, 255));
jTextField6.setHorizontalAlignment(javax.swing.JTextField.CENTER);
jTextField6.setText("John Doe");
jTextField6.setToolTipText("You can't edit this field.");
jTextField6.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(102, 102, 255), 1,
true));
jPanel3.add(jTextField6, new org.netbeans.lib.awtextra.AbsoluteConstraints(470, 235, 140, 30));

jLabel9.setFont(new java.awt.Font("Tahoma", 0, 20)); // NOI18N
jLabel9.setForeground(new java.awt.Color(102, 102, 255));
jLabel9.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
jLabel9.setText("Roll No.:");
jLabel9.setToolTipText("");
jPanel3.add(jLabel9, new org.netbeans.lib.awtextra.AbsoluteConstraints(20, 240, 130, -1));

jLabel10.setFont(new java.awt.Font("Tahoma", 0, 20)); // NOI18N
```



K. J. Somaiya College of Engineering, Mumbai-77

(Autonomous College Affiliated to University of Mumbai)

```
jLabel10.setForeground(new java.awt.Color(102, 102, 255));
jLabel10.setHorizontalTextPosition(javax.swing.SwingConstants.CENTER);
jLabel10.setText("Name:");
jLabel10.setToolTipText("");
jPanel3.add(jLabel10, new org.netbeans.lib.awtextra.AbsoluteConstraints(315, 240, 150, -1));

jLabel11.setFont(new java.awt.Font("Bodoni MT Condensed", 0, 36)); // NOI18N
jLabel11.setForeground(new java.awt.Color(102, 102, 255));
jLabel11.setText("Please Enter Student Details Here:");
jPanel3.add(jLabel11, new org.netbeans.lib.awtextra.AbsoluteConstraints(18, 175, -1, -1));

jLabel12.setFont(new java.awt.Font("Bodoni MT Condensed", 0, 24)); // NOI18N
jLabel12.setForeground(new java.awt.Color(102, 102, 255));
jLabel12.setText("( Example is given )");
jPanel3.add(jLabel12, new org.netbeans.lib.awtextra.AbsoluteConstraints(365, 182, -1, -1));

jLabel13.setFont(new java.awt.Font("Tahoma", 0, 20)); // NOI18N
jLabel13.setForeground(new java.awt.Color(102, 102, 255));
jLabel13.setHorizontalTextPosition(javax.swing.SwingConstants.CENTER);
jLabel13.setText("Gender:");
jLabel13.setToolTipText("");
jPanel3.add(jLabel13, new org.netbeans.lib.awtextra.AbsoluteConstraints(20, 290, 130, -1));

jTextField7.setEditable(false);
jTextField7.setBackground(new java.awt.Color(51, 255, 255));
jTextField7.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N
jTextField7.setForeground(new java.awt.Color(102, 102, 255));
jTextField7.setHorizontalAlignment(javax.swing.JTextField.CENTER);
jTextField7.setText("Others");
jTextField7.setToolTipText("You can't edit this field.");
jTextField7.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(102, 102, 255), 1, true));
jPanel3.add(jTextField7, new org.netbeans.lib.awtextra.AbsoluteConstraints(156, 285, 140, 30));

jLabel14.setFont(new java.awt.Font("Tahoma", 0, 20)); // NOI18N
jLabel14.setForeground(new java.awt.Color(102, 102, 255));
jLabel14.setHorizontalTextPosition(javax.swing.SwingConstants.CENTER);
jLabel14.setText("Department:");
jLabel14.setToolTipText("");
jPanel3.add(jLabel14, new org.netbeans.lib.awtextra.AbsoluteConstraints(315, 290, 150, -1));

jTextField8.setEditable(false);
jTextField8.setBackground(new java.awt.Color(51, 255, 255));
jTextField8.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N
jTextField8.setForeground(new java.awt.Color(102, 102, 255));
jTextField8.setHorizontalAlignment(javax.swing.JTextField.CENTER);
jTextField8.setText("IT");
jTextField8.setToolTipText("You can't edit this field.");
jTextField8.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(102, 102, 255), 1, true));
jPanel3.add(jTextField8, new org.netbeans.lib.awtextra.AbsoluteConstraints(470, 285, 140, 30));

jPanel1.add(jPanel3, new org.netbeans.lib.awtextra.AbsoluteConstraints(30, 190, 640, 330));

jButton1.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/Images/3_IssueBook.png"))); // NOI18N

jButton1.setRolloverEnabled(true);
jButton1.setRolloverIcon(new
javax.swing.ImageIcon(getClass().getResource("/Images/3_IssueBook_rollover.png"))); // NOI18N
```



K. J. Somaiya College of Engineering, Mumbai-77

(Autonomous College Affiliated to University of Mumbai)

```
jButton1.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});
jPanel1.add(jButton1, new org.netbeans.lib.awtextra.AbsoluteConstraints(290, 530, 120, 50));

jButton2.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/Images/0_PreviousButton.jpg"))); // NOI18N
jButton2.setToolTipText("To Go To Previous Page.");

jButton2.setBorder(javax.swing.BorderFactory.createBevelBorder(javax.swing.border.BevelBorder.RAI
SED, java.awt.Color.blue, java.awt.Color.blue, java.awt.Color.blue, java.awt.Color.blue));
jButton2.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
jButton2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
    }
});
jPanel1.add(jButton2, new org.netbeans.lib.awtextra.AbsoluteConstraints(30, 120, 75, 50));

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(0, 0, 0)
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE, 700, javax.swing.GroupLayout.PREFERRED_SIZE)
        )
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(0, 0, 0)
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE, 600, javax.swing.GroupLayout.PREFERRED_SIZE)
        )
);

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

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    errorLabel="";
    String l1 = validateTextField1();
    String l2 = validateTextField5();
    String label = l1+l2;
    if(flag)
    {
        JOptionPane.showMessageDialog(this, label,"ERRORS",JOptionPane.ERROR_MESSAGE);
    }
    else
    {
        rollNo = Integer.parseInt(studRollNo);
        Connection con=null;
        PreparedStatement pst=null;
        try{
            String url = "jdbc:mysql://localhost:3306/library";
            String MySQLname = "root";
            String password = "";
            //Class.forName("com.mysql.jdbc.Driver");

```



K. J. Somaiya College of Engineering, Mumbai-77

(Autonomous College Affiliated to University of Mumbai)

```
con=(Connection) DriverManager.getConnection(url,MySQLname,password);
if(con == null)
{
    JOptionPane.showMessageDialog(this, "Error in Connecting To Database!!!");
}
else
{
    System.out.println("Connected to database\n"+con.toString()+"\n");
    String sql="SELECT * FROM book WHERE ISBNNo = "+isbn; //select all books
    pst = (PreparedStatement)con.prepareStatement(sql);
    ResultSet rs=pst.executeQuery(sql); //view data in table format
    if(rs.next())
    {
        bookName = rs.getString("BookName");
        category = rs.getString("Category");
        status = rs.getBoolean("Status");
        if(status == true)
        {
            state = "Available";
        }
        else
        {
            state = "Unavailable";
        }
        jTextField2.setText(bookName);
        jTextField3.setText(category);
        jTextField4.setText(state);
    }
    pst.close();
    rs.close();
    sql="SELECT * FROM student where RollNo = "+rollNo; //select all books
    pst = (PreparedStatement)con.prepareStatement(sql);
    rs=pst.executeQuery(sql); //view data in table format
    if(rs.next())
    {
        studName = rs.getString("Name");
        studentId = rs.getString("UserName");
        gender = rs.getString("Gender");
        String department = rs.getString("Department");
        jTextField6.setText(studName);
        jTextField7.setText(gender);
        jTextField8.setText(department);
    }
    pst.close();
    rs.close();
    JOptionPane.showMessageDialog(this, "Please Verify Book Details and Student Details!!!");
    jLabel6.setVisible(true);
    jLabel7.setVisible(true);
    jLabel8.setVisible(true);
    jLabel10.setVisible(true);
    jLabel13.setVisible(true);
    jLabel14.setVisible(true);
    jTextField2.setVisible(true);
    jTextField3.setVisible(true);
    jTextField4.setVisible(true);
    jTextField6.setVisible(true);
    jTextField7.setVisible(true);
    jTextField8.setVisible(true);
    if(status)
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
{  
    int option = JOptionPane.showConfirmDialog(this, "Are you SURE you want to Issue this  
book?", "Confirmation", JOptionPane.YES_NO_OPTION);  
    if(option==0)  
    {  
        String adminId2=adminId;  
        boolean validChecker = adminId.equals(adminId2);  
        do{  
            if(validChecker==false)  
            {  
                JOptionPane.showMessageDialog( this, "You have not entered Valid  
AdminId !!!");  
            }  
            adminId2 = JOptionPane.showInputDialog("Admin Id.");  
            JOptionPane.showMessageDialog( this, adminId2 );  
        }while(validChecker==false);  
        Timestamp issueId = new Timestamp(System.currentTimeMillis());  
        Timestamp dueTimeStamp = new Timestamp(System.currentTimeMillis());  
        Calendar cal = Calendar.getInstance();  
        cal.setTime(dueTimeStamp);  
        cal.add(Calendar.DAY_OF_WEEK, 7);  
        //dueTimeStamp.setTime(cal.getTime().getTime()); // or  
        dueTimeStamp = new Timestamp(cal.getTime().getTime());  
        //String issueId = issueIds.toString();  
        sql = "INSERT INTO issuedBooks (IssueId, BookISBNNo, AdminId, StudentId,  
DueTimeStamp)+"VALUES (?, ?, ?, ?, ?)";  
        pst=con.prepareStatement(sql);  
        pst.setTimestamp(1, issueId);  
        //pst.setString(1,issueId);  
        pst.setString(2,isbn);  
        pst.setString(3,adminId);  
        pst.setString(4,studentId);  
        pst.setTimestamp(5,dueTimeStamp);  
        //pst.setBoolean(7,bookStatus);  
        int r=pst.executeUpdate();  
        //      ResultSet rs=pst.executeQuery(sql); //view data in table format  
        pst.close();  
        con.close();  
        //      rs.close();  
        if(r>0)  
            {JOptionPane.showMessageDialog(this, "Book "+bookName+" of ISBN No.:"+isbn+"  
is Issued Successfully to student with Roll No.:  
"+rollNo+" !!","Message",JOptionPane.INFORMATION_MESSAGE);}  
        jTextField1.setText(null);  
        jTextField5.setText(null);  
        jLabel6.setVisible(false);  
        jLabel7.setVisible(false);  
        jLabel8.setVisible(false);  
        jLabel10.setVisible(false);  
        jLabel13.setVisible(false);  
        jLabel14.setVisible(false);  
        jTextField2.setVisible(false);  
        jTextField3.setVisible(false);  
        jTextField4.setVisible(false);  
        jTextField6.setVisible(false);  
        jTextField7.setVisible(false);  
        jTextField8.setVisible(false);  
    }  
    else
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
{  
    jLabel6.setVisible(false);  
    jLabel7.setVisible(false);  
    jLabel8.setVisible(false);  
    jLabel10.setVisible(false);  
    jLabel13.setVisible(false);  
    jLabel14.setVisible(false);  
    jTextField1.setText(null);  
    jTextField5.setText(null);  
    jTextField2.setVisible(false);  
    jTextField3.setVisible(false);  
    jTextField4.setVisible(false);  
    jTextField6.setVisible(false);  
    jTextField7.setVisible(false);  
    jTextField8.setVisible(false);  
}  
}  
else  
{  
    JOptionPane.showMessageDialog(this, "Book "+bookName+" of ISBN No.:"+isbn+"  
cannot be Issued, as it is NOT Available in the  
library!!","Message",JOptionPane.INFORMATION_MESSAGE);  
    jTextField1.setText(null);  
    jTextField5.setText(null);  
    jTextField2.setVisible(false);  
    jTextField3.setVisible(false);  
    jTextField4.setVisible(false);  
    jTextField6.setVisible(false);  
    jTextField7.setVisible(false);  
    jTextField8.setVisible(false);  
}  
}  
}  
}catch (Exception e1) {  
    // TODO Auto-generated catch block  
    JOptionPane.showMessageDialog(null, e1);  
}  
//jLabel12.setText(label);  
}  
}  
  
public String validateTextField1()  
{  
    errorLabel="";  
    flag=false;  
    isbn = jTextField1.getText();  
    if(isbn.equals("") || isbn.length()!=13)  
    {  
        errorLabel = errorLabel + " Enter ISBN No. of 13 digit.";  
        jTextField1.setText(null);  
        flag=true;  
    }  
  
    if(isbn.length()==13)  
    {  
        char arr[] = isbn.toCharArray();  
        for(int i=0; i<13; i++)  
        {  
            if(arr[i]<48 || arr[i]>57)  
            {  
                errorLabel = errorLabel + " Invalid ISBN character at position "+(i+1)+".  
                flag=true;  
            }  
        }  
    }  
}
```



K. J. Somaiya College of Engineering, Mumbai-77

(Autonomous College Affiliated to University of Mumbai)

```
    errorLabel = errorLabel + " ISBN No. Should be Digits Only.";
    jTextField1.setText(null);
    flag=true;
    break;
}
}
return errorLabel;
}

public String validateTextField5()
{
    errorLabel="";
    studRollNo = jTextField5.getText();
    if(studRollNo.equals(""))
    {
        errorLabel = errorLabel + "\n Enter Roll No.";
        jTextField5.setText(null);
        flag=true;
    }
    else
    {
        char arr[] = studRollNo.toCharArray();
        for(int i=0; i<studRollNo.length(); i++)
        {
            if(arr[i]<48 || arr[i]>57)
            {
                errorLabel = errorLabel + " Roll No. Should be digits only.";
                jTextField5.setText(null);
                flag=true;
                break;
            }
        }
    }
    return errorLabel;
}

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

private void jTextField5ActionPerformed(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()) {

```



K. J. Somaiya College of Engineering, Mumbai-77

(Autonomous College Affiliated to University of Mumbai)

```
if ("Nimbus".equals(info.getName())) {
    javax.swing.UIManager.setLookAndFeel(info.getClassName());
    break;
}
} catch (ClassNotFoundException ex) {

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

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

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

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

//</editor-fold>
//</editor-fold>

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

// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
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.JPanel jPanel1;
private javax.swing.JPanel jPanel2;
private javax.swing.JPanel jPanel3;
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;
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
private javax.swing.JTextField jTextField7;
private javax.swing.JTextField jTextField8;
// End of variables declaration
}

5.ViewBooks.java
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package AdminPart;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.Vector;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;

/**
 *
 * @author jaina
 */
public class ViewBooks extends javax.swing.JFrame {

    /**
     * Creates new form ViewBooks
     */
    public ViewBooks() {
        initComponents();
        setVisible(true);
        Connection con=null;
        PreparedStatement pst=null;
        try{
            String url = "jdbc:mysql://localhost:3306/library";
            String MySQLname = "root";
            String password = "";
            //Class.forName("com.mysql.jdbc.Driver");
            con=(Connection) DriverManager.getConnection(url,MySQLname,password);
            if(con == null)
            {
                JOptionPane.showMessageDialog(this, "Error in Connecting To Database!!!");
            }
            else
            {
                DefaultTableModel model = (DefaultTableModel)jTable1.getModel();
                String sql="SELECT * FROM book"; //select all books
                pst = (PreparedStatement)con.prepareStatement(sql);
                ResultSet rs=pst.executeQuery(sql); //view data in table format
                while(rs.next())
                {
                    String isbn = rs.getString("ISBNNo");
                    String name = rs.getString("BookName");
                    String author = rs.getString("AuthorName");
                    String category = rs.getString("Category");
                    String publisher = rs.getString("Publisher");
                }
            }
        }
    }
}
```



K. J. Somaiya College of Engineering, Mumbai-77

(Autonomous College Affiliated to University of Mumbai)

```
float price = rs.getFloat("Price");
boolean status = rs.getBoolean("Status");
Vector book = new Vector();
book.add(isbn); book.add(name); book.add(category); book.add(price);
book.add(author);book.add(publisher);book.add(status);
model.addRow(book);
//model.addRow(new Object[]{isbn, name, category, author, publisher, price, status});
}
con.close();
pst.close();
rs.close();
}
} catch (SQLException e1) {
// TODO Auto-generated catch block
JOptionPane.showMessageDialog(null, e1);
}
}

/**
 * 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() {

jPanel1 = new javax.swing.JPanel();
jPanel2 = new javax.swing.JPanel();
jLabel1 = new javax.swing.JLabel();
jLabel2 = new javax.swing.JLabel();
jButton2 = new javax.swing.JButton();
jScrollPane1 = new javax.swing.JScrollPane();
jTable1 = new javax.swing.JTable();
jCheckBox1 = new javax.swing.JCheckBox();
jCheckBox2 = new javax.swing.JCheckBox();

setDefaultCloseOperation(javax.swing.WindowConstants.DO_NOTHING_ON_CLOSE);
setAlwaysOnTop(true);
setMaximumSize(new java.awt.Dimension(700, 600));
setMinimumSize(new java.awt.Dimension(700, 600));
setSize(new java.awt.Dimension(700, 600));

jPanel1.setBackground(new java.awt.Color(51, 255, 255));
jPanel1.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(102, 102, 255), 8, true));
jPanel1.setMaximumSize(new java.awt.Dimension(700, 600));
jPanel1.setMinimumSize(new java.awt.Dimension(700, 600));
jPanel1.setPreferredSize(new java.awt.Dimension(700, 600));
jPanel1.setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

jPanel2.setBackground(new java.awt.Color(102, 102, 255));
jPanel2.setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

jLabel1.setFont(new java.awt.Font("Colonna MT", 3, 45)); // NOI18N
jLabel1.setForeground(new java.awt.Color(255, 255, 255));
jLabel1.setText("Library Management System");
jPanel2.add(jLabel1, new org.netbeans.lib.awtextra.AbsoluteConstraints(45, 13, -1, -1));

jLabel2.setFont(new java.awt.Font("MV Boli", 1, 24)); // NOI18N
```



K. J. Somaiya College of Engineering, Mumbai-77

(Autonomous College Affiliated to University of Mumbai)

```
jLabel2.setForeground(new java.awt.Color(255, 255, 255));
jLabel2.setText("View Books!!!");
jPanel2.add(jLabel2, new org.netbeans.lib.awtextra.AbsoluteConstraints(20, 60, -1, -1));

jPanel1.add(jPanel2, new org.netbeans.lib.awtextra.AbsoluteConstraints(20, 8, 660, 100));

jButton2.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/Images/0_PreviousButton.jpg"))); // NOI18N
jButton2.setToolTipText("To Go To Previous Page.");

jButton2.setBorder(javax.swing.BorderFactory.createBevelBorder(javax.swing.border.BevelBorder.RAISED, java.awt.Color.blue, java.awt.Color.blue, java.awt.Color.blue, java.awt.Color.blue));
jButton2.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
jButton2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
    }
});
jPanel1.add(jButton2, new org.netbeans.lib.awtextra.AbsoluteConstraints(30, 120, 75, 50));

jTable1.setFont(new java.awt.Font("Tahoma", 0, 14)); // NOI18N
jTable1.setModel(new javax.swing.table.DefaultTableModel(
    new Object [][] {
        new String [] {
            "ISBN No.", "Book Name", "Category", "Price", "Authors Name", "Publishers Name", "Book Status"
        }
    },
    new Class[] {
        Class[] types = new Class [] {
            java.lang.String.class, java.lang.String.class, java.lang.String.class, java.lang.Float.class,
            java.lang.String.class, java.lang.String.class, java.lang.Boolean.class
        };
        boolean[] canEdit = new boolean [] {
            false, false, false, false, false, false, false
        };
    }
);

public Class getColumnClass(int columnIndex) {
    return types [columnIndex];
}

public boolean isCellEditable(int rowIndex, int columnIndex) {
    return canEdit [columnIndex];
}
);
jTable1.getTableHeader().setReorderingAllowed(false);
jScrollPane1.setViewportView(jTable1);

jPanel1.add(jScrollPane1, new org.netbeans.lib.awtextra.AbsoluteConstraints(30, 180, 650, 340));

jCheckBox1.setBackground(new java.awt.Color(51, 255, 255));
jCheckBox1.setFont(new java.awt.Font("Tahoma", 1, 13)); // NOI18N
jCheckBox1.setForeground(new java.awt.Color(102, 102, 255));
jCheckBox1.setSelected(true);
jCheckBox1.setText("Available");
jCheckBox1.setToolTipText("Book is Available in Library.");
jCheckBox1.setEnabled(false);
jPanel1.add(jCheckBox1, new org.netbeans.lib.awtextra.AbsoluteConstraints(480, 530, -1, -1));
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
jCheckBox2.setBackground(new java.awt.Color(51, 255, 255));
jCheckBox2.setFont(new java.awt.Font("Tahoma", 1, 13)); // NOI18N
jCheckBox2.setForeground(new java.awt.Color(102, 102, 255));
jCheckBox2.setText("Unavailable");
jCheckBox2.setToolTipText("Book is Unavailable in Library.");
jCheckBox2.setEnabled(false);
jPanel1.add(jCheckBox2, new org.netbeans.lib.awtextra.AbsoluteConstraints(570, 530, -1, -1));

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(18, 18, 18)
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE, 700, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGroup(layout.createSequentialGroup()
            .addGap(18, 18, 18)
            .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE, 600, javax.swing.GroupLayout.PREFERRED_SIZE))
    )
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(18, 18, 18)
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE, 700, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGroup(layout.createSequentialGroup()
            .addGap(18, 18, 18)
            .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE, 600, javax.swing.GroupLayout.PREFERRED_SIZE))
    )
);

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

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    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(ViewBooks.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
    } catch (InstantiationException ex) {

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

        java.util.logging.Logger.getLogger(ViewBooks.class.getName()).log(java.util.logging.Level.SEVERE,
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
        java.util.logging.Logger.getLogger(ViewBooks.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
    }
//</editor-fold>
//</editor-fold>

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

// Variables declaration - do not modify
private javax.swing.JButton jButton2;
private javax.swing.JCheckBox jCheckBox1;
private javax.swing.JCheckBox jCheckBox2;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JPanel jPanel1;
private javax.swing.JPanel jPanel2;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JTable jTable1;
// End of variables declaration
}
```

6. ViewBooksReturned.java

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package AdminPart;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Timestamp;
import java.util.Vector;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;

/**
 *
 * @author jaina
 */
public class ViewBooksReturned extends javax.swing.JFrame {

    /**
     * Creates new form ViewBooksReturned
     */
    public ViewBooksReturned() {
        initComponents();
    }

    /**
     * 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() {
        jScrollPane1 = new javax.swing.JScrollPane();
        jTable1 = new javax.swing.JTable();
        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        jCheckBox1 = new javax.swing.JCheckBox();
        jCheckBox2 = new javax.swing.JCheckBox();
        jButton2 = new javax.swing.JButton();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

        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}
            },
            new String [] {
                "Title", "Author", "Subject", "Status"
            }
        ));
        jScrollPane1.setViewportView(jTable1);

        jLabel1.setText("Title");

        jLabel2.setText("Author");

        jCheckBox1.setText("Available");
        jCheckBox2.setText("Not Available");

        jButton2.setText("Search");

        javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
        getContentPane().setLayout(layout);
        layout.setHorizontalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addContainerGap()
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(jScrollPane1)
                    .addGroup(layout.createSequentialGroup()
                        .addComponent(jLabel1)
                        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                        .addComponent(jCheckBox1))
                    .addGroup(layout.createSequentialGroup()
                        .addComponent(jLabel2)
                        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                        .addComponent(jCheckBox2))
                    .addComponent(jButton2)
                    .addGap(0, 0, Short.MAX_VALUE))
                .addContainerGap())
        );
        layout.setVerticalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jScrollPane1)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel1)
                    .addComponent(jCheckBox1))
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel2)
                    .addComponent(jCheckBox2))
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                .addComponent(jButton2)
                .addContainerGap())
        );

        pack();
    }// 
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
setVisible(true);
Connection con=null;
PreparedStatement pst=null;
try{
    String url = "jdbc:mysql://localhost:3306/library";
    String MySQLname = "root";
    String password = "";
    //Class.forName("com.mysql.jdbc.Driver");
    con=(Connection) DriverManager.getConnection(url,MySQLname,password);
    if(con == null)
    {
        JOptionPane.showMessageDialog(this, "Error in Connecting To Database!!!");
    }
    else
    {
        DefaultTableModel model = (DefaultTableModel)jTable1.getModel();
        String sql="SELECT * FROM returnBooks"; //select all books
        pst = (PreparedStatement)con.prepareStatement(sql);
        ResultSet rs=pst.executeQuery(sql); //view data in table format
        while(rs.next())
        {
            Timestamp returnId = rs.getTimestamp("ReturnId");
            Timestamp issueId = rs.getTimestamp("IssueId");
            String isbn = rs.getString("BookISBNNo");
            String adminId = rs.getString("AdminId");
            String studentId = rs.getString("StudentId");
            Timestamp dueTimeStamp = rs.getTimestamp("DueTimeStamp");
            float fine = rs.getFloat("Fine");
            // compares dueTimeStamp with returnId to calculate FINE
            int fineChecker = dueTimeStamp.compareTo(returnId);
            if(fineChecker==0){
                fine=0;
            }
            else if(fineChecker<0){
                fine=100;
            }
            else{
                fine=0;
            }
            Vector returnBook = new Vector();
            returnBook.add(returnId); returnBook.add(issueId); returnBook.add(isbn);
            returnBook.add(adminId);
            returnBook.add(studentId); returnBook.add(dueTimeStamp); returnBook.add(fine);
            model.addRow(returnBook);
            //model.addRow(new Object[]{isbn, name, category, author, publisher, price, status});
        }
        con.close();
        pst.close();
        rs.close();
    }
} catch (SQLException e1) {
    // TODO Auto-generated catch block
    JOptionPane.showMessageDialog(null, e1);
}
}

/**
 * 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

```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
* regenerated by the Form Editor.  
*/  
{@SuppressWarnings("unchecked")  
// <editor-fold defaultstate="collapsed" desc="Generated Code">  
private void initComponents() {  
  
    jPanel1 = new javax.swing.JPanel();  
    jPanel2 = new javax.swing.JPanel();  
    jLabel1 = new javax.swing.JLabel();  
    jLabel2 = new javax.swing.JLabel();  
    jButton2 = new javax.swing.JButton();  
    jScrollPane1 = new javax.swing.JScrollPane();  
    jTable1 = new javax.swing.JTable();  
  
    setDefaultCloseOperation(javax.swing.WindowConstants.DO_NOTHING_ON_CLOSE);  
    setMaximumSize(new java.awt.Dimension(700, 600));  
    setMinimumSize(new java.awt.Dimension(700, 600));  
    setResizable(false);  
  
    jPanel1.setBackground(new java.awt.Color(51, 255, 255));  
    jPanel1.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(102, 102, 255), 8, true));  
    jPanel1.setMaximumSize(new java.awt.Dimension(700, 600));  
    jPanel1.setMinimumSize(new java.awt.Dimension(700, 600));  
    jPanel1.setPreferredSize(new java.awt.Dimension(700, 600));  
    jPanel1.setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());  
  
    jPanel2.setBackground(new java.awt.Color(102, 102, 255));  
    jPanel2.setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());  
  
    jLabel1.setFont(new java.awt.Font("Colonna MT", 3, 45)); // NOI18N  
    jLabel1.setForeground(new java.awt.Color(255, 255, 255));  
    jLabel1.setText("Library Management System");  
    jPanel2.add(jLabel1, new org.netbeans.lib.awtextra.AbsoluteConstraints(45, 13, -1, -1));  
  
    jLabel2.setFont(new java.awt.Font("MV Boli", 1, 24)); // NOI18N  
    jLabel2.setForeground(new java.awt.Color(255, 255, 255));  
    jLabel2.setText("View Issued Books!!!");  
    jPanel2.add(jLabel2, new org.netbeans.lib.awtextra.AbsoluteConstraints(20, 60, -1, -1));  
  
    jPanel1.add(jPanel2, new org.netbeans.lib.awtextra.AbsoluteConstraints(20, 8, 660, 100));  
  
    jButton2.setIcon(new  
        javax.swing.ImageIcon(getClass().getResource("/Images/0_PreviousButton.jpg"))); // NOI18N  
    jButton2.setToolTipText("To Go To Previous Page.");  
  
    jButton2.setBevelBorder(javax.swing.BorderFactory.createBevelBorder(javax.swing.border.BevelBorder.RAISED, java.awt.Color.blue, java.awt.Color.blue, java.awt.Color.blue, java.awt.Color.blue));  
    jButton2.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));  
    jButton2.addActionListener(new java.awt.event.ActionListener() {  
        public void actionPerformed(java.awt.event.ActionEvent evt) {  
            jButton2ActionPerformed(evt);  
        }  
    });  
    jPanel1.add(jButton2, new org.netbeans.lib.awtextra.AbsoluteConstraints(30, 120, 75, 50));  
  
    jTable1.setFont(new java.awt.Font("Tahoma", 0, 14)); // NOI18N  
    jTable1.setModel(new javax.swing.table.DefaultTableModel(  
        new Object [][] {
```



K. J. Somaiya College of Engineering, Mumbai-77

(Autonomous College Affiliated to University of Mumbai)

```
        },
        new String [] {
            "Return Id.", "Issue Id.", "Book ISBN No.", "Admin Id.", "Student Id.", "Due Time Stamp",
        "Fine"
    );
}

Class[] types = new Class [] {
    java.lang.String.class, java.lang.String.class, java.lang.String.class, java.lang.String.class,
    java.lang.String.class, java.lang.String.class, java.lang.Float.class
};

boolean[] canEdit = new boolean [] {
    false, false, false, false, false, false
};

public Class getColumnClass(int columnIndex) {
    return types [columnIndex];
}

public boolean isCellEditable(int rowIndex, int columnIndex) {
    return canEdit [columnIndex];
}
);
jTable1.getTableHeader().setReorderingAllowed(false);
jScrollPane1.setViewportView(jTable1);

jPanel1.add(jScrollPane1, new org.netbeans.lib.awtextra.AbsoluteConstraints(30, 180, 650, 380));

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(10, 10, 10)
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        )
);
layout.setVerticalGroup(
    layout.createSequentialGroup()
        .addGap(10, 10, 10)
        .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
);
pack();
setLocationRelativeTo(null);
}// </editor-fold>

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

```



K. J. Somaiya College of Engineering, Mumbai-77

(Autonomous College Affiliated to University of Mumbai)

```
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(ViewBooksReturned.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
} catch (InstantiationException ex) {  
  
java.util.logging.Logger.getLogger(ViewBooksReturned.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
} catch (IllegalAccessException ex) {  
  
java.util.logging.Logger.getLogger(ViewBooksReturned.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
} catch (javax.swing.UnsupportedLookAndFeelException ex) {  
  
java.util.logging.Logger.getLogger(ViewBooksReturned.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
}  
//</editor-fold>  
//</editor-fold>  
  
/* Create and display the form */  
java.awt.EventQueue.invokeLater(new Runnable() {  
    public void run() {  
        new ViewBooksReturned().setVisible(true);  
    }  
});  
}  
  
// Variables declaration - do not modify  
private javax.swing.JButton jButton2;  
private javax.swing.JLabel jLabel1;  
private javax.swing.JLabel jLabel2;  
private javax.swing.JPanel jPanel1;  
private javax.swing.JPanel jPanel2;  
private javax.swing.JScrollPane jScrollPane1;  
private javax.swing.JTable jTable1;  
// End of variables declaration  
}
```

7. ViewIssuedBooks.java

```
/*  
* To change this license header, choose License Headers in Project Properties.  
* To change this template file, choose Tools | Templates  
* and open the template in the editor.  
*/  
package AdminPart;  
  
import java.sql.Connection;  
import java.sql.DriverManager;  
import java.sql.PreparedStatement;  
import java.sql.ResultSet;
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
import java.sql.SQLException;
import java.sql.Timestamp;
import java.util.Vector;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;

/**
 *
 * @author jaina
 */
public class ViewIssuedBooks extends javax.swing.JFrame {

