JAVA AWT BASED- MY CITY INFORMATION- SQL CONNECTIVITY USING JDBC

A

Report

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BACHELOR OF ENGINEERING

IN

INFORMATION TECHNOLOGY

By

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BONAFIDE CERTIFICATE

This is to certify that this project report titled "MY CITY INFORMATION" is the bonafied mini project work of Mr. D Yasho Vardhan Reddy bearing hall ticket number 1602-18-737-120 under the guidance of B. Leelavathy during 4th sem B.E for the academic year 2019-2020.

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MY CITY INFORMATION

AIM:

To create a Java GUI for MY City Information which takes city and different landmarks in city and it also takes details of different services like hotels, metro stations , tourist places . These values are updated in Database so that we can get different services around the landmark in specific city.

These values are to be updated in the database using JDBC connectivity .

Abstract:

Nowadays software application plays a major role in each and every field to improve their carrier. In our state as well as in other states there are many people accessing website if they want to know about city information. It helps user to view city information in easier way. Users can view the data in anytime and anywhere . The idea behind this application is to help people to find different services ,entertainment and other facilities available in there city and this application is also useful for the tourist to know where are hotels ,transport facilities like metro stations ,tourist

places etc.. This application can also be used to find different places in near by area by using current location or landmark. This application can also be used to know rating of different places , timings and other details.

Introduction:

Requirements:

List of Tables:

1) MyCity
2)Hotels
3)TouristPlaces
4)MetroStations
5)Has_Metro_Stations
6)Has_Tourist_Places
7)Has_Hotels
8)Services
9)Landmarks

Table Name	Description	Attribute	DataType
MyCity	cityname	cityname	varchar2(15)
Services	Cityname	cityname	varchar2(15)
	Services	services	varchar2(15)
Landmarks	Cityname	cityname	varchar2(15)
	Landmark	landmark	varchar2(15)
MetroStation	Station Name	Station_name	varchar2(25)

	Landmark	landmark	varchar2(25)
	Timmings(opens and closes at)	timmings	varchar2(20)
Hotels	Hotel Name	hotel_name	varchar2(15)
	Landmark	landmark	varchar2(15)
	Phone Number	phone_number	number(10)
	Rating(between 0 and 10)	rating	number(2)
Tourist Places	Place Name	Place_name	varchar2(15)
	Landmark	landmark	varchar2(15)
	Rating	rating	number(2)
Has Metrostations	City Name	cityname	varchar2(15)
	Station Name	station_name	varchar2(15)
Has Hotels	City Name	cityname	varchar2(15)
	Hotel Name	hotel_name	varchar2(15)
Has Tourist Places	City Name	cityname	varchar2(15)
	Place Name	place_name	varchar2(15)

SOFTWARE USED:

Java Eclipse, Oracle 11g Database, Java SE version 7, SQL*Plus.

Eclipse: It is an integrated development environment (IDE) used in computer programming. It contains a base workspace and an extensible plug in system for customizing the environment. The Eclipse software development kit (SDK), which include java development tools is meant for java developers.

SQL *plus: SQL *plus is a command line tool proprietary to oracle. You can send SQL Queries to the server using the tool. It can also help you format the result of query. SQL is the query language that is used to communicate with the oracle server to access and modify data.

Java AWT:

Java AWT (Abstract Window Toolkit) is an API to develop GUI or window-based

applications in java.

Java AWT components are platform-dependent i.e. components are displayed according

to the view of operating system. AWT is heavyweight i.e. its components are using the

resources of OS.

The java.awt package provides classes for AWT API such as TextField, Label, TextArea,

RadioButton, CheckBox, Choice, List etc.

Java Swing:

Java Swing is a part of Java Foundation Classes (JFC) which was designed for enabling large-scale enterprise development of Java applications. Java Swing is a set of APIs that provides graphical user interface (GUI) for Java programs. Java Swing is also known as Java GUI widget toolkit.

