Mapua University

School Of Information Technology

Ferata Real Estate: A Real Estate Sales and Management System

A project in Object-oriented Programming (CS129-8L)

by:

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I. PROJECT CONTEXT

Description

The software for the Real Estate Sales and Management System is capable of managing at least 5 blocks to 20 lots per block of subdivision. The system is able to specify the desired lot description: eg, size in square meters, location of block, and price total. It is also capable of displaying a list of lot properties based on a user's chosen specification. The finalization stage where the user is purchasing or reserving a property, the system will generate a report based on the fill form the user completes.

The UI is simple and intuitive with a plain green background that contrast well with the content and appealing font type all around. To complete the system our group will apply the following concepts onto our system:

- Encapsulation
- Aggregation
- Inheritance
- Interface

Purpose

The purpose of making the software is to make a user-friendly application for real estate managers which provides the user with a catalogue of properties according to their demands and range with just one click. The system will ensure time saving, saving resources, easy approach to your requirements, as well as bring on more security. There is a login system, and everybody who uses the platform will gain because business transactions will no longer need to be manually assessed. The administrator will update the status of real estate availability. As a result, the system will boost the company's efficiency and dependability. It simplifies the process for potential employees by giving them a simple user interface via which they can purchase and enquire about the unit of their choice, potentially leading to a larger customer base due to ease of access.

Benefit

Real Estate Sales and Management must have a system in place to track the status and efficiently sell real estate based on its size in square meters, location, and price. With the system at hand, the administrator can easily select supplied options and examine all the current data, saving time in dealing with problems and arduous technicalities and having excellent productivity methods. The process is efficient, accessible, and easy, which benefits both the firm administrator and the consumer. OOP concepts and design patterns that logically implement functions were used to support the software. whereas everybody who uses the platform will gain because business transactions will no longer need to be manually assessed. The administrator will update the status of real estate availability. As a result, the system will boost the company's efficiency and dependability. It simplifies the process for potential employees by giving them a simple user interface via which they can purchase and enquire about the unit of their choice, potentially leading to a larger customer base due to ease of access.
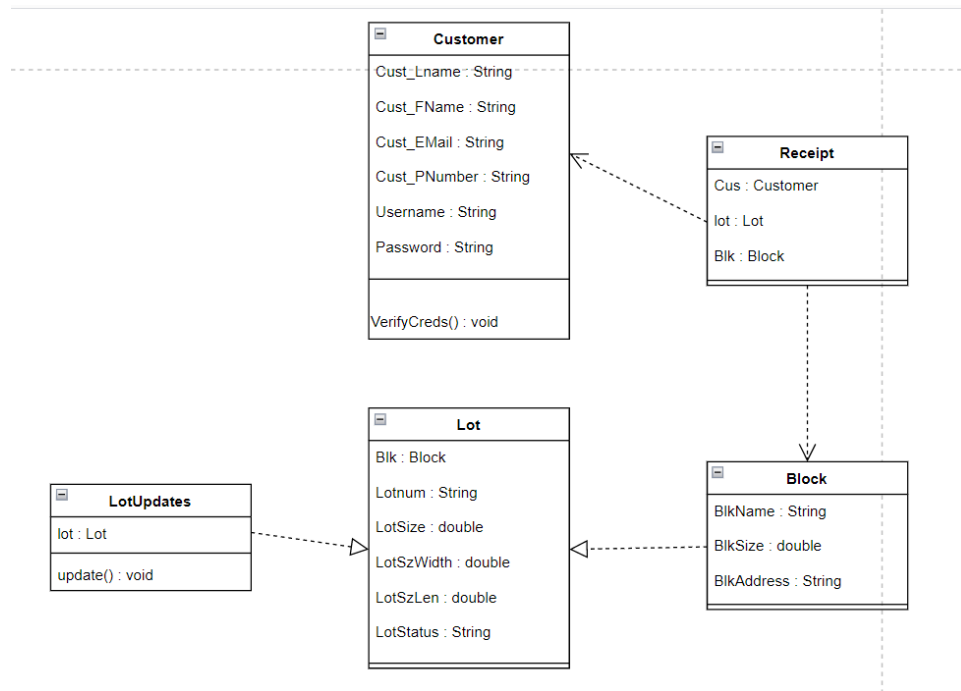
II. PROJECT DESIGN

A) UML Use Case Diagram

Customer
Cust_Lname : String
Cust_FName : String
Cust_EMail : String
Cust_PNumber : String
Username : String
Password : String

VerifyCreds() : void

Receipt
Cus : Customer
lot : Lot
Blk : Block

Lot
Blk : Block
Lotnum : String
LotSize : double
LotSzWidth : double
LotSzLen : double
LotStatus : String