    /**
     * Creates new form ViewIssuedBooks
     */
    public ViewIssuedBooks() {
        initComponents();
        setVisible(true);
        Connection con=null;
        PreparedStatement pst=null;
        try{
            String url = "jdbc:mysql://localhost:3306/library";
            String MySQLname = "root";
            String password = "";
            //Class.forName("com.mysql.jdbc.Driver");
            con=(Connection) DriverManager.getConnection(url,MySQLname,password);
            if(con == null)
            {
                JOptionPane.showMessageDialog(this, "Error in Connecting To Database!!!");
            }
            else
            {
                DefaultTableModel model = (DefaultTableModel)jTable1.getModel();
                String sql="SELECT * FROM issuedBooks"; //select all books
                pst = (PreparedStatement)con.prepareStatement(sql);
                ResultSet rs=pst.executeQuery(sql); //view data in table format
                while(rs.next())
                {
                    Timestamp issueId = rs.getTimestamp("IssueId");
                    String isbn = rs.getString("BookISBNNo");
                    String adminId = rs.getString("AdminId");
                    String studentId = rs.getString("StudentId");
                    Timestamp dueTimeStamp = rs.getTimestamp("DueTimeStamp");
                    Vector issuedBook = new Vector();
                    issuedBook.add(issueId); issuedBook.add(isbn); issuedBook.add(adminId);
                    issuedBook.add(studentId); issuedBook.add(dueTimeStamp);
                    model.addRow(issuedBook);
                    //model.addRow(new Object[]{isbn, name, category, author, publisher, price, status});
                }
                con.close();
                pst.close();
                rs.close();
            }
        } catch (SQLException e1) {
            // TODO Auto-generated catch block
            JOptionPane.showMessageDialog(null, e1);
        }
    }
}
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
/*
 * 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() {

    jPanel1 = new javax.swing.JPanel();
    jPanel2 = new javax.swing.JPanel();
    jLabel1 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();
    jButton2 = new javax.swing.JButton();
    jScrollPane1 = new javax.swing.JScrollPane();
    jTable1 = new javax.swing.JTable();

    setDefaultCloseOperation(javax.swing.WindowConstants.DO_NOTHING_ON_CLOSE);
    setMaximumSize(new java.awt.Dimension(700, 600));
    setMinimumSize(new java.awt.Dimension(700, 600));
    setResizable(false);

    jPanel1.setBackground(new java.awt.Color(51, 255, 255));
    jPanel1.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(102, 102, 255), 8, true));
    jPanel1.setMaximumSize(new java.awt.Dimension(700, 600));
    jPanel1.setMinimumSize(new java.awt.Dimension(700, 600));
    jPanel1.setPreferredSize(new java.awt.Dimension(700, 600));
    jPanel1.setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

    jPanel2.setBackground(new java.awt.Color(102, 102, 255));
    jPanel2.setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

    jLabel1.setFont(new java.awt.Font("Colonna MT", 3, 45)); // NOI18N
    jLabel1.setForeground(new java.awt.Color(255, 255, 255));
    jLabel1.setText("Library Management System");
    jPanel2.add(jLabel1, new org.netbeans.lib.awtextra.AbsoluteConstraints(45, 13, -1, -1));

    jLabel2.setFont(new java.awt.Font("MV Boli", 1, 24)); // NOI18N
    jLabel2.setForeground(new java.awt.Color(255, 255, 255));
    jLabel2.setText("View Issued Books!!!");
    jPanel2.add(jLabel2, new org.netbeans.lib.awtextra.AbsoluteConstraints(20, 60, -1, -1));

    jPanel1.add(jPanel2, new org.netbeans.lib.awtextra.AbsoluteConstraints(20, 8, 660, 100));

    jButton2.setIcon(new
        javax.swing.ImageIcon(getClass().getResource("/Images/0_PreviousButton.jpg"))); // NOI18N
    jButton2.setToolTipText("To Go To Previous Page.");
    jButton2.setRolloverEnabled(true);
    jButton2.setRolloverIcon(new javax.swing.ImageIcon(getClass().getResource("/Images/0_PreviousButton.jpg")));
    jButton2.setRolloverText("To Go To Previous Page.");
    jButton2.setUI(new javax.swing.plaf.synth.SynthUI());
    jButton2.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton2ActionPerformed(evt);
        }
    });
    jPanel1.add(jButton2, new org.netbeans.lib.awtextra.AbsoluteConstraints(30, 120, 75, 50));

    jTable1.setFont(new java.awt.Font("Tahoma", 0, 14)); // NOI18N
    jPanel1.add(jTable1, new org.netbeans.lib.awtextra.AbsoluteConstraints(10, 150, 650, 500));
}
```



K. J. Somaiya College of Engineering, Mumbai-77

(Autonomous College Affiliated to University of Mumbai)

```
jTable1.setModel(new javax.swing.table.DefaultTableModel(
    new Object [][] {
        new String [] {
            "Issue Id", "Book ISBN No.", "Admin Id.", "Student Id.", "Due Time Stamp"
        }
    },
    Class[] types = new Class [] {
        java.lang.String.class, java.lang.String.class, java.lang.String.class, java.lang.String.class,
        java.lang.String.class
    };
    boolean[] canEdit = new boolean [] {
        false, false, false, false, false
    };
);

public Class getColumnClass(int columnIndex) {
    return types [columnIndex];
}

public boolean isCellEditable(int rowIndex, int columnIndex) {
    return canEdit [columnIndex];
}
});
jTable1.getTableHeader().setReorderingAllowed(false);
jScrollPane1.setViewportView(jTable1);

jPanel1.add(jScrollPane1, new org.netbeans.lib.awtextra.AbsoluteConstraints(30, 180, 650, 380));

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addContainerGap()
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE, 700,
                javax.swing.GroupLayout.PREFERRED_SIZE)
            .addContainerGap())
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addContainerGap()
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE, 600,
                javax.swing.GroupLayout.PREFERRED_SIZE)
            .addContainerGap())
);
pack();
setLocationRelativeTo(null);
}// </editor-fold>

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



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
/*
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(ViewIssuedBooks.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
} catch (InstantiationException ex) {

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

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

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

//</editor-fold>
//</editor-fold>

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

}

// Variables declaration - do not modify
private javax.swing.JButton jButton2;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JPanel jPanel1;
private javax.swing.JPanel jPanel2;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JTable jTable1;
// End of variables declaration
}
```

8. ViewUsers.java

```
/*
* To change this license header, choose License Headers in Project Properties.
* To change this template file, choose Tools | Templates
* and open the template in the editor.
*/
package AdminPart;

import java.sql.Connection;
import java.sql.DriverManager;
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.Vector;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;

/**
 *
 * @author jaina
 */
public class ViewUsers extends javax.swing.JFrame {

    /**
     * Creates new form ViewUsers
     */
    public ViewUsers() {
        initComponents();
        setVisible(true);
        Connection con=null;
        PreparedStatement pst=null;
        try{
            String url = "jdbc:mysql://localhost:3306/library";
            String MySQLname = "root";
            String password = "";
            //Class.forName("com.mysql.jdbc.Driver");
            con=(Connection) DriverManager.getConnection(url,MySQLname,password);
            if(con == null)
            {
                JOptionPane.showMessageDialog(this, "Error in Connecting To Database!!!");
            }
            else
            {
                DefaultTableModel model = (DefaultTableModel)jTable1.getModel();
                String sql="SELECT * FROM student"; //select all books
                pst = (PreparedStatement)con.prepareStatement(sql);
                ResultSet rs=pst.executeQuery(sql); //view data in table format
                while(rs.next())
                {
                    String userName = rs.getString("UserName");
                    String userPassword = rs.getString("Password");
                    String name = rs.getString("Name");
                    String gender = rs.getString("Gender");
                    int sem = rs.getInt("Sem");
                    int rollNo = rs.getInt("RollNo");
                    String department = rs.getString("Department");
                    String emailId = rs.getString("EmailId");
                    String mobileNo = rs.getString("MobileNo");
                    Vector student = new Vector();
                    student.add(userName); student.add(userPassword); student.add(name);
                    student.add(gender); student.add(sem);
                    student.add(rollNo); student.add(department); student.add(emailId); student.add(mobileNo);
                    model.addRow(student);
                    //model.addRow(new Object[]{isbn, name, category, author, publisher, price, status});
                }
                con.close();
                pst.close();
                rs.close();
            }
        }
    }
}
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
    } catch (SQLException e1) {
        // TODO Auto-generated catch block
        JOptionPane.showMessageDialog(null, e1);
    }

    /**
     * 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() {

    jPanel1 = new javax.swing.JPanel();
    jPanel2 = new javax.swing.JPanel();
    jLabel1 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();
    jButton2 = new javax.swing.JButton();
    jScrollPane1 = new javax.swing.JScrollPane();
    jTable1 = new javax.swing.JTable();

    setDefaultCloseOperation(javax.swing.WindowConstants.DO_NOTHING_ON_CLOSE);
    setMaximumSize(new java.awt.Dimension(700, 600));
    setMinimumSize(new java.awt.Dimension(700, 600));

    jPanel1.setBackground(new java.awt.Color(51, 255, 255));
    jPanel1.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(102, 102, 255), 8, true));
    jPanel1.setMaximumSize(new java.awt.Dimension(700, 600));
    jPanel1.setMinimumSize(new java.awt.Dimension(700, 600));
    jPanel1.setPreferredSize(new java.awt.Dimension(700, 600));
    jPanel1.setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

    jPanel2.setBackground(new java.awt.Color(102, 102, 255));
    jPanel2.setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

    jLabel1.setFont(new java.awt.Font("Colonna MT", 3, 45)); // NOI18N
    jLabel1.setForeground(new java.awt.Color(255, 255, 255));
    jLabel1.setText("Library Management System");
    jPanel2.add(jLabel1, new org.netbeans.lib.awtextra.AbsoluteConstraints(45, 13, -1, -1));

    jLabel2.setFont(new java.awt.Font("MV Boli", 1, 24)); // NOI18N
    jLabel2.setForeground(new java.awt.Color(255, 255, 255));
    jLabel2.setText("View Users!!!");
    jPanel2.add(jLabel2, new org.netbeans.lib.awtextra.AbsoluteConstraints(20, 60, -1, -1));

    jPanel1.add(jPanel2, new org.netbeans.lib.awtextra.AbsoluteConstraints(20, 8, 660, 100));

    jButton2.setIcon(new javax.swing.ImageIcon(getClass().getResource("/Images/0_PreviousButton.jpg"))); // NOI18N
    jButton2.setToolTipText("To Go To Previous Page.");
    jButton2.setBorder(javax.swing.BorderFactory.createBevelBorder(javax.swing.border.BevelBorder.RAISED, java.awt.Color.blue, java.awt.Color.blue, java.awt.Color.blue, java.awt.Color.blue));
    jButton2.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
    jButton2.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton2ActionPerformed(evt);
        }
    });

    
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
        }
    });
jPanel1.add(jButton2, new org.netbeans.lib.awtextra.AbsoluteConstraints(30, 120, 75, 50));

jTable1.setFont(new java.awt.Font("Tahoma", 0, 14)); // NOI18N
jTable1.setModel(new javax.swing.table.DefaultTableModel(
new Object [][] {
},
new String [] {
    "Username", "Password", "Name", "Gender", "Sem", "Roll No.", "Department", "Email Id.",
    "Mobile No."
}
) {
    Class[] types = new Class [] {
        java.lang.String.class, java.lang.String.class, java.lang.String.class, java.lang.String.class,
        java.lang.Integer.class, java.lang.Integer.class, java.lang.String.class, java.lang.String.class,
        java.lang.String.class
    };
    boolean[] canEdit = new boolean [] {
        false, false, false, false, false, false, false, false
    };
}

public Class getColumnClass(int columnIndex) {
    return types [columnIndex];
}

public boolean isCellEditable(int rowIndex, int columnIndex) {
    return canEdit [columnIndex];
});
jTable1.getTableHeader().setReorderingAllowed(false);
jScrollPane1.setViewportView(jTable1);

jPanel1.add(jScrollPane1, new org.netbeans.lib.awtextra.AbsoluteConstraints(30, 180, 650, 380));

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE, 700,
        javax.swing.GroupLayout.PREFERRED_SIZE)
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE, 600,
        javax.swing.GroupLayout.PREFERRED_SIZE)
);

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

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

/**
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
* @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(ViewUsers.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
    } catch (InstantiationException ex) {

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

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

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

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

// Variables declaration - do not modify
private javax.swing.JButton jButton2;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JPanel jPanel1;
private javax.swing.JPanel jPanel2;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JTable jTable1;
// End of variables declaration
}
```

9. YourProfile.java

```
/*
* To change this license header, choose License Headers in Project Properties.
```



K. J. Somaiya College of Engineering, Mumbai-77
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```
* To change this template file, choose Tools | Templates
* and open the template in the editor.
*/
package AdminPart;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import javax.swing.JOptionPane;

/***
 *
 * @author jaina
 */
public class YourProfile extends javax.swing.JFrame {
    String userName;
    String adminId;
    String adminId2;
    String password;
    String name;
    String gender;
    String department;
    String mobileNo;
    String emailId;
    String errorLabel="";
    boolean flag=false;
    /**
     * Creates new form YourProfile
     */
    public YourProfile(String Id)
    {
        initComponents();
        String adminId2=adminId;
        boolean validChecker = adminId.equals(adminId2);
        do{
            if(validChecker==false)
            {
                JOptionPane.showMessageDialog( this, "You have not entered Valid AdminId !!!" );
            }
            adminId2 = JOptionPane.showInputDialog("Admin Id.");
            JOptionPane.showMessageDialog( this, adminId2 );
        }while(validChecker==false);
        //userName="Mary890";
        String url = "jdbc:mysql://localhost:3306/library";
        String MySQLname = "root";
        String dbPassword = "";
        setVisible(true);
        Connection con=null;
        PreparedStatement pst=null;
        //Class.forName("com.mysql.jdbc.Driver");
        try
        {
            con=(Connection) DriverManager.getConnection(url,MySQLname,dbPassword);
            if(con == null)
            {
                JOptionPane.showMessageDialog(this, "Error in Connecting To Database!!!");
            }
            else
```



K. J. Somaiya College of Engineering, Mumbai-77

(Autonomous College Affiliated to University of Mumbai)

```
{  
    System.out.println("Connected to database\n"+con.toString()+"\n");  
    System.out.println("UserName: "+userName);  
    String sql="SELECT * FROM admin WHERE UserName = '"+userName+"'"; //select all  
books  
    System.out.println("Reached here -2");  
    pst = (PreparedStatement)con.prepareStatement(sql);  
    //pst.setString(1,userName);  
    ResultSet rs=pst.executeQuery(sql); //view data in table format  
    if(rs.first())  
    {  
        userName = rs.getString("UserName");  
        name = rs.getString("Name");  
        gender = rs.getString("Gender");  
        String department = rs.getString("Department");  
        emailId = rs.getString("EmailId");  
        mobileNo = rs.getString("MobileNo");  
        password = rs.getString("Password");  
        jTextField1.setText(name);  
        jTextField6.setText(gender);  
        jTextField3.setText(department);  
        jTextField4.setText(mobileNo);  
        jTextField5.setText(emailId);  
        jTextField2.setText(password);  
        jTextField7.setText(userName);  
        System.out.println("Username = "+userName);  
        System.out.println("Password = "+password);  
        System.out.println("name = "+name);  
        System.out.println("gender = "+gender);  
        System.out.println("dept = "+department);  
        System.out.println("mobileNo = "+mobileNo);  
        System.out.println("emailId = "+emailId);  
    }  
    pst.close();  
    rs.close();  
    con.close();  
    setVisible(true);  
    JOptionPane.showMessageDialog(this, "Please Verify Your Profile Details!!");  
}  
}catch (Exception e1) {  
    // TODO Auto-generated catch block  
    JOptionPane.showMessageDialog(null, e1);  
}  
}  
  
private YourProfile() {  
    throw new UnsupportedOperationException("Not supported yet."); //To change body of generated  
methods, choose Tools | Templates.  
}  
  
/**  
 * 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() {
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
jPanel1 = new javax.swing.JPanel();
jPanel2 = new javax.swing.JPanel();
jLabel1 = new javax.swing.JLabel();
jLabel2 = new javax.swing.JLabel();
jPanel3 = new javax.swing.JPanel();
jLabel3 = new javax.swing.JLabel();
jLabel5 = new javax.swing.JLabel();
jTextField1 = new javax.swing.JTextField();
jLabel6 = new javax.swing.JLabel();
jTextField2 = new javax.swing.JTextField();
jLabel7 = new javax.swing.JLabel();
jTextField3 = new javax.swing.JTextField();
jLabel8 = new javax.swing.JLabel();
jTextField4 = new javax.swing.JTextField();
jTextField5 = new javax.swing.JTextField();
jLabel9 = new javax.swing.JLabel();
jLabel11 = new javax.swing.JLabel();
jTextField7 = new javax.swing.JTextField();
jLabel10 = new javax.swing.JLabel();
jTextField6 = new javax.swing.JTextField();
jButton1 = new javax.swing.JButton();
jButton2 = new javax.swing.JButton();

setDefaultCloseOperation(javax.swing.WindowConstants.DO_NOTHING_ON_CLOSE);
setMaximumSize(new java.awt.Dimension(700, 600));
setMinimumSize(new java.awt.Dimension(700, 600));

jPanel1.setBackground(new java.awt.Color(51, 255, 255));
jPanel1.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(102, 102, 255), 8, true));
jPanel1.setMaximumSize(new java.awt.Dimension(700, 600));
jPanel1.setMinimumSize(new java.awt.Dimension(700, 600));
jPanel1.setPreferredSize(new java.awt.Dimension(700, 600));
jPanel1.setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

jPanel2.setBackground(new java.awt.Color(102, 102, 255));
jPanel2.setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

jLabel1.setFont(new java.awt.Font("Colonna MT", 3, 45)); // NOI18N
jLabel1.setForeground(new java.awt.Color(255, 255, 255));
jLabel1.setText("Library Management System");
jPanel2.add(jLabel1, new org.netbeans.lib.awtextra.AbsoluteConstraints(45, 13, -1, -1));

jLabel2.setFont(new java.awt.Font("MV Boli", 1, 24)); // NOI18N
jLabel2.setForeground(new java.awt.Color(255, 255, 255));
jLabel2.setText("Your Profile!!!");
jPanel2.add(jLabel2, new org.netbeans.lib.awtextra.AbsoluteConstraints(20, 60, -1, -1));

jPanel1.add(jPanel2, new org.netbeans.lib.awtextra.AbsoluteConstraints(20, 8, 660, 100));

jPanel3.setBackground(new java.awt.Color(51, 255, 255));
jPanel3.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(102, 102, 255), 5, true));
jPanel3.setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

jLabel3.setFont(new java.awt.Font("Bodoni MT Condensed", 0, 36)); // NOI18N
jLabel3.setForeground(new java.awt.Color(102, 102, 255));
jLabel3.setText("You can change the following details:");
jPanel3.add(jLabel3, new org.netbeans.lib.awtextra.AbsoluteConstraints(20, 80, -1, -1));

jLabel5.setFont(new java.awt.Font("Tahoma", 0, 20)); // NOI18N
```



K. J. Somaiya College of Engineering, Mumbai-77

(Autonomous College Affiliated to University of Mumbai)

```
jLabel5.setForeground(new java.awt.Color(102, 102, 255));
jLabel5.setHorizontalTextPosition(javax.swing.SwingConstants.CENTER);
jLabel5.setText("Name:");
jPanel3.add(jLabel5, new org.netbeans.lib.awtextra.AbsoluteConstraints(20, 140, 133, -1));

jTextField1.setBackground(new java.awt.Color(51, 255, 255));
jTextField1.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N
jTextField1.setForeground(new java.awt.Color(102, 102, 255));
jTextField1.setHorizontalAlignment(javax.swing.JTextField.CENTER);
jTextField1.setText("Johnson G.");
jTextField1.setToolTipText("Enter your Name.");
jTextField1.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(102, 102, 255), 1,
true));
jPanel3.add(jTextField1, new org.netbeans.lib.awtextra.AbsoluteConstraints(156, 135, 140, 30));

jLabel6.setFont(new java.awt.Font("Tahoma", 0, 20)); // NOI18N
jLabel6.setForeground(new java.awt.Color(102, 102, 255));
jLabel6.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
jLabel6.setText("Password:");
jPanel3.add(jLabel6, new org.netbeans.lib.awtextra.AbsoluteConstraints(315, 140, 150, -1));

jTextField2.setBackground(new java.awt.Color(51, 255, 255));
jTextField2.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N
jTextField2.setForeground(new java.awt.Color(102, 102, 255));
jTextField2.setHorizontalAlignment(javax.swing.JTextField.CENTER);
jTextField2.setText("568Johnson");
jTextField2.setToolTipText("Enter Your Password.");
jTextField2.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(102, 102, 255), 1,
true));
jPanel3.add(jTextField2, new org.netbeans.lib.awtextra.AbsoluteConstraints(470, 135, 140, 30));

jLabel7.setFont(new java.awt.Font("Tahoma", 0, 20)); // NOI18N
jLabel7.setForeground(new java.awt.Color(102, 102, 255));
jLabel7.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
jLabel7.setText("Department:");
jLabel7.setToolTipText("");
jPanel3.add(jLabel7, new org.netbeans.lib.awtextra.AbsoluteConstraints(20, 180, 130, -1));

jTextField3.setBackground(new java.awt.Color(51, 255, 255));
jTextField3.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N
jTextField3.setForeground(new java.awt.Color(102, 102, 255));
jTextField3.setHorizontalAlignment(javax.swing.JTextField.CENTER);
jTextField3.setText("IT");
jTextField3.setToolTipText("Enter Your Department.");
jTextField3.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(102, 102, 255), 1,
true));
jTextField3.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField3ActionPerformed(evt);
    }
});
jPanel3.add(jTextField3, new org.netbeans.lib.awtextra.AbsoluteConstraints(156, 175, 140, 30));

jLabel8.setFont(new java.awt.Font("Tahoma", 0, 20)); // NOI18N
jLabel8.setForeground(new java.awt.Color(102, 102, 255));
jLabel8.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
jLabel8.setText("Mobile No.:");
jLabel8.setToolTipText("");
jPanel3.add(jLabel8, new org.netbeans.lib.awtextra.AbsoluteConstraints(315, 180, 150, -1));
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
jTextField4.setBackground(new java.awt.Color(51, 255, 255));
jTextField4.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N
jTextField4.setForeground(new java.awt.Color(102, 102, 255));
jTextField4.setHorizontalAlignment(javax.swing.JTextField.CENTER);
jTextField4.setText("1234567890");
jTextField4.setToolTipText("Enter Your Mobile No.");
jTextField4.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(102, 102, 255), 1,
true));
jPanel3.add(jTextField4, new org.netbeans.lib.awtextra.AbsoluteConstraints(470, 175, 140, 30));

jTextField5.setBackground(new java.awt.Color(51, 255, 255));
jTextField5.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N
jTextField5.setForeground(new java.awt.Color(102, 102, 255));
jTextField5.setHorizontalAlignment(javax.swing.JTextField.CENTER);
jTextField5.setText("johnson568@mail.com");
jTextField5.setToolTipText("Enter Your Department.");
jTextField5.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(102, 102, 255), 1,
true));
jPanel3.add(jTextField5, new org.netbeans.lib.awtextra.AbsoluteConstraints(250, 215, 200, 30));

jLabel9.setFont(new java.awt.Font("Tahoma", 0, 20)); // NOI18N
jLabel9.setForeground(new java.awt.Color(102, 102, 255));
jLabel9.setText("Email Id:");
jLabel9.setToolTipText("");
jPanel3.add(jLabel9, new org.netbeans.lib.awtextra.AbsoluteConstraints(160, 220, -1, -1));

jLabel11.setFont(new java.awt.Font("Tahoma", 0, 20)); // NOI18N
jLabel11.setForeground(new java.awt.Color(102, 102, 255));
jLabel11.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
jLabel11.setText("User Name:");
jPanel3.add(jLabel11, new org.netbeans.lib.awtextra.AbsoluteConstraints(20, 40, 133, -1));

jTextField7.setEditable(false);
jTextField7.setBackground(new java.awt.Color(51, 255, 255));
jTextField7.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N
jTextField7.setForeground(new java.awt.Color(102, 102, 255));
jTextField7.setHorizontalAlignment(javax.swing.JTextField.CENTER);
jTextField7.setText("Johnson568");
jTextField7.setToolTipText("You Can't edit your Name.");
jTextField7.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(102, 102, 255), 1,
true));
jPanel3.add(jTextField7, new org.netbeans.lib.awtextra.AbsoluteConstraints(156, 35, 140, 30));

jLabel10.setFont(new java.awt.Font("Tahoma", 0, 20)); // NOI18N
jLabel10.setForeground(new java.awt.Color(102, 102, 255));
jLabel10.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
jLabel10.setText("Gender:");
jPanel3.add(jLabel10, new org.netbeans.lib.awtextra.AbsoluteConstraints(315, 40, 150, -1));

jTextField6.setEditable(false);
jTextField6.setBackground(new java.awt.Color(51, 255, 255));
jTextField6.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N
jTextField6.setForeground(new java.awt.Color(102, 102, 255));
jTextField6.setHorizontalAlignment(javax.swing.JTextField.CENTER);
jTextField6.setText("Others");
jTextField6.setToolTipText("You Can't edit your Gender.");
jTextField6.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(102, 102, 255), 1,
true));
```



K. J. Somaiya College of Engineering, Mumbai-77

(Autonomous College Affiliated to University of Mumbai)

```
jPanel3.add(jTextField6, new org.netbeans.lib.awtextra.AbsoluteConstraints(470, 35, 140, 30));

jPanel1.add(jPanel3, new org.netbeans.lib.awtextra.AbsoluteConstraints(30, 190, 640, 270));

jButton1.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/Images/7_UpdateProfile.png"))); // NOI18N

jButton1.setBorder(javax.swing.BorderFactory.createBevelBorder(javax.swing.border.BevelBorder.RAI
SED, java.awt.Color.blue, java.awt.Color.blue, java.awt.Color.blue, java.awt.Color.blue));
jButton1.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});
jPanel1.add(jButton1, new org.netbeans.lib.awtextra.AbsoluteConstraints(290, 500, 120, 50));

jButton2.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/Images/0_PreviousButton.jpg"))); // NOI18N
jButton2.setToolTipText("To Go To Previous Page.");

jButton2.setBorder(javax.swing.BorderFactory.createBevelBorder(javax.swing.border.BevelBorder.RAI
SED, java.awt.Color.blue, java.awt.Color.blue, java.awt.Color.blue, java.awt.Color.blue));
jButton2.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
jButton2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
    }
});
jPanel1.add(jButton2, new org.netbeans.lib.awtextra.AbsoluteConstraints(30, 120, 75, 50));

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(10, 10, 10)
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(10, 10, 10))
        .addGroup(layout.createSequentialGroup()
            .addGap(10, 10, 10)
            .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(10, 10, 10))
    );
);

layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(10, 10, 10)
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(10, 10, 10))
        .addGroup(layout.createSequentialGroup()
            .addGap(10, 10, 10)
            .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(10, 10, 10))
    );
);

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

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    errorLabel="";
    String l1 = validateTextField1();
    String l2 = validateTextField2();
    String l3 = validateTextField3();
    String l4 = validateTextField4();
    String l5 = validateTextField5();
    String label = l1+l2+l3+l4+l5;
    if(flag)
    {
```



K. J. Somaiya College of Engineering, Mumbai-77

(Autonomous College Affiliated to University of Mumbai)

```
JOptionPane.showMessageDialog(this, label,"ERRORS",JOptionPane.ERROR_MESSAGE);
}
else
{
    int option = JOptionPane.showConfirmDialog(this, "Are you SURE you want to UPDATE Your
Profile?", "Confirmation", JOptionPane.YES_NO_OPTION);
    if(option==0)
    {
        Connection con=null;
        PreparedStatement pst=null;
        try{
            String url = "jdbc:mysql://localhost:3306/library";
            String MySQLname = "root";
            String password = "";
            System.out.println("Reached Here -24");
            //Class.forName("com.mysql.jdbc.Driver");
            con=(Connection) DriverManager.getConnection(url,MySQLname,password);
            if(con == null)
            {
                JOptionPane.showMessageDialog(this, "Error in Connecting To Database!!!");
            }
            else
            {
                System.out.println("Connected to database\n"+con.toString()+"\n");
                String sql = "UPDATE admin SET UserName = ?, Password = ?, Name = ?, Gender = ?,
Department = ?, MobileNo = ?, EmailId = ? WHERE UserName = '"+userName+"'";
                pst=con.prepareStatement(sql);
                pst.setString(1,userName);
                pst.setString(2,password);
                pst.setString(3,name);
                pst.setString(4,gender);
                pst.setString(5,department);
                pst.setString(6,mobileNo);
                pst.setString(7,emailId);
                //pst.setString(8,userName);
                System.out.println("name: "+name);
                int r=pst.executeUpdate();
                jTextField3.setText(department);
                jTextField4.setText(mobileNo);
                jTextField5.setText(emailId);
                jTextField2.setText(password);
                jTextField7.setText(userName);
                //      ResultSet rs=pst.executeQuery(sql); //view data in table format
                pst.close();
                con.close();
                //      rs.close();
                if(r>0)
                    JOptionPane.showMessageDialog(this, "Admin, Name: "+name+" of User-
Name:"+userName+", Your profile is Updated
Successfully!!","Message",JOptionPane.INFORMATION_MESSAGE);
                }
            }catch (Exception e1) {
                // TODO Auto-generated catch block
                JOptionPane.showMessageDialog(null, e1);
            }
        }
    else
    {
        this.dispose();
    }
}
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
        }
    }
//jLabel12.setText(label);

}

public String validateTextField1()
{
    errorLabel="";
    name = jTextField1.getText();
    if(name.equals(""))
    {
        errorLabel = errorLabel + "\n Enter your Name.";
        jTextField1.setText(null);
        flag=true;
    }
    if(name.length()<6)
    {
        errorLabel = errorLabel + "\n Name should be of atleast 6 characters.";
        jTextField1.setText(null);
        flag=true;
    }
    return errorLabel;
}

public String validateTextField2()
{
    errorLabel="";
    password = jTextField2.getText();
    if(password.equals(""))
    {
        errorLabel = errorLabel + "\n Enter Password.";
        jTextField2.setText(null);
        flag=true;
    }
    if(password.length()<6)
    {
        errorLabel = errorLabel + "\n Password should be of atleast 6 characters.";
        jTextField2.setText(null);
        flag=true;
    }
    return errorLabel;
}

public String validateTextField3()
{
    errorLabel="";
    department = jTextField3.getText();
    if(department.equals(""))
    {
        errorLabel = errorLabel + "\n Enter Department.";
        jTextField3.setText(null);
        flag=true;
    }
    return errorLabel;
}

public String validateTextField4()
{
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
errorLabel="";
mobileNo = jTextField4.getText();
if(mobileNo.equals("") || mobileNo.length()!=10)
{
    errorLabel = errorLabel + " Enter Mobile No. of 10 digit.";
    jTextField4.setText(null);
    flag=true;
}

if(mobileNo.length()==10)
{
    char arr[] = mobileNo.toCharArray();
    for(int i=0; i<10; i++)
    {
        if(arr[i]<48 || arr[i]>57)
        {
            errorLabel = errorLabel + " Mobile No. Should be Digits Only.";
            jTextField4.setText(null);
            flag=true;
            break;
        }
    }
}
return errorLabel;
}

public String validateTextField5()
{
    errorLabel="";
    boolean valid1,valid2;
    valid1=valid2=false;
    int count=0;
    emailId = jTextField5.getText();
    if(emailId.equals("") || emailId.length()<6)
    {
        errorLabel = errorLabel + "\n Enter Email Id. of atleast 6 character";
        jTextField5.setText(null);
        flag=true;
    }
    if(emailId.length()>6)
    {
        char arr[] = emailId.toCharArray();
        for(int i=0; i<emailId.length(); i++)
        {
            if(i>0 && i!=emailId.length())
            {
                if(arr[i]=='@' && count<2)
                {
                    valid1=true;
                    count++;
                }
                if(arr[i]== '.' && valid1==true && count<2)
                {
                    valid2=true;
                    flag=false;
                    count++;
                }
            }
            if((arr[i]=='@'|| arr[i]=='.') && valid2==true && count>1)
            {

```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
flag=true;
errorLabel = errorLabel + "\n Enter a valid Email Id.";
System.out.println("i= "+i+"count= "+count);
jTextField5.setText(null);
break;
}
}
}
if(valid2==true)
{
    flag=false;
}
else
{
    flag=true;
    errorLabel = errorLabel + "\n Enter a valid Email Id.";
    jTextField5.setText(null);
}
}
return errorLabel;
}

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

private void jTextField3ActionPerformed(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())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {

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

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

java.util.logging.Logger.getLogger(YourProfile.class.getName()).log(java.util.logging.Level.SEVERE,
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
        java.util.logging.Logger.getLogger(YourProfile.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
    }
//</editor-fold>
//</editor-fold>

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

// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel10;
private javax.swing.JLabel jLabel11;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
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.JPanel jPanel1;
private javax.swing.JPanel jPanel2;
private javax.swing.JPanel jPanel3;
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;
private javax.swing.JTextField jTextField7;
// End of variables declaration
}
```

Login Part:

1.AddAdmin.java

```
package LMSLoginPart;

import LMSLoginPart.AdminLogin;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import javax.swing.JOptionPane;
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */

/**
 *
 * @author jigne
 */
public class AddAdmin extends javax.swing.JFrame {
    String userName;
    String adminId;
    String password;
    String name;
    String gender;
    String department;
    String mobileNo;
    String emailId;
    String errorLabel="";
    boolean flag=false;
    /**
     * Creates new form AddAdmin
     */
    public AddAdmin() {
        initComponents();
        setVisible(true);
    }
    //AdminLogin adminLogin1 = new AdminLogin();

    /**
     * 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() {

        GenderbuttonGroup = new javax.swing.ButtonGroup();
        jLabel1 = new javax.swing.JLabel();
        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();
        jTextField1 = new javax.swing.JTextField();
        jTextField2 = new javax.swing.JTextField();
        jComboBox1 = new javax.swing.JComboBox();
        jTextField3 = new javax.swing.JTextField();
        jRadioButton1 = new javax.swing.JRadioButton();
        jRadioButton2 = new javax.swing.JRadioButton();
        jRadioButton3 = new javax.swing.JRadioButton();
        jPasswordField1 = new javax.swing.JPasswordField();
        jButton1 = new javax.swing.JButton();
        jButton2 = new javax.swing.JButton();
    }
}
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
setDefaultCloseOperation(javax.swing.WindowConstants.DO_NOTHING_ON_CLOSE);

jLabel1.setFont(new java.awt.Font("Times New Roman", 1, 48)); // NOI18N
jLabel1.setForeground(new java.awt.Color(0, 204, 204));
jLabel1.setText("WELCOME NEW ADMIN!");

jLabel2.setFont(new java.awt.Font("Times New Roman", 1, 18)); // NOI18N
jLabel2.setText("FILL IN THE FOLLOWING DETAILS TO BECOME AN ADMIN OF OUR
LIBRARY");

jLabel3.setFont(new java.awt.Font("Times New Roman", 1, 18)); // NOI18N
jLabel3.setText("NAME:");

jLabel4.setFont(new java.awt.Font("Times New Roman", 1, 18)); // NOI18N
jLabel4.setText("MOBILE NUMBER.:");

jLabel5.setFont(new java.awt.Font("Times New Roman", 1, 18)); // NOI18N
jLabel5.setText("DEPARTMENT:");

jLabel6.setFont(new java.awt.Font("Times New Roman", 1, 18)); // NOI18N
jLabel6.setText("EMAIL ID:");

jLabel7.setFont(new java.awt.Font("Times New Roman", 1, 18)); // NOI18N
jLabel7.setText("GENDER:");

jLabel8.setFont(new java.awt.Font("Times New Roman", 1, 18)); // NOI18N
jLabel8.setText("PASSWORD:");

jTextField1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jTextField1.setHorizontalAlignment(javax.swing.JTextField.CENTER);

jTextField2.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jTextField2.setHorizontalAlignment(javax.swing.JTextField.CENTER);

jComboBox1.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "IT",
"COMPS", "MECH", "EXTC", "ETRX" }));
jComboBox1.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));

jTextField3.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jTextField3.setHorizontalAlignment(javax.swing.JTextField.CENTER);