Java Swing or Swing was developed based on earlier APIs called Abstract Windows Toolkit (AWT). Swing provides richer and more sophisticated GUI components than AWT. The GUI components are ranging from a simple label to complex tree and table. Besides emulating look and feel of various platforms, Swing also provides *the pluggable look and feel* to allow look and feel of Java programs independent from the underlying platform.

SQL:

Structure Query Language(SQL) is a database query language used for storing and

managing data in Relational DBMS. SQL was the first commercial language introduced

for E.F Codd's Relational model of database. Today almost all RDBMS (MySql, Oracle,

Infomix, Sybase, MS Access) use SQL as the standard database query language. SQL is

used to perform all types of data operations in RDBMS**.**

ER DIAGRAM

Rating
Tourist Places
Landmark
Name
Has Tourist Places
City Name
My City
Landmark
Services
Has Hotels
Has Metro Stations
Name
Hotels
Landmark
Phone Number
Rating
Timmings
Metro Stations
Landmark
Station Name

CREATION OF TABLES:

DDL Commands:

SQL> create table mycity(cityname varchar2(15) primary key);

Table created.

SQL> desc mycity;

```
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 CITYNAME                                  NOT NULL VARCHAR2(15)
```

SQL> create table landmarks(cityname varchar2(15),landmark varchar2(15),foreign key(cityname) references mycity(cityname),primary key(cityname,landmark));

Table created.

SQL> desc landmarks;

```
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 CITYNAME                                  NOT NULL VARCHAR2(15)
 LANDMARK                                  NOT NULL VARCHAR2(15)
```

SQL> create table services(cityname varchar2(15),services varchar2(15) not null ,foreign key(cityname) references mycity,primary key(cityname,services));Table created.

SQL> create table tourist_places(name varchar2(15) primary key,city varchar2(15) not null, landmark varchar2(15) not null,rating number(2));

Table created.

SQL> alter table tourist_places add constraint check_rating check(rating between 1 and 10);

Table altered.

SQL> desc tourist_places;

```
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
NAME                                       NOT NULL VARCHAR2(15)
 CITY                                      NOT NULL VARCHAR2(15)
 LANDMARK                                  NOT NULL VARCHAR2(15)
 RATING                                             NUMBER(2)
```

SQL> alter table tourist_places rename column name to place_name;

Table altered.

SQL> create table has_tourist_places(cityname varchar2(15),place_name varchar2(15) ,foreign key(cityname) references mycity,foreign key(place_name) references tourist_places);

Table created.

SQL> desc has_tourist_places;

```
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 CITYNAME                                           VARCHAR2(15)
 PLACE_NAME                                         VARCHAR2(15)
```

SQL> create table metrostations(station_name varchar2(15) primary key,landmark varchar2(15) not null,timmings varchar2(10));

Table created.

SQL> desc metrostations;

```
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 STATION_NAME                              NOT NULL VARCHAR2(15)
LANDMARK                                   NOT NULL VARCHAR2(15)
 TIMMINGS                                           VARCHAR2(10)
```

```
SQL> create table has_metro_stations(cityname varchar2(15),station_name
varchar2(15) ,foreign key(cityname) references mycity,foreign
key(station_name) references metrostations);


Table created.


SQL> desc has_metro_stations;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 CITYNAME                                           VARCHAR2(15)
 STATION_NAME                                       VARCHAR2(15)
SQL> desc has_metro_stations;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 CITYNAME                                           VARCHAR2(15)
 STATION_NAME                                       VARCHAR2(15)


SQL> create table hotels(hotel_name varchar2(15) primary key,landmark
varchar2(15) not null,phone_number number(10),rating number(2));


Table created.


SQL> alter table hotels add constraints ckey_rating check(rating between 1
and 10);


Table altered.
```

```
SQL> desc hotels;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 HOTEL_NAME                                NOT NULL VARCHAR2(15)
 LANDMARK                                  NOT NULL VARCHAR2(15)
 PHONE_NUMBER                                       NUMBER(10)
 RATING                                             NUMBER(2)
```

```
SQL> create table has_hotels(cityname varchar2(15),hotel_name
varchar2(15),foreign key(cityname) references mycity,foreign key(hotel_name)
references hotels);

Table created.
```

```
SQL> desc has_hotels;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 CITYNAME                                           VARCHAR2(15)
 HOTEL_NAME                                         VARCHAR2(15)
```