LotUpdates
lot : Lot
update() : void

Block
BlkName : String
BlkSize : double
BlkAddress : String
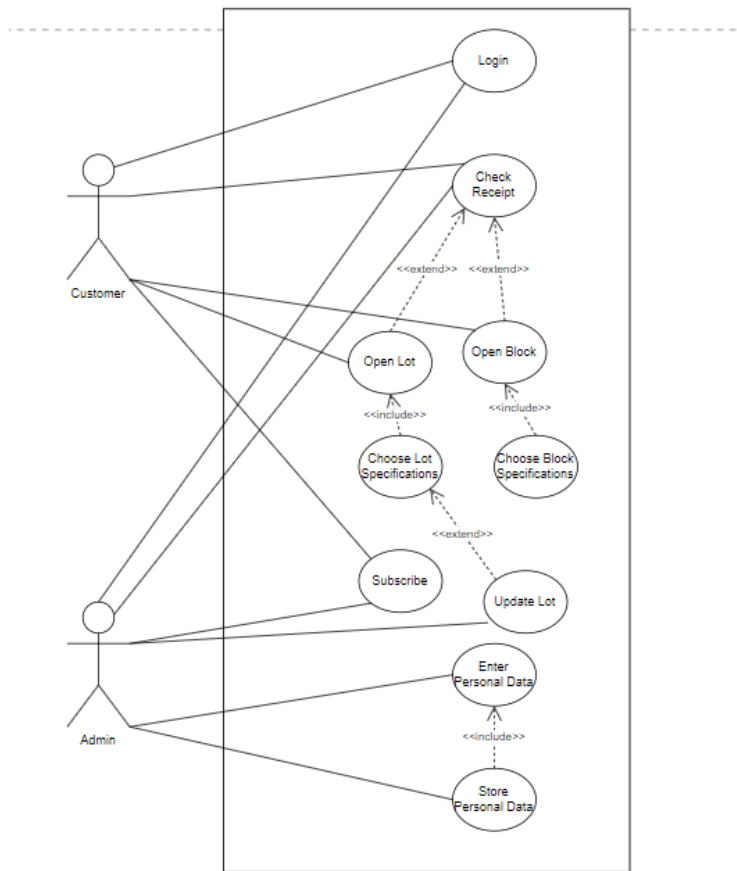
Figure 2.1: UML Use Case Diagram

B) UML Class Diagram

Figure 2.2: UML Class Diagram
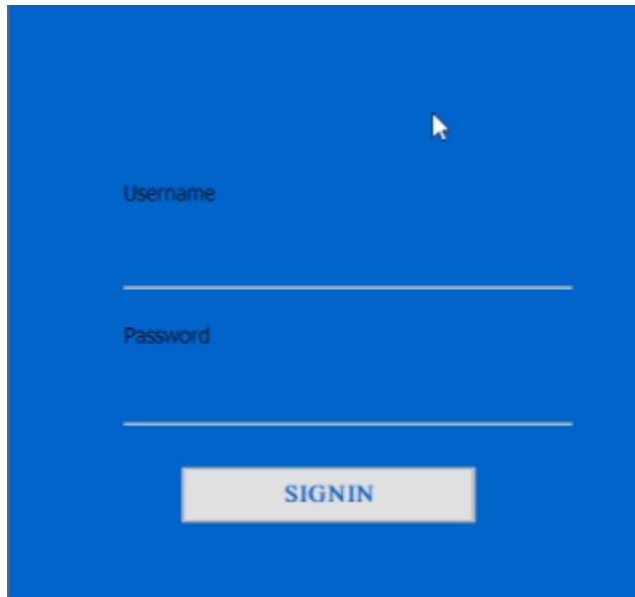
C) Design Patterns

Prototype Pattern

This pattern is used in the program using the Sales class and the JFrame for sale wherein the window for the Sales class can be opened while having another window open in the background. In this case, the user can open a client window or property window simultaneously with the sale window and the database would still be updated.

Singleton Pattern

The loginform.java file is an example of a singleton pattern in this program. The file only has one instance in the entire system and cannot be found anywhere else in the system. The login form allows users to log in to the system and access the rest of the program which makes it an essential part of the program.
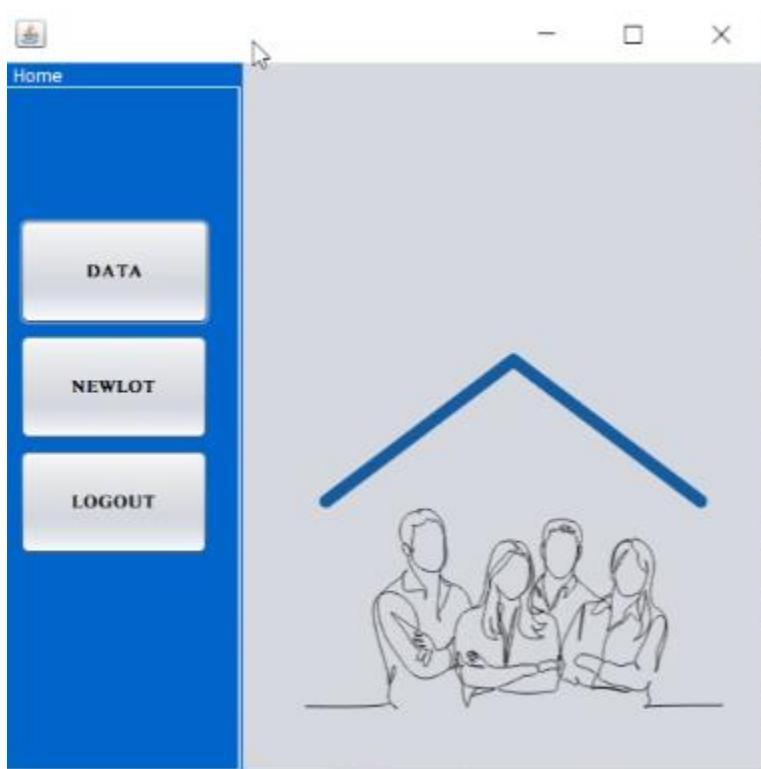
III. SAMPLE SCREENSHOTS

