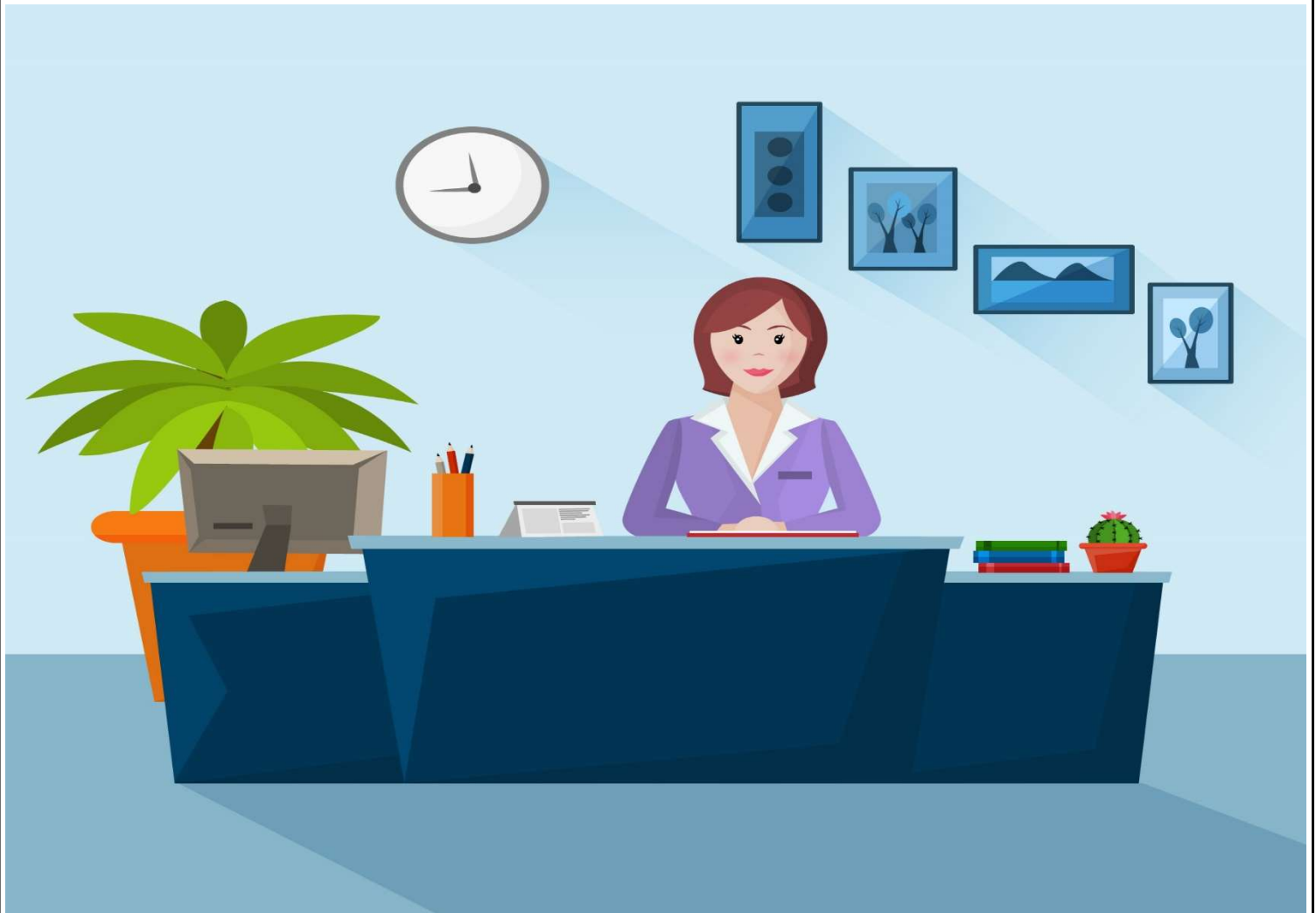# PROJECT REPORT

CUSTOMER REGISTER

Developed by

Name : MD. RIZWAN FATMI

Address : Patna,Bihar-800 006

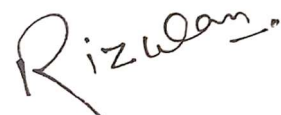Mobile : + 91 8210006010

ACKNOWLEDGEMENT

My acknowledgment extends to all those who teach me to code and prepare projects. I am thankful to all of my teachers who give me valuable and very important guidance and information to make this Project Report Successful.

I am grateful to other members of my study center and regional center, Patna for imparting to me the required & necessary training, information, guidelines, sympathy, and criticism which upgraded my programming skills and troubleshooting while doing this project very much.

Lastly, I would like to thank my family, my friends, and my respected seniors for their moral support and other precious co-operations.

Place: Patna.

Date: 31/08/2022.

Signature

PROJECT SUMMARY

SUBJECT / TITLE : ''CUSTOMER REGISTER"

PROJECT CATEGORIES : JAVA BASED DBMS.