Java-SQL Connectivity using JDBC:

Java Database Connectivity (JDBC) is an application programming interface (API) for

the programming language Java, which defines how a client may access a database. It is a

Java-based data access technology used for Java database connectivity. It is part of

the Java Standard Edition platform, from Oracle Corporation. It provides methods to

query and update data in a database and is oriented towards relational databases.

The connection to the database can be performed using Java programming (JDBC API)

as:

```
private void connToDb()
{
	try
	{
		Class.forName("oracle.jdbc.driver.OracleDriver");

	connection=DriverManger.getConnection("jdbc:oracle:thin:@localhost:1522:xe",
"yasho","password");
		statement=connection.createStatement();
	}
	catch(SQLException connectException)
	{
		System.out.println(connectException.getMessage());
		System.out.println(connectException.getSQLState());
		System.out.println(connectException.getErrorCode());
		System.exit(1);
```

```
        }
        catch(Exception e)
        {
                System.err.println("Unable to find and load driver");
                System.exit(1);
        }
}
```

Thus, the connection from Java to Oracle database is performed and therefore, can be

used for updating tables in the database directly.

Program For Main GUI:

```
import javax.swing.*;
import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
public class Home extends JFrame{
        private JPanel panel1;
        private JPanel panel2;
        private JButton btnMycity;
        private JButton btnLandmarks;
        private JButton btnServices;
        private JButton btnHotels;
        private JButton btnMetrostations;
```

```
private JButton btnTouristplaces;
private JButton btnHas_Hotels;
private JButton btnHas_metrostations;
private JButton btnHas_touristplaces;
private JButton btnCustomer;
public Home()
{
        panel1=new JPanel(new GridLayout(3,3,15,15));
        panel2=new JPanel();
        btnMetrostations=new JButton("Metro Stations");
        btnMetrostations.setBackground(Color.orange);
        btnHas_Hotels=new JButton("Has Hotels");
        btnHas_Hotels.setBackground(Color.ORANGE);
        btnHas_metrostations=new JButton("Has Metro Stations");
        btnHas_metrostations.setBackground(Color.orange);
        btnHas_touristplaces=new JButton("Has Tourist Places");
        btnHas_touristplaces.setBackground(Color.ORANGE);
        btnHotels=new JButton("Hotels");
        btnHotels.setBackground(Color.ORANGE);
        btnLandmarks=new JButton("Landmark");
        btnLandmarks.setBackground(Color.ORANGE);
        btnMycity=new JButton("My City");
        btnMycity.setBackground(Color.ORANGE);
        btnServices=new JButton("Services");
        btnServices.setBackground(Color.ORANGE);
        btnTouristplaces=new JButton("Tourist Places");
        btnTouristplaces.setBackground(Color.ORANGE);
```

```
btnCustomer=new JButton("Go To User Interface");
panel1.setBackground(Color.LIGHT_GRAY);
panel2.setBackground(Color.DARK_GRAY);
panel1.add(btnMycity);
panel1.add(btnServices);
panel1.add(btnLandmarks);
panel1.add(btnHotels);
panel1.add(btnMetrostations);
panel1.add(btnTouristplaces);
panel1.add(btnHas_Hotels);
panel1.add(btnHas_metrostations);
panel1.add(btnHas_touristplaces);
panel2.add(btnCustomer);
this.setVisible(true);
this.setSize(600,400);
this.setDefaultCloseOperation(3);
this.add(panel1,BorderLayout.CENTER);
this.add(panel2,BorderLayout.PAGE_END);
btnHas_Hotels.addActionListener(new ActionListener() {

	@Override
	public void actionPerformed(ActionEvent e) {
		// TODO Auto-generated method stub
		new HasHotelsView();
		dispose();
	}
});
```

```
btnHas_metrostations.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                new HasMetroStationView();
                dispose();
        }
});
btnHas_touristplaces.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                new HasTouristPlacesView();
                dispose();
        }
});
btnHotels.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                new HotelsView();
                dispose();
        }
});
```

```
btnLandmarks.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                new LandmarksView();
                dispose();
        }
});
btnMetrostations.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                new MetroStationsView();
                dispose();
        }
});
btnMycity.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                new MyCityTableView();
                dispose();
        }
});
```

```
btnServices.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                new ServicesView();
                dispose();
        }
});
btnTouristplaces.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                new TouristPlacesView();
                dispose();
        }
});
btnCustomer.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                new MetroStations();
                dispose();
        }
});
```

```
        }
        public static void main(String args[])
        {
                new Home();
        }

}
```