GenderbuttonGroup.add(jRadioButton1);
jRadioButton1.setFont(new java.awt.Font("Times New Roman", 1, 18)); // NOI18N
jRadioButton1.setText("MALE");
jRadioButton1.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));

GenderbuttonGroup.add(jRadioButton2);
jRadioButton2.setFont(new java.awt.Font("Times New Roman", 1, 18)); // NOI18N
jRadioButton2.setText("FEMALE");
jRadioButton2.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));

GenderbuttonGroup.add(jRadioButton3);
jRadioButton3.setFont(new java.awt.Font("Times New Roman", 1, 18)); // NOI18N
jRadioButton3.setSelected(true);
jRadioButton3.setText("OTHER");
jRadioButton3.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));

jPasswordField1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
```



K. J. Somaiya College of Engineering, Mumbai-77

(Autonomous College Affiliated to University of Mumbai)

```
jPasswordField1.setHorizontalAlignment(javax.swing.JTextField.CENTER);
```

```
jButton1.setFont(new java.awt.Font("Times New Roman", 1, 18)); // NOI18N  
jButton1.setText("SUBMIT");  
jButton1.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));  
jButton1.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        jButton1ActionPerformed(evt);  
    }  
});
```

```
jButton2.setIcon(new  
javax.swing.ImageIcon(getClass().getResource("/Images/0_PreviousButton.jpg"))); // NOI18N  
jButton2.setToolTipText("To Go To Previous Page.");
```

```
jButton2.setBorder(javax.swing.BorderFactory.createBevelBorder(javax.swing.border.BevelBorder.RAISED, java.awt.Color.blue, java.awt.Color.blue, java.awt.Color.blue, java.awt.Color.blue));
jButton2.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
jButton2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
    }
});
```

```
javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGap(0, 400, Short.MAX_VALUE)
);
```

```
layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addGap(18, 18, 18)
                .addComponent(jLabel5))
            .addGroup(layout.createSequentialGroup()
                .addGap(18, 18, 18)
                .addComponent(jLabel7)))
        .addGap(18, 18, 18)
        .addComponent(jLabel3)))
    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(18, 18, 18)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(layout.createSequentialGroup()
                    .addGap(18, 18, 18)
                    .addComponent(jLabel5))
                .addGroup(layout.createSequentialGroup()
                    .addGap(18, 18, 18)
                    .addComponent(jLabel7)))
            .addGap(18, 18, 18)
            .addComponent(jLabel3)))
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addGap(18, 18, 18)
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addGroup(layout.createSequentialGroup()
                        .addGap(18, 18, 18)
                        .addComponent(jLabel5))
                    .addGroup(layout.createSequentialGroup()
                        .addGap(18, 18, 18)
                        .addComponent(jLabel7)))
                .addGap(18, 18, 18)
                .addComponent(jLabel3))))))
```

NG)

```
.addGroup(layout.createSequentialGroup()
    .addComponent(jRadioButton1,
```

```
javax.swing.GroupLayout.PREFERRED_SIZE, 87, javax.swing.GroupLayout.PREFERRED_SIZE)  
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
```

D)

```
.addComponent(jRadioButton2))  
ddGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
```

LING, false)

```
.addComponent(jTextField1, javax.swing.GroupLayout.Alignment.LEADING)
.addComponent(jComboBox1,
    GroupLayout.Alignment.LEADING, GroupLayout.PREFERRED_SIZE, 195,
```

`addPreferredGap(java.awt.LayoutStyle.ComponentPlacement.RELATED)`

```
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING))
NG) 11C 46L 1-10

```
.addComponent(jLabel1)  
.addComponent(jLabel4)))
```



K. J. Somaiya College of Engineering, Mumbai-77

(Autonomous College Affiliated to University of Mumbai)

```

        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(jLabel8)))
        .addGap(18, 18, 18)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING,
false)
            .addComponent(jTextField2)
            .addComponent(jTextField3)
            .addComponent(jPasswordField1, javax.swing.GroupLayout.DEFAULT_SIZE, 187,
Short.MAX_VALUE)))
        .addGroup(layout.createSequentialGroup()
            .addContainerGap()
            .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 75,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(69, 69, 69)
            .addComponent(jLabel1)))
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
.addGroup(layout.createSequentialGroup()
    .addGap(279, 279, 279)
    .addComponent(jRadioButton3)
    .addGap(0, 0, Short.MAX_VALUE))
.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()
    .addContainerGap(127, Short.MAX_VALUE)
    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
            .addComponent(jLabel2)
            .addGap(69, 69, 69))
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
            .addComponent(jButton1)
            .addGap(379, 379, 379)))))

);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addComponent(jLabel1))
            .addGroup(layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 50,
javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addComponent(jLabel2)
        .addGap(42, 42, 42)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED_SIZE, 30,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(23, 23, 23))
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel3)
                .addComponent(jLabel4)
                .addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED_SIZE, 30,
javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel5)
                .addComponent(jLabel6)))))))

```



K. J. Somaiya College of Engineering, Mumbai-77

(Autonomous College Affiliated to University of Mumbai)

```
.addComponent(jLabel6)
.addComponent(jTextField3, javax.swing.GroupLayout.PREFERRED_SIZE, 30,
javax.swing.GroupLayout.PREFERRED_SIZE))
.addGroup(layout.createSequentialGroup()
.addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE, 30,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addGap(23, 23, 23)
.addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
.addGap(24, 24, 24)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
.addComponent(jLabel7)
.addComponent(jLabel8)
.addComponent(jRadioButton1)
.addComponent(jRadioButton2)
.addComponent(jPasswordField1, javax.swing.GroupLayout.PREFERRED_SIZE, 30,
javax.swing.GroupLayout.PREFERRED_SIZE))
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
.addComponent(jRadioButton3)
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 42,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addContainerGap(165, Short.MAX_VALUE))
);

pack();
setLocationRelativeTo(null);
}// </editor-fold>
```

```
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    errorLabel="";
    String l1 = validateTextField1();
    String l2 = validateTextField2();
    String l3 = validateTextField3();
    String l4 = validateTextField4();
    String label = l1+l2+l3+l4;
    if(flag)
    {
        JOptionPane.showMessageDialog(this, label,"ERRORS",JOptionPane.ERROR_MESSAGE);
    }
    else
    {
        Connection con=null;
        PreparedStatement pst=null;
        String department= jComboBox1.getSelectedItem().toString();
        if(jRadioButton1.isSelected())
        {
            gender="Male";
        }
        else if(jRadioButton2.isSelected())
        {
            gender="Female";
        }
        else
        {
            gender="Other";
        }
        char mobileNo1[] = mobileNo.toCharArray();
```



K. J. Somaiya College of Engineering, Mumbai-77

(Autonomous College Affiliated to University of Mumbai)

```
char name2[] = new char[3];
name2[0] = mobileNo1[7];
name2[1] = mobileNo1[8];
name2[2] = mobileNo1[9];
String userName2 = name2.toString();
String userName1 = name.toString();
String userName = userName1 + userName2;
//int mno =Integer.parseInt(mobileNo);
try
{
    String url = "jdbc:mysql://localhost:3306/library";
    String MySQLname = "root";
    String dbPassword = "";
    //Class.forName("com.mysql.jdbc.Driver");
    con=(Connection) DriverManager.getConnection(url,MySQLname,dbPassword);
    pst=con.prepareStatement("insert into admin ( UserName, Password, Name, Gender,
Department, EmailId, MobileNo) values(?, ?, ?, ?, ?, ?, ?)");
    pst.setString(1, userName);
    pst.setString(2, password);
    pst.setString(3, name);
    pst.setString(4, gender);
    pst.setString(5, department);
    pst.setString(6, emailId);
    pst.setString(7, mobileNo);
    int r=pst.executeUpdate();
    pst.close();
    con.close();
    String message = ""+name+" you are successfully registered as ADMIN !!!";
    String message2 = "Please note your UserName is: "+userName;
    JOptionPane.showMessageDialog(this, message);
    JOptionPane.showMessageDialog(this, message2);
    setVisible(false);
    new AdminLogin();
    //this.dispose();setVisible(false);
    //adminLogin1.setVisible(true);
}catch (Exception e1) {
    // TODO Auto-generated catch block
    JOptionPane.showMessageDialog(null, e1);
}
}

public String validateTextField1()
{
    errorLabel="";
    name = jTextField1.getText();
    if(name.equals(""))
    {
        errorLabel = errorLabel + "\n Enter your Name.";
        jTextField1.setText(null);
        flag=true;
    }
    if(name.length()<3)
    {
        errorLabel = errorLabel + "\n Name should be of atleast 3 characters.";
        jTextField1.setText(null);
        flag=true;
    }
    return errorLabel;
}
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

}

```
public String validateTextField2()
{
    errorLabel="";
    mobileNo = jTextField2.getText();
    if(mobileNo.equals("") || mobileNo.length()!=10)
    {
        errorLabel = errorLabel + " Enter Mobile No. of 10 digit.";
        jTextField2.setText(null);
        flag=true;
    }

    if(mobileNo.length()==10)
    {
        char arr[] = mobileNo.toCharArray();
        for(int i=0; i<10; i++)
        {
            if(arr[i]<48 || arr[i]>57)
            {
                errorLabel = errorLabel + " Mobile No. Should be Digits Only.";
                jTextField2.setText(null);
                flag=true;
                break;
            }
        }
    }
    return errorLabel;
}

public String validateTextField3()
{
    errorLabel="";
    boolean valid1,valid2;
    valid1=valid2=false;
    int count=0;
    emailId = jTextField3.getText();
    if(emailId.equals("") || emailId.length()<6)
    {
        errorLabel = errorLabel + "\n Enter Email Id. of atleast 6 character";
        jTextField3.setText(null);
        flag=true;
    }
    if(emailId.length()>6)
    {
        char arr[] = emailId.toCharArray();
        for(int i=0; i<emailId.length(); i++)
        {
            if(i>0 && i!=emailId.length())
            {
                if(arr[i]=='@' && count<2)
                {
                    valid1=true;
                    count++;
                }
                if(arr[i]== '.' && valid1==true && count<2)
                {
                    valid2=true;
                    flag=false;
                }
            }
        }
    }
}
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
        count++;
    }
    if((arr[i]=='@'|| arr[i]=='.') && valid2==true && count>1)
    {
        flag=true;
        errorLabel = errorLabel + "\n Enter a valid Email Id.";
        System.out.println("i= "+i+"count= "+count);
        jTextField3.setText(null);
        break;
    }
}
if(valid2==true)
{
    flag=false;
}
else
{
    flag=true;
    errorLabel = errorLabel + "\n Enter a valid Email Id.";
    jTextField3.setText(null);
}
return errorLabel;
}

public String validateTextField4()
{
    errorLabel="";
    password = jPasswordField1.getText();
    if(password.equals(""))
    {
        errorLabel = errorLabel + "\n Enter Password.";
        jPasswordField1.setText(null);
        flag=true;
    }
    if(password.length()<6)
    {
        errorLabel = errorLabel + "\n Password should be of atleast 6 characters.";
        jPasswordField1.setText(null);
        flag=true;
    }
    return errorLabel;
}

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

/**
 * @param args the command line arguments
 */
public static void main(String args[]) {
    /* Set the Nimbus look and feel */

```



K. J. Somaiya College of Engineering, Mumbai-77

(Autonomous College Affiliated to University of Mumbai)

```
//<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(AddAdmin.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
} catch (InstantiationException ex) {
    java.util.logging.Logger.getLogger(AddAdmin.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
} catch (IllegalAccessException ex) {
    java.util.logging.Logger.getLogger(AddAdmin.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
} catch (javax.swing.UnsupportedLookAndFeelException ex) {
    java.util.logging.Logger.getLogger(AddAdmin.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
}
//</editor-fold>
//</editor-fold>

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

// Variables declaration - do not modify
private javax.swing.ButtonGroup GenderbuttonGroup;
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
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.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JLabel jLabel7;
private javax.swing.JLabel jLabel8;
private javax.swing.JPasswordField jPasswordField1;
private javax.swing.JRadioButton jRadioButton1;
private javax.swing.JRadioButton jRadioButton2;
private javax.swing.JRadioButton jRadioButton3;
private javax.swing.JTextField jTextField1;
private javax.swing.JTextField jTextField2;
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
private javax.swing.JTextField jTextField3;
// End of variables declaration
}
```

2.AddStudent.java

```
package LMSLoginPart;

import LMSLoginPart.StudentLogin;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import javax.swing.JOptionPane;

/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */

/**
 *
 * @author jigne
 */
public class AddStudent extends javax.swing.JFrame {
    String userName;
    String studentId;
    String password;
    String name;
    String gender;
    String rollNo1;
    int rollNo;
    int sem;
    String department;
    String mobileNo;
    String emailId;
    String errorLabel="";
    boolean flag=false;

    /**
     * Creates new form AddStudent
     */
    public AddStudent() {
        initComponents();
        setVisible(true);
    }

    // StudentLogin studentLogin1 = new StudentLogin();
    /**
     * 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() {
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
GenderbuttonGroup = new javax.swing.ButtonGroup();
jLabel1 = new javax.swing.JLabel();
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();
jLabel10 = new javax.swing.JLabel();
jTextField1 = new javax.swing.JTextField();
jRadioButton1 = new javax.swing.JRadioButton();
jRadioButton2 = new javax.swing.JRadioButton();
jRadioButton3 = new javax.swing.JRadioButton();
jTextField2 = new javax.swing.JTextField();
jTextField3 = new javax.swing.JTextField();
jComboBox1 = new javax.swing.JComboBox<>();
jComboBox2 = new javax.swing.JComboBox<>();
jTextField4 = new javax.swing.JTextField();
jPasswordField1 = new javax.swing.JPasswordField();
jButton1 = new javax.swing.JButton();
jButton2 = new javax.swing.JButton();

setDefaultCloseOperation(javax.swing.WindowConstants.DO NOTHING ON CLOSE);
setAlwaysOnTop(true);

jLabel1.setFont(new java.awt.Font("Times New Roman", 1, 48)); // NOI18N
jLabel1.setForeground(new java.awt.Color(0, 204, 204));
jLabel1.setText("WELCOME NEW USER!");

jLabel2.setFont(new java.awt.Font("Times New Roman", 1, 18)); // NOI18N
jLabel2.setText("FILL IN THE FOLLOWING DETAILS TO BECOME A MEMBER OF OUR
LIBRARY");

jLabel3.setFont(new java.awt.Font("Times New Roman", 1, 18)); // NOI18N
jLabel3.setText("NAME:");

jLabel4.setFont(new java.awt.Font("Times New Roman", 1, 18)); // NOI18N
jLabel4.setText("GENDER:");

jLabel5.setFont(new java.awt.Font("Times New Roman", 1, 18)); // NOI18N
jLabel5.setText("DEPARTMENT:");

jLabel6.setFont(new java.awt.Font("Times New Roman", 1, 18)); // NOI18N
jLabel6.setText("ROLL NUMBER:");

jLabel7.setFont(new java.awt.Font("Times New Roman", 1, 18)); // NOI18N
jLabel7.setText("SEMESTER:");

jLabel8.setFont(new java.awt.Font("Times New Roman", 1, 18)); // NOI18N
jLabel8.setText("EMAIL ID:");

jLabel9.setFont(new java.awt.Font("Times New Roman", 1, 18)); // NOI18N
jLabel9.setText("MOBILE NUMBER:");

jLabel10.setFont(new java.awt.Font("Times New Roman", 1, 18)); // NOI18N
jLabel10.setText("PASSWORD:");
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
jTextField1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jTextField1.setHorizontalAlignment(javax.swing.JTextField.CENTER);
jTextField1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField1ActionPerformed(evt);
    }
});

GenderbuttonGroup.add(jRadioButton1);
jRadioButton1.setFont(new java.awt.Font("Times New Roman", 1, 18)); // NOI18N
jRadioButton1.setText("MALE");
jRadioButton1.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));

GenderbuttonGroup.add(jRadioButton2);
jRadioButton2.setFont(new java.awt.Font("Times New Roman", 1, 18)); // NOI18N
jRadioButton2.setText("FEMALE");
jRadioButton2.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));

GenderbuttonGroup.add(jRadioButton3);
jRadioButton3.setFont(new java.awt.Font("Times New Roman", 1, 18)); // NOI18N
jRadioButton3.setSelected(true);
jRadioButton3.setText("OTHER");
jRadioButton3.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
jRadioButton3.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jRadioButton3ActionPerformed(evt);
    }
});

jTextField2.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jTextField2.setHorizontalAlignment(javax.swing.JTextField.CENTER);
jTextField2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField2ActionPerformed(evt);
    }
});

jTextField3.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jTextField3.setHorizontalAlignment(javax.swing.JTextField.CENTER);
jTextField3.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField3ActionPerformed(evt);
    }
});

jComboBox1.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "IT", "COMPS", "MECH", "EXTC", "ETRX" }));
jComboBox1.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));

jComboBox2.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "1", "2", "3", "4", "5", "6", "7", "8" }));
jComboBox2.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));

jTextField4.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jTextField4.setHorizontalAlignment(javax.swing.JTextField.CENTER);

jPasswordField1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jPasswordField1.setHorizontalAlignment(javax.swing.JTextField.CENTER);
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
jButton1.setFont(new java.awt.Font("Times New Roman", 1, 24)); // NOI18N
jButton1.setText("SUBMIT");
jButton1.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});

jButton2.setIcon(new javax.swing.ImageIcon(getClass().getResource("/Images/0_PreviousButton.jpg"))); // NOI18N
jButton2.setToolTipText("To Go To Previous Page.");

jButton2.setBorder(javax.swing.BorderFactory.createBevelBorder(javax.swing.border.BevelBorder.RAISED, java.awt.Color.blue, java.awt.Color.blue, java.awt.Color.blue, java.awt.Color.blue));
jButton2.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
jButton2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
    }
});

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(7, 7, 7)
            .addComponent(jRadioButton2)
            .addGap(18, 18, 18)
            .addComponent(jLabel10)
            .addGap(18, 18, 18)
            .addComponent(jRadioButton3)
            .addGap(18, 18, 18)
            .addComponent(jPasswordField1, javax.swing.GroupLayout.PREFERRED_SIZE, 213, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(7, 7, 7))
        .addGroup(layout.createSequentialGroup()
            .addGap(96, 96, 96)
            .addComponent(jButton1)
            .addGap(27, 27, 27)
            .addComponent(jButton2))
    )
);

G)

    .addComponent(jLabel2)
    .addGroup(layout.createSequentialGroup()
        .addComponent(jLabel3)
        .addGap(27, 27, 27)
        .addComponent(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addGap(96, 96, 96)
                .addComponent(jButton1)
                .addGap(27, 27, 27)
                .addComponent(jButton2))
            .addGroup(layout.createSequentialGroup()
                .addGap(7, 7, 7)
                .addComponent(jRadioButton2)
                .addGap(18, 18, 18)
                .addComponent(jLabel10)
                .addGap(18, 18, 18)
                .addComponent(jRadioButton3)
                .addGap(18, 18, 18)
                .addComponent(jPasswordField1, javax.swing.GroupLayout.PREFERRED_SIZE, 213, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(7, 7, 7)))
        )
    )
);
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
ADING)
        .addComponent(jComboBox1,
javax.swing.GroupLayout.PREFERRED_SIZE, 195, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED_SIZE,
195, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGroup(layout.createSequentialGroup()
        .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,
195, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(3, 3, 3)))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 40,
Short.MAX_VALUE)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
DING)
        .addComponent(jLabel7, javax.swing.GroupLayout.Alignment.TRAILING)
        .addComponent(jLabel8, javax.swing.GroupLayout.Alignment.TRAILING)
        .addComponent(jLabel9, javax.swing.GroupLayout.Alignment.TRAILING))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
DING)
        .addComponent(jTextField3, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.PREFERRED_SIZE, 219, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jComboBox2,
javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.PREFERRED_SIZE, 219,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jTextField4, javax.swing.GroupLayout.PREFERRED_SIZE, 219,
javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addGroup(layout.createSequentialGroup()
        .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 75,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(67, 67, 67)
        .addComponent(jLabel1))))
        .addGap(44, 44, 44))
        .addGroup(layout.createSequentialGroup()
        .addGap(351, 351, 351)
        .addComponent(jButton1)
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
    );
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addComponent(jLabel1))
            .addGroup(layout.createSequentialGroup()
                .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 50,
javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addGap(18, 18, 18)
        .addComponent(jLabel2)
        .addGap(37, 37, 37)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addComponent(jLabel3)
                .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE, 30,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(jLabel9)))

```



K. J. Somaiya College of Engineering, Mumbai-77

(Autonomous College Affiliated to University of Mumbai)

```
.addGap(18, 18, 18)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel6)
    .addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED_SIZE, 30,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jLabel8))
.addGap(18, 18, 18)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel5)
    .addComponent(jLabel7)
    .addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED_SIZE, 30,
javax.swing.GroupLayout.PREFERRED_SIZE)))
.addGroup(layout.createSequentialGroup()
    .addComponent(jTextField3, javax.swing.GroupLayout.PREFERRED_SIZE, 30,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addGap(18, 18, 18)
    .addComponent(jTextField4, javax.swing.GroupLayout.PREFERRED_SIZE, 30,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addGap(18, 18, 18)
    .addComponent(jComboBox2, javax.swing.GroupLayout.PREFERRED_SIZE, 30,
javax.swing.GroupLayout.PREFERRED_SIZE)))
.addGap(28, 28, 28)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel4)
    .addComponent(jRadioButton1)
    .addComponent(jRadioButton2)
    .addComponent(jRadioButton3)
    .addComponent(jLabel10)
    .addComponent(jPasswordField1, javax.swing.GroupLayout.PREFERRED_SIZE, 30,
javax.swing.GroupLayout.PREFERRED_SIZE))
.addGap(18, 18, 18)
.addComponent(jButton1)
.addContainerGap(141, Short.MAX_VALUE))
);

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

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

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

private void jTextField3ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

private void jRadioButton3ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    errorLabel="";
    String l1 = validateTextField1();
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
String l2 = validateTextField2();
String l3 = validateTextField3();
emailId = jTextField4.getText();
//String l4 = validateTextField4();
String l5 = validateTextField5();
String label = l1+l2+l3+l5;
if(flag)
{
    JOptionPane.showMessageDialog(this, label,"ERRORS",JOptionPane.ERROR_MESSAGE);
}
else
{
    rollNo = Integer.parseInt(rollNo1);
    Connection con=null;
    PreparedStatement pst=null;
    department= jComboBox1.getSelectedItem().toString();
    sem = Integer.parseInt((String) jComboBox2.getSelectedItem());
    if(jRadioButton1.isSelected())
    {
        gender="Male";
    }
    else if(jRadioButton2.isSelected())
    {
        gender="Female";
    }
    else
    {
        gender="Other";
    }
    char rollNo2[] = rollNo1.toCharArray();
    char rollNo3[] = new char[3];
    rollNo3[0] = rollNo2[(rollNo1.length()-3)];
    rollNo3[1] = rollNo2[(rollNo1.length()-2)];
    rollNo3[2] = rollNo2[(rollNo1.length()-1)];
    String userName2 = rollNo3.toString();
    String userName1 = name.toString();
    userName = userName1 + userName2;
    try
    {
        String url = "jdbc:mysql://localhost:3306/library";
        String MySQLname = "root";
        String dbPassword = "";
        //Class.forName("com.mysql.jdbc.Driver");
        con=(Connection) DriverManager.getConnection(url,MySQLname,dbPassword);
        pst=con.prepareStatement("insert into student ( UserName, Password, Name, Gender, Sem,
RollNo, Department, EmailId, MobileNo) values(?, ?, ?, ?, ?, ?, ?, ?, ?)");
        pst.setString(1, userName);
        pst.setString(2, password);
        pst.setString(3, name);
        pst.setString(4, gender);
        pst.setInt(5, sem);
        pst.setInt(6, rollNo);
        pst.setString(7, department);
        pst.setString(8, emailId);
        pst.setString(9, mobileNo);
        int r=pst.executeUpdate();
        String message = ""+name+" you are successfully registered as STUDENT !!!";
        String message2 = "Please note your UserName is: "+userName;
        JOptionPane.showMessageDialog(this, message);
    }
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
JOptionPane.showMessageDialog(this, message2);
System.out.println("Reached here AssStudent Line361");
this.setVisible(false);
System.out.println("Reached here AssStudent Line363");
System.out.println("Reached here AssStudent Line365");
new StudentLogin().setVisible(true);
System.out.println("Reached here AssStudent Line366");
//this.dispose();
//studentLogin1.setVisible(true);
}catch (Exception e1) {
    // TODO Auto-generated catch block
    JOptionPane.showMessageDialog(null, e1);
}
}

public String validateTextField1()
{
    errorLabel="";
    name = jTextField1.getText();
    if(name.equals(""))
    {
        errorLabel = errorLabel + "\n Enter your Name.";
        jTextField1.setText(null);
        flag=true;
    }
    if(name.length()<3)
    {
        errorLabel = errorLabel + "\n Name should be of atleast 3 characters.";
        jTextField1.setText(null);
        flag=true;
    }
    return errorLabel;
}

public String validateTextField2()
{
    errorLabel="";
    rollNo1 = jTextField2.getText();
    if(rollNo1.equals("") || rollNo1.length()<3)
    {
        errorLabel = errorLabel + " Enter Roll No. of atleast 3 digit.";
        jTextField2.setText(null);
        flag=true;
    }
    if(rollNo1.length()==10)
    {
        char arr[] = rollNo1.toCharArray();
        for(int i=0; i<10; i++)
        {
            if(arr[i]<48 || arr[i]>57)
            {
                errorLabel = errorLabel + " Roll No. Should be Digits Only.";
                jTextField2.setText(null);
                flag=true;
                break;
            }
        }
    }
}
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
        }
    return errorLabel;
}

public String validateTextField3()
{
    errorLabel="";
    mobileNo = jTextField3.getText();
    if(mobileNo.equals("") || mobileNo.length()!=10)
    {
        errorLabel = errorLabel + " Enter Mobile No. of 10 digit.";
        jTextField3.setText(null);
        flag=true;
    }

    if(mobileNo.length()==10)
    {
        char arr[] = mobileNo.toCharArray();
        for(int i=0; i<10; i++)
        {
            if(arr[i]<48 || arr[i]>57)
            {
                errorLabel = errorLabel + " Mobile No. Should be Digits Only.";
                jTextField3.setText(null);
                flag=true;
                break;
            }
        }
    }
    return errorLabel;
}

// public String validateTextField4()
// {
//     errorLabel="";
//     boolean valid1,valid2;
//     valid1=valid2=false;
//     int count=0;
//     emailId = jTextField4.getText();
//     if(emailId.equals("") || emailId.length()<6)
//     {
//         errorLabel = errorLabel + "\n Enter Email Id. of atleast 6 character";
//         jTextField4.setText(null);
//         flag=true;
//     }
//     if(emailId.length()>6)
//     {
//         char arr[] = emailId.toCharArray();
//         for(int i=0; i<emailId.length(); i++)
//         {
//             if(i>0 && i!=emailId.length())
//             {
//                 if(arr[i]=='@' && count<2)
//                 {
//                     valid1=true;
//                     count++;
//                 }
//                 if(arr[i]== '.' && valid1==true && count<2)
//                 {
//                     valid2=true;
//                     count++;
//                 }
//             }
//         }
//     }
// }
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
//           valid2=true;
//           flag=false;
//           count++;
//       }
//       if((arr[i]=='@'|| arr[i]=='.') && valid2==true && count>1)
//       {
//           flag=true;
//           errorLabel = errorLabel + "\n Enter a valid Email Id.";
//           System.out.println("i= "+i+"count= "+count);
//           jTextField4.setText(null);
//           break;
//       }
//   }
//   if(valid2==true)
//   {
//       flag=false;
//   }
//   else
//   {
//       flag=true;
//       errorLabel = errorLabel + "\n Enter a valid Email Id.";
//       jTextField4.setText(null);
//   }
// }
// return errorLabel;
// }

public String validateTextField5()
{
    errorLabel="";
    password = jPasswordField1.getText();
    if(password.equals(""))
    {
        errorLabel = errorLabel + "\n Enter Password.";
        jPasswordField1.setText(null);
        flag=true;
    }
    if(password.length()<6)
    {
        errorLabel = errorLabel + "\n Password should be of atleast 6 characters.";
        jPasswordField1.setText(null);
        flag=true;
    }
    return errorLabel;
}

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

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



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
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(AddStudent.class.getName()).log(java.util.logging.Level.SEVERE,  
        null, ex);  
    } catch (InstantiationException ex) {  
  
        java.util.logging.Logger.getLogger(AddStudent.class.getName()).log(java.util.logging.Level.SEVERE,  
        null, ex);  
    } catch (IllegalAccessException ex) {  
  
        java.util.logging.Logger.getLogger(AddStudent.class.getName()).log(java.util.logging.Level.SEVERE,  
        null, ex);  
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {  
  
        java.util.logging.Logger.getLogger(AddStudent.class.getName()).log(java.util.logging.Level.SEVERE,  
        null, ex);  
    }  
    //</editor-fold>  
    //</editor-fold>  
  
    /* Create and display the form */  
    java.awt.EventQueue.invokeLater(new Runnable() {  
        public void run() {  
            new AddStudent().setVisible(true);  
        }  
    });  
}  
  
// Variables declaration - do not modify  
private javax.swing.ButtonGroup GenderbuttonGroup;  
private javax.swing.JButton jButton1;  
private javax.swing.JButton jButton2;  
private javax.swing.JComboBox<String> jComboBox1;  
private javax.swing.JComboBox<String> jComboBox2;  
private javax.swing.JLabel jLabel1;  
private javax.swing.JLabel jLabel10;  
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.JPasswordField jPasswordField1;
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
private javax.swing.JRadioButton jRadioButton1;
private javax.swing.JRadioButton jRadioButton2;
private javax.swing.JRadioButton jRadioButton3;
private javax.swing.JTextField jTextField1;
private javax.swing.JTextField jTextField2;
private javax.swing.JTextField jTextField3;
private javax.swing.JTextField jTextField4;
// End of variables declaration
}

3.AdminLogin.java

package LMSLoginPart;

import AdminPart.AdminPart;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import javax.swing.JOptionPane;
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */

/**
 *
 * @author jigne
 */
public class AdminLogin extends javax.swing.JFrame {
    String userName;
    String password;
    String errorLabel="";
    boolean flag=false;
    /*
     * Creates new form AdminLogin
     */
    public AdminLogin() {
        initComponents();
        setVisible(true);
    }
    /**
     * 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() {

        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();
        jLabel3 = new javax.swing.JLabel();
    }
}
```



K. J. Somaiya College of Engineering, Mumbai-77

(Autonomous College Affiliated to University of Mumbai)

```
jLabel4 = new javax.swing.JLabel();
jButton4 = new javax.swing.JButton();

setDefaultCloseOperation(javax.swing.WindowConstants.DO_NOTHING_ON_CLOSE);
setAlwaysOnTop(true);

jLabel1.setFont(new java.awt.Font("Times New Roman", 1, 48)); // NOI18N
jLabel1.setForeground(new java.awt.Color(255, 0, 0));
jLabel1.setText("WELCOME ADMIN!");

jLabel2.setFont(new java.awt.Font("Times New Roman", 1, 18)); // NOI18N
jLabel2.setText("FILL APPROPRIATE DETAILS TO LOGIN INTO YOUR ACCOUNT-");

jTextField1.setFont(new java.awt.Font("Tahoma", 0, 24)); // NOI18N
jTextField1.setHorizontalAlignment(javax.swing.JTextField.CENTER);

jPasswordField1.setFont(new java.awt.Font("Tahoma", 0, 24)); // NOI18N
jPasswordField1.setHorizontalAlignment(javax.swing.JTextField.CENTER);
jPasswordField1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jPasswordField1ActionPerformed(evt);
    }
});

jButton1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/Images/loginicon2.png")));
// NOI18N
jButton1.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});

jLabel3.setFont(new java.awt.Font("Times New Roman", 1, 24)); // NOI18N
jLabel3.setText("USER NAME:");

jLabel4.setFont(new java.awt.Font("Times New Roman", 1, 24)); // NOI18N
jLabel4.setText("PASSWORD:");

jButton4.setIcon(new javax.swing.ImageIcon(getClass().getResource("/Images/0_PreviousButton.jpg")));
// NOI18N
jButton4.setToolTipText("To Go To Previous Page.");

jButton4.setBorder(javax.swing.BorderFactory.createBevelBorder(javax.swing.border.BevelBorder.RAISED, java.awt.Color.blue, java.awt.Color.blue, java.awt.Color.blue, java.awt.Color.blue));
jButton4.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
jButton4.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton4ActionPerformed(evt);
    }
});