PREPARED BY : MD.RIZWAN FATMI.

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DATE : 31/08/2022.

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'Appendix'

A:Data Flow Diagram (DFD)

B:Entity Relationship Diagram (ERD)

C:Screen Shots

1   Project Title

"CUSTOMER REGISTER"

2   Problem Statement

A problem has been remarked over the time in every individual small and big business or organization who are collecting the information of their customers. Specially if they are using pen-paper for collecting the customer information, there is chance that it will be lost and it would also be very complex to retrieve the information of the customer, you have to search in every paper even if you are using excel or any other similar product you have to search the whole sheet if you want to retrieve any data from it. Here you can use customer master with few important features that will allow you to enter/update and delete the customer details easily and also you will be able to see the updated information table of customer same time.

3   Project Description

It is a Java-based application. It has been implemented for so many real-life difficulties to resolve and make ease of management of customer information. Here, an individual can enter/update and delete the customer details and can also see the customer register table at the same time.

3.1   Scope of the Work

This application-based project deals with the scope of help millions of organization who want to manage their customer information, specially for those who does not want to waste their time collecting and retrieving customer information.

3.2 Project Modules

User Module: -

In this module user can enter/update and delete the information of customer and can also see the information of customer in form of table.

3.3 Context Diagram (High Level)

4 Implementation Methodology

This is a Java-based application with real-time database support. This project is based on a real-world problem of every individual organization who need to manage the information of customers. Anyone can opt this facility, We made this project dynamic so that any person who wants to adopt this project can adapt it easily.

<u>Context Level/0 Level DFD of Customer Register:</u>
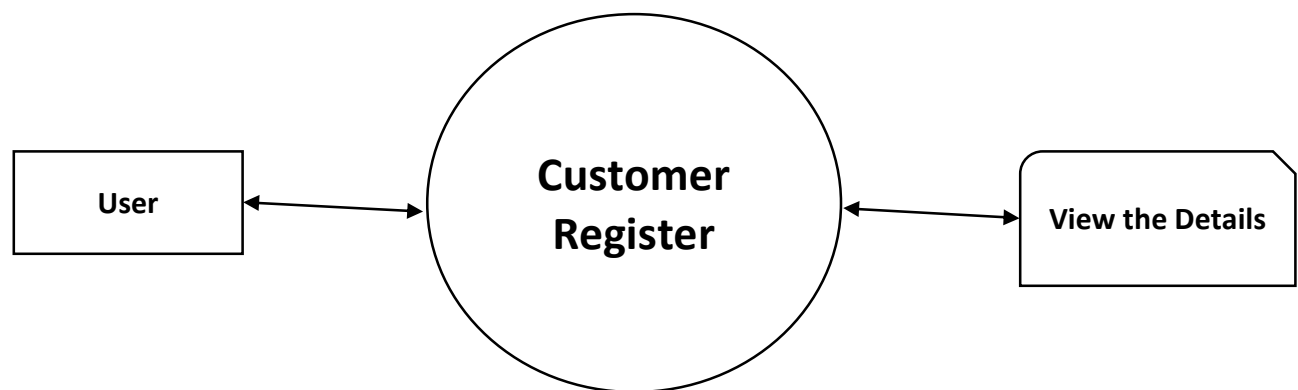
DATABASE TREE:

ATTRIBUTE	DATATYPE	CONSTRAINTS	PURPOSE
ID	VARCHAR	Not Null	For saving the Customer information
Name	VARCHAR	Not Null	For saving the Customer information
Address	VARCHAR	Not Null	For saving the Customer information
Line2	VARCHAR	Not Null	For saving the Customer information
City	VARCHAR	Not Null	For saving the Customer information
Pincode	VARCHAR	Not Null	For saving the Customer information
Mobile	VARCHAR	Not Null	For saving the Customer information
Gender	VARCHAR	Not Null	For saving the Customer information

5 Technologies to be used

5.1 Software Platform
a) **Front-end**
Java Swing
b) **Back-end**
Java
c) **Database:**
Sqlite3

5.2 Hardware Platform
- **RAM:** 2GB
- **Hard Disk:** 150GB
- **OS:** Windows 10
- **Editor:** Netbeans

5.3 Tools
- **LANGUAGES:** JAVA
- **DATABASE:** Sqlite3
- **IDE:** NetBeans

6 Advantages of this Project

- Help organization to manage customer information.
- Time saver application for organization.
- Easy to retrieve information of the customer.
- Easy to enter/update and delete customer information.

7 Any Assumptions
None

8   Future Scope and further enhancement of the Project

The future scope and the further enhancement of the project have been given below:-

- Login function for admin, so that other person cannot insert, delete, update or retrieve the confidential customer information of the organization.
- More user-friendly and easy to use.

9   Conclusion

Time is essential for any organization. Implementing this type of system for any region will be highly useful in the current scenario. Nowadays any organization does not want to waste their time. This application will provide them with ease to manage customer information in terms of time, money, comfort, and help. This will be highly useful in this modern and digital era. It will help a lot to the uncountable organization today and in the future.