Program For Insert In Hotels Table:

```
import java.awt.*;
import java.awt.FlowLayout;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.awt.event.ItemEvent;
import java.awt.event.ItemListener;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;

import javax.swing.*;
public class HotelsInsert extends JFrame{
        private JPanel panel;
        private JPanel panel2;
        private JButton btnHome;
```

```
private JLabel lblhotel;
private JLabel lbllandmark;
private JLabel lblrating;
private JLabel lblphonenumber;
private JTextField txthotel;
private JTextField txtlandmark;
private JTextField txtphonenumber;
private JComboBox< String> cmbratings;
private JButton btninsert;
private JButton btnclear;
private JTextArea txtmessage;
private JMenu MyCityTable;
private JMenu Services;
private JMenu Tourist_Places;
private JMenu Has_Tourist_Places;
private JMenu MetroStations;
private JMenu Has_MetroStations;
private JMenu Hotels;
private JMenu Has_Hotels;
private JMenu Landmarks;
private JMenuBar menubar;
private JMenuItem insert1;
private JMenuItem delete1;
private JMenuItem view1;
private JMenuItem insert2;
private JMenuItem delete2;
private JMenuItem view2;
```

```
private JMenuItem insert3;
private JMenuItem delete3;
private JMenuItem view3;
private JMenuItem insert4;
private JMenuItem delete4;
private JMenuItem view4;
private JMenuItem insert5;
private JMenuItem delete5;
private JMenuItem view5;
private JMenuItem insert6;
private JMenuItem delete6;
private JMenuItem view6;
private JMenuItem insert7;
private JMenuItem delete7;
private JMenuItem view7;
private JMenuItem insert8;
private JMenuItem delete8;
private JMenuItem view8;
private JMenuItem insert9;
private JMenuItem view9;
private JMenuItem delete9;
private String ratings[]= {"0","1","2","3","4","5","6","7","8","9","10"};
public HotelsInsert()
{
        panel2=new JPanel();
        btnHome=new JButton("Home");
        panel2.setBackground(Color.DARK_GRAY);
```

```
panel=new JPanel(new FlowLayout());
lblhotel=new JLabel("Hotel:");
lbllandmark=new JLabel("Landmark:");
lblphonenumber=new JLabel("Phone Number:");
lblrating=new JLabel("Rating:");
txthotel=new JTextField(20);
txtlandmark=new JTextField(20);
txtphonenumber=new JTextField(10);
cmbratings=new JComboBox<String>(ratings);
btninsert=new JButton("Insert");
btnclear=new JButton("Clear");
txtmessage=new JTextArea(10,40);
menubar=new JMenuBar();
MyCityTable=new JMenu("MyCityTable");
insert1=new JMenuItem("Insert");
view1=new JMenuItem("View");
delete1=new JMenuItem("Delete");
MyCityTable.add(insert1);
MyCityTable.add(view1);
MyCityTable.add(delete1);
Services=new JMenu("Services");
insert2=new JMenuItem("Insert");
view2=new JMenuItem("View");
delete2=new JMenuItem("Delete");
Services.add(insert2);
Services.add(view2);
Services.add(delete2);
```

```
Tourist_Places=new JMenu("Tourist_Places");
insert3=new JMenuItem("Insert");
view3=new JMenuItem("View");
delete3=new JMenuItem("Delete");
Tourist_Places.add(insert3);
Tourist_Places.add(view3);
Tourist_Places.add(delete3);
Has_Tourist_Places=new JMenu("Has_Tourist_Places");
insert4=new JMenuItem("Insert");
view4=new JMenuItem("View");
delete4=new JMenuItem("Delete");
Has_Tourist_Places.add(insert4);
Has_Tourist_Places.add(view4);
Has_Tourist_Places.add(delete4);
MetroStations=new JMenu("MetroStations");
insert5=new JMenuItem("Insert");
view5=new JMenuItem("View");
delete5=new JMenuItem("Delete");
MetroStations.add(insert5);
MetroStations.add(view5);
MetroStations.add(delete5);
Has_MetroStations=new JMenu("Has_MetroStations");
insert6=new JMenuItem("Insert");
view6=new JMenuItem("View");
delete6=new JMenuItem("Delete");
Has_MetroStations.add(insert6);
Has_MetroStations.add(view6);
```

```
Has_MetroStations.add(delete6);
Hotels=new JMenu("Hotels");
insert7=new JMenuItem("Insert");
view7=new JMenuItem("View");
delete7=new JMenuItem("Delete");
Hotels.add(insert7);
Hotels.add(view7);
Hotels.add(delete7);
Has_Hotels=new JMenu("Has_Hotels");
insert8=new JMenuItem("Insert");
view8=new JMenuItem("View");
delete8=new JMenuItem("Delete");
Has_Hotels.add(insert8);
Has_Hotels.add(view8);