LoginForm

Home

Data

Lot

Tables

IV.   PROJECT PROGRAM LISTING

DBclass.java
```java
class MysqlCon{
public static void main(String args[]){
try{
Class.forName("com.mysql.jdbc.Driver");
    try (Connection con = DriverManager.getConnection(
        "jdbc:mysql://localhost:3306/real_estate","root","1234")) {
```

```java
        Statement stmt=con.createStatement();
        ResultSet rs=stmt.executeQuery("select * from users");
        while(rs.next())
           System.out.println(rs.getInt(1)+" "+rs.getString(2)+" "+rs.getString(3));
    }
}catch(ClassNotFoundException | SQLException e){ System.out.println(e);}
}
}
```

LoginForm.Java

```java
import java.awt.Dimension;
import java.awt.Toolkit;
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 Rianne Lorraine Sarmiento
 */
public class LoginForm extends javax.swing.JFrame {

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

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

```java
 * 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();
    username = new javax.swing.JTextField();
    password = new javax.swing.JPasswordField();
    jButton1 = new javax.swing.JButton();
    jSeparator1 = new javax.swing.JSeparator();
    jSeparator2 = new javax.swing.JSeparator();
    lbl_username = new javax.swing.JLabel();
    lbl_password = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    jLabel4 = new javax.swing.JLabel();
    jLabel1 = new javax.swing.JLabel();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    jPanel1.setBackground(new java.awt.Color(204, 204, 204));

    jPanel2.setBackground(new java.awt.Color(0, 102, 204));

    username.setBackground(new java.awt.Color(0, 102, 204));
    username.setFont(new java.awt.Font("Mongolian Baiti", 1, 16)); // NOI18N
    username.setForeground(new java.awt.Color(204, 204, 204));
    username.setToolTipText("");
    username.setBorder(null);
    username.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            usernameActionPerformed(evt);
        }
    });

    password.setBackground(new java.awt.Color(0, 102, 204));
    password.setFont(new java.awt.Font("Mongolian Baiti", 1, 16)); // NOI18N
    password.setForeground(new java.awt.Color(204, 204, 204));
```

```java
    password.setBorder(null);
    password.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
        passwordActionPerformed(evt);
      }
    });
    password.addKeyListener(new java.awt.event.KeyAdapter() {
      public void keyReleased(java.awt.event.KeyEvent evt) {
        passwordKeyReleased(evt);
      }
    });

    jButton1.setBackground(new java.awt.Color(204, 204, 204));
    jButton1.setFont(new java.awt.Font("Mongolian Baiti", 1, 16)); // NOI18N
    jButton1.setForeground(new java.awt.Color(0, 102, 204));
    jButton1.setText("SIGNIN");
    jButton1.setBorder(null);
    jButton1.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
      }
    });

    jSeparator1.setBackground(new java.awt.Color(204, 204, 204));

    jSeparator2.setBackground(new java.awt.Color(204, 204, 204));

    lbl_password.setFont(new java.awt.Font("Montserrat", 1, 16)); // NOI18N
    lbl_password.setForeground(new java.awt.Color(204, 204, 204));

    jLabel3.setFont(new java.awt.Font("Tahoma", 0, 14)); // NOI18N
    jLabel3.setText("Username");

    jLabel4.setFont(new java.awt.Font("Tahoma", 0, 14)); // NOI18N
    jLabel4.setText("Password");

    javax.swing.GroupLayout jPanel2Layout = new
javax.swing.GroupLayout(jPanel2);
    jPanel2.setLayout(jPanel2Layout);
    jPanel2Layout.setHorizontalGroup(
```

```java
jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADIN
G)
        .addGroup(jPanel2Layout.createSequentialGroup()
          .addGap(78, 78, 78)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignm
ent.LEADING)
            .addComponent(jLabel3)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignm
ent.TRAILING, false)
            .addComponent(password,
javax.swing.GroupLayout.DEFAULT_SIZE, 300, Short.MAX_VALUE)
            .addComponent(username,
javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.PREFERRED_SIZE, 237,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jSeparator1)
            .addComponent(jSeparator2,
javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(lbl_username,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(lbl_password,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
          .addComponent(jLabel4))
        .addContainerGap(47, Short.MAX_VALUE))
      .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel2Layout.createSequentialGroup()
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
        .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE,
196, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(112, 112, 112))
    );
    jPanel2Layout.setVerticalGroup(
```