10 Source Code

```java
//Importing some packages
import java.util.logging.Level;
import java.util.logging.Logger;
import java.sql.*;
import javax.swing.*;
import javax.swing.table.DefaultTableModel;
import net.proteanit.sql.DbUtils;




/**
 *
 * @author RIZWAN
 */
public class CR extends javax.swing.JFrame {



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

 Connection con;
 PreparedStatement pst;
 ResultSet rs;
 Statement stmt;



 public void Connection(){


 try {
     //Database connection initializing....

        Class.forName("org.sqlite.JDBC");
```

```java
            con = DriverManager.getConnection("jdbc:sqlite:cr.sqlite");


        //Taking the data from database for showing data into table.
            stmt = con.createStatement();
            rs = stmt.executeQuery("select* from cr");

        jTable1.setModel(DbUtils.resultSetToTableModel(rs));
}
        catch (ClassNotFoundException ex) {
            Logger.getLogger(CR.class.getName()).log(Level.SEVERE, null, ex);
        } catch (SQLException ex) {
            Logger.getLogger(CR.class.getName()).log(Level.SEVERE, null, ex);
        }



    }


    /**
     * This method is called from within the constructor to initialize the form.

     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {
//GUI designing
        jTextField1 = new javax.swing.JTextField();
        jScrollPane1 = new javax.swing.JScrollPane();
        jTextArea1 = new javax.swing.JTextArea();
        jPanel1 = new javax.swing.JPanel();
        jLabel1 = new javax.swing.JLabel();
        jPanel2 = new javax.swing.JPanel();
        jPanel5 = new javax.swing.JPanel();
        jLabel6 = new javax.swing.JLabel();
        jLabel3 = new javax.swing.JLabel();
        jLabel4 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        txtname = new javax.swing.JTextField();
```

```java
            txtcity = new javax.swing.JTextField();
            txtad2 = new javax.swing.JTextField();
            txtad1 = new javax.swing.JTextField();
            txtmob = new javax.swing.JTextField();
            txtgender = new javax.swing.JComboBox<>();
            jLabel7 = new javax.swing.JLabel();
            txtpin = new javax.swing.JTextField();
            jLabel8 = new javax.swing.JLabel();
            txtd = new javax.swing.JTextField();
            jLabel9 = new javax.swing.JLabel();
            jPanel6 = new javax.swing.JPanel();
            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();
            jPanel3 = new javax.swing.JPanel();
            jScrollPane2 = new javax.swing.JScrollPane();
            jTable1 = new javax.swing.JTable();
            txtid = new javax.swing.JTextField();
            jPanel4 = new javax.swing.JPanel();

            jTextField1.setText("jTextField1");

            jTextArea1.setColumns(20);
            jTextArea1.setRows(5);
            jScrollPane1.setViewportView(jTextArea1);

            setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

            jPanel1.setBackground(new java.awt.Color(0, 0, 102));
            jPanel1.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 102), 4));
            jPanel1.setForeground(new java.awt.Color(255, 255, 255));

            jLabel1.setFont(new java.awt.Font("Segoe UI", 1, 40)); // NOI18N
            jLabel1.setForeground(new java.awt.Color(255, 255, 255));
            jLabel1.setText("Customer Register");

            javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
            jPanel1.setLayout(jPanel1Layout);
            jPanel1Layout.setHorizontalGroup(
                jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```java
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel1Layout.createSequentialGroup()
              .addContainerGap(674, Short.MAX_VALUE)
              .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 585,
javax.swing.GroupLayout.PREFERRED_SIZE)
              .addGap(382, 382, 382))
        );
        jPanel1Layout.setVerticalGroup(
          jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jLabel1, javax.swing.GroupLayout.DEFAULT_SIZE, 60, Short.MAX_VALUE)
        );

        jPanel2.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 102), 4));

        jPanel5.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 102), 3));

        jLabel6.setFont(new java.awt.Font("Segoe UI", 1, 24)); // NOI18N
        jLabel6.setForeground(new java.awt.Color(0, 0, 102));
        jLabel6.setText("Name");

        jLabel3.setFont(new java.awt.Font("Segoe UI", 1, 24)); // NOI18N
        jLabel3.setForeground(new java.awt.Color(0, 0, 102));
        jLabel3.setText("Address");

        jLabel4.setFont(new java.awt.Font("Segoe UI", 1, 21)); // NOI18N
        jLabel4.setForeground(new java.awt.Color(0, 0, 102));
        jLabel4.setText("Mobile No");

        jLabel2.setFont(new java.awt.Font("Segoe UI", 1, 22)); // NOI18N
        jLabel2.setForeground(new java.awt.Color(0, 0, 102));
        jLabel2.setText("Gender");

        txtname.addActionListener(new java.awt.event.ActionListener() {
          public void actionPerformed(java.awt.event.ActionEvent evt) {
            txtnameActionPerformed(evt);
          }
        });

        txtcity.addActionListener(new java.awt.event.ActionListener() {