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addGap(10, 10, 10)
        .addComponent(jButton4)
        .addGap(10, 10, 10)
        .addComponent(jLabel4)
        .addGap(10, 10, 10)
        .addComponent(jLabel3)
        .addGap(10, 10, 10)
        .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE, 200, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(10, 10, 10)
        .addComponent(jLabel2)
        .addGap(10, 10, 10)
        .addComponent(jButton1)
    )
);
```



K. J. Somaiya College of Engineering, Mumbai-77

(Autonomous College Affiliated to University of Mumbai)

```
.addContainerGap()
.addComponent(jButton4, javax.swing.GroupLayout.PREFERRED_SIZE, 75,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addGap(110, 110, 110)
.addComponent(jLabel1))
.addGroup(layout.createSequentialGroup()
.addGap(144, 144, 144)
.addComponent(jLabel2))
.addGroup(layout.createSequentialGroup()
.addGap(268, 268, 268)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
.addComponent(jLabel4)
.addComponent(jLabel3))
.addGap(18, 18, 18)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE, 179,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addComponent(jPasswordField1, javax.swing.GroupLayout.PREFERRED_SIZE, 178,
javax.swing.GroupLayout.PREFERRED_SIZE)))
.addGroup(layout.createSequentialGroup()
.addGap(340, 340, 340)
.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 178,
javax.swing.GroupLayout.PREFERRED_SIZE)))
.addContainerGap(190, Short.MAX_VALUE))
);
layout.setVerticalGroup(
.layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addGroup(layout.createSequentialGroup()
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addComponent(jLabel1))
.addGroup(layout.createSequentialGroup()
.addContainerGap()
.addComponent(jButton4, javax.swing.GroupLayout.PREFERRED_SIZE, 50,
javax.swing.GroupLayout.PREFERRED_SIZE)))
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
.addComponent(jLabel2)
.addGap(34, 34, 34)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
.addComponent(jLabel3)
.addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE, 30,
javax.swing.GroupLayout.PREFERRED_SIZE))
.addGap(30, 30, 30)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
.addComponent(jLabel4)
.addComponent(jPasswordField1, javax.swing.GroupLayout.PREFERRED_SIZE, 30,
javax.swing.GroupLayout.PREFERRED_SIZE))
.addGap(44, 44, 44)
.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 62,
javax.swing.GroupLayout.PREFERRED_SIZE))
.addContainerGap(189, Short.MAX_VALUE))
);
pack();
 setLocationRelativeTo(null);
} // </editor-fold>

private void jPasswordField1ActionPerformed(java.awt.event.ActionEvent evt) {
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
// TODO add your handling code here:  
}  
  
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
    String l1 = validateTextField1();  
    String l2 = validateTextField2();  
    String label = l1+l2;  
    if(flag)  
    {  
        JOptionPane.showMessageDialog(this, label,"ERRORS",JOptionPane.ERROR_MESSAGE);  
    }  
    else  
    {  
        String url = "jdbc:mysql://localhost:3306/library";  
        String MySQLname = "root";  
        String dbPassword = "";  
        Connection con=null;  
        PreparedStatement pst=null;  
        //Class.forName("com.mysql.jdbc.Driver");  
        try  
        {  
            con=(Connection) DriverManager.getConnection(url,MySQLname,dbPassword);  
            if(con == null)  
            {  
                JOptionPane.showMessageDialog(this, "Error in Connecting To Database!!");  
            }  
            else  
            {  
                System.out.println("Connected to database\n"+con.toString()+"\n");  
                System.out.println("UserName: "+userName);  
                String sql="SELECT * FROM admin WHERE UserName = '"+userName+"'"; //select all  
books  
                System.out.println("Reached here -2");  
                pst = (PreparedStatement)con.prepareStatement(sql);  
                //pst.setString(1,userNmae);  
                ResultSet rs=pst.executeQuery(sql); //view data in table format  
                if(rs.first())  
                {  
                    pst.close();  
                    rs.close();  
                    con.close();  
                    JOptionPane.showMessageDialog(this, "You are Logged in!!!");  
                    setVisible(false);  
                    new AdminPart(userName);  
                    //this.dispose();  
                    //setVisible(true);  
                }  
                else  
                {  
                    pst.close();  
                    rs.close();  
                    con.close();  
                    JOptionPane.showMessageDialog(this, "Invalid User-Name or Password!!!");  
                    jTextField1.setText(null); jPasswordField1.setText(null);  
                }  
            }  
        }catch (Exception e1) {  
            // TODO Auto-generated catch block  
        }
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
JOptionPane.showMessageDialog(null, e1);
    }
}
}

public String validateTextField1()
{
    errorLabel="";
    userName = jTextField1.getText();
    if(userName.equals(""))
    {
        errorLabel = errorLabel + "\n Enter your User-Name.";
        jTextField1.setText(null);
        flag=true;
    }
    if(userName.length()<3)
    {
        errorLabel = errorLabel + "\n User-Name should be of atleast 3 characters.";
        jTextField1.setText(null);
        flag=true;
    }
    return errorLabel;
}

public String validateTextField2()
{
    errorLabel="";
    password = jPasswordField1.getText();
    if(password.equals(""))
    {
        errorLabel = errorLabel + "\n Enter Password.";
        jPasswordField1.setText(null);
        flag=true;
    }
    if(password.length()<6)
    {
        errorLabel = errorLabel + "\n Password should be of atleast 6 characters.";
        jPasswordField1.setText(null);
        flag=true;
    }
    return errorLabel;
}

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



K. J. Somaiya College of Engineering, Mumbai-77

(Autonomous College Affiliated to University of Mumbai)

```
* 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(AdminLogin.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
} catch (InstantiationException ex) {

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

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

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

//</editor-fold>
//</editor-fold>

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

// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton4;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JPasswordField jPasswordField1;
private javax.swing.JTextField jTextField1;
// End of variables declaration
}

4.AdminOption.java

package LMSLoginPart;

import LMSLoginPart.AddAdmin;
import LMSLoginPart.AdminLogin;

/*
 * To change this license header, choose License Headers in Project Properties.
 */
```



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```
* To change this template file, choose Tools | Templates
* and open the template in the editor.
*/
/***
 *
 * @author jigne
 */
public class AdminOption extends javax.swing.JFrame {

    /**
     * Creates new form AdminOption
     */
    public AdminOption() {
        initComponents();
        setVisible(true);
    }

    //AddAdmin addAdmin1 = new AddAdmin();
    //AdminLogin adminLogin1 = new AdminLogin();

    /**
     * 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() {

        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        jButton1 = new javax.swing.JButton();
        jButton2 = new javax.swing.JButton();
        jLabel3 = new javax.swing.JLabel();
        jLabel4 = new javax.swing.JLabel();
        jButton3 = new javax.swing.JButton();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

        jLabel1.setFont(new java.awt.Font("Times New Roman", 1, 48)); // NOI18N
        jLabel1.setForeground(new java.awt.Color(255, 0, 0));
        jLabel1.setText("WELCOME ADMIN!");

        jLabel2.setFont(new java.awt.Font("Times New Roman", 1, 24)); // NOI18N
        jLabel2.setText("CHOOSE THE APPROPRIATE OPTION-");

        jButton1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/Images/addusericon.png")));
        // NOI18N
        jButton1.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
        jButton1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton1ActionPerformed(evt);
            }
        });

        jButton2.setIcon(new javax.swing.ImageIcon(getClass().getResource("/Images/loginicon.jpg")));
        // NOI18N
        jButton2.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));

        javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
        getContentPane().setLayout(layout);
        layout.setHorizontalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 350, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 350, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap())
            .addGroup(layout.createSequentialGroup()
                .addGap(100, 100, 100)
                .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 150, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(100, 100, 100)
                .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 150, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(100, 100, 100))
        );
        layout.setVerticalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addContainerGap()
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 350, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 350, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(100, 100, 100)
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 150, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 150, javax.swing.GroupLayout.PREFERRED_SIZE)))
                .addContainerGap())
        );

        pack();
    }

    // Variables declaration - do not edit
    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.JButton jButton3;
    // End of variables declaration
}
```



K. J. Somaiya College of Engineering, Mumbai-77

(Autonomous College Affiliated to University of Mumbai)



K. J. Somaiya College of Engineering, Mumbai-77

(Autonomous College Affiliated to University of Mumbai)

```
.addComponent(jLabel1))
.addGroup(layout.createSequentialGroup()
    .addContainerGap()
    .addComponent(jButton4, javax.swing.GroupLayout.PREFERRED_SIZE, 50,
javax.swing.GroupLayout.PREFERRED_SIZE)))
.addGap(18, 18, 18)
.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 31,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addGap(33, 33, 33)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
    .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 217,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 217,
javax.swing.GroupLayout.PREFERRED_SIZE))
.addGap(30, 30, 30)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel3)
    .addComponent(jLabel4)))
.addContainerGap(97, Short.MAX_VALUE))
);

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

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    setVisible(false);
    new AddAdmin();
    //this.dispose();
}

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

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

```



K. J. Somaiya College of Engineering, Mumbai-77

(Autonomous College Affiliated to University of Mumbai)

```
if ("Nimbus".equals(info.getName())) {
    javax.swing.UIManager.setLookAndFeel(info.getClassName());
    break;
}
} catch (ClassNotFoundException ex) {

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

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

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

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

//</editor-fold>
//</editor-fold>

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

// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JButton jButton4;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
// End of variables declaration
}
```

5.Homepage.java

```
package LMSLoginPart;

import LMSLoginPart.AdminOption;
import LMSLoginPart.StudentOption;

import java.awt.event.WindowAdapter;
import java.awt.event.WindowListener;
import javafx.stage.WindowEvent;
import javax.swing.JFrame;
import javax.swing.JOptionPane;

/*
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 *
```



K. J. Somaiya College of Engineering, Mumbai-77

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```
* To change this template file, choose Tools | Templates
* and open the template in the editor.
*/
/***
 *
 * @author jigne
 */
public class Homepage extends javax.swing.JFrame{
// StudentOption studentOption1 = new StudentOption();
// AdminOption adminOption1 = new AdminOption();
/**
 * Creates new form Homepage
 */
public Homepage() {
    initComponents();
    setVisible(true);
    this.addWindowListener(new WindowAdapter() {
        @Override
        public void windowClosing(java.awt.event.WindowEvent e) {
            exit(); //To change body of generated methods, choose Tools | Templates.
        }
    });
}
public void exit()
{
    int option = JOptionPane.showConfirmDialog(this, "Are you SURE you want to Quit this app?", "Confirmation", JOptionPane.YES_NO_OPTION);
    if(option==0)
    {
        this.dispose();
    }
}
/**
 * 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() {

    jLabel1 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    jButton1 = new javax.swing.JButton();
    jButton3 = new javax.swing.JButton();
    jLabel4 = new javax.swing.JLabel();
    jLabel5 = new javax.swing.JLabel();

    setDefaultCloseOperation(javax.swing.WindowConstants.DO_NOTHING_ON_CLOSE);
    setAutoRequestFocus(false);
    setBackground(new java.awt.Color(255, 255, 255));
    setResizable(false);

    jLabel1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/Images/libraryicon.png"))); // NOI18N

    jLabel2.setFont(new java.awt.Font("Times New Roman", 1, 36)); // NOI18N

    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addContainerGap()
            .addComponent(jLabel1)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(jLabel2)
            .addContainerGap())
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addContainerGap()
            .addComponent(jLabel1)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(jLabel2)
            .addContainerGap())
    );
}


```



K. J. Somaiya College of Engineering, Mumbai-77

(Autonomous College Affiliated to University of Mumbai)

```
jLabel2.setText("WELCOME TO THE LIBRARY!");
```

```
jLabel3.setFont(new java.awt.Font("Times New Roman", 1, 24)); // NOI18N  
jLabel3.setText("Choose the appropriate option-");
```

```
jButton1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/Images/studenticon.png")));
// NOI18N
jButton1.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});
});
```

```
jButton3.setIcon(new javax.swing.ImageIcon(getClass().getResource("/Images/adminicon.png")));
// NOI18N
```

```
    jButton3.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
    jButton3.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton3ActionPerformed(evt);
        }
    });
});
```

```
jLabel4.setFont(new java.awt.Font("Times New Roman", 1, 18)); // NOI18N  
jLabel4.setText("STUDENT");
```

```
jLabel5.setFont(new java.awt.Font("Times New Roman", 1, 18)); // NOI18N  
jLabel5.setText("ADMIN");
```

```
javafx.scene.layout.GroupLayout layout = new javafx.scene.layout.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javafx.scene.layout.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addContainerGap(187, Short.MAX_VALUE)
        .addGroup(layout.createParallelGroup(javafx.scene.layout.GroupLayout.Alignment.LEADING, false)
            .addGroup(javafx.scene.layout.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
            .addComponent(jLabel1)
            .addGroup(370, 370, 370))
        .addGroup(javafx.scene.layout.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
            .addComponent(jLabel2, javafx.scene.layout.GroupLayout.PREFERRED_SIZE, 542,
javafx.scene.layout.GroupLayout.PREFERRED_SIZE)
            .addGroup(159, 159, 159))
        .addGroup(javafx.scene.layout.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
            .addGroup(layout.createParallelGroup(javafx.scene.layout.GroupLayout.Alignment.TRAILING)
                .addGroup(javafx.scene.layout.GroupLayout.Alignment.LEADING,
layout.createSequentialGroup()
                    .addGroup(layout.createParallelGroup(javafx.scene.layout.GroupLayout.Alignment.TRAILING)
                        .addGroup(javafx.scene.layout.GroupLayout.Alignment.LEADING,
layout.createSequentialGroup()
                            .addGroup(65, 65, 65)
                            .addComponent(jButton1, javafx.scene.layout.GroupLayout.PREFERRED_SIZE, 172,
javafx.scene.layout.GroupLayout.PREFERRED_SIZE)
                            .addGroup(60, 60, 60)
                            .addComponent(jButton3, javafx.scene.layout.GroupLayout.PREFERRED_SIZE, 0,
Short.MAX_VALUE))
                        .addComponent(jLabel3, javafx.scene.layout.GroupLayout.PREFERRED_SIZE, 364,
javafx.scene.layout.GroupLayout.PREFERRED_SIZE))
                    .addGroup(226, 226, 226))))
```



K. J. Somaiya College of Engineering, Mumbai-77

(Autonomous College Affiliated to University of Mumbai)

```
.addGroup(layout.createSequentialGroup()
    .addGap(299, 299, 299)
    .addComponent(jLabel4)
    .addGap(176, 176, 176)
    .addComponent(jLabel5)
    .addGap(0, 0, Short.MAX_VALUE))
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addGap(18, 18, 18)
        .addComponent(jLabel1)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(jLabel2)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(jLabel3)
        .addGap(29, 29, 29)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
            .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 165,
                javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jButton3, javax.swing.GroupLayout.PREFERRED_SIZE, 0,
                Short.MAX_VALUE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel4)
            .addComponent(jLabel5))
        .addContainerGap(111, Short.MAX_VALUE)))
);
pack();
setLocationRelativeTo(null);
}// </editor-fold>

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    //this.dispose();
    setVisible(false);
    new StudentOption();

}

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    //this.dispose();
    setVisible(false);
    new AdminOption();
}

/**
 * @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 :
```



K. J. Somaiya College of Engineering, Mumbai-77

(Autonomous College Affiliated to University of Mumbai)

```
javax.swing.UIManager.getInstalledLookAndFeels() {
    if ("Nimbus".equals(info.getName())) {
        javax.swing.UIManager.setLookAndFeel(info.getClassName());
        break;
    }
}
} catch (ClassNotFoundException ex) {
    java.util.logging.Logger.getLogger(Homepage.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
} catch (InstantiationException ex) {
    java.util.logging.Logger.getLogger(Homepage.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
} catch (IllegalAccessException ex) {
    java.util.logging.Logger.getLogger(Homepage.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
} catch (javax.swing.UnsupportedLookAndFeelException ex) {
    java.util.logging.Logger.getLogger(Homepage.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
}
//</editor-fold>
//</editor-fold>

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

// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton3;
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;
// End of variables declaration
}
```

6.StudentLogin.java

```
package LMSLoginPart;

import StudentPart.StudentPart;

import javax.swing.JOptionPane;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import java.util.logging.Level;
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
import java.util.logging.Logger;

/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */

/**
 *
 * @author jigne
 */
public class StudentLogin extends javax.swing.JFrame {
    String userName;
    String password;
    String errorLabel="";
    boolean flag=false;

    /**
     * Creates new form StudentLogin
     * @return
     * @throws java.lang.ClassNotFoundException
     */
    public StudentLogin() {
        initComponents();
        setVisible(true);
    }

    /**
     * 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() {

        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        jLabel3 = new javax.swing.JLabel();
        jLabel4 = new javax.swing.JLabel();
        jTextField1 = new javax.swing.JTextField();
        jPasswordField1 = new javax.swing.JPasswordField();
        jButton1 = new javax.swing.JButton();
        jButton4 = new javax.swing.JButton();

        setDefaultCloseOperation(javax.swing.WindowConstants.DO_NOTHING_ON_CLOSE);
        setAlwaysOnTop(true);

        jLabel1.setFont(new java.awt.Font("Times New Roman", 1, 48)); // NOI18N
        jLabel1.setForeground(new java.awt.Color(255, 102, 102));
        jLabel1.setText("WELCOME STUDENT!");

        jLabel2.setFont(new java.awt.Font("Times New Roman", 1, 18)); // NOI18N
        jLabel2.setText("FILL APPROPRIATE DETAILS TO LOGIN INTO YOUR ACCOUNT-");

        jLabel3.setFont(new java.awt.Font("Times New Roman", 1, 24)); // NOI18N
        jLabel3.setText("USER NAME:");

    }
}
```



K. J. Somaiya College of Engineering, Mumbai-77

(Autonomous College Affiliated to University of Mumbai)



K. J. Somaiya College of Engineering, Mumbai-77

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```
.addGroup(layout.createSequentialGroup()
    .addGap(251, 251, 251)
    .addComponent(jLabel3)
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
    .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE, 179,
javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
    .addGap(257, 257, 257)
    .addComponent(jLabel4)
    .addGap(18, 18, 18)
    .addComponent(jPasswordField1, javax.swing.GroupLayout.PREFERRED_SIZE, 178,
javax.swing.GroupLayout.PREFERRED_SIZE)))
    .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addComponent(jLabel1)
                .addGroup(layout.createSequentialGroup()
                    .addComponent(jLabel2)
                    .addGap(52, 52, 52)
                    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                        .addComponent(jLabel3)
                        .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE, 30,
javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addGap(32, 32, 32)
                    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                        .addComponent(jPasswordField1, javax.swing.GroupLayout.PREFERRED_SIZE, 30,
javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addComponent(jLabel4))
                    .addGap(64, 64, 64)
                    .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 62,
javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addGap(164, Short.MAX_VALUE))
                )
            )
        )
    )
);
pack();
 setLocationRelativeTo(null);
}// </editor-fold>

private void jPasswordField1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    String l1 = validateTextField1();
    String l2 = validateTextField2();
    String label = l1+l2;
    if(flag)
    {

```



K. J. Somaiya College of Engineering, Mumbai-77

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```
JOptionPane.showMessageDialog(this, label,"ERRORS",JOptionPane.ERROR_MESSAGE);
}
else
{
    String url = "jdbc:mysql://localhost:3306/library";
    String MySQLname = "root";
    String dbPassword = "";
    Connection con=null;
    PreparedStatement pst=null;
    //Class.forName("com.mysql.jdbc.Driver");
    try
    {
        con=(Connection) DriverManager.getConnection(url,MySQLname,dbPassword);
        if(con == null)
        {
            JOptionPane.showMessageDialog(this, "Error in Connecting To Database!!!");
        }
        else
        {
            System.out.println("Connected to database\n"+con.toString()+"\n");
            System.out.println("UserName: "+userName);
            String sql="SELECT * FROM student WHERE UserName = '"+userName+"'"; //select all
books
            System.out.println("Reached here -2");
            pst = (PreparedStatement)con.prepareStatement(sql);
            //pst.setString(1,userName);
            ResultSet rs=pst.executeQuery(sql); //view data in table format
            if(rs.first())
            {
                pst.close();
                rs.close();
                con.close();
                JOptionPane.showMessageDialog(this, "You are Logged in!!!");
                setVisible(false);
                new StudentPart(userName);
                //this.dispose();
                //setVisible(true);
            }
            else
            {
                pst.close();
                rs.close();
                con.close();
                JOptionPane.showMessageDialog(this, "Invalid User-Name or Password!!!");
                jTextField1.setText(null); jPasswordField1.setText(null);
            }
        }
    }catch (Exception e1) {
        // TODO Auto-generated catch block
        JOptionPane.showMessageDialog(null, e1);
    }
}

public String validateTextField1()
{
    errorLabel="";
    userName = jTextField1.getText();
    if(userName.equals(""))
}
}
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
{  
    errorLabel = errorLabel + "\n Enter your User-Name.";  
    jTextField1.setText(null);  
    flag=true;  
}  
if(userName.length()<3)  
{  
    errorLabel = errorLabel + "\n User-Name should be of atleast 3 characters.";  
    jTextField1.setText(null);  
    flag=true;  
}  
return errorLabel;  
}  
  
public String validateTextField2()  
{  
    errorLabel="";  
    password = jPasswordField1.getText();  
    if(password.equals(""))  
    {  
        errorLabel = errorLabel + "\n Enter Password.";  
        jPasswordField1.setText(null);  
        flag=true;  
    }  
    if(password.length()<6)  
    {  
        errorLabel = errorLabel + "\n Password should be of atleast 6 characters.";  
        jPasswordField1.setText(null);  
        flag=true;  
    }  
    return errorLabel;  
}  
  
private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
    //this.dispose();  
    setVisible(false);  
    new StudentOption();  
    //new StudentOption().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;  
            }  
        }  
    }  
}
```



K. J. Somaiya College of Engineering, Mumbai-77 (Autonomous College Affiliated to University of Mumbai)

```
        } catch (ClassNotFoundException | InstantiationException | IllegalAccessException |  
javax.swing.UnsupportedLookAndFeelException ex) {  
  
    java.util.logging.Logger.getLogger(StudentLogin.class.getName()).log(java.util.logging.Level.SEVERE,  
null, ex);  
    }  
    //</editor-fold>  
    //</editor-fold>  
  
    //</editor-fold>  
  
    /* Create and display the form */  
    java.awt.EventQueue.invokeLater(new Runnable() {  
        public void run() {  
            new StudentLogin().setVisible(true);  
        }  
    });  
}  
  
// Variables declaration - do not modify  
private javax.swing.JButton jButton1;  
private javax.swing.JButton jButton4;  
private javax.swing.JLabel jLabel1;  
private javax.swing.JLabel jLabel2;  
private javax.swing.JLabel jLabel3;  
private javax.swing.JLabel jLabel4;  
private javax.swing.JPasswordField jPasswordField1;  
private javax.swing.JTextField jTextField1;  
// End of variables declaration  
}
```

7.StudentOption.java

```
package LMSLoginPart;  
  
import LMSLoginPart.AddStudent;  
import LMSLoginPart.StudentLogin;  
  
/*  
 * To change this license header, choose License Headers in Project Properties.  
 * To change this template file, choose Tools | Templates  
 * and open the template in the editor.  
 */  
  
/**  
 *  
 * @author jigne  
 */  
public class StudentOption extends javax.swing.JFrame {  
  
    /**  
     * Creates new form student  
     */  
    public StudentOption() {  
        initComponents();  
        setVisible(true);  
    }  
  
    // AddStudent addStudent1 = new AddStudent();
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
// StudentLogin studentLogin1 = new StudentLogin();

/** 
 * 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() {

    jLabel1 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();
    jButton1 = new javax.swing.JButton();
    jButton2 = new javax.swing.JButton();
    jLabel3 = new javax.swing.JLabel();
    jLabel4 = new javax.swing.JLabel();
    jButton4 = new javax.swing.JButton();

    setDefaultCloseOperation(javax.swing.WindowConstants.DO NOTHING ON CLOSE);
    setAlwaysOnTop(true);

    jLabel1.setFont(new java.awt.Font("Times New Roman", 1, 48)); // NOI18N
    jLabel1.setForeground(new java.awt.Color(255, 102, 102));
    jLabel1.setText("WELCOME STUDENT!");

    jLabel2.setFont(new java.awt.Font("Times New Roman", 1, 24)); // NOI18N
    jLabel2.setText("CHOOSE THE APPROPRIATE OPTION-");

    jButton1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/Images/addusericon.png")));
// NOI18N
    jButton1.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
    jButton1.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton1ActionPerformed(evt);
        }
    });
}

jButton2.setIcon(new javax.swing.ImageIcon(getClass().getResource("/Images/loginicon.jpg"))); // NOI18N
jButton2.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
jButton2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
    }
});

jLabel3.setFont(new java.awt.Font("Times New Roman", 1, 24)); // NOI18N
jLabel3.setText("New User ");

jLabel4.setFont(new java.awt.Font("Times New Roman", 1, 24)); // NOI18N
jLabel4.setText("Account Login");

jButton4.setIcon(new javax.swing.ImageIcon(getClass().getResource("/Images/0_PreviousButton.jpg")));
// NOI18N
jButton4.setToolTipText("To Go To Previous Page.");

jButton4.setBorder(javax.swing.BorderFactory.createBevelBorder(javax.swing.border.BevelBorder.RAISED, java.awt.Color.blue, java.awt.Color.blue, java.awt.Color.blue, java.awt.Color.blue));
}
```



K. J. Somaiya College of Engineering, Mumbai-77

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```
jButton4.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
jButton4.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton4ActionPerformed(evt);
    }
});

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addGap(255, 255, 255)
        .addComponent(jLabel3)
        .addGap(149, 149, 149)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 206,
                javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGroup(layout.createSequentialGroup()
                .addGap(29, 29, 29)
                .addComponent(jLabel4)))
        .addGap(170, Short.MAX_VALUE))
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()
        .addGap(170, Short.MAX_VALUE)
        .addComponent(jButton4, javax.swing.GroupLayout.PREFERRED_SIZE, 75,
            javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(203, javax.swing.GroupLayout.PREFERRED_SIZE, Short.MAX_VALUE)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addGap(203, javax.swing.GroupLayout.PREFERRED_SIZE, Short.MAX_VALUE)
                .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 203,
                    javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(37, 37, 37)
                .addComponent(jLabel2)))
        .addGap(149, 149, 149)))
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addGap(56, 56, 56)
        .addComponent(jLabel1))
    .addGroup(layout.createSequentialGroup()
        .addGap(55, 55, 55)
        .addComponent(jButton4, javax.swing.GroupLayout.PREFERRED_SIZE, 50,
            javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
        .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 218,
            javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel2)))
);
```



K. J. Somaiya College of Engineering, Mumbai-77

(Autonomous College Affiliated to University of Mumbai)

```
Short.MAX_VALUE)
        .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 0,
Short.MAX_VALUE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jLabel3)
            .addComponent(jLabel4))
        .addContainerGap(157, Short.MAX_VALUE))
    );

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

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    setVisible(false);
    new AddStudent();
    //addStudent.setVisible(true);
    //this.dispose();
}

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

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    setVisible(false);
    new Homepage();
    //this.dispose();
    //new Homepage().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(StudentOption.class.getName()).log(java.util.logging.Level.SEVERE,
```



K. J. Somaiya College of Engineering, Mumbai-77

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```
, null, ex);
    } catch (InstantiationException ex) {

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

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

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

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

// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JButton jButton4;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
// End of variables declaration
}
```

3.Student Part

1.ActiveBorrowedBooks.java

```
package StudentPart;

import java.awt.Color;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.Scanner;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;

/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
```



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```
/*
 *
 * @author HP
 */
public class ActiveBorrowedBooks extends javax.swing.JFrame {
    String studentId;
    /**
     * Creates new form NewJFrame3
     * @param StudentId
     */
    public ActiveBorrowedBooks(String Id) {
        initComponents();
        getContentPane().setBackground(Color.BLUE);
        this.studentId=Id;
        setVisible(true);
        jTable1.setVisible(true);
        Connection con=null;
        PreparedStatement pst=null;
        try
        {
            int count=0;
            DefaultTableModel model = (DefaultTableModel)jTable1.getModel();
            model.setRowCount(0);
            String url ="jdbc:mysql://localhost:3306/library";
            String MySQLname = "root";
            String dbPassword = "";
            //Class.forName("com.mysql.jdbc.Driver");
            con=(Connection) DriverManager.getConnection(url,MySQLname,dbPassword);
            // pst=(PreparedStatement)con.prepareStatement("select issuedbooks.BookISBNNo,
            book.BookName, issuedbooks.IssueId, issuedBooks.DueTimeStamp from issuedBooks, book "
            //                                "WHERE book.ISBNNo = issuedBooks.BookISBNNo and
            issuedBooks.StudentId= ? "
            //                                "and IssueId NOT IN (select returnbooks.IssueId from returnBooks "
            +
            //                                "where issuebooks.StudentId = ? and returnbooks.IssueId =
            issuedbooks.IssueId)");
            pst=(PreparedStatement)con.prepareStatement("SELECT issuedbooks.BookISBNNo,
            book.BookName, issuedbooks.IssueId, issuedbooks.DueTimeStamp FROM issuedBooks,book WHERE
            book.ISBNNo = issuedBooks.BookISBNNo AND issuedBooks.StudentId = ? AND IssueId IN
            ( SELECT returnBooks.IssueId from returnbooks, issuedbooks WHERE issuedbooks.StudentId = ? AND
            returnBooks.IssueId = issuedBooks.IssueId)");
            //xyz=jTextField1.getText();
            pst.setString(1,studentId);
            pst.setString(2,studentId);
            jTextField1.setText(studentId);
            ResultSet rs=(ResultSet) pst.executeQuery();
            while(rs.next())
            {
                count++;
                String BookISBNNO = rs.getString("BookISBNNo");
                String BookName=rs.getString("BookName");
                String IssuedDate=rs.getString("IssueId");
                String DueDate=rs.getString("DueTimeStamp");
                System.out.println("BookISBNNo "+BookISBNNO);
                System.out.println("BookName: "+BookName);
                System.out.println("IssuedDate: "+IssuedDate);
                System.out.println("DueDate: "+DueDate);
                model.addRow(new Object[]{BookISBNNO,BookName,IssuedDate,DueDate});
            }
        }
    }
}
```



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```
con.close();
pst.close();
rs.close();
if(count==0)
{
    JOptionPane.showMessageDialog(this, "No Active-Borrowed Books");
}
}catch (Exception e1) {
    // TODO Auto-generated catch block
    JOptionPane.showMessageDialog(null, e1);
}

/**
 * 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() {

    jScrollPane1 = new javax.swing.JScrollPane();
    jTable1 = new javax.swing.JTable();
    jTextField1 = new javax.swing.JTextField();
    jLabel1 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();
    jButton2 = new javax.swing.JButton();

    setDefaultCloseOperation(javax.swing.WindowConstants.DO_NOTHING_ON_CLOSE);
    setMaximumSize(new java.awt.Dimension(600, 600));
    setMinimumSize(new java.awt.Dimension(600, 600));
    setPreferredSize(new java.awt.Dimension(600, 600));
    setResizable(false);
    getContentPane().setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

    jTable1.setFont(new java.awt.Font("Tahoma", 0, 14)); // NOI18N
    jTable1.setModel(new javax.swing.table.DefaultTableModel(
        new Object [][] {
            {},
            new String [] {
                "Book ISBN N0", "Book Name", "Issue TimeStamp", "Due TimeStamp"
            }
        },
        new String [] {
            "Book ISBN N0", "Book Name", "Issue TimeStamp", "Due TimeStamp"
        }
    ) {
        Class[] types = new Class [] {
            java.lang.String.class, java.lang.String.class, java.lang.String.class, java.lang.String.class
        };
        boolean[] canEdit = new boolean [] {
            false, false, false, false
        };
        
        public Class getColumnClass(int columnIndex) {
            return types [columnIndex];
        }

        public boolean isCellEditable(int rowIndex, int columnIndex) {
            return canEdit [columnIndex];
        }
    });
    jScrollPane1.setViewportView(jTable1);

    jButton2.setText("jButton2");

    jLabel2.setText("jLabel2");

    jLabel1.setText("jLabel1");

    jTextField1.setText("jTextField1");

    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addContainerGap()
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(jLabel2)
                .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE, 150, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(jButton2)
                .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 480, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(jLabel1)
            )
            .addContainerGap(18, javax.swing.GroupLayout.PREFERRED_SIZE)
        )
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addContainerGap()
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(jLabel2)
                .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(jButton2)
                .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 480, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(jLabel1)
            )
            .addContainerGap(18, javax.swing.GroupLayout.PREFERRED_SIZE)
        )
    );
}