```java
jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel2Layout.createSequentialGroup()
          .addContainerGap(117, Short.MAX_VALUE)
          .addComponent(jLabel3)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
          .addComponent(username, javax.swing.GroupLayout.PREFERRED_SIZE,
40, javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
          .addComponent(jSeparator1,
javax.swing.GroupLayout.PREFERRED_SIZE, 10,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
          .addComponent(lbl_username)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
          .addComponent(jLabel4)
          .addGap(3, 3, 3)
          .addComponent(password, javax.swing.GroupLayout.PREFERRED_SIZE,
40, javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
          .addComponent(jSeparator2,
javax.swing.GroupLayout.PREFERRED_SIZE, 10,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
          .addComponent(lbl_password)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
          .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE,
37, javax.swing.GroupLayout.PREFERRED_SIZE)
          .addGap(52, 52, 52))
      );

    jLabel1.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
```

```java
        javax.swing.GroupLayout jPanel1Layout = new
javax.swing.GroupLayout(jPanel1);
    jPanel1.setLayout(jPanel1Layout);
    jPanel1Layout.setHorizontalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADIN
G)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()
            .addContainerGap()
            .addComponent(jLabel1)
            .addGap(0, 0, 0))
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(0, 0, Short.MAX_VALUE))
    );
    jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADIN
G)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(0, 0, Short.MAX_VALUE)
            .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE,
279, javax.swing.GroupLayout.PREFERRED_SIZE))
    );

    javax.swing.GroupLayout layout = new
javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
```

```java
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(0, 0, Short.MAX_VALUE))
    );
    layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE, 407,
Short.MAX_VALUE)
    );

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

  private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    try{
      Class.forName("com.mysql.jdbc.Driver");
      Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/real_estate",
"root", "1234");
      String sql = "Select * from users where username=? and password=?";
      PreparedStatement pst = con.prepareStatement(sql);
      pst.setString(1, username.getText());
      pst.setString(2, password.getText());
      ResultSet rs = pst.executeQuery();
      if(rs.next()){
        rsHome menu = new rsHome();
        menu.setVisible(true);
        setVisible(false);
      }
      else{
        JOptionPane.showMessageDialog(null, "Username and Password Do Not
Matched!");
        username.setText("");
        password.setText("");
      }
      con.close();
```

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

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

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

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

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

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

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

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

    // Variables declaration - do not modify
    private javax.swing.JButton jButton1;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JLabel jLabel4;
    private javax.swing.JPanel jPanel1;
    private javax.swing.JPanel jPanel2;
    private javax.swing.JSeparator jSeparator1;
    private javax.swing.JSeparator jSeparator2;
    private javax.swing.JLabel lbl_password;
    private javax.swing.JLabel lbl_username;
    private javax.swing.JPasswordField password;
    private javax.swing.JTextField username;
    // End of variables declaration
```

```
        }
```

Lot.java

```java
    /*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template
 */


/**
 *
 * @author me
 */
public abstract class Lot {

    private int lot_id;
    private int lot_number;
    private String lot_size;
    private float lot_price;

    private int block_id;
    private String lot_status;

    public Lot(int id, int lot_number,float price, String size, int block_id, String status){
        this.lot_id = id;
```

```java
        this.lot_number = lot_number;

        this.lot_size = size;

        this.lot_price = price;

        this.block_id = block_id;

        this.lot_status = status;

    }


    public int getId(){

        return lot_id;

    }


    public int getLotNumber(){

        return lot_number;

    }


    public float getPrice(){

        return lot_price;

    }


    public String getSize(){

        return lot_size;

    }


    public String getStatus(){

        return lot_status;
```

```java
    }

    public int getBlockId() {

        return block_id;

    }


    Lot() {

        throw new UnsupportedOperationException("Not supported yet."); // Generated from
nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBody

    }


    Object getlot() {

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

    }


    Object getblocks() {

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

    }


    Object getprice() {

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

    }
}
```

rsData.Java

```java
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this template
 */

import java.awt.event.KeyEvent;

import java.awt.print.PrinterException;

import java.sql.Connection;

import java.sql.PreparedStatement;

import java.util.logging.Level;

import java.util.logging.Logger;

import java.sql.DriverManager;

import java.sql.SQLException;

import java.sql.ResultSet;

import java.util.ArrayList;

import javax.swing.JOptionPane;

import javax.swing.table.DefaultTableModel;

import java.sql.Statement;


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

```java
public rsData() {

    initComponents();

    showUsersInJTable(query);

}


String query = "SELECT * FROM real_estate.lot";


public Connection getConnection(){

    Connection con = null;

    try{

        con= DriverManager.getConnection("jdbc:mysql://localhost/real_estate", "root", "1234");

    }

    catch(Exception ex){

        System.out.println(ex.getMessage());

    }

    return con;

}


public ArrayList<Lot> listLots(String query){

    int lot_id = 0;

    ArrayList<Lot> lotList = new ArrayList();

    Connection con = getConnection();

    Statement st;

    ResultSet rs;
```

```java
        try{
            st = con.createStatement();
            rs = st.executeQuery(query);
            Lot lot;
            while(rs.next()){
                lot = new Lot(
                rs.getInt("lot_id"),
                rs.getInt("lot_num"),
                rs.getFloat("lot_price"),
                rs.getString("lot_size"),
                rs.getInt("block_id"),
                rs.getString("lot_status")) {};


                lotList.add(lot);