Has_Hotels.add(delete8);
Landmarks=new JMenu("Landmarks");
insert9=new JMenuItem("Insert");
view9=new JMenuItem("View");
delete9=new JMenuItem("Delete");
Landmarks.add(insert9);
Landmarks.add(view9);
Landmarks.add(delete9);
this.setVisible(true);
this.setSize(1000, 500);
this.add(panel);
this.setTitle("Hotels : Insert");
this.setJMenuBar(menubar);
```

```
this.add(panel2,BorderLayout.PAGE_END);
panel2.add(btnHome);
this.setDefaultCloseOperation(3);
panel.add(lblhotel);
panel.add(txthotel);
panel.add(txthotel);
panel.add(lbllandmark);
panel.add(txtlandmark);
panel.add(lblphonenumber);
panel.add(txtphonenumber);
panel.add(lblrating);
panel.add(cmbratings);
panel.add(btninsert);
panel.add(btnclear);
panel.add(txtmessage);
menubar.add(MyCityTable);
menubar.add(Services);
menubar.add(Tourist_Places);
menubar.add(Has_Tourist_Places);
menubar.add(MetroStations);
menubar.add(Has_MetroStations);
menubar.add(Hotels);
menubar.add(Has_Hotels);
menubar.add(Landmarks);
btnHome.addActionListener(new ActionListener() {

        @Override
```

```
                public void actionPerformed(ActionEvent arg0) {
                        // TODO Auto-generated method stub
                        new Home();
                        dispose();
                }
        });

        btninsert.addActionListener(new ActionListener() {

                @Override
                public void actionPerformed(ActionEvent arg0) {
                        // TODO Auto-generated method stub
                        try{

                                String hotelname=txthotel.getText();
                                String landmark=txtlandmark.getText();
                                String phonenumber=txtphonenumber.getText();
                                String rating=cmbratings.getSelectedItem()+"";
                                if(hotelname.compareTo("")==0)
                                {
                                        JOptionPane.showMessageDialog(null, "Enter
Hotel Name");
                                }
                                else if(landmark.compareTo("")==0)
                                {
                                        JOptionPane.showMessageDialog(null, "Enter
Landmark");
```

```
}
else if(phonenumber.compareTo("")==0 )
{
        JOptionPane.showMessageDialog(null, "Enter
Phone Number");
}
else if(phonenumber.length()!=10)
{
        JOptionPane.showMessageDialog(null, "Enter
Valid Phone Number of 10 Digits");
}
else if(rating.compareTo("0")==0)
{
        JOptionPane.showMessageDialog(null,
"Rating Can't be Zero 0");
}
else
{

    Class.forName("oracle.jdbc.driver.OracleDriver");



        Connection
con=DriverManager.getConnection(

    "jdbc:oracle:thin:@localhost:1521:xe","yasho","password");


        Statement stmt=con.createStatement();
```

```
                int rows=stmt.executeUpdate("insert into
hotels values('"+hotelname+"','"+landmark+"','"+phonenumber+","+rating+")");
                txtmessage.setText("Inserted "+rows+"
row");
                con.commit();
                con.close();
            }
            }
            catch(Exception e)
            {
                System.out.println(e);
            }
        }
    });
    btnclear.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent arg0) {
            // TODO Auto-generated method stub
            txthotel.setText(null);
            txtlandmark.setText(null);
            txtphonenumber.setText(null);
            cmbratings.setSelectedIndex(0);
        }
    });
    insert1.addActionListener(new ActionListener() {
```

```
        @Override
        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            new MyCityTableInsert();
            dispose();
        }
    });
    view1.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            new MyCityTableView();
            dispose();
        }
    });
    delete1.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            new MyCityTableDelete();
            dispose();
        }
    });
    insert2.addActionListener(new ActionListener() {
```

```
        @Override