```



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```
});  
jTable1.getTableHeader().setReorderingAllowed(false);  
jScrollPane1.setViewportView(jTable1);  
  
getContentPane().add(jScrollPane1, new org.netbeans.lib.awtextra.AbsoluteConstraints(25, 170,  
550, 360));  
  
jTextField1.setEditable(false);  
jTextField1.setFont(new java.awt.Font("Tahoma", 0, 24)); // NOI18N  
jTextField1.setHorizontalAlignment(javax.swing.JTextField.CENTER);  
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(250, 105,  
160, 30));  
  
jLabel1.setFont(new java.awt.Font("Tahoma", 0, 25)); // NOI18N  
jLabel1.setText("Student Id:");  
getContentPane().add(jLabel1, new org.netbeans.lib.awtextra.AbsoluteConstraints(120, 110, -1,  
20));  
  
jLabel2.setFont(new java.awt.Font("Tahoma", 1, 36)); // NOI18N  
jLabel2.setText("Active Borrowed Books");  
getContentPane().add(jLabel2, new org.netbeans.lib.awtextra.AbsoluteConstraints(90, 20, -1, -1));  
  
jButton2.setIcon(new  
javax.swing.ImageIcon(getClass().getResource("/Images/0_PreviousButton.jpg"))); // NOI18N  
jButton2.setToolTipText("To Go To Previous Page.");  
  
jButton2.setBorder(javax.swing.BorderFactory.createBevelBorder(javax.swing.border.BevelBorder.RAI  
SED, java.awt.Color.blue, java.awt.Color.blue, java.awt.Color.blue, java.awt.Color.blue));  
jButton2.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));  
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(20, 90, -1, -1));  
  
pack();  
setLocationRelativeTo(null);  
}// </editor-fold>  
  
private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt) {  
  
    //  
    //  
}  
  
private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
    this.dispose();  
    new StudentPart(studentId);  
    //new StudentPart(studentId).setVisible(true);  
}  
  
/**
```



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

```
// Variables declaration - do not modify  
private javax.swing.JButton jButton2;  
private javax.swing.JLabel jLabel1;  
private javax.swing.JLabel jLabel2;  
private javax.swing.JScrollPane jScrollPane1;  
private javax.swing.JTable jTable1;  
private javax.swing.JTextField jTextField1;  
// End of variables declaration  
}
```

2.AllBorrowedBooks.java

```
package StudentPart;  
  
import java.awt.Color;  
import java.sql.Connection;  
import java.sql.DriverManager;  
import java.sql.PreparedStatement;  
import java.sql.ResultSet;  
import java.sql.SQLException;  
import java.util.Scanner;  
import java.util.Vector;  
import java.util.logging.Level;  
import java.util.logging.Logger;  
import javax.swing.JOptionPane;  
import javax.swing.table.DefaultTableModel;  
  
/*  
 * To change this license header, choose License Headers in Project Properties.  
 * To change this template file, choose Tools | Templates  
 * and open the template in the editor.  
 */  
  
/**  
 *  
 * @author HP  
 */  
public class AllBorrowedBooks extends javax.swing.JFrame {  
    String studentId;  
    static void visible() {  
        throw new UnsupportedOperationException("Not supported yet."); //To change body of generated  
        methods, choose Tools | Templates.  
    }  
    /**  
     * Creates new form NewJFrame1  
     * @param id  
     */  
    public AllBorrowedBooks(String Id) {  
        initComponents();  
        getContentPane().setBackground(Color.BLUE);  
        this.studentId=Id;  
        setVisible(true);  
        jTable1.setVisible(true);  
        Connection con=null;
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
PreparedStatement pst=null;
try
{
    int count=0;
    DefaultTableModel model = (DefaultTableModel)jTable1.getModel();
    model.setRowCount(0);
    String url = "jdbc:mysql://localhost:3306/library";
    String MySQLname = "root";
    String dbPassword = "";
    //Class.forName("com.mysql.jdbc.Driver");
    con=(Connection) DriverManager.getConnection(url,MySQLname,dbPassword);
    pst=(PreparedStatement)con.prepareStatement("SELECT issuedbooks.BookISBNNo,
book.BookName, issuedbooks.IssueId, issuedbooks.DueTimeStamp FROM issuedbooks, book WHERE
book.ISBNNo = issuedbooks.BookISBNNo and issuedbooks.StudentID=?");
    //Scanner scn=new Scanner(System.in);
    pst.setString(1,studentId);
    ResultSet rs=(ResultSet) pst.executeQuery();
    jTextField1.setText(studentId);
    while(rs.next())
    {
        String isbn = rs.getString("BookISBNNo");
        String bookName=rs.getString("BookName");
        String issuedTimestamp=rs.getString("IssueId");
        String dueDateTimestamp=rs.getString("DueTimeStamp");
        System.out.println("BookISBNNo "+isbn);
        System.out.println("BookName: "+bookName);
        System.out.println("IssuedDate: "+issuedTimestamp);
        System.out.println("DueDate: "+dueDateTimestamp);
        Vector book = new Vector();
        book.add(isbn); book.add(bookName); book.add(issuedTimestamp);
        book.add(dueDateTimestamp);
        count++;
        model.addRow(book);
        //model.addRow(new Object[]{BookISBNNO,BookName,IssuedDate,DueDate});
    }
    con.close();
    pst.close();
    rs.close();
    if(count==0)
    {
        JOptionPane.showMessageDialog(this, "No Borrowed Books !!!");
    }
} catch (Exception e1) {
    // TODO Auto-generated catch block
    JOptionPane.showMessageDialog(null, e1);
}
}

/***
 * 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() {

    jLabel1 = new javax.swing.JLabel();
    jTextField1 = new javax.swing.JTextField();
}
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
jLabel2 = new javax.swing.JLabel();
jScrollPane1 = new javax.swing.JScrollPane();
jTable1 = new javax.swing.JTable();
jButton2 = new javax.swing.JButton();

setDefaultCloseOperation(javax.swing.WindowConstants.DO_NOTHING_ON_CLOSE);
setMaximumSize(new java.awt.Dimension(600, 600));
setMinimumSize(new java.awt.Dimension(600, 600));
setPreferredSize(new java.awt.Dimension(600, 600));
setResizable(false);
getContentPane().setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 25)); // NOI18N
jLabel1.setText("Student Id:");
getContentPane().add(jLabel1, new org.netbeans.lib.awtextra.AbsoluteConstraints(130, 80, -1, 20));

jTextField1.setEditable(false);
jTextField1.setFont(new java.awt.Font("Tahoma", 0, 24)); // NOI18N
jTextField1.setHorizontalAlignment(javax.swing.JTextField.CENTER);
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(260, 75, 160, 30));

jLabel2.setFont(new java.awt.Font("Tahoma", 1, 36)); // NOI18N
jLabel2.setText("All Borrowed Books");
getContentPane().add(jLabel2, new org.netbeans.lib.awtextra.AbsoluteConstraints(130, 20, -1, -1));

jTable1.setFont(new java.awt.Font("Tahoma", 0, 14)); // NOI18N
jTable1.setModel(new javax.swing.table.DefaultTableModel(
    new Object [][] {
        new String [] {
            "Book ISBN No.", "Book Name", "Issued Time Stamp", "Due Time Stamp"
        }
    },
    new String [] {
        "Book ISBN No.", "Book Name", "Issued Time Stamp", "Due Time Stamp"
    }
) {
    Class[] types = new Class [] {
        java.lang.String.class, java.lang.String.class, java.lang.String.class, java.lang.String.class
    };
    boolean[] canEdit = new boolean [] {
        false, false, false, false
    };
    public Class getColumnClass(int columnIndex) {
        return types [columnIndex];
    }
    public boolean isCellEditable(int rowIndex, int columnIndex) {
        return canEdit [columnIndex];
    }
});
jTable1.getTableHeader().setReorderingAllowed(false);
jScrollPane1.setViewportView(jTable1);

getContentPane().add(jScrollPane1, new org.netbeans.lib.awtextra.AbsoluteConstraints(20, 120,
```



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

560, 330));

```
jButton2.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/Images/0_PreviousButton.jpg"))); // NOI18N
jButton2.setToolTipText("To Go To Previous Page.");

jButton2.setBorder(javax.swing.BorderFactory.createBevelBorder(javax.swing.border.BevelBorder.RAI
SED, java.awt.Color.blue, java.awt.Color.blue, java.awt.Color.blue, java.awt.Color.blue));
jButton2.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
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(20, 20, -1, -1));

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

private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt) {

    //
    //
}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    this.dispose();
    new StudentPart(studentId);
    //new StudentPart(studentId).setVisible(true);
}

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

// Variables declaration - do not modify
private javax.swing.JButton jButton2;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JTable jTable1;
private javax.swing.JTextField jTextField1;
// End of variables declaration
}
```

3.StudentPart.java

```
package StudentPart;

import LMSLoginPart.Homepage;
import java.awt.Color;
import javax.swing.JOptionPane;

/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 */
```



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```
* and open the template in the editor.  
*/  
  
/**  
 *  
 * @author HP  
 */  
public class StudentPart extends javax.swing.JFrame {  
    String studentId;  
    /**  
     * Creates new form NewJFrame  
     */  
    public StudentPart(String id) {  
        initComponents();  
        getContentPane().setBackground(Color.BLUE);  
        this.studentId = id;  
        setVisible(true);  
    }  
  
    private StudentPart() {  
        throw new UnsupportedOperationException("Not supported yet."); //To change body of generated  
methods, choose Tools | Templates.  
    }  
  
    /**  
     * 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() {  
  
        jButton1 = new javax.swing.JButton();  
        jButton2 = new javax.swing.JButton();  
        jButton3 = new javax.swing.JButton();  
        jLabel1 = new javax.swing.JLabel();  
        jButton9 = new javax.swing.JButton();  
  
        setDefaultCloseOperation(javax.swing.WindowConstants.DO_NOTHING_ON_CLOSE);  
        setBackground(new java.awt.Color(51, 255, 255));  
        setForeground(new java.awt.Color(51, 255, 255));  
        setMaximumSize(new java.awt.Dimension(600, 600));  
        setMinimumSize(new java.awt.Dimension(600, 600));  
        setPreferredSize(new java.awt.Dimension(600, 600));  
        setResizable(false);  
        getContentPane().setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());  
  
        jButton1.setFont(new java.awt.Font("Tahoma", 3, 24)); // NOI18N  
        jButton1.setText("Active Borrowed Books");  
        jButton1.setToolTipText("");  
        jButton1.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));  
        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(125, 80, 350, 100));  
    }  
}
```



K. J. Somaiya College of Engineering, Mumbai-77

(Autonomous College Affiliated to University of Mumbai)

```
jButton2.setFont(new java.awt.Font("Tahoma", 3, 24)); // NOI18N
jButton2.setText("All Borrowed Books ");
jButton2.setToolTipText("");
jButton2.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
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(125, 210, 350,
100));

jButton3.setFont(new java.awt.Font("Tahoma", 3, 24)); // NOI18N
jButton3.setText("My Details");
jButton3.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
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(125, 340, 350,
100));

jLabel1.setFont(new java.awt.Font("Tahoma", 3, 48)); // NOI18N
jLabel1.setText("Welcome Student!!!");
getContentPane().add(jLabel1, new org.netbeans.lib.awtextra.AbsoluteConstraints(75, 10, 470, -1));

jButton9.setIcon(new javax.swing.ImageIcon(getClass().getResource("/Images/0_LogOut.png")));
// NOI18N
jButton9.setToolTipText("To Logout of Admin Panel.");

jButton9.setBorder(javax.swing.BorderFactory.createBevelBorder(javax.swing.border.BevelBorder.RAISED, java.awt.Color.blue, java.awt.Color.blue, java.awt.Color.blue, java.awt.Color.blue));
jButton9.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
jButton9.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton9ActionPerformed(evt);
    }
});
getContentPane().add(jButton9, new org.netbeans.lib.awtextra.AbsoluteConstraints(200, 470, 200,
80));

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

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    this.dispose();
    new ActiveBorrowedBooks(studentId);
    //new ActiveBorrowedBooks(studentId).setVisible(true);
}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    this.dispose();
    new AllBorrowedBooks(studentId);
    //new AllBorrowedBooks(studentId).setVisible(true);
}
```



K. J. Somaiya College of Engineering, Mumbai-77

(Autonomous College Affiliated to University of Mumbai)

```
private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
    this.dispose();
    new StudentProfile(studentId);
    //new StudentProfile(studentId).setVisible(true);
}

private void jButton9ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    int option = JOptionPane.showConfirmDialog(this, "Are you SURE you want to Log Out?", "Confirmation", JOptionPane.YES_NO_OPTION);
    if(option==0)
    {
        this.dispose();
        new Homepage();
        //new Homepage().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(StudentPart.class.getName()).log(java.util.logging.Level.SEVERE,
        null, ex);
    } catch (InstantiationException ex) {

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

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

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

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



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

```
        }  
    }  
  
    // Variables declaration - do not modify  
    private javax.swing.JButton jButton1;  
    private javax.swing.JButton jButton2;  
    private javax.swing.JButton jButton3;  
    private javax.swing.JButton jButton9;  
    private javax.swing.JLabel jLabel1;  
    // End of variables declaration  
  
}
```

4.StudentProfile.java

```
package StudentPart;  
  
import java.awt.Color;  
import java.sql.Connection;  
import java.sql.DriverManager;  
import java.sql.PreparedStatement;  
import java.sql.ResultSet;  
import java.sql.SQLException;  
import java.util.logging.Level;  
import java.util.logging.Logger;  
import javax.swing.JOptionPane;  
import javax.swing.table.DefaultTableModel;  
  
/*  
 * To change this license header, choose License Headers in Project Properties.  
 * To change this template file, choose Tools | Templates  
 * and open the template in the editor.  
 */  
  
/**  
 * @author HP  
 */  
public class StudentProfile extends javax.swing.JFrame {  
    String studentId;  
    String name ,gender ,department ,emailId, mobileNo;  
    int rollNo;  
    /**  
     * Creates new form NewJFrame2  
     * @param StudentId  
     */  
    public StudentProfile(String Id){  
        initComponents();  
        getContentPane().setBackground(Color.BLUE);  
        setVisible(true);  
        this.studentId=Id;  
        Connection con=null;  
        PreparedStatement pst=null;  
        try  
        {  
            String url = "jdbc:mysql://localhost:3306/library";  
            String MySQLname = "root";
```



K. J. Somaiya College of Engineering, Mumbai-77

(Autonomous College Affiliated to University of Mumbai)

```
String dbPassword = "";
//Class.forName("com.mysql.jdbc.Driver");
con=(Connection) DriverManager.getConnection(url,MySQLname,dbPassword);
pst=con.prepareStatement("select * from student where UserName=? ");
pst.setString(1, studentId);
ResultSet rs=(ResultSet) pst.executeQuery();
while(rs.next()){
    name = rs.getString("Name");
    rollNo=rs.getInt("RollNo");
    gender=rs.getString("Gender");
    department=rs.getString("Department");
    emailId=rs.getString("EmailId");
    mobileNo=rs.getString("MobileNo");
    jTextField1.setText(name);
    jTextField2.setText(String.valueOf(rollNo));
    jTextField3.setText(gender);
    jTextField4.setText(department);
    jTextField5.setText(emailId);
    jTextField6.setText(mobileNo);
}
} catch (Exception e1) {
    // TODO Auto-generated catch block
    JOptionPane.showMessageDialog(null, e1);
}
}

/**
 * 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();
    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();
    jTextField1 = new javax.swing.JTextField();
    jTextField2 = new javax.swing.JTextField();
    jTextField3 = new javax.swing.JTextField();
    jTextField4 = new javax.swing.JTextField();
    jTextField5 = new javax.swing.JTextField();
    jTextField6 = new javax.swing.JTextField();
    jLabel8 = new javax.swing.JLabel();
    jButton2 = new javax.swing.JButton();

    setDefaultCloseOperation(javax.swing.WindowConstants.DO_NOTHING_ON_CLOSE);
    setMaximumSize(new java.awt.Dimension(600, 600));
    setMinimumSize(new java.awt.Dimension(600, 600));
    setPreferredSize(new java.awt.Dimension(600, 600));
    getContentPane().setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

    jLabel2.setFont(new java.awt.Font("Tahoma", 0, 25)); // NOI18N
    jLabel2.setText("Name:");
    getContentPane().add(jLabel2, new org.netbeans.lib.awtextra.AbsoluteConstraints(130, 130, -1, -1));

    jLabel2.setLabelFor(jTextField1);
    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(130, 160, 150, 30));
}

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



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

1));

```
jLabel3.setFont(new java.awt.Font("Tahoma", 0, 25)); // NOI18N
jLabel3.setText("Id:");
getContentPane().add(jLabel3, new org.netbeans.lib.awtextra.AbsoluteConstraints(130, 190, 110, -1));

jLabel4.setFont(new java.awt.Font("Tahoma", 0, 25)); // NOI18N
jLabel4.setText("Gender:");
getContentPane().add(jLabel4, new org.netbeans.lib.awtextra.AbsoluteConstraints(130, 250, -1, -1));

jLabel5.setFont(new java.awt.Font("Tahoma", 0, 25)); // NOI18N
jLabel5.setText("Department:");
getContentPane().add(jLabel5, new org.netbeans.lib.awtextra.AbsoluteConstraints(130, 310, -1, -1));

jLabel6.setFont(new java.awt.Font("Tahoma", 0, 25)); // NOI18N
jLabel6.setText("Email-Id:");
getContentPane().add(jLabel6, new org.netbeans.lib.awtextra.AbsoluteConstraints(130, 370, -1, -1));

jLabel7.setFont(new java.awt.Font("Tahoma", 0, 25)); // NOI18N
jLabel7.setText("Mobile No.:");
getContentPane().add(jLabel7, new org.netbeans.lib.awtextra.AbsoluteConstraints(130, 430, -1, -1));

jTextField1.setEditable(false);
jTextField1.setFont(new java.awt.Font("Tahoma", 0, 24)); // NOI18N
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(275, 125, 160, 30));

jTextField2.setEditable(false);
jTextField2.setFont(new java.awt.Font("Tahoma", 0, 24)); // NOI18N
getContentPane().add(jTextField2, new org.netbeans.lib.awtextra.AbsoluteConstraints(275, 185, 160, 30));

jTextField3.setEditable(false);
jTextField3.setFont(new java.awt.Font("Tahoma", 0, 24)); // NOI18N
jTextField3.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField3ActionPerformed(evt);
    }
});
getContentPane().add(jTextField3, new org.netbeans.lib.awtextra.AbsoluteConstraints(275, 245, 160, 30));

jTextField4.setEditable(false);
jTextField4.setFont(new java.awt.Font("Tahoma", 0, 24)); // NOI18N
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(275, 305, 160, 30));
```



K. J. Somaiya College of Engineering, Mumbai-77

(Autonomous College Affiliated to University of Mumbai)

```
getContentPane().add(jTextField4, new org.netbeans.lib.awtextra.AbsoluteConstraints(275, 305,  
160, 30));
```

```
jTextField5.setEditable(false);  
jTextField5.setFont(new java.awt.Font("Tahoma", 0, 24)); // NOI18N  
getContentPane().add(jTextField5, new org.netbeans.lib.awtextra.AbsoluteConstraints(275, 365,  
160, 30));
```

```
jTextField6.setEditable(false);  
jTextField6.setFont(new java.awt.Font("Tahoma", 0, 24)); // NOI18N  
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(275, 425,  
160, 30));
```

```
jLabel8.setFont(new java.awt.Font("Tahoma", 1, 36)); // NOI18N  
jLabel8.setText("Your Profile");  
getContentPane().add(jLabel8, new org.netbeans.lib.awtextra.AbsoluteConstraints(170, 50, -1, -1));  
  
jButton2.setIcon(new  
javax.swing.ImageIcon(getClass().getResource("/Images/0_PreviousButton.jpg"))); // NOI18N  
jButton2.setToolTipText("To Go To Previous Page.");
```

```
jButton2.setBorder(javax.swing.BorderFactory.createBevelBorder(javax.swing.border.BevelBorder.RAI  
SED, java.awt.Color.blue, java.awt.Color.blue, java.awt.Color.blue, java.awt.Color.blue));  
jButton2.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));  
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(20, 20, -1, -1));
```

```
pack();  
setLocationRelativeTo(null);  
}// </editor-fold>
```

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

```
private void jTextField3ActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
}
```

```
private void jTextField4ActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
}
```

```
private void jTextField6ActionPerformed(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:  
    this.dispose();
```



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```
    new StudentPart(studentId);
    //new StudentPart(studentId).setVisible(true);
}
```

```
// Variables declaration - do not modify
private javax.swing.JButton jButton2;
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.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;
// End of variables declaration
}
```

4. LibrarymanagementSystem

LibraryManagementSystem.java

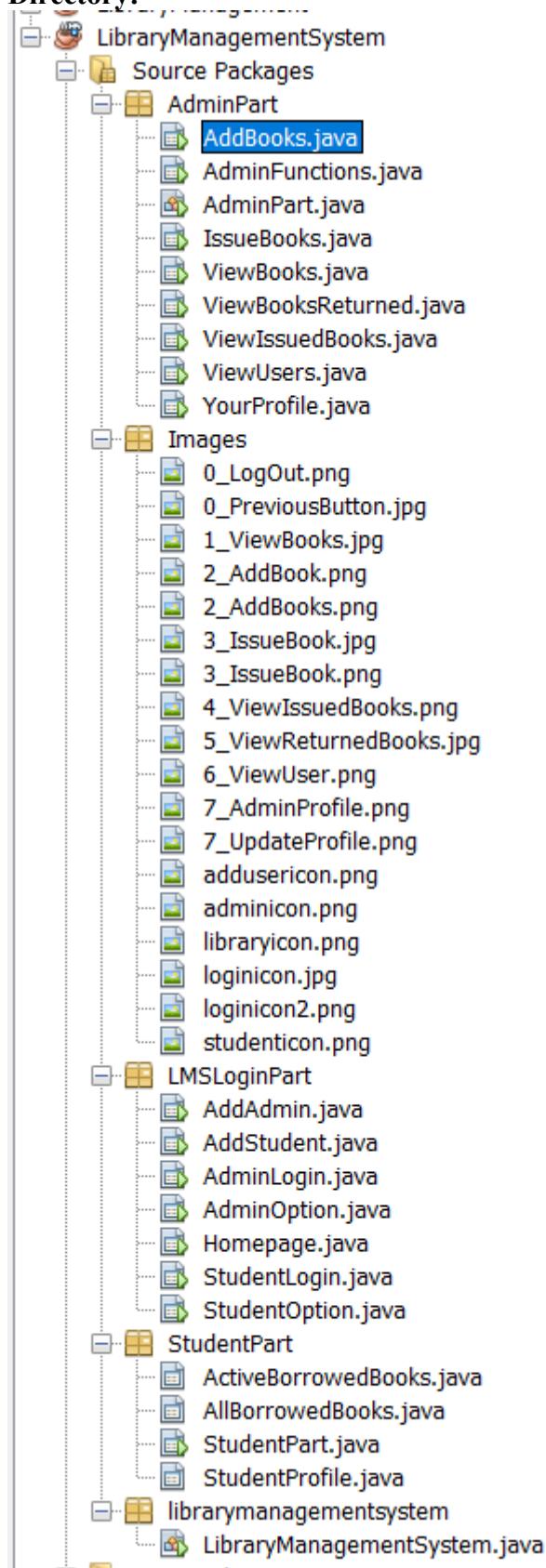
```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package librarymanagementsystem;
import LMSLoginPart.Homepage;
/**
 *
 * @author jaina
 */
public class LibraryManagementSystem {