            }
          }
        catch(SQLException ex){
            System.out.println(ex.getMessage());
        }


        return lotList;
    }
```

```java
public void showUsersInJTable(String OrderQuery){

    ArrayList<Lot> lots = listLots(OrderQuery);

    DefaultTableModel model = new DefaultTableModel();


    model.setColumnIdentifiers(new Object[]{"lotNo","Block No","Size","Price", "Status"});

    Object[] row = new Object[5];


    for(int i = 0; i < lots.size(); i++){

        row[0]= lots.get(i).getLotNumber();

        row[1]= lots.get(i).getBlockId();

        row[2]= lots.get(i).getSize();

        row[3]= lots.get(i).getPrice();

        row[4]= lots.get(i).getStatus();


        model.addRow(row);

    }

    jTable_view.setModel(model);

}



@SuppressWarnings("unchecked")
```

```java
// <editor-fold defaultstate="collapsed" desc="Generated Code">

private void initComponents() {


    jPanel1 = new javax.swing.JPanel();

    jButton1 = new javax.swing.JButton();

    jButton3 = new javax.swing.JButton();

    jButton2 = new javax.swing.JButton();

    jButton5 = new javax.swing.JButton();

    jButton6 = new javax.swing.JButton();

    jButton4 = new javax.swing.JButton();

    btnSold = new javax.swing.JButton();

    btnReserved = new javax.swing.JButton();

    jScrollPane1 = new javax.swing.JScrollPane();

    jTable_view = new javax.swing.JTable();


    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);


    jPanel1.setBackground(new java.awt.Color(0, 102, 204));


jPanel1.setBorder(javax.swing.BorderFactory.createTitledBorder(javax.swing.BorderFacto
ry.createTitledBorder(null, "", javax.swing.border.TitledBorder.DEFAULT_JUSTIFICATION,
javax.swing.border.TitledBorder.DEFAULT_POSITION, new java.awt.Font("Tahoma", 0, 13),
new java.awt.Color(255, 255, 255)), "DATA",
javax.swing.border.TitledBorder.DEFAULT_JUSTIFICATION,
javax.swing.border.TitledBorder.DEFAULT_POSITION, new java.awt.Font("Tahoma", 0, 13),
new java.awt.Color(255, 255, 255))); // NOI18N
```

```java
jButton1.setFont(new java.awt.Font("Mongolian Baiti", 1, 12)); // NOI18N

jButton1.setText("STATUS");

jButton1.addActionListener(new java.awt.event.ActionListener() {

  public void actionPerformed(java.awt.event.ActionEvent evt) {

    jButton1ActionPerformed(evt);

  }

});


jButton3.setFont(new java.awt.Font("Mongolian Baiti", 1, 12)); // NOI18N

jButton3.setText("PRICE DESCENDING");

jButton3.addActionListener(new java.awt.event.ActionListener() {

  public void actionPerformed(java.awt.event.ActionEvent evt) {

    jButton3ActionPerformed(evt);

  }

});


jButton2.setFont(new java.awt.Font("Mongolian Baiti", 1, 12)); // NOI18N

jButton2.setText("SIZE DESCENDING");

jButton2.addActionListener(new java.awt.event.ActionListener() {

  public void actionPerformed(java.awt.event.ActionEvent evt) {

    jButton2ActionPerformed(evt);

  }

});


jButton5.setFont(new java.awt.Font("Mongolian Baiti", 1, 12)); // NOI18N
```

```java
jButton5.setText("SIZE ASCENDING");

jButton5.addActionListener(new java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

        jButton5ActionPerformed(evt);

    }

});


jButton6.setFont(new java.awt.Font("Mongolian Baiti", 1, 12)); // NOI18N

jButton6.setText("PRICE ASCENDING");

jButton6.addActionListener(new java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

        jButton6ActionPerformed(evt);

    }

});


jButton4.setFont(new java.awt.Font("Mongolian Baiti", 1, 12)); // NOI18N

jButton4.setText("< BACK");

jButton4.addActionListener(new java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

        jButton4ActionPerformed(evt);

    }

});


btnSold.setText("Sold");

btnSold.addActionListener(new java.awt.event.ActionListener() {
```

```java
        public void actionPerformed(java.awt.event.ActionEvent evt) {

            btnSoldActionPerformed(evt);

        }

    });


    btnReserved.setText("Reserved");

    btnReserved.addActionListener(new java.awt.event.ActionListener() {

        public void actionPerformed(java.awt.event.ActionEvent evt) {

            btnReservedActionPerformed(evt);

        }

    });


    javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);

    jPanel1.setLayout(jPanel1Layout);

    jPanel1Layout.setHorizontalGroup(

        jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addGroup(jPanel1Layout.createSequentialGroup()

            .addContainerGap()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

            .addComponent(btnReserved, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

            .addGroup(jPanel1Layout.createSequentialGroup()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILI
NG, false)

                    .addComponent(jButton6, javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)

                    .addComponent(jButton5, javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)

                    .addComponent(jButton2, javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)

                    .addComponent(jButton3, javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)

                    .addComponent(jButton1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))

                .addComponent(jButton4, javax.swing.GroupLayout.PREFERRED_SIZE, 101,
javax.swing.GroupLayout.PREFERRED_SIZE)