        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            new ServicesInsert();
            dispose();
        }
    });
    view2.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            new ServicesView();
            dispose();
        }
    });
    delete2.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            new ServicesDelete();
            dispose();
        }
    });
    insert3.addActionListener(new ActionListener() {
```

```
        @Override
        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            new TouristPlacesInsert();

            dispose();
        }
});
view3.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            new TouristPlacesView();
            dispose();
        }
});
delete3.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            new TouristPlacesDelete();
            dispose();
        }
});
insert4.addActionListener(new ActionListener() {
```

```
        @Override
        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            new HasTouristPlacesInsert();
            dispose();
        }
});
view4.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            new HasTouristPlacesView();
            dispose();
        }
});
delete4.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            new HasTouristPlacesDelete();
            dispose();
        }
});
insert5.addActionListener(new ActionListener() {
```

```
        @Override
        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            new MetroStationsInsert();
            dispose();
        }
});
view5.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            new MetroStationsView();
            dispose();
        }
});
delete5.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            new MetroStationsDelete();
            dispose();
        }
});
insert6.addActionListener(new ActionListener() {
```

```
        @Override
        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            new HasMetroStationsInsert();
            dispose();
        }
    });
    view6.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            new HasMetroStationView();
            dispose();
        }
    });
    delete6.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            new HasMetroStationDelete();
            dispose();
        }
    });
    insert7.addActionListener(new ActionListener() {
```

```
        @Override
        public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                new HotelsInsert();
                dispose();
        }
});
view7.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                new HotelsView();
                dispose();
        }
});
delete7.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                new HotelsDelete();
                dispose();
        }
});
insert8.addActionListener(new ActionListener() {
```

```
        @Override
        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            new HasHotelsInsert();
            dispose();
        }
});
view8.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            new HasHotelsView();
            dispose();
        }
});
delete8.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            new HasHotelsDelete();
            dispose();
        }
});
insert9.addActionListener(new ActionListener() {
```

```
        @Override
        public void actionPerformed(ActionEvent arg0) {
            // TODO Auto-generated method stub
            new LandmarksInsert();
            dispose();

        }
    });
    view9.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent arg0) {
            // TODO Auto-generated method stub
            new LandmarksView();
            dispose();
        }
    });
    delete9.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent arg0) {
            // TODO Auto-generated method stub
            new LandmarksDelete();
            dispose();
        }
```

```
		});
	}
	public static void main(String[] args) {
		// TODO Auto-generated method stub
		new HotelsInsert();
	}

}
```