          public void actionPerformed(java.awt.event.ActionEvent evt) {
            txtcityActionPerformed(evt);
          }
        });
```

```java
        txtad2.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                txtad2ActionPerformed(evt);
            }
        });

        txtad1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                txtad1ActionPerformed(evt);
            }
        });

        txtmob.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                txtmobActionPerformed(evt);
            }
        });

        txtgender.setFont(new java.awt.Font("Segoe UI", 1, 14)); // NOI18N
        txtgender.setForeground(new java.awt.Color(102, 102, 102));
        txtgender.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "Select gender",
"Mail", "Femail" }));
        txtgender.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                txtgenderActionPerformed(evt);
            }
        });

        jLabel7.setFont(new java.awt.Font("Segoe UI", 1, 21)); // NOI18N
        jLabel7.setForeground(new java.awt.Color(0, 0, 102));
        jLabel7.setText("City");

        txtpin.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                txtpinActionPerformed(evt);
            }
        });

        jLabel8.setFont(new java.awt.Font("Segoe UI", 1, 21)); // NOI18N
        jLabel8.setForeground(new java.awt.Color(0, 0, 102));
        jLabel8.setText("Pincode");
```

```java
        jLabel9.setFont(new java.awt.Font("Segoe UI", 1, 20)); // NOI18N
        jLabel9.setForeground(new java.awt.Color(0, 0, 102));
        jLabel9.setText("Customer ID");

        javax.swing.GroupLayout jPanel5Layout = new javax.swing.GroupLayout(jPanel5);
        jPanel5.setLayout(jPanel5Layout);
        jPanel5Layout.setHorizontalGroup(
            jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel5Layout.createSequentialGroup()
                .addGap(29, 29, 29)
                .addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addGroup(jPanel5Layout.createSequentialGroup()
                        .addComponent(jLabel9, javax.swing.GroupLayout.PREFERRED_SIZE, 139,
javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addGap(18, 18, 18)
                        .addComponent(txtd, javax.swing.GroupLayout.PREFERRED_SIZE, 222,
javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addGroup(jPanel5Layout.createSequentialGroup()

.addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                            .addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED_SIZE, 79,
javax.swing.GroupLayout.PREFERRED_SIZE)
                            .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 109,
javax.swing.GroupLayout.PREFERRED_SIZE)
                            .addComponent(jLabel7, javax.swing.GroupLayout.PREFERRED_SIZE, 109,
javax.swing.GroupLayout.PREFERRED_SIZE)
                            .addComponent(jLabel8, javax.swing.GroupLayout.PREFERRED_SIZE, 109,
javax.swing.GroupLayout.PREFERRED_SIZE)
                            .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE, 132,
javax.swing.GroupLayout.PREFERRED_SIZE)
                            .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 124,
javax.swing.GroupLayout.PREFERRED_SIZE))
                        .addGap(25, 25, 25)

.addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                            .addComponent(txtgender, javax.swing.GroupLayout.PREFERRED_SIZE, 142,
javax.swing.GroupLayout.PREFERRED_SIZE)
                            .addComponent(txtad1, javax.swing.GroupLayout.PREFERRED_SIZE, 222,
javax.swing.GroupLayout.PREFERRED_SIZE)
                            .addComponent(txtname, javax.swing.GroupLayout.PREFERRED_SIZE, 222,
javax.swing.GroupLayout.PREFERRED_SIZE)
                            .addComponent(txtcity, javax.swing.GroupLayout.PREFERRED_SIZE, 222,
```

```java
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(txtad2, javax.swing.GroupLayout.PREFERRED_SIZE, 222,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(txtmob, javax.swing.GroupLayout.PREFERRED_SIZE, 222,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(txtpin, javax.swing.GroupLayout.PREFERRED_SIZE, 222,
javax.swing.GroupLayout.PREFERRED_SIZE))))
            .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
    );
    jPanel5Layout.setVerticalGroup(
        jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel5Layout.createSequentialGroup()
            .addGap(25, 25, 25)
            .addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel9)
                .addComponent(txtd, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(20, 20, 20)
            .addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel6)
                .addComponent(txtname, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(55, 55, 55)
            .addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel3)
                .addComponent(txtad1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
            .addComponent(txtcity, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(18, 18, 18)
            .addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(txtad2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGroup(jPanel5Layout.createSequentialGroup()