                .addComponent(btnSold, javax.swing.GroupLayout.PREFERRED_SIZE, 163,
javax.swing.GroupLayout.PREFERRED_SIZE))

            .addGap(0, 0, Short.MAX_VALUE)))

        .addContainerGap())

    );

    jPanel1Layout.setVerticalGroup(

        jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addGroup(jPanel1Layout.createSequentialGroup()

            .addContainerGap()

            .addComponent(jButton5, javax.swing.GroupLayout.PREFERRED_SIZE, 46,
javax.swing.GroupLayout.PREFERRED_SIZE)
```

```java
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

            .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 46,
javax.swing.GroupLayout.PREFERRED_SIZE)

            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

            .addComponent(jButton3, javax.swing.GroupLayout.PREFERRED_SIZE, 46,
javax.swing.GroupLayout.PREFERRED_SIZE)

            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

            .addComponent(jButton6, javax.swing.GroupLayout.PREFERRED_SIZE, 46,
javax.swing.GroupLayout.PREFERRED_SIZE)

            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

            .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 46,
javax.swing.GroupLayout.PREFERRED_SIZE)

            .addGap(18, 18, 18)

            .addComponent(btnReserved, javax.swing.GroupLayout.PREFERRED_SIZE, 43,
javax.swing.GroupLayout.PREFERRED_SIZE)

            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

            .addComponent(btnSold, javax.swing.GroupLayout.PREFERRED_SIZE, 43,
javax.swing.GroupLayout.PREFERRED_SIZE)

            .addGap(2, 2, 2)

            .addComponent(jButton4)

            .addContainerGap())
    );


    jTable_view.setFont(new java.awt.Font("Mongolian Baiti", 1, 12)); // NOI18N
    jTable_view.setModel(new javax.swing.table.DefaultTableModel(
        new Object [][] {
```

```java
      {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"

   }

) {

   boolean[] canEdit = new boolean [] {

      false, false, false, false

   };


   public boolean isCellEditable(int rowIndex, int columnIndex) {

      return canEdit [columnIndex];

   }

});

jTable_view.getTableHeader().setReorderingAllowed(false);

jScrollPane1.setViewportView(jTable_view);


javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

   layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

   .addGroup(layout.createSequentialGroup()
```

```java
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

            .addComponent(jScrollPane1, javax.swing.GroupLayout.DEFAULT_SIZE, 658,
Short.MAX_VALUE))
        );

        layout.setVerticalGroup(

            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING,
false)

                .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

                .addComponent(jScrollPane1))

            .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        );


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


    //SIZE DESCENDING
    private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
     query = "SELECT * FROM lot ORDER BY lot_size DESC";
     showUsersInJTable(query);
    }
```

```java
private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
 query = "SELECT * FROM lot ORDER BY lot_price DESC";
  showUsersInJTable(query);
}


private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
   query = "SELECT * FROM lot ORDER BY lot_status DESC";
  showUsersInJTable(query);
}


private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
  rsHome home = new rsHome();
   home.setVisible(true);
      setVisible(false);
}


private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {
  query = "SELECT * FROM lot ORDER BY lot_size ASC";
  showUsersInJTable(query);
}


private void jButton6ActionPerformed(java.awt.event.ActionEvent evt) {
   query = "SELECT * FROM lot ORDER BY lot_price ASC";
   showUsersInJTable(query);
```

```java
}

private void btnReservedActionPerformed(java.awt.event.ActionEvent evt) {
    int column = 0;

    int row = jTable_view.getSelectedRow();

    String value = jTable_view.getModel().getValueAt(row, column).toString();

    String query = "UPDATE lot SET lot_status = ? WHERE lot_num= ?;";

    String query2 = "SELECT * FROM real_estate.lot";

    PreparedStatement st;


    try{

        Connection con = getConnection();

        st = con.prepareStatement(query);

        st.setString(1, "Reserved");

        st.setString(2, value);

        st.executeUpdate();

        showUsersInJTable(query2);

    }catch(SQLException e){

        System.out.println(e.getMessage());

    }
}

private void btnSoldActionPerformed(java.awt.event.ActionEvent evt) {
    int column = 0;

    int row = jTable_view.getSelectedRow();
```

```java
        String value = jTable_view.getModel().getValueAt(row, column).toString();

        String query = "UPDATE lot SET lot_status = ? WHERE lot_num= ?;";

        String query2 = "SELECT * FROM real_estate.lot";

        PreparedStatement st;


        try{

            Connection con = getConnection();

            st = con.prepareStatement(query);

            st.setString(1, "Sold");

            st.setString(2, value);

            st.executeUpdate();

            showUsersInJTable(query2);

        }catch(SQLException e){

            System.out.println(e.getMessage());

        }

    }


    /**
     * @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(rsData.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

    } catch (InstantiationException ex) {

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

    } catch (IllegalAccessException ex) {

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

    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

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

    }

    //</editor-fold>
```

```java
    /* Create and display the form */

    java.awt.EventQueue.invokeLater(new Runnable() {

        public void run() {

            new rsData().setVisible(true);

        }

    });

}


    // Variables declaration - do not modify

    private javax.swing.JButton btnReserved;

    private javax.swing.JButton btnSold;