    /**
     * @param args the command line arguments
     */
    public static void main(String[] args) {
        // TODO code application logic here
        new Homepage();
    }
}
```



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Directory:

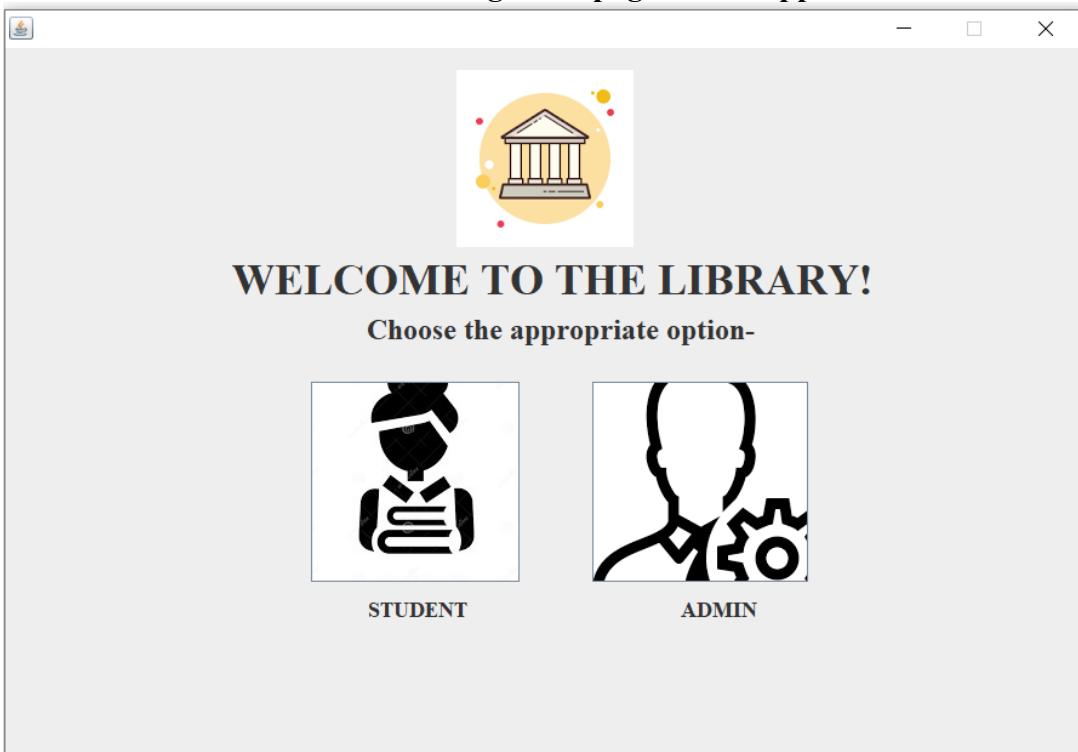


Output(s):

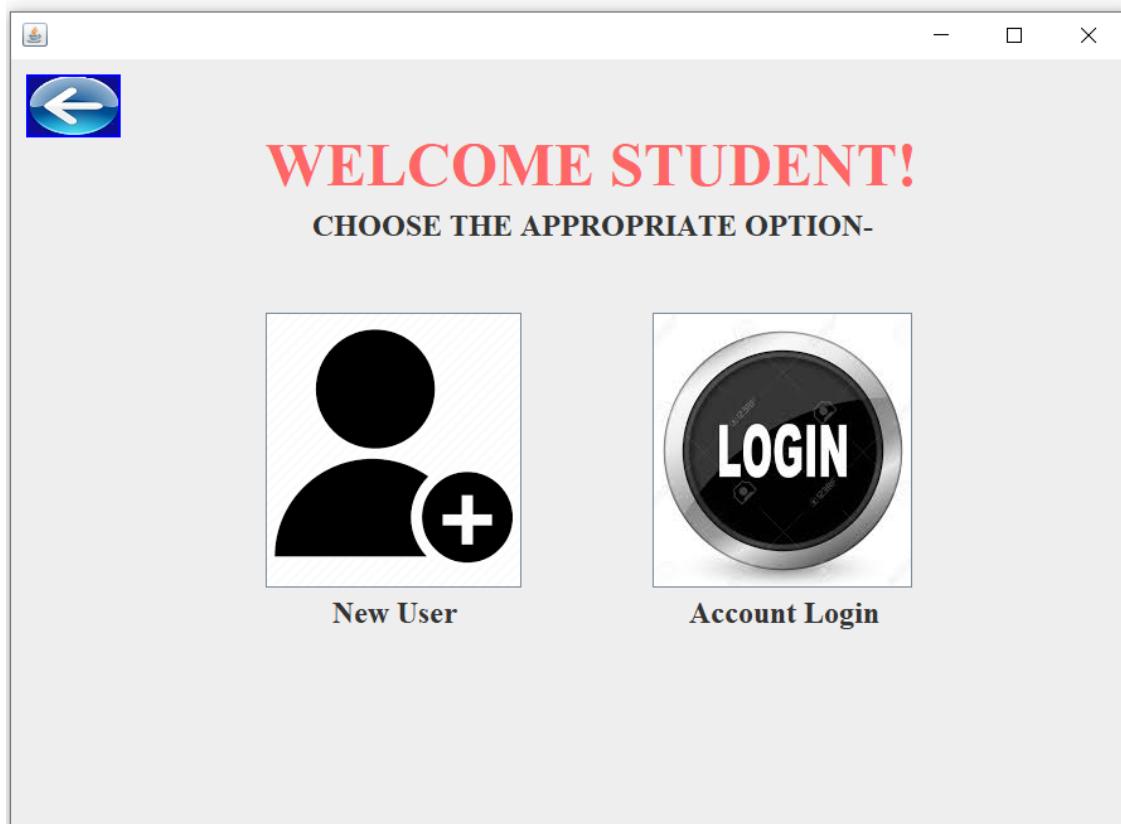


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When Clicked on run: The following Homepage Frame appears.



When Clicked on Student: The following StudentOption Frame appears.



When Clicked on New User: The following AddStudent Frame appears.



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The window has a title bar with standard minimize, maximize, and close buttons. Inside, there's a blue circular arrow icon pointing left. The main title 'WELCOME NEW USER!' is in large, bold, blue capital letters. Below it is a sub-instruction 'FILL IN THE FOLLOWING DETAILS TO BECOME A MEMBER OF OUR LIBRARY-' in black capital letters. There are four input fields in a grid: 'NAME:' with a text box, 'MOBILE NUMBER:' with a text box, 'ROLL NUMBER:' with a text box, and 'EMAIL ID:' with a text box. Below these is a dropdown menu for 'DEPARTMENT:' set to 'IT' and another dropdown for 'SEMESTER:' set to '1'. Underneath is a gender selection row with radio buttons for 'MALE', 'FEMALE', and 'OTHER', followed by a password field containing '*****'. A 'SUBMIT' button is at the bottom.

When Details are filled:

The window remains the same, but the input fields now contain data: 'NAME:' is 'Jenny', 'MOBILE NUMBER:' is '9586748563', 'ROLL NUMBER:' is '155', and 'EMAIL ID:' is 'jenny@mail.com'. The 'DEPARTMENT:' dropdown is still 'IT' and 'SEMESTER:' is '1'. The gender section shows 'FEMALE' selected. The password field still contains '*****'. The 'SUBMIT' button is at the bottom.

When Clicked on Submit: The following Dialog-Box appears



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The window contains fields for NAME (Jenny), MOBILE NUMBER (9586748563), ROLL NUMBER (Message), DEPARTMENT (MECH), GENDER (radio buttons for MALE, FEMALE, OTHER, with FEMALE selected), and a PASSWORD field containing '*****'. A 'SUBMIT' button is at the bottom. A message dialog box is displayed in the center, showing the message: "'Jenny' you are successfully registered as STUDENT !!!' with an 'OK' button.

When Clicked on ok: The following Dialog-Box appears showing User-Name of jenny.

The window now displays a message dialog box in the center stating: "Please note your UserName is: Jenny[C@fd7d0f0]" with an 'OK' button. The other fields remain the same as in the previous screenshot.

When Clicked on ok: The following StudentLogin frame appears.



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The window has a title bar with the college name. It features a blue back arrow button in the top-left corner. The main area contains the text "WELCOME STUDENT!" in large red capital letters, followed by "FILL APPROPRIATE DETAILS TO LOGIN INTO YOUR ACCOUNT-". Below this are two text input fields labeled "USER NAME:" and "PASSWORD:", each with a small rectangular border. In the center is a large, bold, black "LOGIN" button.

When Clicked previousButton: The following StudentOption frame appears.

The window has a title bar with the college name. It features a blue back arrow button in the top-left corner. The main area contains the text "WELCOME STUDENT!" in large red capital letters, followed by "CHOOSE THE APPROPRIATE OPTION-". Below this are two large buttons: one on the left with a user icon and a plus sign, labeled "New User"; and one on the right with a circular "LOGIN" button, labeled "Account Login".



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When Clicked On Account Login: The following StudentLogin frame appears.

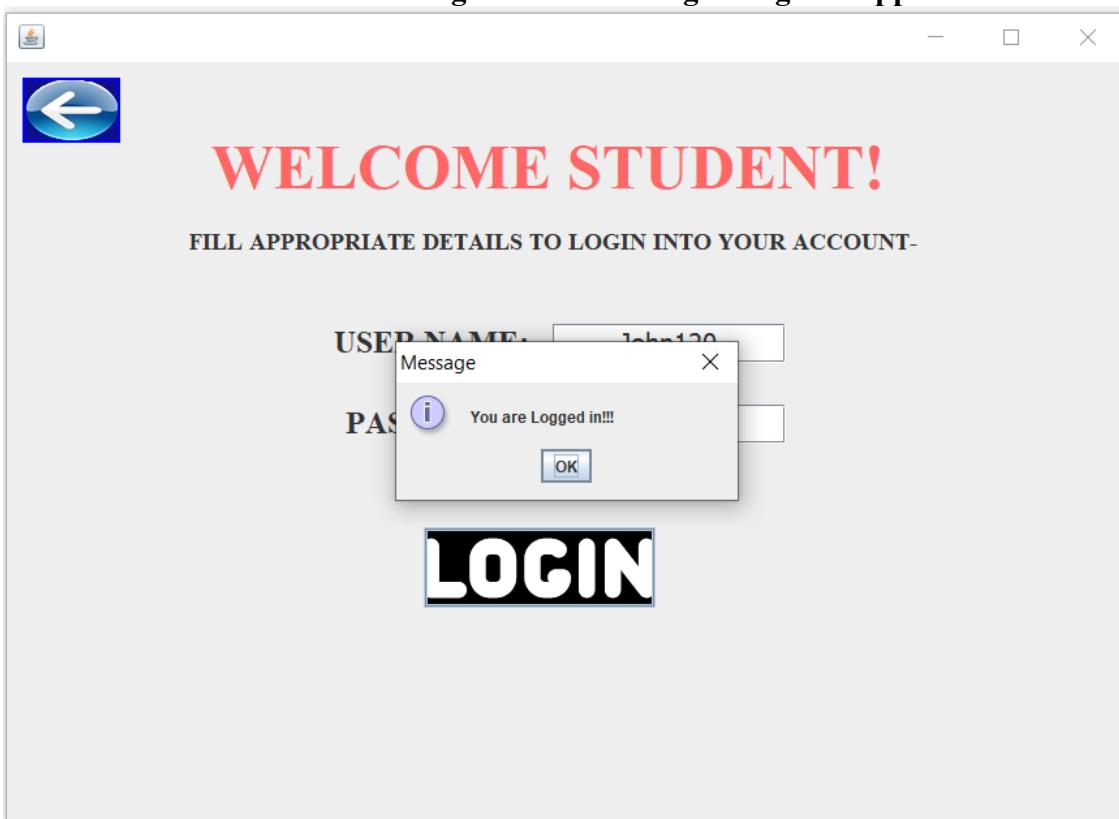
The screenshot shows a window titled "WELCOME STUDENT!" in large red capital letters. Below the title, a message reads "FILL APPROPRIATE DETAILS TO LOGIN INTO YOUR ACCOUNT-". There are two text input fields: one labeled "USER NAME:" and another labeled "PASSWORD:". A large, bold "LOGIN" button is centered at the bottom of the window. In the top-left corner, there is a blue circular icon with a white arrow pointing left.

When details are filled:

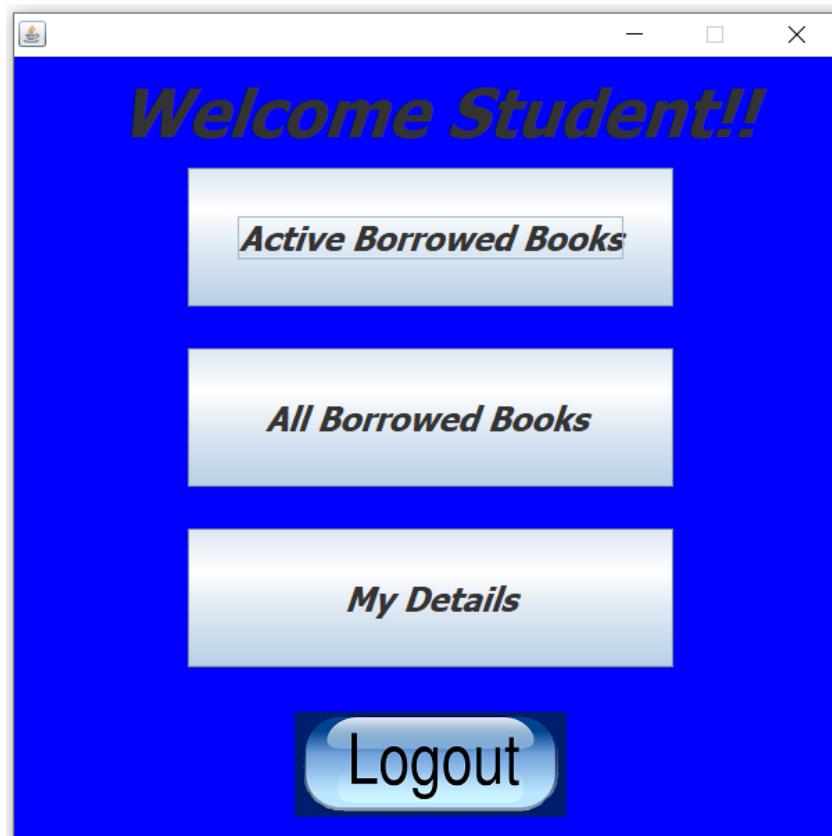
The screenshot shows the same window as above, but now with filled-in fields. The "USER NAME:" field contains "John120" and the "PASSWORD:" field contains six dots ("....."). The "LOGIN" button remains at the bottom. The blue circular icon with the left arrow is still in the top-left corner.



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When Clicked On Login: The following dialog-box appears.



When Clicked Ok:





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When Clicked On Active Borrowed Books: The following ActiveBorrowedBooks frame appears.
(The data of students and books that are borrowed books, but not yet returned)

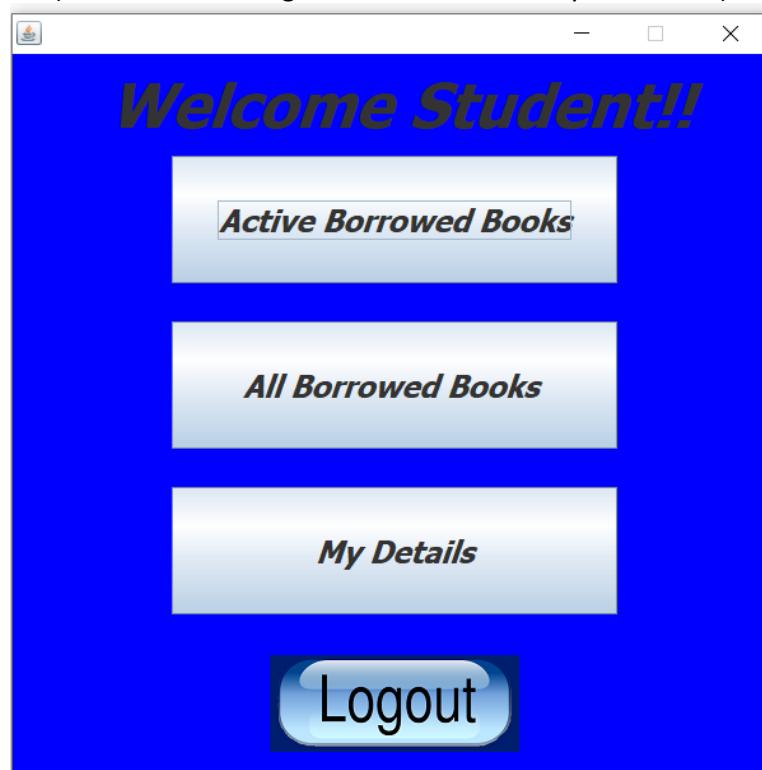