                    .addComponent(jLabel7)
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel8)
                .addComponent(txtmob, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))))
            .addGap(65, 65, 65)
```

```java
                        .addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                            .addComponent(txtpin, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                            .addComponent(jLabel4))
                        .addGap(61, 61, 61)
                        .addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                            .addComponent(jLabel2)
                            .addComponent(txtgender, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                        .addContainerGap(31, Short.MAX_VALUE))
            );

            jPanel6.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 102), 3));

            jButton2.setBackground(new java.awt.Color(0, 0, 102));
            jButton2.setFont(new java.awt.Font("Segoe UI", 1, 18)); // NOI18N
            jButton2.setForeground(new java.awt.Color(255, 255, 255));
            jButton2.setText("Update");
            jButton2.addActionListener(new java.awt.event.ActionListener() {
                public void actionPerformed(java.awt.event.ActionEvent evt) {
                    jButton2ActionPerformed(evt);
                }
            });

            jButton3.setBackground(new java.awt.Color(0, 0, 102));
            jButton3.setFont(new java.awt.Font("Segoe UI", 1, 18)); // NOI18N
            jButton3.setForeground(new java.awt.Color(255, 255, 255));
            jButton3.setText("Delete");
            jButton3.addActionListener(new java.awt.event.ActionListener() {
                public void actionPerformed(java.awt.event.ActionEvent evt) {
                    jButton3ActionPerformed(evt);
                }
            });

            jButton4.setBackground(new java.awt.Color(0, 0, 102));
            jButton4.setFont(new java.awt.Font("Segoe UI", 1, 18)); // NOI18N
            jButton4.setForeground(new java.awt.Color(255, 255, 255));
            jButton4.setText("Clear");
            jButton4.addActionListener(new java.awt.event.ActionListener() {
                public void actionPerformed(java.awt.event.ActionEvent evt) {
                    jButton4ActionPerformed(evt);
                }
```

```java
    });

    jButton5.setBackground(new java.awt.Color(0, 0, 102));
    jButton5.setFont(new java.awt.Font("Segoe UI", 1, 18)); // NOI18N
    jButton5.setForeground(new java.awt.Color(255, 255, 255));
    jButton5.setText("Add New");
    jButton5.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton5ActionPerformed(evt);
        }
    });

    jButton6.setBackground(new java.awt.Color(0, 0, 102));
    jButton6.setFont(new java.awt.Font("Segoe UI", 1, 18)); // NOI18N
    jButton6.setForeground(new java.awt.Color(255, 255, 255));
    jButton6.setText("Exit");
    jButton6.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton6ActionPerformed(evt);
        }
    });

    javax.swing.GroupLayout jPanel6Layout = new javax.swing.GroupLayout(jPanel6);
    jPanel6.setLayout(jPanel6Layout);
    jPanel6Layout.setHorizontalGroup(
        jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel6Layout.createSequentialGroup()
            .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(jButton5, javax.swing.GroupLayout.PREFERRED_SIZE, 108,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
            .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 100,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
            .addComponent(jButton3, javax.swing.GroupLayout.PREFERRED_SIZE, 100,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
            .addComponent(jButton4, javax.swing.GroupLayout.PREFERRED_SIZE, 99,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
            .addComponent(jButton6, javax.swing.GroupLayout.PREFERRED_SIZE, 99,
javax.swing.GroupLayout.PREFERRED_SIZE)
```

```java
                .addContainerGap())
        );
        jPanel6Layout.setVerticalGroup(
            jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel6Layout.createSequentialGroup()
                .addContainerGap(17, Short.MAX_VALUE)
                .addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 42,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jButton3, javax.swing.GroupLayout.PREFERRED_SIZE, 42,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jButton4, javax.swing.GroupLayout.PREFERRED_SIZE, 42,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jButton5, javax.swing.GroupLayout.PREFERRED_SIZE, 42,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jButton6, javax.swing.GroupLayout.PREFERRED_SIZE, 42,
javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(14, 14, 14))
        );

        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(16, 16, 16)
                .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING,
false)
                    .addComponent(jPanel6, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                    .addComponent(jPanel5, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
                .addContainerGap(71, Short.MAX_VALUE))