Program For Update Of Hotels Table:

```
import java.awt.*;
import java.awt.FlowLayout;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.awt.event.ItemEvent;
import java.awt.event.ItemListener;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;
import java.util.ArrayList;

import javax.swing.*;
public class HotelsView extends JFrame{
	private JPanel panel2;
	private JButton btnHome;
```

```
private JPanel panel;
private JLabel lblselecthotel;
private JLabel lblhotel;
private JLabel lbllandmark;
private JLabel lblphonenumber;
private JLabel lblrating;
private JComboBox<String> cmbhotels;
private JTextField txthotel;
private JTextField txtlandmark;
private JTextField txtphonenumber;
private JTextField txtrating;
private JButton btnupdate;
private JTextArea txtmessage;
private JMenu MyCityTable;
private JMenu Services;
private JMenu Tourist_Places;
private JMenu Has_Tourist_Places;
private JMenu MetroStations;
private JMenu Has_MetroStations;
private JMenu Hotels;
private JMenuItem insert9;
private JMenuItem view9;
private JMenuItem delete9;
private JMenu Landmarks;
private JMenu Has_Hotels;
private JMenuBar menubar;
private JMenuItem insert1;
```

```
private JMenuItem delete1;
private JMenuItem view1;
private JMenuItem insert2;
private JMenuItem delete2;
private JMenuItem view2;
private JMenuItem insert3;
private JMenuItem delete3;
private JMenuItem view3;
private JMenuItem insert4;
private JMenuItem delete4;
private JMenuItem view4;
private JMenuItem insert5;
private JMenuItem delete5;
private JMenuItem view5;
private JMenuItem insert6;
private JMenuItem delete6;
private JMenuItem view6;
private JMenuItem insert7;
private JMenuItem delete7;
private JMenuItem view7;
private JMenuItem insert8;
private JMenuItem delete8;
private JMenuItem view8;
private ArrayList hotelsList;
public HotelsView()
{
        try{
```

```
        Class.forName("oracle.jdbc.driver.OracleDriver");

        Connection con=DriverManager.getConnection(
        "jdbc:oracle:thin:@localhost:1521:xe","yasho","password");

        Statement stmt=con.createStatement();
        hotelsList=new ArrayList();
        ResultSet rs=stmt.executeQuery("select hotel_name from hotels");
        while(rs.next())
                hotelsList.add(rs.getString(1));



        con.close();

        }
catch(Exception e)
{
        System.out.println(e);
}
panel2=new JPanel();
btnHome=new JButton("Home");
panel2.setBackground(Color.DARK_GRAY);
panel=new JPanel(new FlowLayout());
lblselecthotel=new JLabel("Select Hotel:");
lblhotel=new JLabel("Hotel");
lbllandmark=new JLabel("Landmark:");
```

```
lblphonenumber=new JLabel("Phone Number:");
lblrating=new JLabel("Rating:");
cmbhotels=new JComboBox(hotelsList.toArray());
txthotel=new JTextField(20);
txtlandmark=new JTextField(20);
txtphonenumber=new JTextField(10);
txtrating=new JTextField(3);
btnupdate=new JButton("Modify");
txtmessage=new JTextArea(10,40);
menubar=new JMenuBar();
MyCityTable=new JMenu("MyCityTable");
insert1=new JMenuItem("Insert");
view1=new JMenuItem("View");
delete1=new JMenuItem("Delete");
MyCityTable.add(insert1);
MyCityTable.add(view1);
MyCityTable.add(delete1);
Services=new JMenu("Services");
insert2=new JMenuItem("Insert");