The screenshot shows a window titled "Active Borrowed Books". On the left, there is a blue circular button with a white left-pointing arrow. To its right, the text "Student Id: John120" is displayed. Below this, a table is shown with four columns: "Book ISBN NO", "Book Name", "Issue TimeStamp", and "Due TimeStamp". The table contains one row of data: "1234567890123", "MySQL", "2020-05-06 16:21:...", and "2020-05-13 16:21:...".

Book ISBN NO	Book Name	Issue TimeStamp	Due TimeStamp
1234567890123	MySQL	2020-05-06 16:21:...	2020-05-13 16:21:...

When Clicked On PreviousButton:



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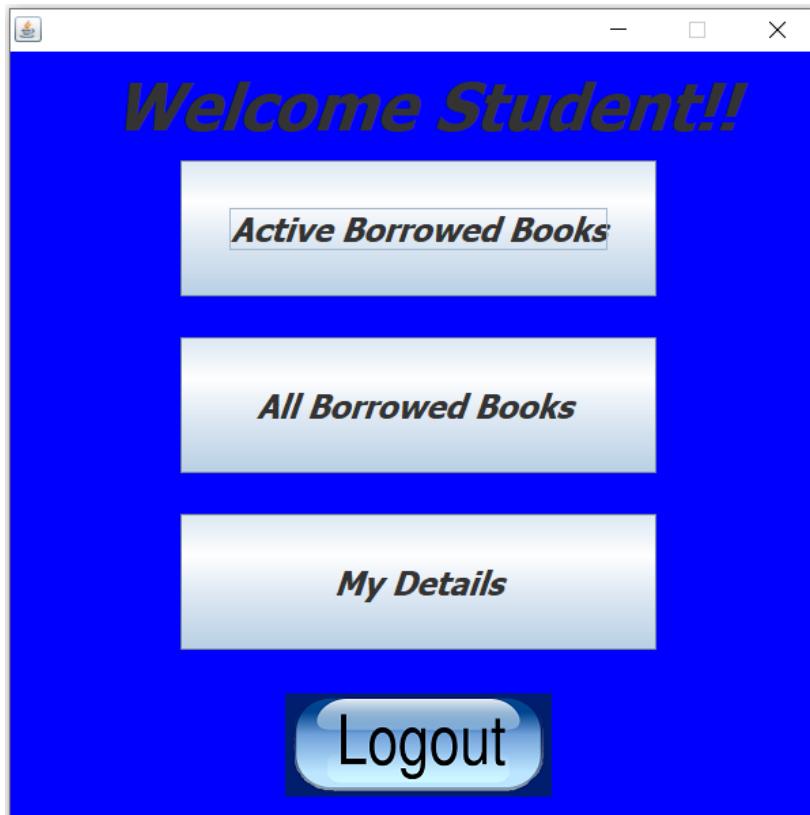
When Clicked On All Borrowed Books: The following AllBorrowedBooks frame appears.
(The data of students and books that are borrowed book.)

Book ISBN No.	Book Name	Issued Time Stamp	Due Time Stamp
1234567890123	MySQL	2020-05-06 16:21:...	2020-05-13 16:21:...
1234567890123	MySQL	2020-05-09 20:30:...	2020-05-16 20:30:...
1234567890124	MySQL	2020-05-09 16:03:...	2020-05-16 16:02:...
1234567890127	PHP world	2020-05-09 22:22:...	2020-05-16 22:22:...

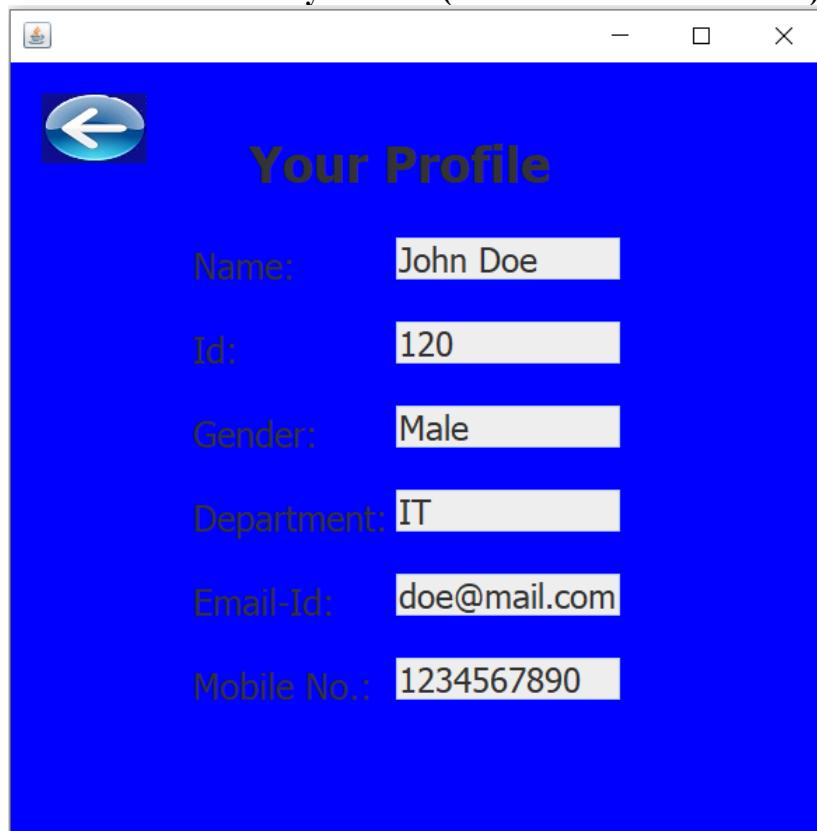


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When Clicked On PreviousButton:



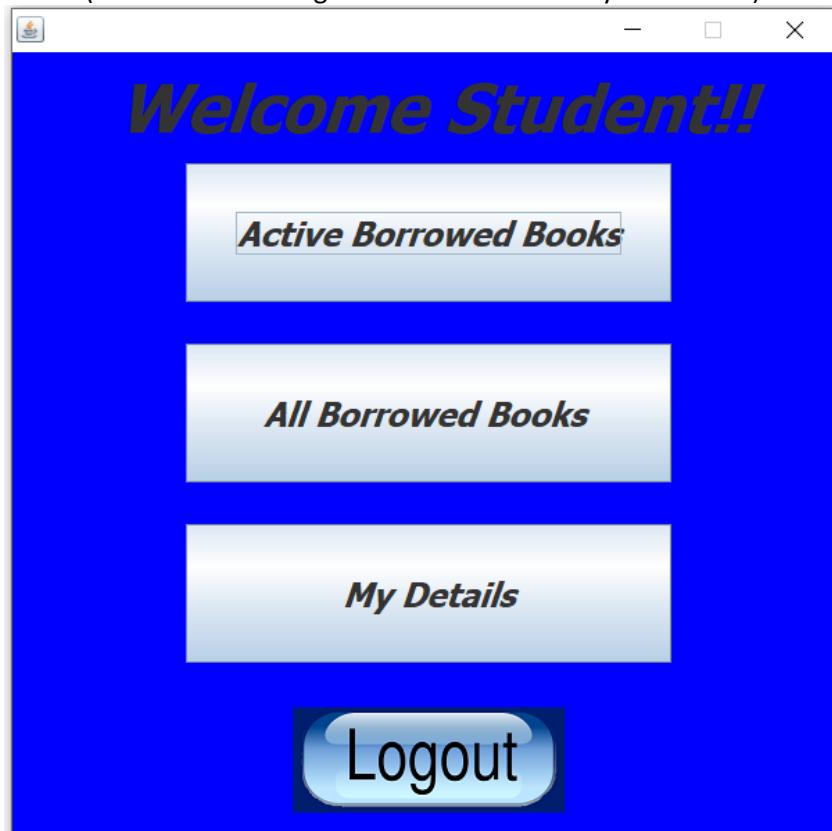
When Clicked On My Details: (Student details are Shown)



When Clicked On PreviousButton:



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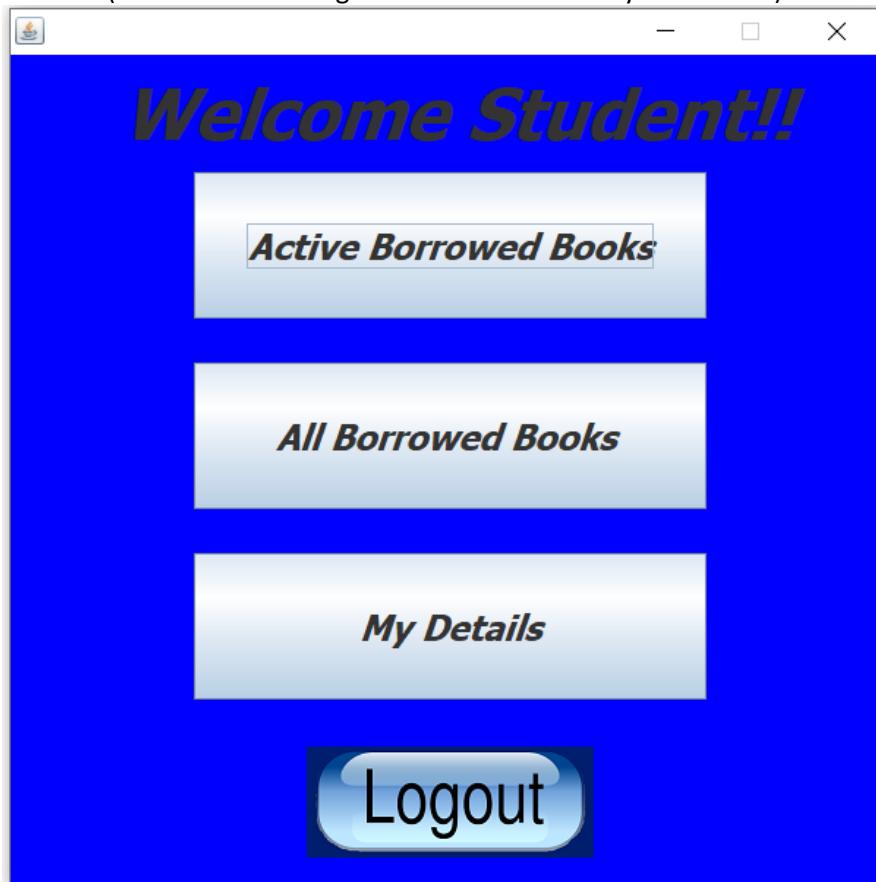
When Clicked On Logout: The following dialog-box appears.



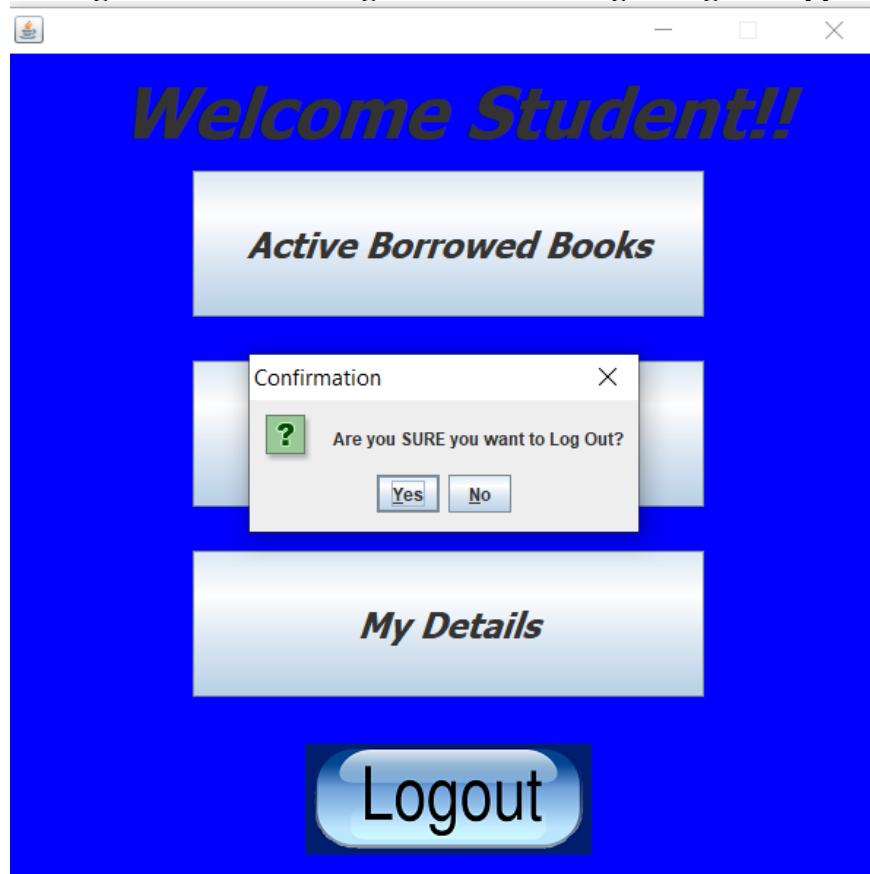
When Clicked on No:



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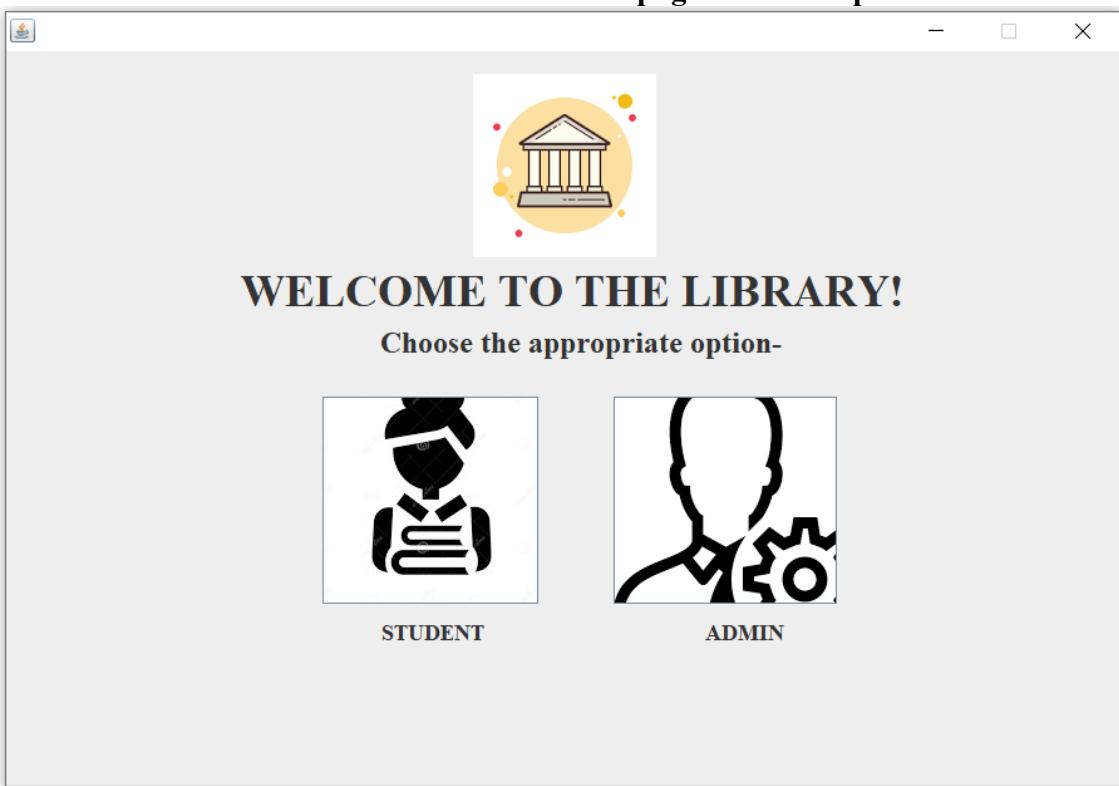


When again Clicked On Logout: The following dialog-box appears.

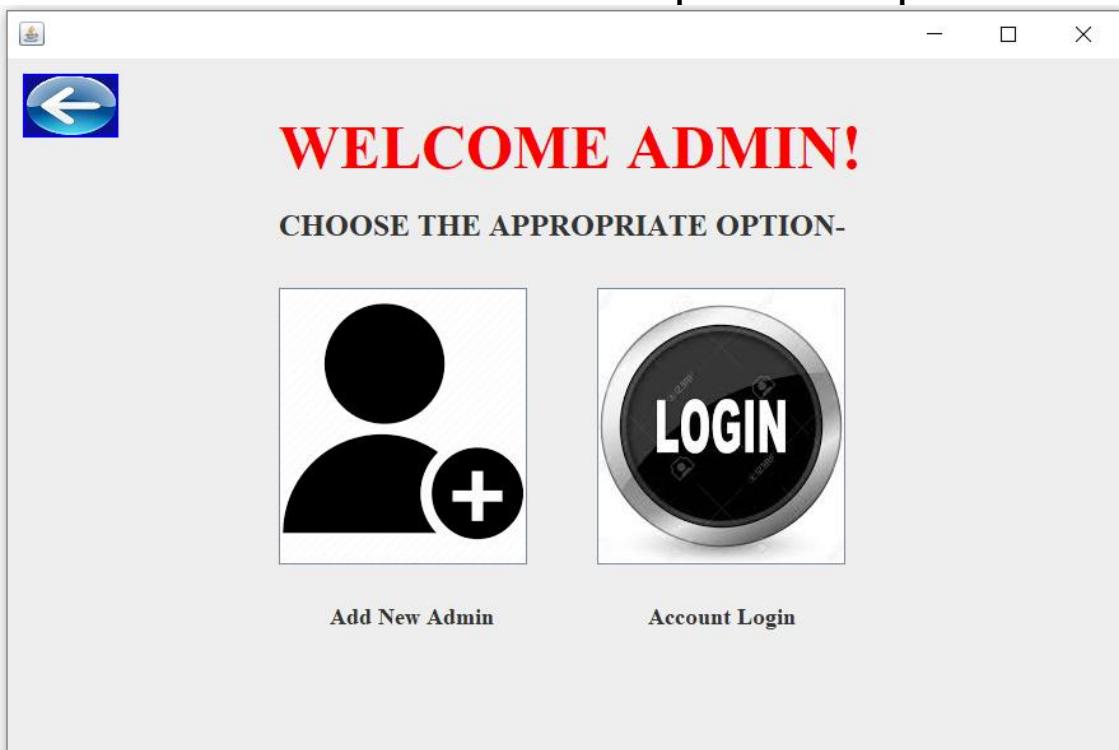




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When Clicked on Yes: The Homepage Frame is opened.



When Clicked on Admin: The AdminOption Frame is opened.





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When Clicked on Add New Admin: The AddAdmin Frame is opened.

WELCOME NEW ADMIN!

FILL IN THE FOLLOWING DETAILS TO BECOME AN ADMIN OF OUR LIBRARY-

NAME:

MOBILE NUMBER.:

DEPARTMENT: IT

EMAIL ID:

GENDER: MALE FEMALE
 OTHER

PASSWORD:

SUBMIT

When data is filled:

WELCOME NEW ADMIN!

FILL IN THE FOLLOWING DETAILS TO BECOME AN ADMIN OF OUR LIBRARY-

NAME: Jacky

MOBILE NUMBER.: 9658741253

DEPARTMENT: ETRX

EMAIL ID: jackychan@mail.com

GENDER: MALE FEMALE
 OTHER

PASSWORD: *****

SUBMIT



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When Clicked on Submit: The following dialog-box appears

The window contains fields for NAME (Jacky), MOBILE NUMBER (9658741253), DEPARTMENT (ETR), and GENDER (Male). A 'SUBMIT' button is at the bottom. A message dialog box is displayed in the center, showing the message: "'Jacky' you are successfully registered as ADMIN !!!".

When Clicked on Ok: The following dialog-box appears

The window fields remain the same. The message dialog box now displays the message: "Please note your UserName is: Jacky[C@49b80d06]".



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When Clicked on Ok: The following AdminLogin Frame is Opened.

WELCOME ADMIN!

FILL APPROPRIATE DETAILS TO LOGIN INTO YOUR ACCOUNT-

USER NAME:

PASSWORD:

LOCIN

When Clicked on PreviousButton: The following AdminOption Frame is opened.

WELCOME ADMIN!

CHOOSE THE APPROPRIATE OPTION-

 Add New Admin

 Account Login

LOGIN



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When Clicked on Account Login: The following AdminLogin Frame is opened.

The screenshot shows a Windows-style application window titled "WELCOME ADMIN!". At the top left is a blue circular button with a white arrow pointing left. Below it is a large red "WELCOME ADMIN!" message. Underneath is a smaller black text "FILL APPROPRIATE DETAILS TO LOGIN INTO YOUR ACCOUNT-". There are two input fields: "USER NAME:" followed by an empty text box, and "PASSWORD:" followed by another empty text box. At the bottom center is a large black button with the word "LOGIN" in white capital letters.

When INVALID data is filled:

This screenshot shows the same "WELCOME ADMIN!" window but with invalid input. The "USER NAME:" field contains the text "Maria890" and the "PASSWORD:" field contains seven dots ("....."). The rest of the interface is identical to the first screenshot.



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When Clicked Login: The following dialog-box appears.

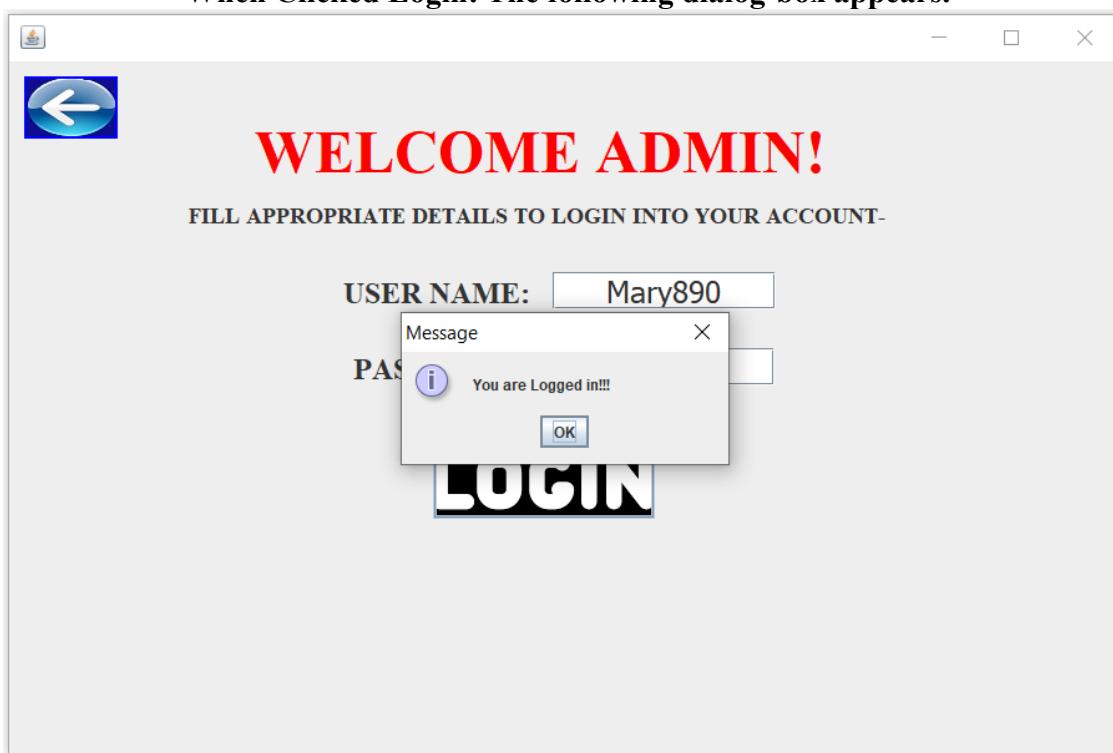
The screenshot shows a Java application window titled "WELCOME ADMIN!" with a message "FILL APPROPRIATE DETAILS TO LOGIN INTO YOUR ACCOUNT-". Below the message are two input fields: "USER NAME:" containing "Maria890" and "PASSWORD:" (partially visible). A modal dialog box titled "Message" is displayed, showing an error message "Invalid User-Name or Password!!!". The "OK" button of the dialog box is highlighted with a blue border.

When VALID data is filled:

The screenshot shows a Java application window titled "WELCOME ADMIN!" with a message "FILL APPROPRIATE DETAILS TO LOGIN INTO YOUR ACCOUNT-". Below the message are two input fields: "USER NAME:" containing "Mary890" and "PASSWORD:" containing "*****". A large, bold "LOGIN" button is centered below the password field.



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When Clicked Login: The following dialog-box appears.



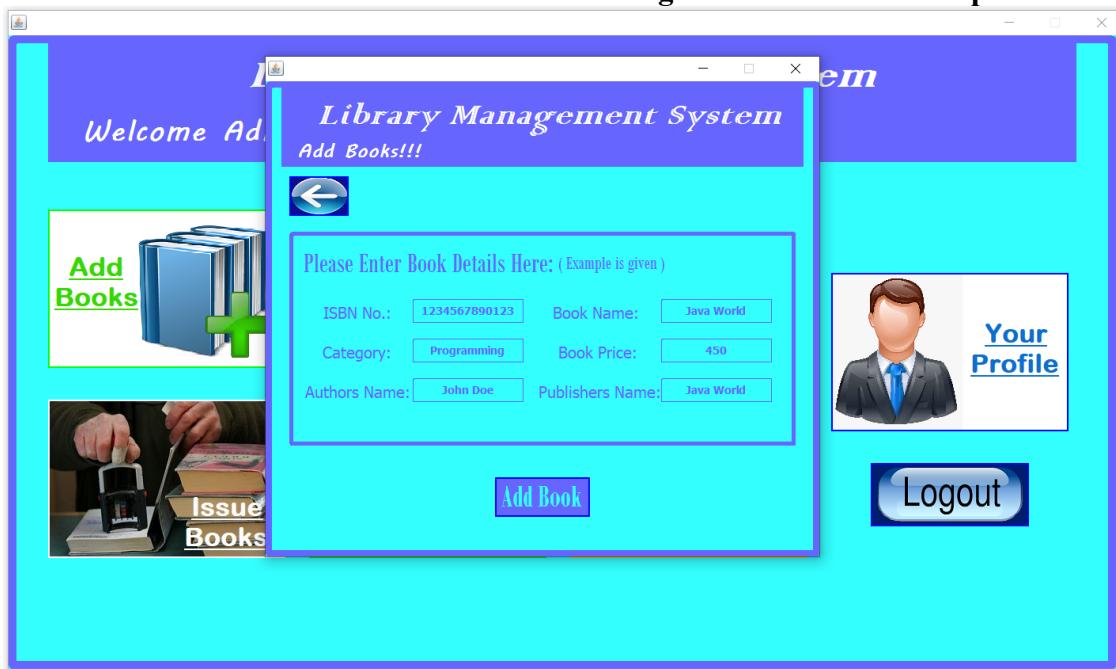
When Clicked on Ok: The following AdminFunction Frame is Opened.



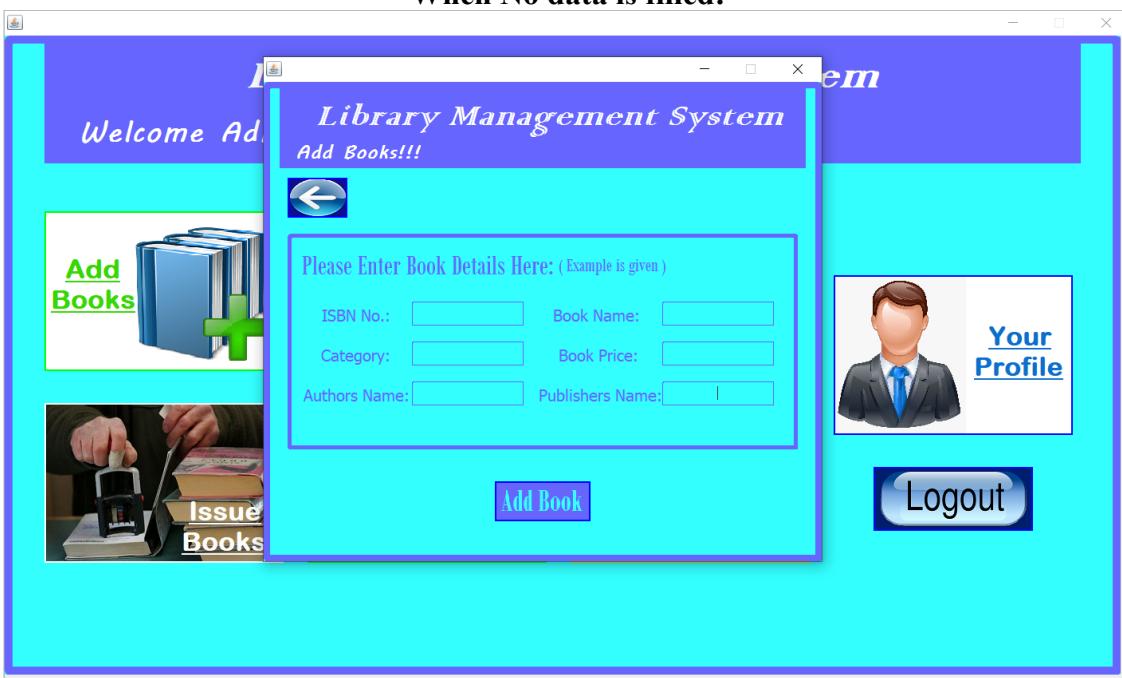


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When Clicked on Add Books: The following AddBook Frame is Opened.



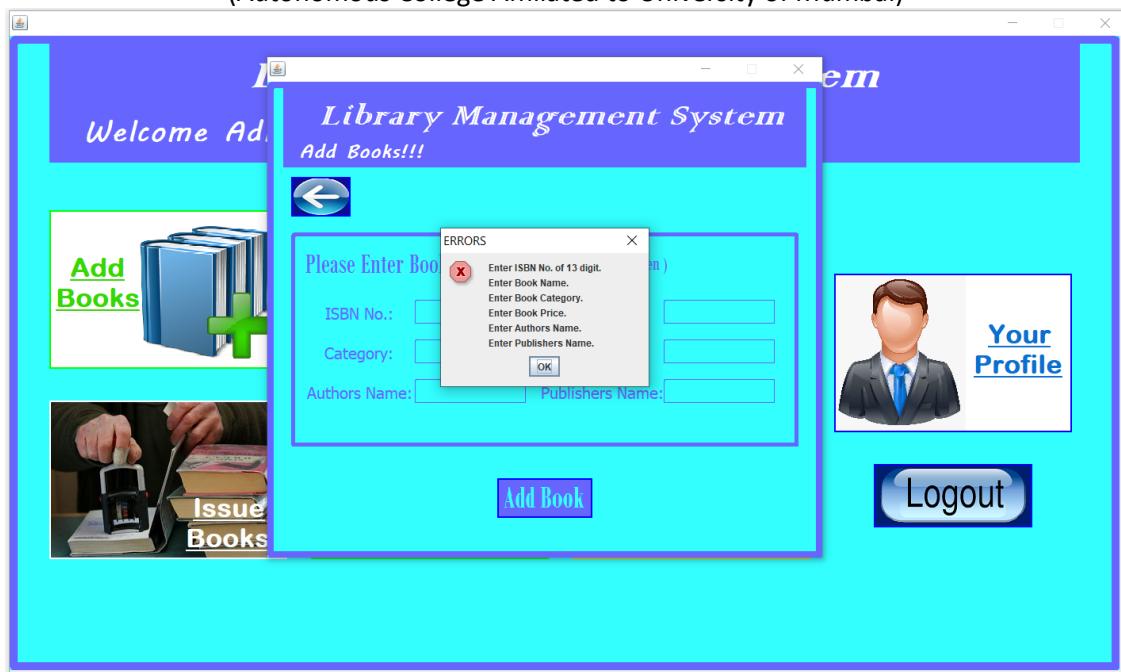
When No data is filled:



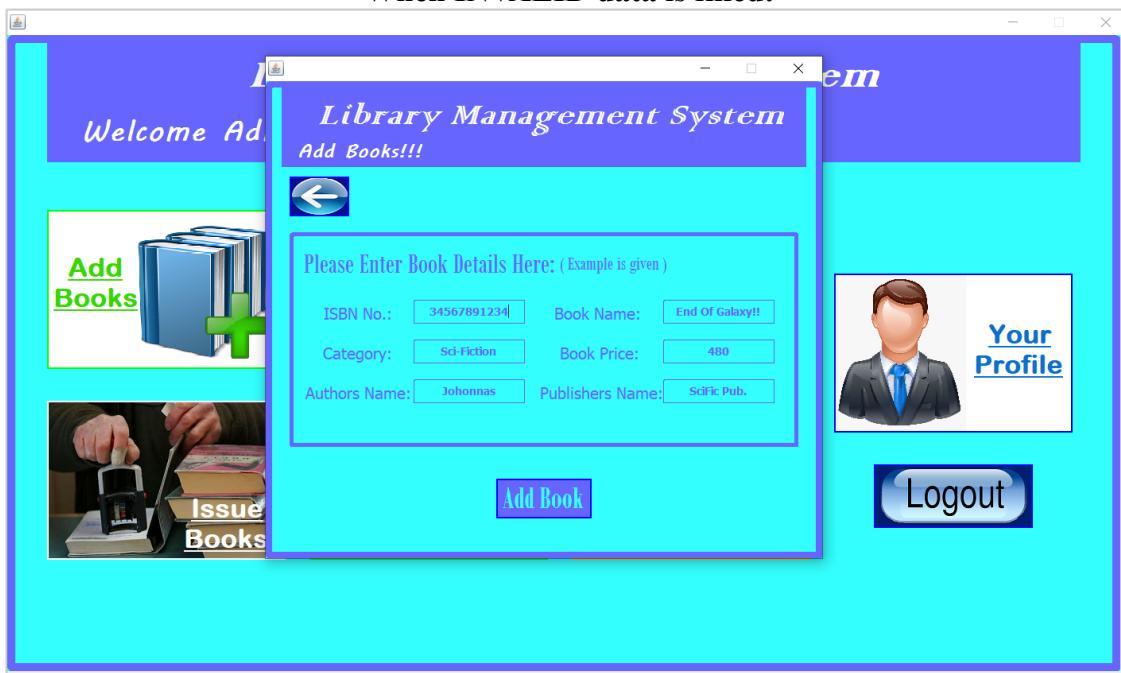
When clicked on Add Book.



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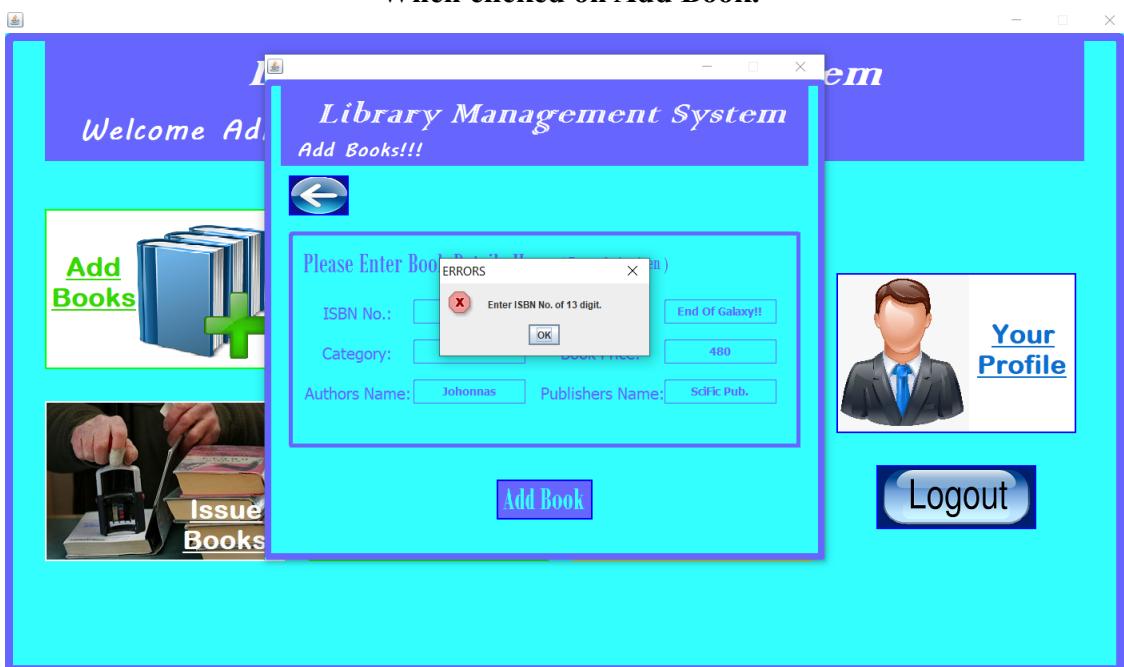
**When clicked on OK.
When INVALID data is filled:**



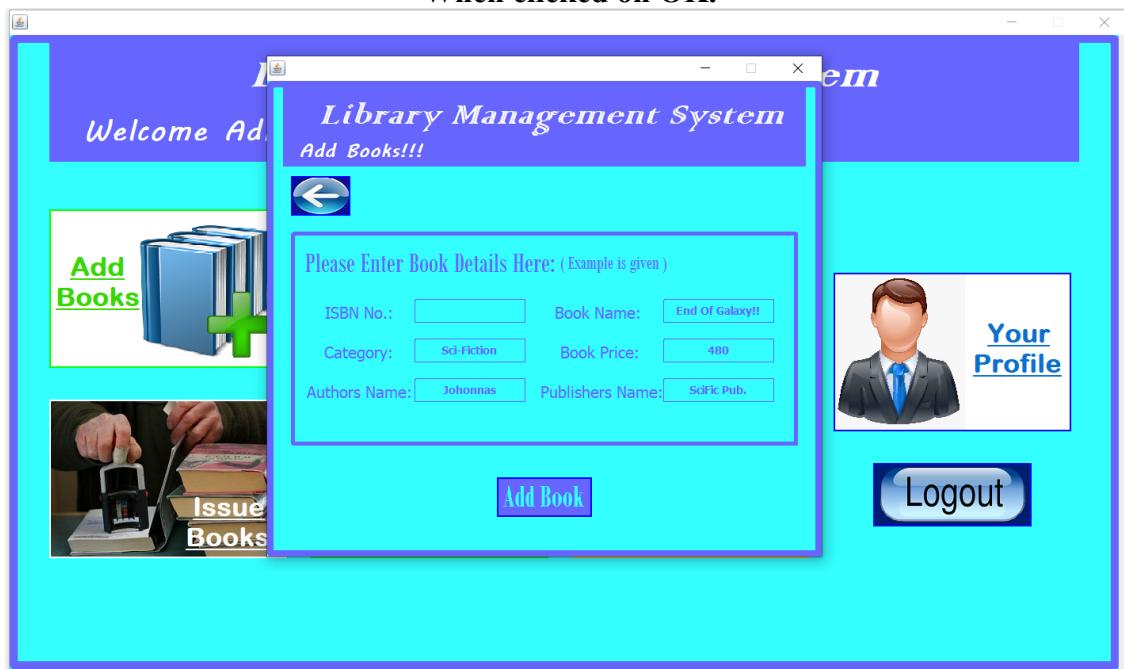


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When clicked on Add Book.



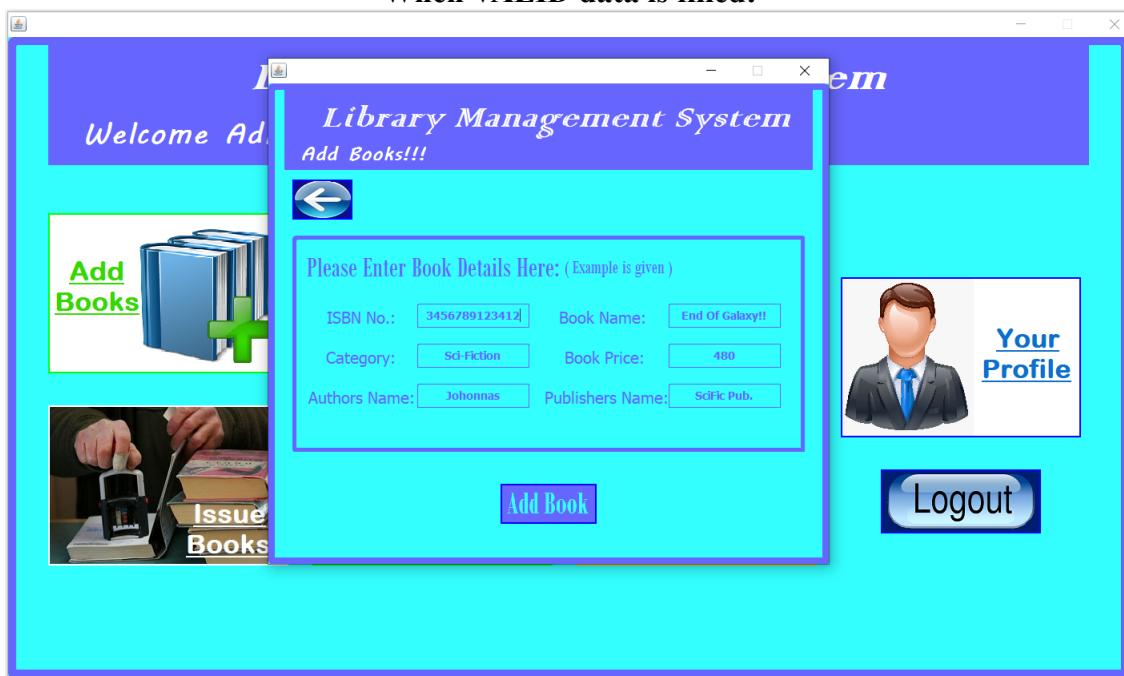
When clicked on OK.



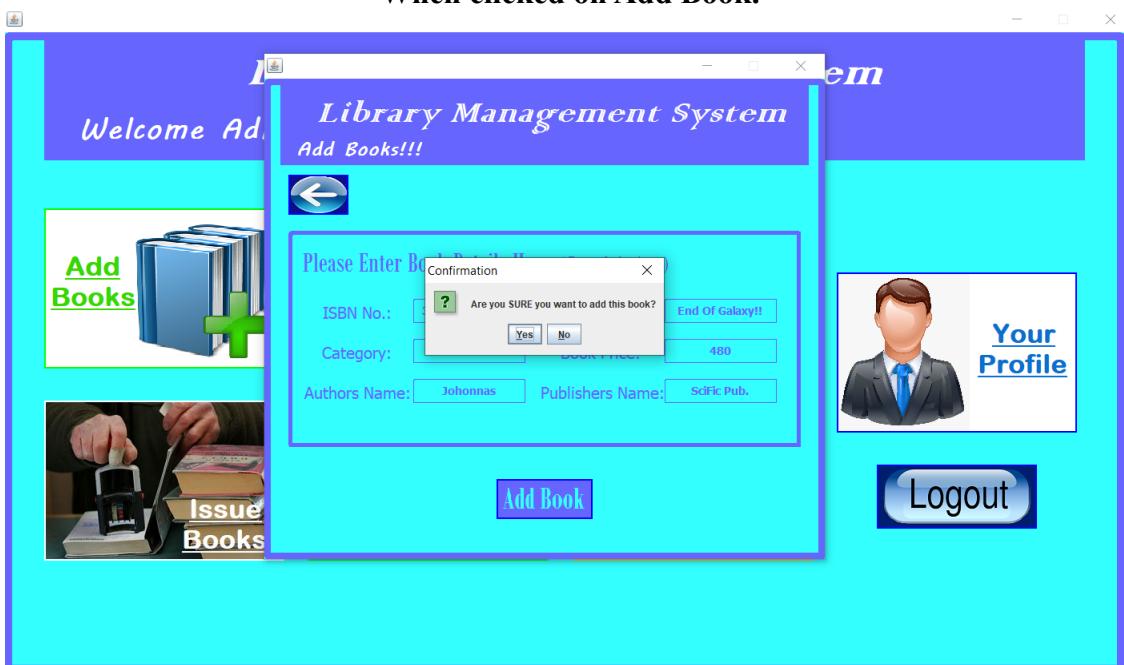


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When VALID data is filled:



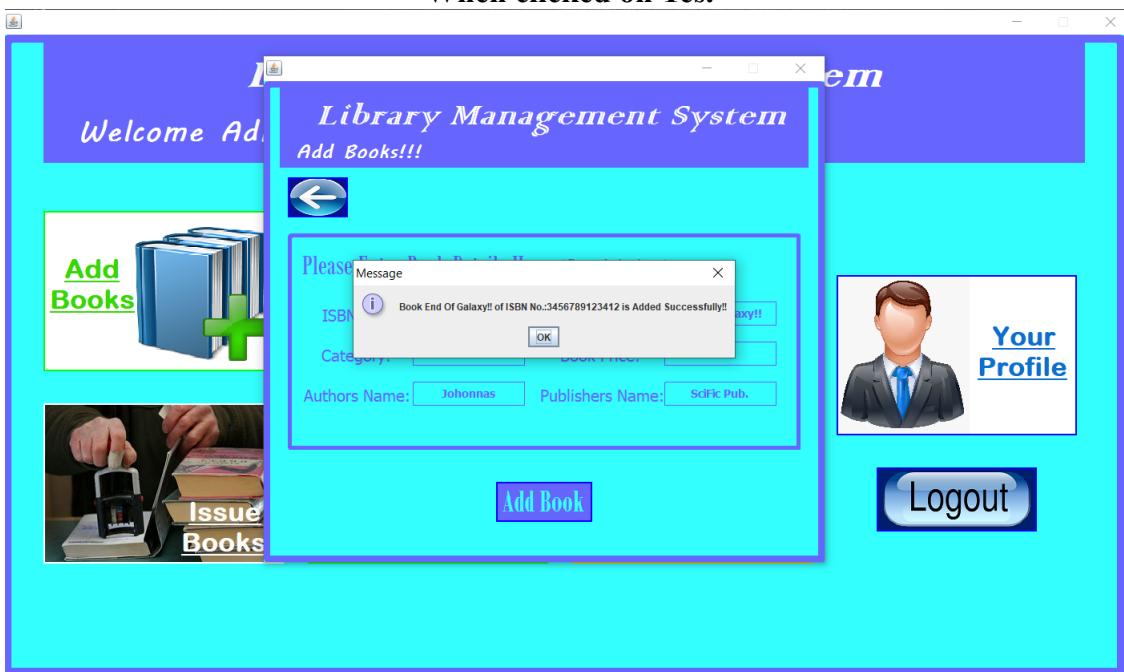
When clicked on Add Book.



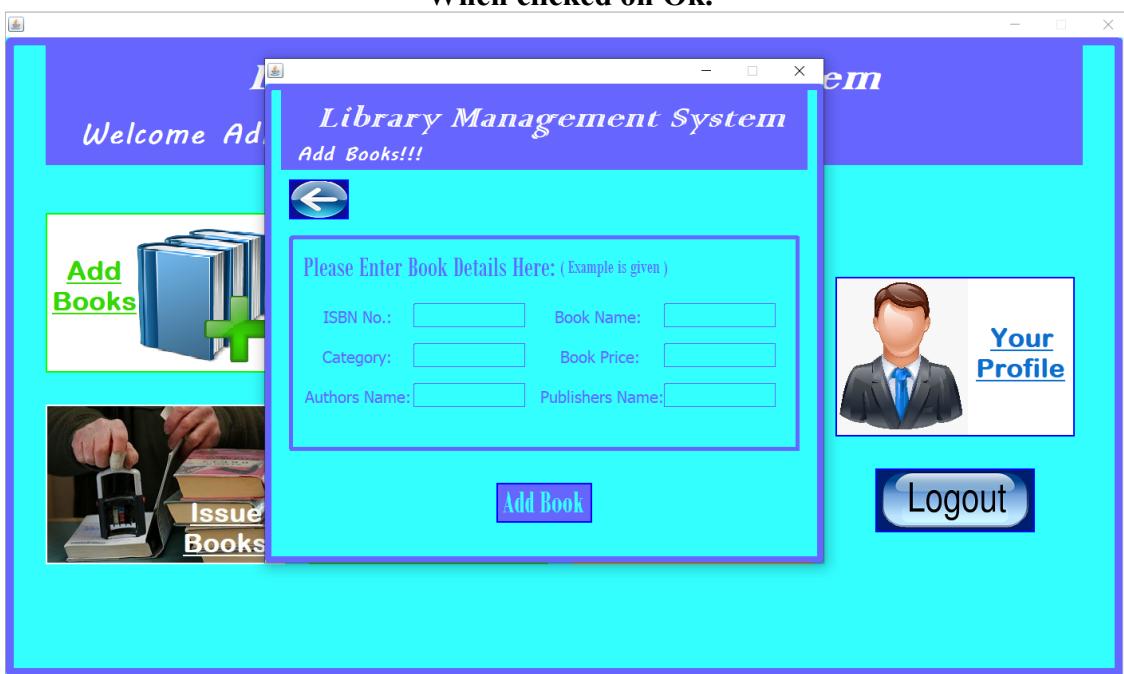


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When clicked on Yes.



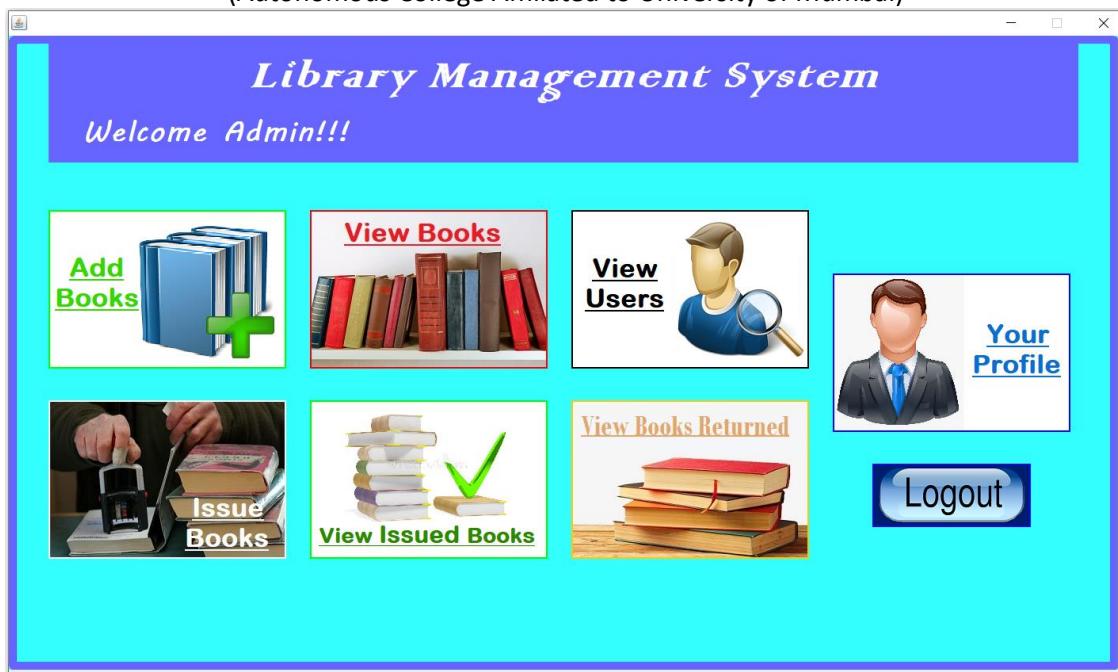
When clicked on Ok.



When clicked on PreviousButton.



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When clicked on ViewBooks.



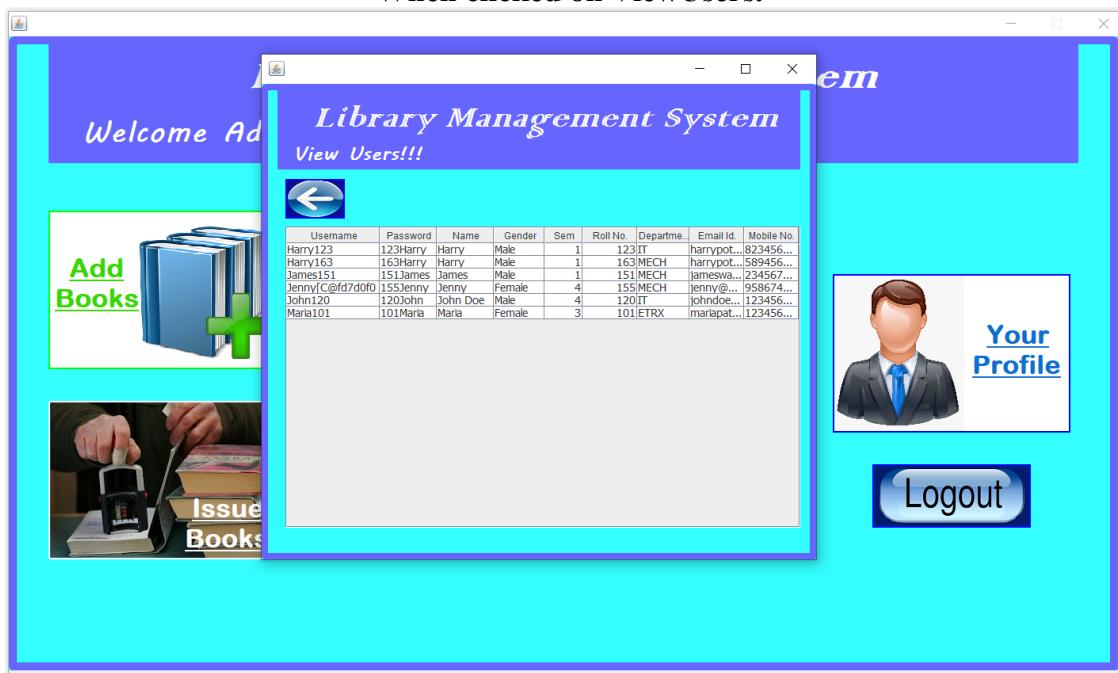


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When clicked on PreviousButton.



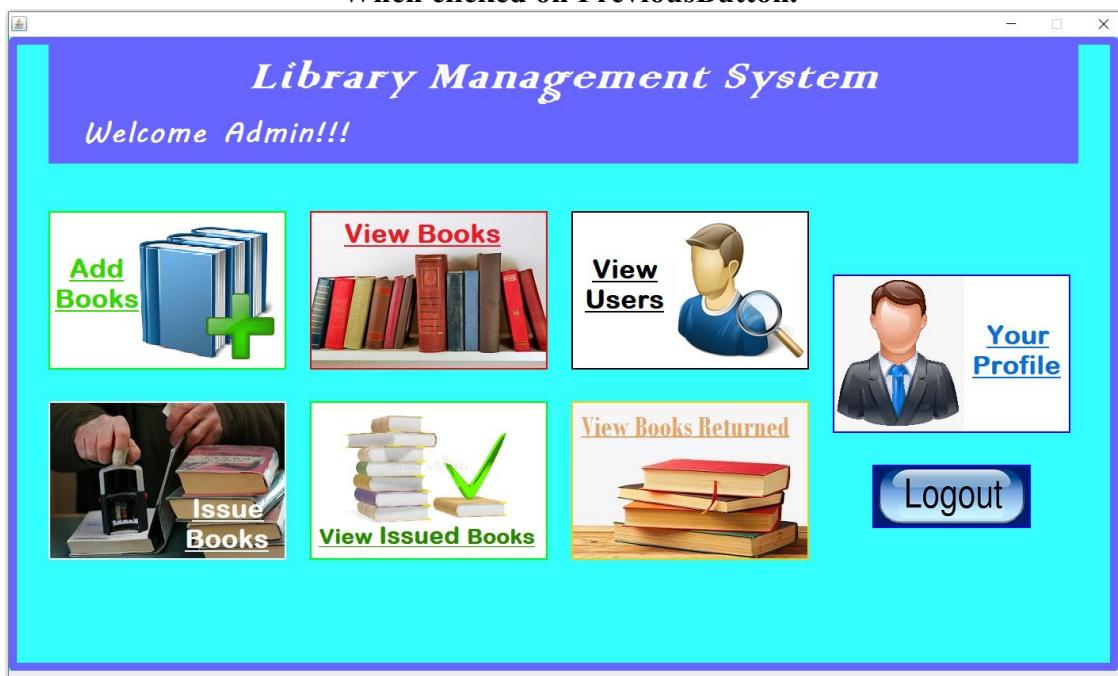
When clicked on ViewUsers.



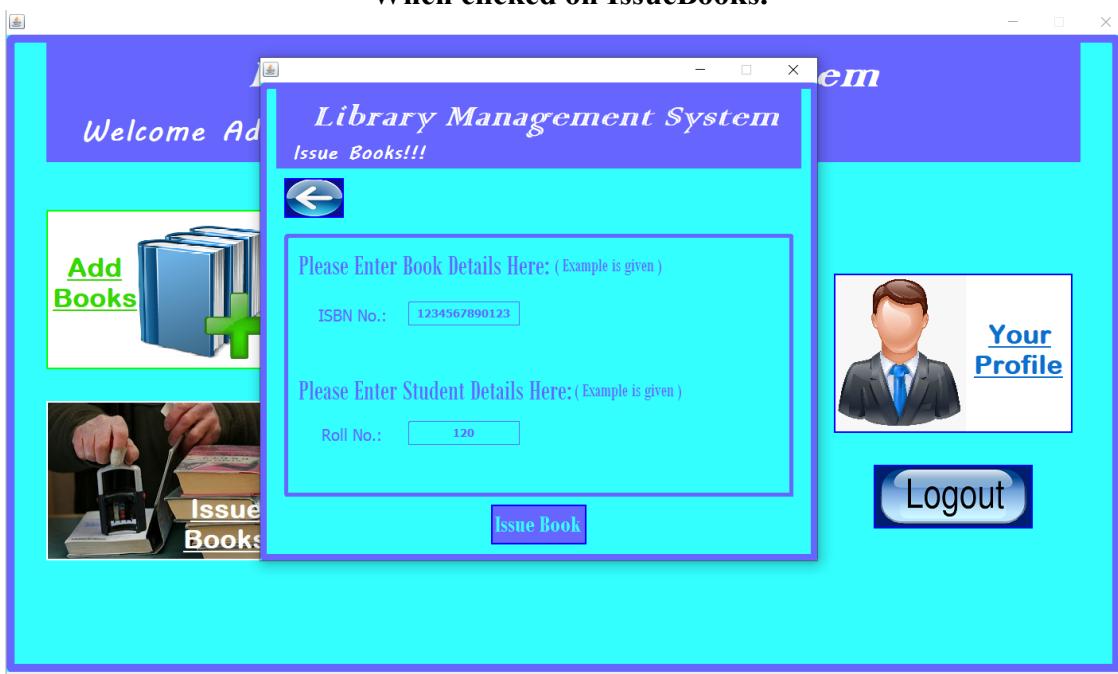


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When clicked on PreviousButton.



When clicked on IssueBooks.



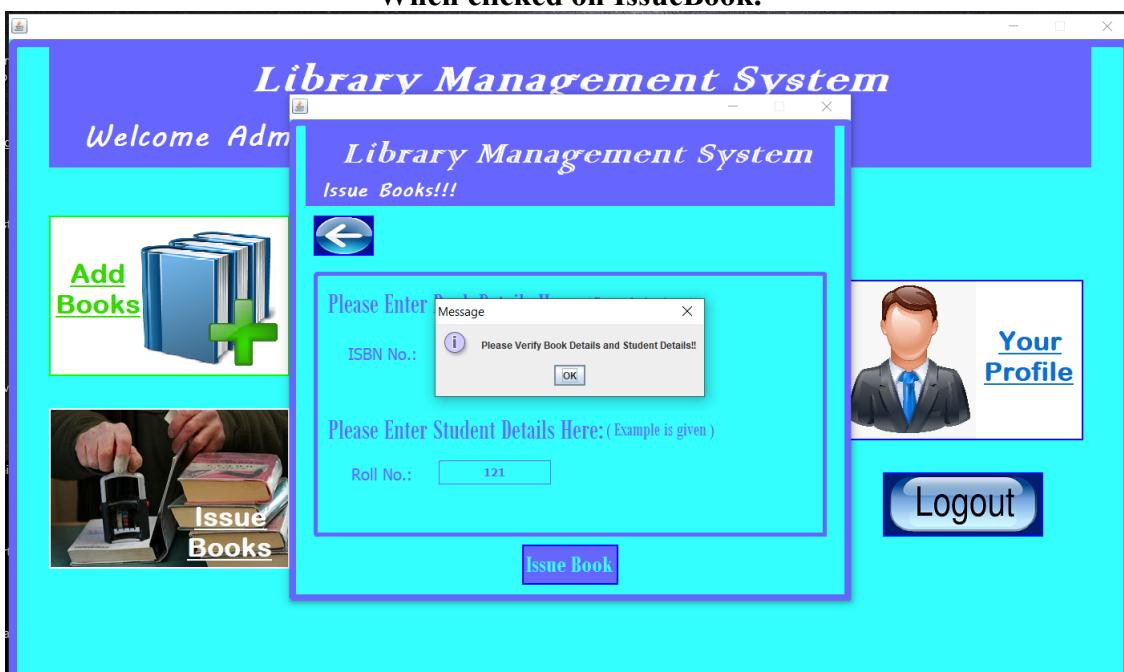


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When data is filled.



When clicked on IssueBook.



When clicked on Ok.



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When clicked on Yes.





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When AdminId of unlogin or invalid data is entered.



Inputted data is shown.



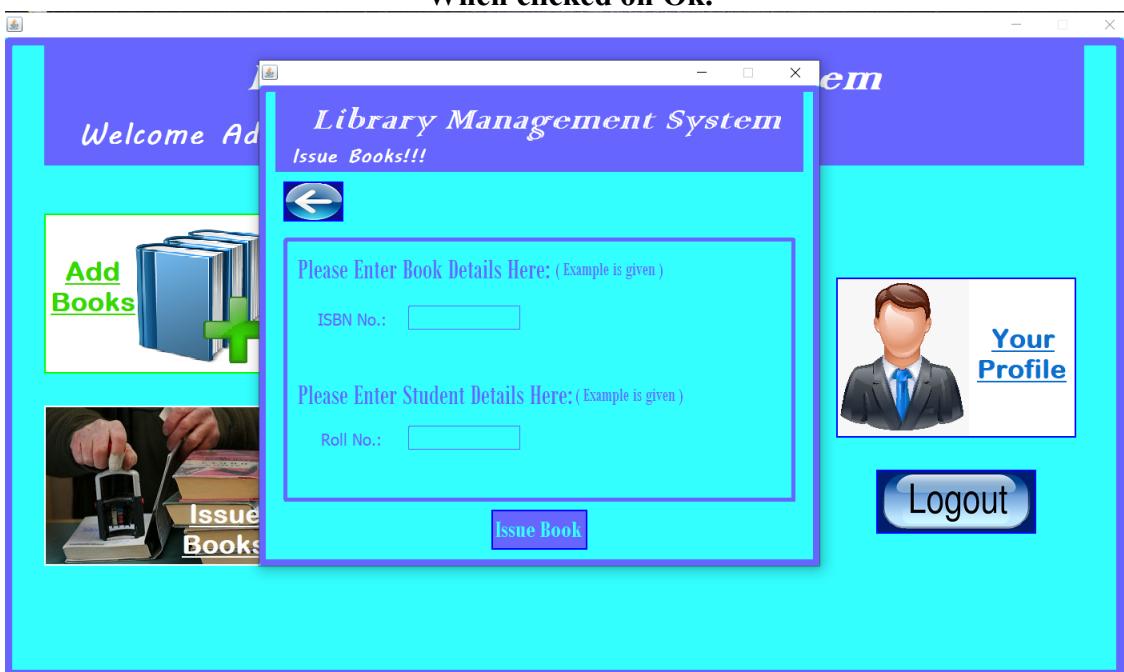


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Shows Invalid Input.



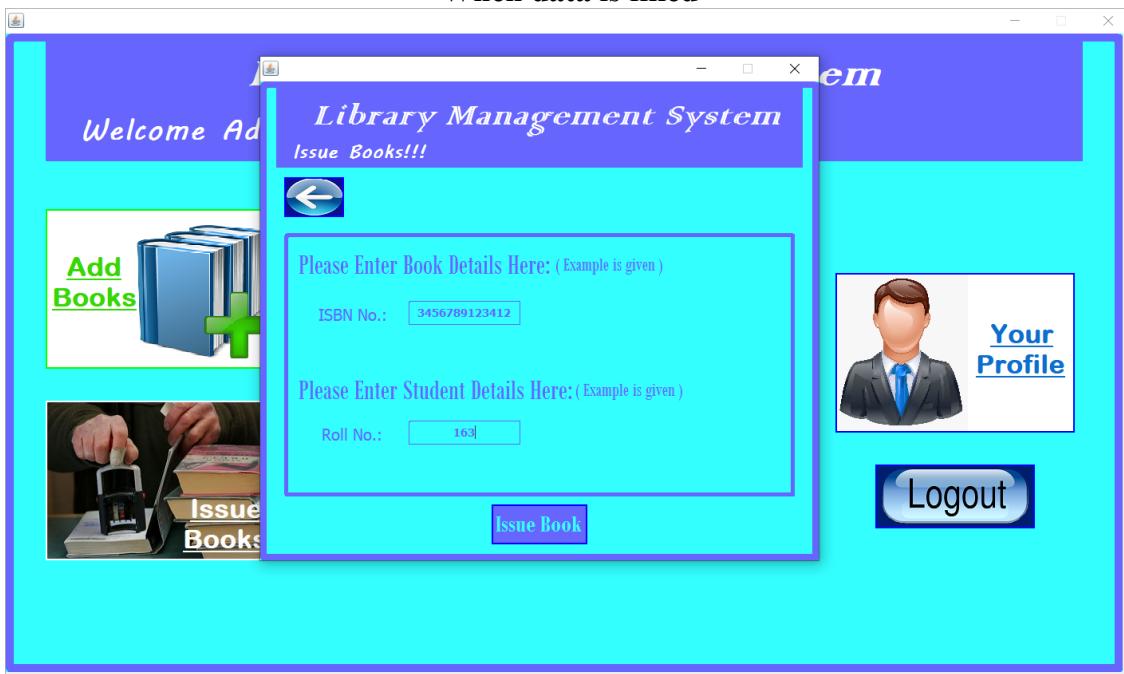
When clicked on Ok.



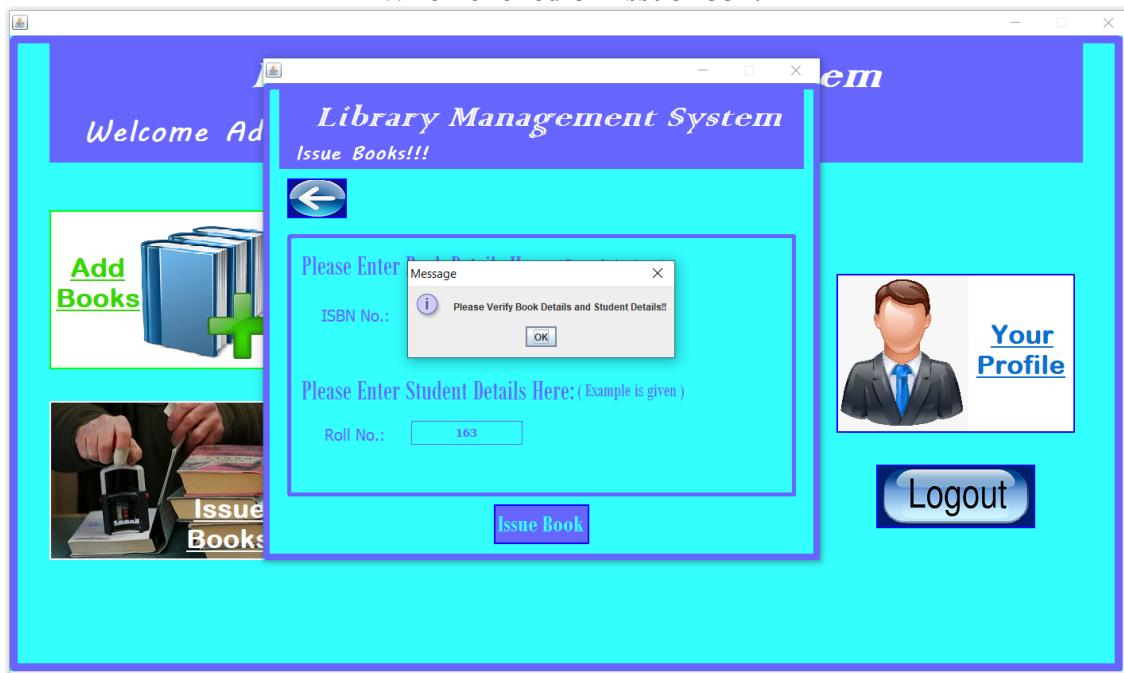


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When data is filled



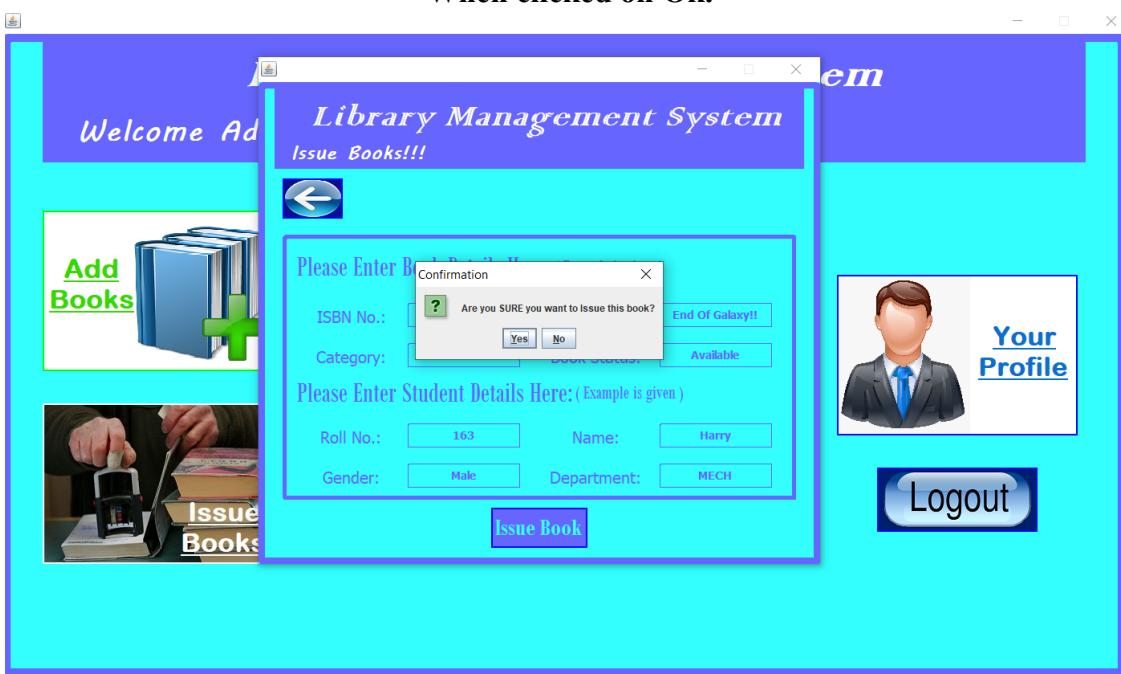
When clicked on IssueBook.





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When clicked on Ok.

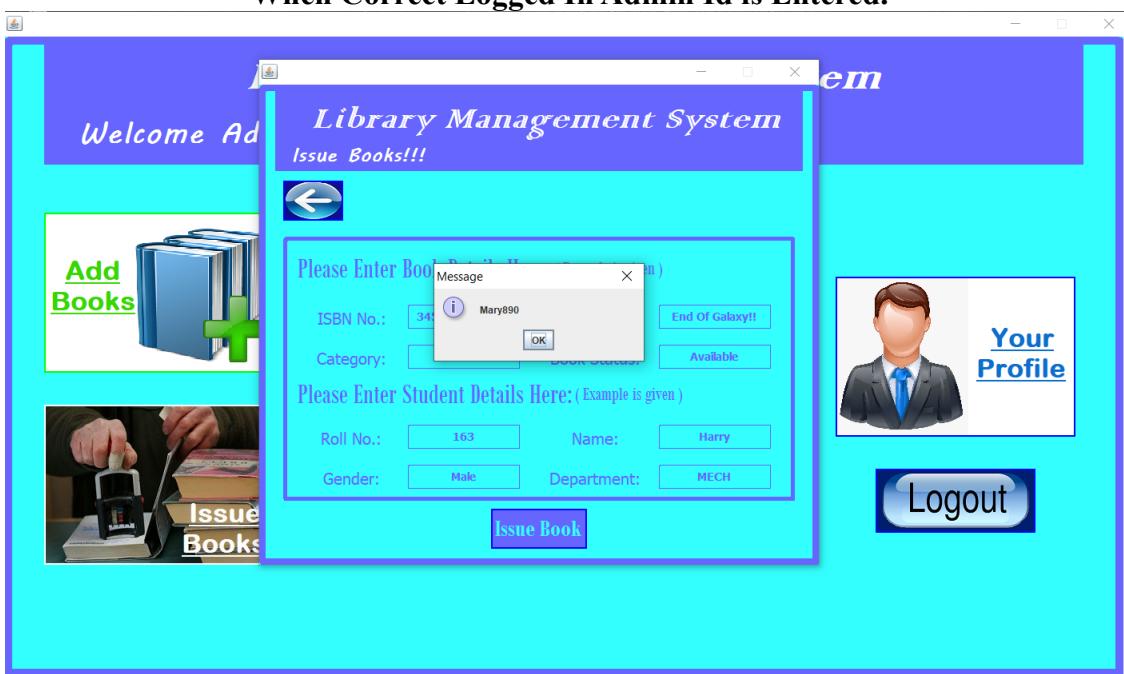


When clicked on Yes.

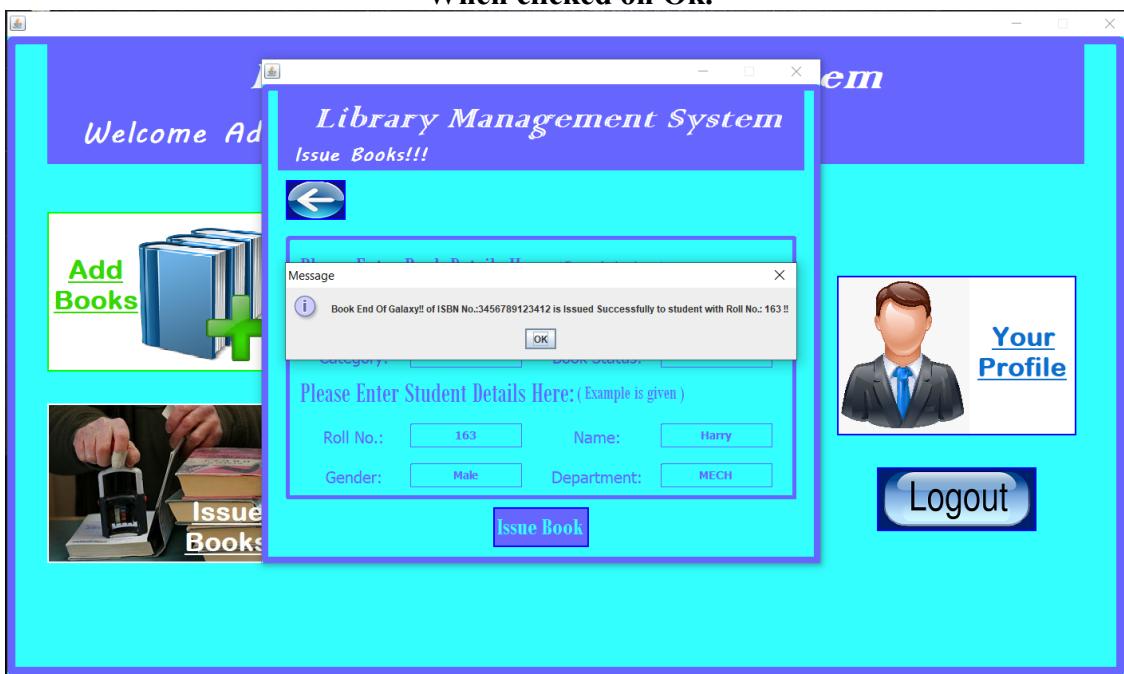




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When Correct Logged In Admin Id is Entered.



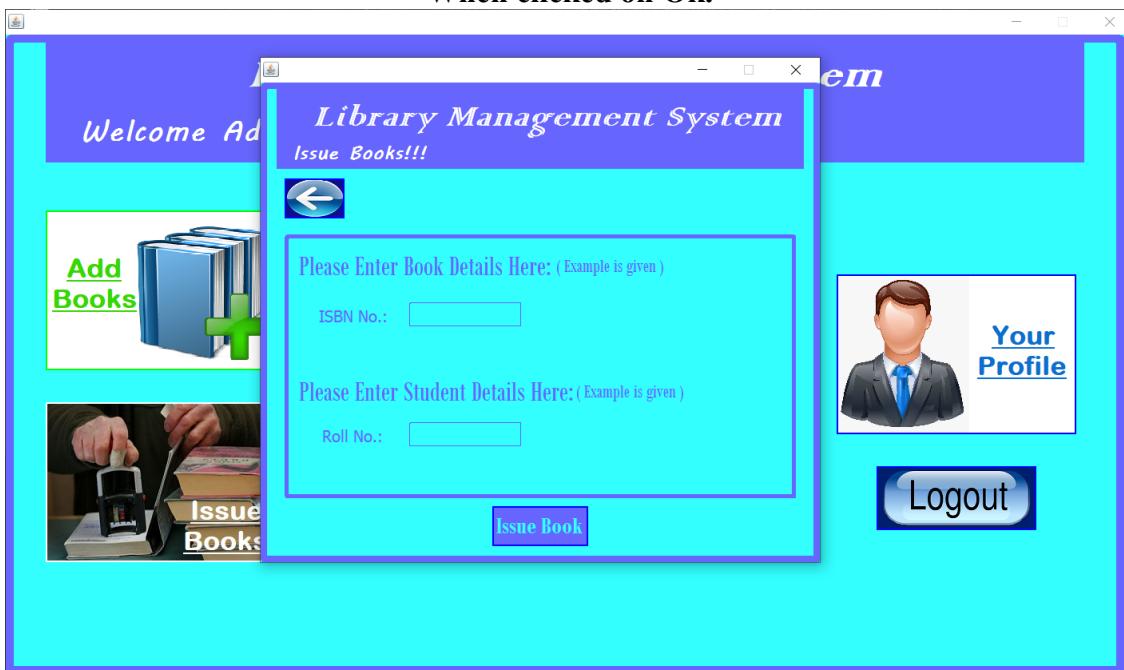
When clicked on Ok.





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When clicked on Ok.



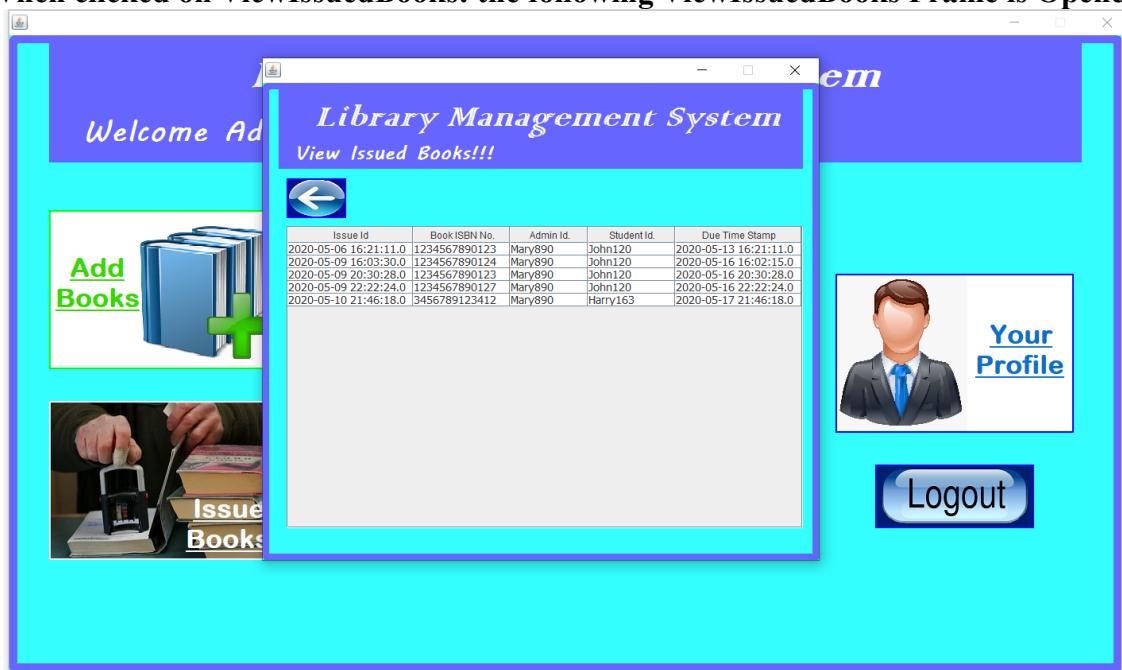
When clicked on PreviousButton.





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When clicked on ViewIssuedBooks: the following ViewIssuedBooks Frame is Opened.



When clicked on PreviousButton.



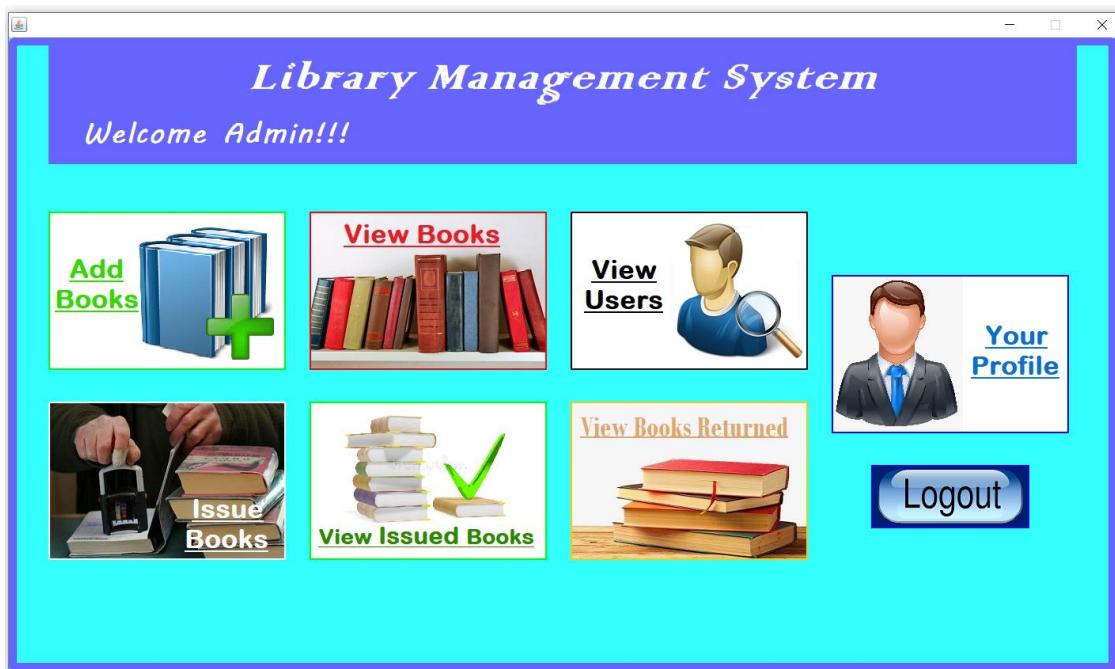


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When clicked on ViewBooksReturned: the following ViewBooksReturned Frame is Opened.



When clicked on PreviousButton.



When clicked on YourProfile: the following Verifier appears
When INVALID Data is Inputted.



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When INVALID Data is Inputted.





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When VALID Data is Inputted.





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When Clicked on ok





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When clicked on YourProfile: the following YourProfileFrame appears



When data is verified on ok.





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When data is changed like name and department:



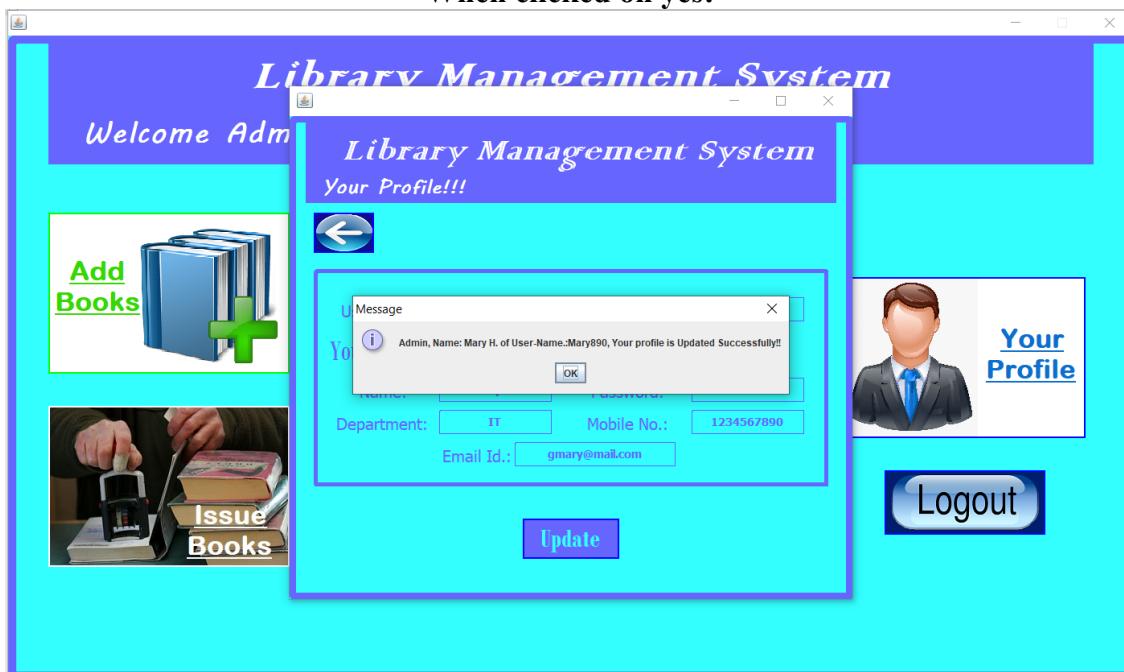
When clicked on Update:





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When clicked on yes:



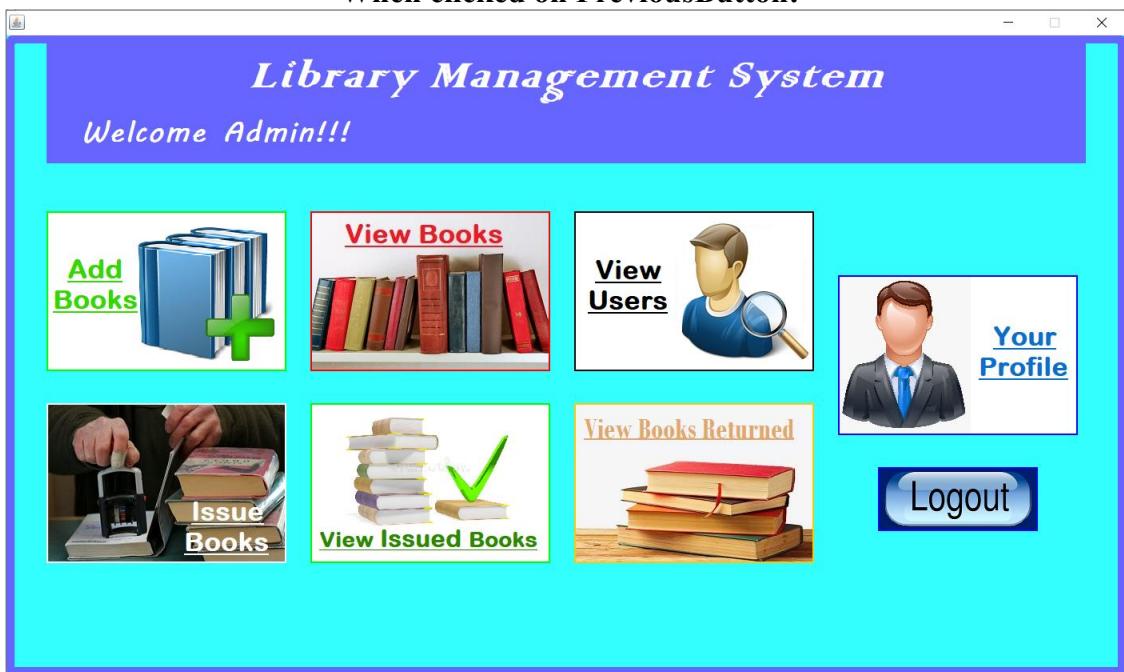
When clicked on Ok:





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When clicked on PreviousButton:



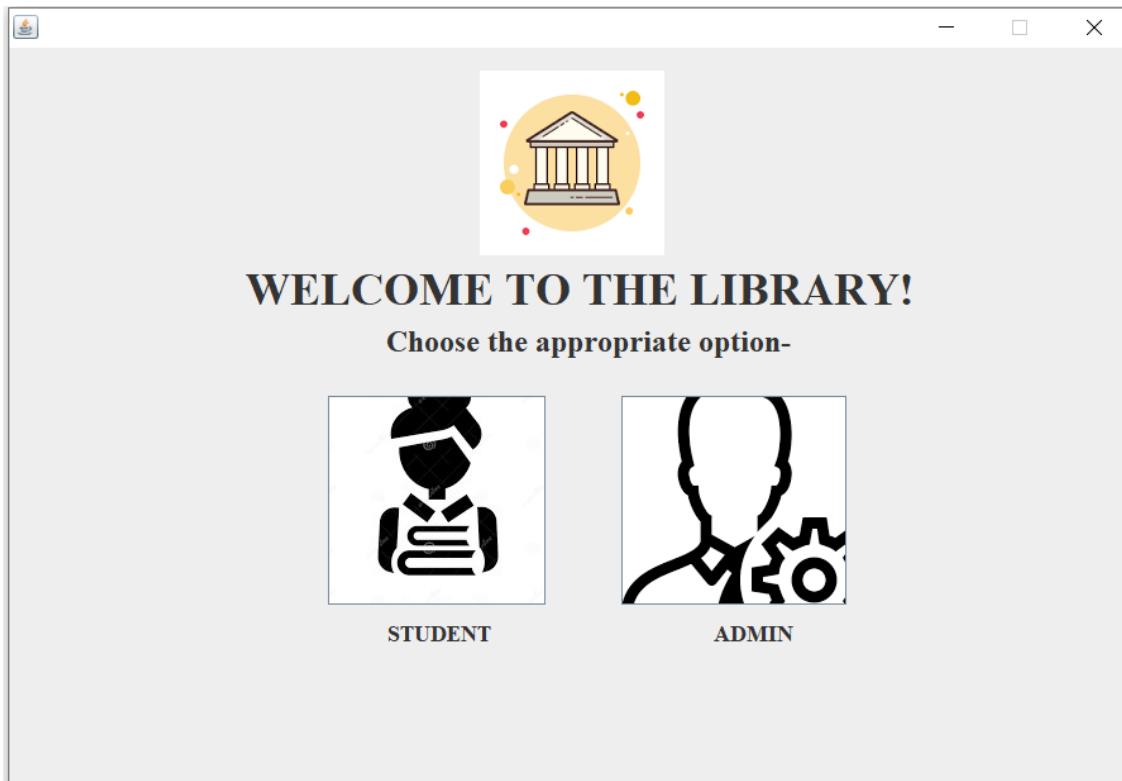
When clicked on Logout:



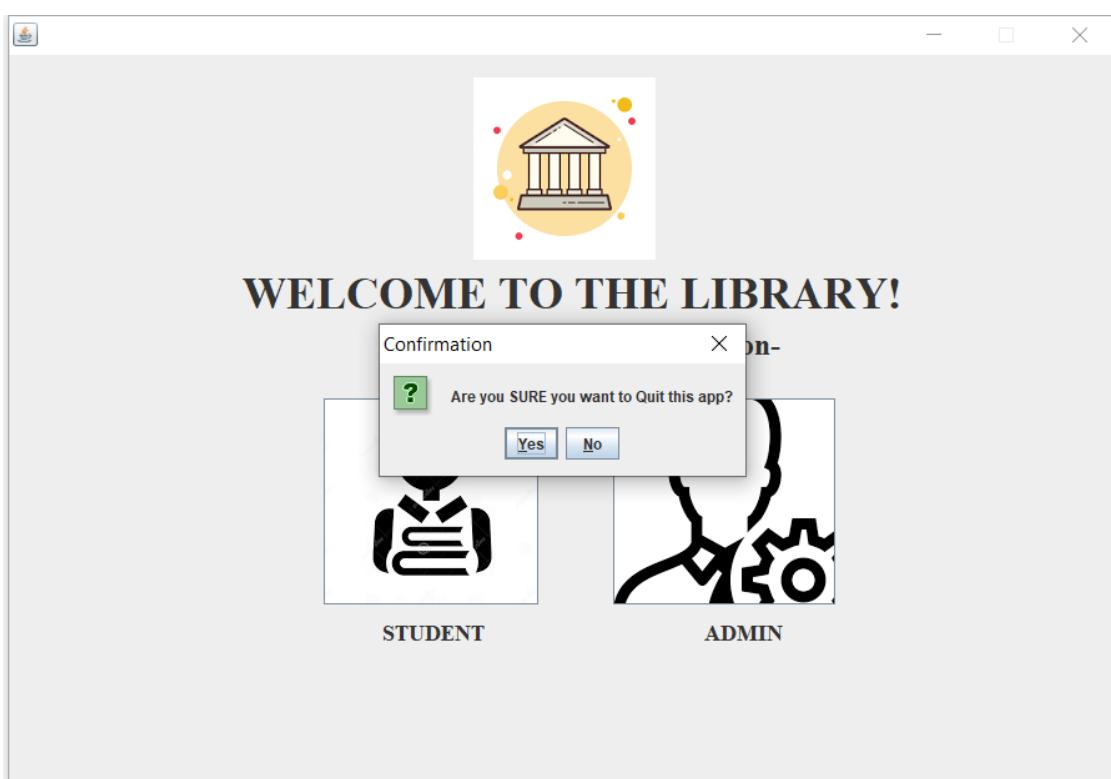


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When clicked on Yes:



When clicked on Exit (X):



When clicked on Yes: Frame is closed.



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Conclusion:

We have Successfully Created a Library Management System, using Java Swing and JDBC as main contributor, along with other java code. The System is able to handle Book, Student, admin details and borrowed and returned book details.