        );
        jPanel2Layout.setVerticalGroup(
            jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addGap(25, 25, 25)
                .addComponent(jPanel5, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(25, 25, 25)
                .addComponent(jPanel6, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
```

```java
            .addGap(25, 25, 25))
    );


    jPanel3.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 102), 4));
    jPanel3.setForeground(new java.awt.Color(255, 255, 255));

    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 1", "Title 2", "Title 3", "Title 4"
        }
    ));
    jTable1.addMouseListener(new java.awt.event.MouseAdapter() {
        public void mouseClicked(java.awt.event.MouseEvent evt) {
            jTable1MouseClicked(evt);
        }
    });
    jScrollPane2.setViewportView(jTable1);

    txtid.setForeground(new java.awt.Color(255, 255, 255));
    txtid.setBorder(null);

    javax.swing.GroupLayout jPanel3Layout = new javax.swing.GroupLayout(jPanel3);
    jPanel3.setLayout(jPanel3Layout);
    jPanel3Layout.setHorizontalGroup(
        jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel3Layout.createSequentialGroup()
            .addComponent(jScrollPane2, javax.swing.GroupLayout.PREFERRED_SIZE, 909,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(140, 140, 140)
            .addComponent(txtid, javax.swing.GroupLayout.PREFERRED_SIZE, 1,
javax.swing.GroupLayout.PREFERRED_SIZE))
    );
    jPanel3Layout.setVerticalGroup(
        jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel3Layout.createSequentialGroup()
            .addGap(134, 134, 134)
```

```
                    .addComponent(txtid, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
            .addComponent(jScrollPane2)
        );

        jPanel4.setBackground(new java.awt.Color(0, 0, 102));
        jPanel4.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 102), 4));

        javax.swing.GroupLayout jPanel4Layout = new javax.swing.GroupLayout(jPanel4);
        jPanel4.setLayout(jPanel4Layout);
        jPanel4Layout.setHorizontalGroup(
            jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGap(0, 0, Short.MAX_VALUE)
        );
        jPanel4Layout.setVerticalGroup(
            jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGap(0, 19, Short.MAX_VALUE)
        );

        javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
        getContentPane().setLayout(layout);
        layout.setHorizontalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()
                .addGap(16, 16, 16)
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
                    .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                    .addComponent(jPanel4, javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                    .addGroup(javax.swing.GroupLayout.Alignment.LEADING, layout.createSequentialGroup()
                        .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addGap(35, 35, 35)
                        .addComponent(jPanel3, javax.swing.GroupLayout.PREFERRED_SIZE, 917,
javax.swing.GroupLayout.PREFERRED_SIZE)))
                .addGap(21, 21, 21))
        );
        layout.setVerticalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
```

```
                .addGap(14, 14, 14)
                .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(18, 18, 18)
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                    .addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                    .addComponent(jPanel3, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
                .addGap(18, 18, 18)
                .addComponent(jPanel4, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap(24, Short.MAX_VALUE))
        );

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

    private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

        //Creating function for update button


if(txtd.getText().equals("")||txtname.getText().equals("")||txtad1.getText().equals("")||txtpin.getText().e
quals("")||txtcity.getText().equals("")||txtpin.getText().equals("")||txtmob.getText().equals("")||txtgend
er.getSelectedItem().equals("Select gender")) {
        JOptionPane.showMessageDialog(this, "Please fill all the columns!");
    }


    else{
try{



        String id = txtd.getText();
        String cname = txtname.getText();
        String ad1 =txtad1.getText();
        String ad2 =txtad2.getText();
        String city =txtcity.getText();
        String pincode =txtpin.getText();
```

```java
        String mobile =txtmob.getText();
        String gender = txtgender.getSelectedItem().toString();




     pst = con.prepareStatement("UPDATE cr SET ID=?,Name=?, Address=?, Line2=?, City=?, Pincode=?,
Mobile=?, Gender=? where ID='"+id+"'  ");

        pst.setString(1,id);
        pst.setString(2,cname);
       pst.setString(3,ad1);
        pst.setString(4,ad2);
        pst.setString(5,city);
        pst.setString(6,pincode);
        pst.setString(7,mobile);
        pst.setString(8,gender);

        pst.executeUpdate();

        JOptionPane.showMessageDialog(this, "Record Updated!");

        txtd.setText("");
        txtname.setText("");
        txtad1.setText("");