    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.JPanel jPanel1;

    private javax.swing.JScrollPane jScrollPane1;

    private javax.swing.JTable jTable_view;

    // End of variables declaration

}
```

rsHome.java

```java
import javax.swing.ImageIcon;

/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this template
 */

/**
 *
 * @author me
 */
public class rsHome extends javax.swing.JFrame {

    /**
     * Creates new form rsHome
     */
    public rsHome() {
        initComponents();
    }
    ImageIcon logo = new ImageIcon("Kamela Homes.png");

String query = "SELECT * FROM rstable";
```

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


    jPanel1 = new javax.swing.JPanel();

    bdata = new javax.swing.JButton();

    blogout = new javax.swing.JButton();

    blogout1 = new javax.swing.JButton();

    jLabel1 = new javax.swing.JLabel();


    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);


    jPanel1.setBackground(new java.awt.Color(0, 102, 204));

jPanel1.setBorder(javax.swing.BorderFactory.createTitledBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(255, 255, 255)), "Home",
javax.swing.border.TitledBorder.DEFAULT_JUSTIFICATION,
javax.swing.border.TitledBorder.DEFAULT_POSITION, new java.awt.Font("Tahoma", 0, 13),
new java.awt.Color(255, 255, 255))); // NOI18N


    bdata.setFont(new java.awt.Font("Mongolian Baiti", 1, 12)); // NOI18N

    bdata.setText("DATA");

    bdata.addActionListener(new java.awt.event.ActionListener() {

      public void actionPerformed(java.awt.event.ActionEvent evt) {

        bdataActionPerformed(evt);

      }

    });
```

```java
blogout.setFont(new java.awt.Font("Mongolian Baiti", 1, 12)); // NOI18N

blogout.setText("LOGOUT");

blogout.addActionListener(new java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

        blogoutActionPerformed(evt);

    }

});


blogout1.setFont(new java.awt.Font("Mongolian Baiti", 1, 12)); // NOI18N

blogout1.setText("NEWLOT");

blogout1.addActionListener(new java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

        blogout1ActionPerformed(evt);

    }

});


javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);

jPanel1.setLayout(jPanel1Layout);

jPanel1Layout.setHorizontalGroup(

    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

    .addGroup(jPanel1Layout.createSequentialGroup()

        .addContainerGap()
```

```java
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(bdata, javax.swing.GroupLayout.PREFERRED_SIZE, 128, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(blogout1, javax.swing.GroupLayout.PREFERRED_SIZE, 127, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(blogout, javax.swing.GroupLayout.PREFERRED_SIZE, 127, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addContainerGap(17, Short.MAX_VALUE))
    );
    jPanel1Layout.setVerticalGroup(
        jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addGap(85, 85, 85)
            .addComponent(bdata, javax.swing.GroupLayout.PREFERRED_SIZE, 71, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(blogout1, javax.swing.GroupLayout.PREFERRED_SIZE, 71, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(blogout, javax.swing.GroupLayout.PREFERRED_SIZE, 71, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addContainerGap(141, Short.MAX_VALUE))
    );


    jLabel1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/KAMELA HOMES.png"))); // NOI18N
```

```java
javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

    .addGroup(layout.createSequentialGroup()

        .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 338,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addContainerGap())

);

layout.setVerticalGroup(

    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

    .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()

        .addContainerGap()

        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 290,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addContainerGap())

);


pack();
```

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


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

    LoginForm login = new LoginForm();

        login.setVisible(true);

        setVisible(false);

}


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

    rsData data = new rsData();

        data.setVisible(true);

        setVisible(false);

}


private void blogout1ActionPerformed(java.awt.event.ActionEvent evt) {

    rsNewLot data = new rsNewLot();

        data.setVisible(true);

        setVisible(false);

}


/**
 * @param args the command line arguments
 */
public static void main(String args[]) {

    /* Set the Nimbus look and feel */
```

```java
//<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(rsHome.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (InstantiationException ex) {

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

} catch (IllegalAccessException ex) {

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

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

```java
java.util.logging.Logger.getLogger(rsHome.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 rsHome().setVisible(true);
      }
    });
  }


  // Variables declaration - do not modify
  private javax.swing.JButton bdata;

  private javax.swing.JButton blogout;

  private javax.swing.JButton blogout1;

  private javax.swing.JLabel jLabel1;

  private javax.swing.JPanel jPanel1;
  // End of variables declaration
}
```

RsNewlot.java


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

```java
import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

import java.util.ArrayList;


/*

 * 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 FELT

 */
public class rsNewLot extends javax.swing.JFrame {


    /**

     * Creates new form rsNewLot

     */

    public rsNewLot() {

        initComponents();

    }
```

```java
public Connection getConnection(){

    Connection con = null;

    try{

        con= DriverManager.getConnection("jdbc:mysql://localhost/real_estate", "root", "1234");

    }

    catch(Exception ex){

        System.out.println(ex.getMessage());

    }

    return con;

}


public void newLot(String query){


    try{

        PreparedStatement st;

        Connection con = getConnection();


        st = con.prepareStatement(query);

        String lotNum = lotNo.getText();

        String Size = lotsize.getText();

        Float price = Float.parseFloat(lotPrice.getText());

        int blocks =  Integer.parseInt(blockNo.getText());

        String status = jComboBox1.getSelectedItem().toString();

        st.setString(1, lotNum);
```

```java
            st.setString(2, Size);

            st.setFloat(3, price);

            st.setInt(4, blocks);

            st.setString(5, status);

            st.executeUpdate();

        }

    catch(SQLException ex){

        System.out.println(ex.getMessage());

    }

}


/**

 * 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();

    lotNo = new javax.swing.JTextField();

    jLabel1 = new javax.swing.JLabel();

    jLabel2 = new javax.swing.JLabel();

    lotsize = new javax.swing.JTextField();
```