        txtad2.setText("");
        txtcity.setText("");
        txtpin.setText("");
        txtmob.setText("");
        txtgender.setSelectedItem("Select gender");

        txtd.requestFocus();



    rs = stmt.executeQuery("select* from cr");

      jTable1.setModel(DbUtils.resultSetToTableModel(rs));

    }
```

```java
        catch (SQLException ex) {

        Logger.getLogger(CR.class.getName()).log(Level.SEVERE, null, ex);


        }}
    }

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

        //Creating function for delete button


if(txtd.getText().equals("")||txtname.getText().equals("")||txtad1.getText().equals("")||txtpin.getText().e
quals("")||txtcity.getText().equals("")||txtpin.getText().equals("")||txtmob.getText().equals("")||txtgend
er.getSelectedItem().equals("Select gender")) {
    JOptionPane.showMessageDialog(this, "Please fill all the columns!");
    }


    else{
try{


        String id = txtd.getText();


    frame =new JFrame("Delete");
  if(JOptionPane.showConfirmDialog(frame, "Are you sure you want to delete?","Confirm
Delete",JOptionPane.YES_NO_OPTION)==JOptionPane.YES_OPTION){
  }
    pst = con.prepareStatement("DELETE from cr where ID='"+id+"'  ");


        pst.executeUpdate();

        JOptionPane.showMessageDialog(this, "Record Deleted!");
```

```java
            txtd.setText("");
            txtname.setText("");
            txtad1.setText("");
            txtad2.setText("");
            txtcity.setText("");
             txtpin.setText("");
             txtmob.setText("");
            txtgender.setSelectedItem("Select gender");

            txtd.requestFocus();


    rs = stmt.executeQuery("select* from cr");

       jTable1.setModel(DbUtils.resultSetToTableModel(rs));

      }



         catch (SQLException ex) {

         Logger.getLogger(CR.class.getName()).log(Level.SEVERE, null, ex);


         }}




}

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
        // //Creating function for clear button

        txtd.setText("");
        txtname.setText("");
        txtad1.setText("");
        txtad2.setText("");
        txtcity.setText("");
```

```java
            txtpin.setText("");
            txtmob.setText("");
            txtgender.setSelectedItem("Select gender");

            txtd.requestFocus();
    }

    private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {

        //Creating function for add-new button


if(txtd.getText().equals("")||txtname.getText().equals("")||txtad1.getText().equals("")||txtpin.getText().e
quals("")||txtcity.getText().equals("")||txtpin.getText().equals("")||txtmob.getText().equals("")||txtgend
er.getSelectedItem().equals("Select gender")) {
        JOptionPane.showMessageDialog(this, "Please fill all the columns!");
    }


    else{
try{


        String id = txtd.getText();
        String cname = txtname.getText();
        String ad1 =txtad1.getText();
        String ad2 =txtad2.getText();
        String city =txtcity.getText();
        String pincode =txtpin.getText();
        String mobile =txtmob.getText();
        String gender = txtgender.getSelectedItem().toString();


        ResultSet rs2 = stmt.executeQuery("select ID from cr where ID='"+id+"' ");


        if(rs2.next()){
          JOptionPane.showMessageDialog(this, "Already added.");
        }
        else{
        pst = con.prepareStatement("INSERT INTO cr(ID,Name, Address, Line2, City, Pincode, Mobile,
```

```java
        Gender) values(?,?,?,?,?,?,?,?)");

            pst.setString(1,id);
            pst.setString(2,cname);
          pst.setString(3,ad1);
            pst.setString(4,ad2);
            pst.setString(5,city);
            pst.setString(6,pincode);
            pst.setString(7,mobile);
            pst.setString(8,gender);

            pst.executeUpdate();

            JOptionPane.showMessageDialog(this, "Record Added!");

            txtd.setText("");
            txtname.setText("");
            txtad1.setText("");
            txtad2.setText("");
            txtcity.setText("");
             txtpin.setText("");
             txtmob.setText("");
            txtgender.setSelectedItem("Select gender");

            txtd.requestFocus();


    rs = stmt.executeQuery("select* from cr");

        jTable1.setModel(DbUtils.resultSetToTableModel(rs));

     }


}
          catch (SQLException ex) {

          Logger.getLogger(CR.class.getName()).log(Level.SEVERE, null, ex);


      }
```

```java
        }
      }
   private JFrame frame;
      private void jButton6ActionPerformed(java.awt.event.ActionEvent evt) {
       //Creating function for exit button


         frame =new JFrame("Exit");
      if(JOptionPane.showConfirmDialog(frame, "Are you sure you want to exit?","Confirm
Exit",JOptionPane.YES_NO_OPTION)==JOptionPane.YES_OPTION){
         System.exit(0);

      }
      }

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

      }

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

      }

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

      }

      private void txtad1ActionPerformed(java.awt.event.ActionEvent evt) {

      }

      private void txtad2ActionPerformed(java.awt.event.ActionEvent evt) {

      }

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

      }
```

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

    }

    private void jTable1MouseClicked(java.awt.event.MouseEvent evt) {

        //Creating function to selecting table data.


        DefaultTableModel RecordTable = (DefaultTableModel)jTable1.getModel();
        int SelectRows = jTable1.getSelectedRow();

        txtd.setText(RecordTable.getValueAt(SelectRows, 0).toString());
        txtname.setText(RecordTable.getValueAt(SelectRows, 1).toString());
        txtad1.setText(RecordTable.getValueAt(SelectRows, 2).toString());
        txtad2.setText(RecordTable.getValueAt(SelectRows, 3).toString());
        txtcity.setText(RecordTable.getValueAt(SelectRows, 4).toString());
        txtpin.setText(RecordTable.getValueAt(SelectRows, 5).toString());
        txtmob.setText(RecordTable.getValueAt(SelectRows, 6).toString());
        txtgender.setSelectedItem(RecordTable.getValueAt(SelectRows, 7).toString());
        String id =txtid.getText();
    }



    /**
     * @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;
                }
            }
```

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

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

        // Variables declaration
        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.JLabel jLabel1;
        private javax.swing.JLabel jLabel2;
        private javax.swing.JLabel jLabel3;
        private javax.swing.JLabel jLabel4;
        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.JPanel jPanel4;
        private javax.swing.JPanel jPanel5;
        private javax.swing.JPanel jPanel6;
        private javax.swing.JScrollPane jScrollPane1;
        private javax.swing.JScrollPane jScrollPane2;
        private javax.swing.JTable jTable1;
```

```java
    private javax.swing.JTextArea jTextArea1;
    private javax.swing.JTextField jTextField1;
    private javax.swing.JTextField txtad1;
    private javax.swing.JTextField txtad2;
    private javax.swing.JTextField txtcity;
    private javax.swing.JTextField txtd;
    private javax.swing.JComboBox<String> txtgender;
    private javax.swing.JTextField txtid;
    private javax.swing.JTextField txtmob;
    private javax.swing.JTextField txtname;
    private javax.swing.JTextField txtpin;
    // End of variables declaration
}
```
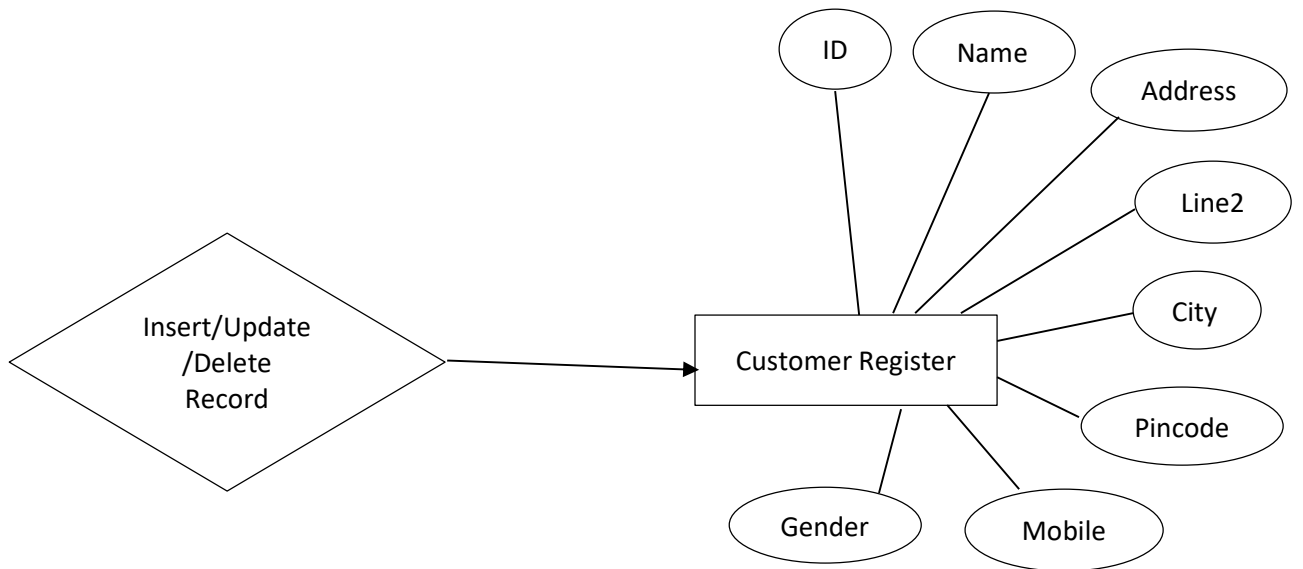
Annexure A
Data Flow Diagram (DFD)

0 – Level DFDs
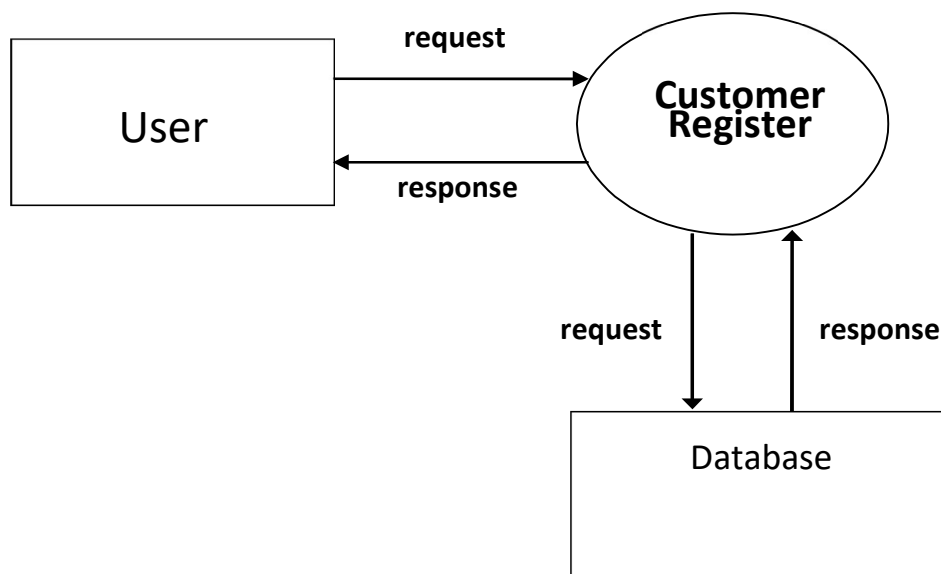
Entity-Relationship Diagram (ERD)

Annexure C
Screen Shots

Home Page