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

lotPrice = new javax.swing.JTextField();

jLabel4 = new javax.swing.JLabel();

jLabel5 = new javax.swing.JLabel();

blockNo = new javax.swing.JTextField();

jLabel6 = new javax.swing.JLabel();

button1 = new java.awt.Button();

Back = new java.awt.Button();

jComboBox1 = new javax.swing.JComboBox<>();


jButton1.setText("jButton1");


setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);


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


jLabel1.setText("Lot No.");


jLabel2.setText("Size (square meter)");


lotsize.addActionListener(new java.awt.event.ActionListener() {
```

```java
    public void actionPerformed(java.awt.event.ActionEvent evt) {

        lotsizeActionPerformed(evt);

    }

});


jLabel3.setText("Price");


jLabel4.setText("Status");


jLabel5.setText("Block No.");


jLabel6.setFont(new java.awt.Font("Tahoma", 0, 24)); // NOI18N

jLabel6.setText("Add new lot");


button1.setLabel("Add");

button1.addActionListener(new java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

        button1ActionPerformed(evt);

    }

});


Back.setActionCommand("Button2");

Back.setLabel("Back");

Back.addActionListener(new java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {
```

```java
        BackActionPerformed(evt);

      }

    });


    jComboBox1.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] {
"Available", "Sold", "Reserved" }));

    jComboBox1.addActionListener(new java.awt.event.ActionListener() {

      public void actionPerformed(java.awt.event.ActionEvent evt) {

        jComboBox1ActionPerformed(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()

        .addContainerGap()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

          .addComponent(lotNo)

          .addComponent(lotsize, javax.swing.GroupLayout.DEFAULT_SIZE, 529,
Short.MAX_VALUE)

          .addComponent(lotPrice, javax.swing.GroupLayout.DEFAULT_SIZE, 529,
Short.MAX_VALUE)

          .addComponent(blockNo, javax.swing.GroupLayout.DEFAULT_SIZE, 529,
Short.MAX_VALUE)
```

```java
        .addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

            .addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED_SIZE, 197,
javax.swing.GroupLayout.PREFERRED_SIZE)

            .addComponent(jLabel1)

            .addComponent(jLabel2)

            .addComponent(jLabel3)

            .addComponent(jLabel5)

            .addComponent(jLabel4))

        .addGap(0, 0, Short.MAX_VALUE)))

    .addContainerGap())

    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()

        .addGap(35, 35, 35)

        .addComponent(Back, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

        .addComponent(button1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

        .addGap(35, 35, 35))

    .addGroup(layout.createSequentialGroup()

        .addContainerGap()

        .addComponent(jComboBox1, 0, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)

        .addContainerGap())
```

```java
            );
        layout.setVerticalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED_SIZE, 31,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jLabel1)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(lotNo, javax.swing.GroupLayout.PREFERRED_SIZE, 22,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jLabel2)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(lotsize, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jLabel3)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(lotPrice, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                .addComponent(jLabel5)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(blockNo, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
```

```java
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

                .addComponent(jLabel4)

                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

                .addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 96,
Short.MAX_VALUE)


.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

                .addComponent(button1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

                .addComponent(Back, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

            .addGap(46, 46, 46))
    );


    Back.getAccessibleContext().setAccessibleName("Button2");


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


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


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

```java
    }


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

      rsHome home = new rsHome();

       home.setVisible(true);

          setVisible(false);

    }


    private void button1ActionPerformed(java.awt.event.ActionEvent evt) {

       // TODO add your handling code here:

       String query = "INSERT into lot (lot_num, lot_size, lot_price, block_id, lot_status)
VALUES (?, ?, ?, ?, ?)";

       newLot(query);

    }


    private void jComboBox1ActionPerformed(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) ">
```

```java
    /* 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(rsNewLot.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

    } catch (InstantiationException ex) {

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

    } catch (IllegalAccessException ex) {

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

    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

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

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



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


// Variables declaration - do not modify
private java.awt.Button Back;
private javax.swing.JTextField blockNo;
private java.awt.Button button1;
private javax.swing.JButton jButton1;
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.JTextField lotNo;
private javax.swing.JTextField lotPrice;
```

```
    private javax.swing.JTextField lotsize;

    // End of variables declaration
}
```

Group Member Rating (1 to 5)

ALEXANDER RALF AREVALO -4

WAYNE HANS CAMACHO -4

ERIC THOMPSON FUNG -5

MIGUEL VICENTE OCUMEN -5

RAPHAEL ALEXEI TOLLEDO -5