view2=new JMenuItem("View");
delete2=new JMenuItem("Delete");
Services.add(insert2);
Services.add(view2);
Services.add(delete2);
Tourist_Places=new JMenu("Tourist_Places");
insert3=new JMenuItem("Insert");
view3=new JMenuItem("View");
```

```
delete3=new JMenuItem("Delete");
Tourist_Places.add(insert3);
Tourist_Places.add(view3);
Tourist_Places.add(delete3);
Has_Tourist_Places=new JMenu("Has_Tourist_Places");
insert4=new JMenuItem("Insert");
view4=new JMenuItem("View");
delete4=new JMenuItem("Delete");
Has_Tourist_Places.add(insert4);
Has_Tourist_Places.add(view4);
Has_Tourist_Places.add(delete4);
MetroStations=new JMenu("MetroStations");
insert5=new JMenuItem("Insert");
view5=new JMenuItem("View");
delete5=new JMenuItem("Delete");
MetroStations.add(insert5);
MetroStations.add(view5);
MetroStations.add(delete5);
Has_MetroStations=new JMenu("Has_MetroStations");
insert6=new JMenuItem("Insert");
view6=new JMenuItem("View");
delete6=new JMenuItem("Delete");
Has_MetroStations.add(insert6);
Has_MetroStations.add(view6);
Has_MetroStations.add(delete6);
Hotels=new JMenu("Hotels");
insert7=new JMenuItem("Insert");
```

```
view7=new JMenuItem("View");
delete7=new JMenuItem("Delete");
Hotels.add(insert7);
Hotels.add(view7);
Hotels.add(delete7);
Has_Hotels=new JMenu("Has_Hotels");
insert8=new JMenuItem("Insert");
view8=new JMenuItem("View");
delete8=new JMenuItem("Delete");
Has_Hotels.add(insert8);
Has_Hotels.add(view8);
Has_Hotels.add(delete8);
this.setVisible(true);
this.setSize(1000, 500);
this.add(panel);
this.setTitle("Hotels : View");
this.setJMenuBar(menubar);
this.add(panel2,BorderLayout.PAGE_END);
panel2.add(btnHome);
this.setDefaultCloseOperation(3);
panel.add(lblselecthotel);
panel.add(cmbhotels);
panel.add(lblhotel);
panel.add(txthotel);
panel.add(lbllandmark);
panel.add(txtlandmark);
panel.add(lblphonenumber);
```

```
panel.add(txtphonenumber);
panel.add(lblrating);
panel.add(txtrating);
panel.add(btnupdate);
panel.add(txtmessage);
menubar.add(MyCityTable);
menubar.add(Services);
menubar.add(Tourist_Places);
menubar.add(Has_Tourist_Places);
menubar.add(MetroStations);
menubar.add(Has_MetroStations);
menubar.add(Hotels);
menubar.add(Has_Hotels);
Landmarks=new JMenu("Landmarks");
menubar.add(Landmarks);

insert9=new JMenuItem("Insert");
view9=new JMenuItem("View");
delete9=new JMenuItem("Delete");
Landmarks.add(insert9);
Landmarks.add(view9);
Landmarks.add(delete9);
btnHome.addActionListener(new ActionListener() {

	@Override
	public void actionPerformed(ActionEvent arg0) {
		// TODO Auto-generated method stub
```

```
                new Home();
                dispose();
        }
});
insert9.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent arg0) {
                // TODO Auto-generated method stub
                new LandmarksInsert();
                dispose();

        }
});
view9.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent arg0) {
                // TODO Auto-generated method stub
                new LandmarksView();
                dispose();
        }
});
delete9.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent arg0) {
```

```
                // TODO Auto-generated method stub
                new LandmarksDelete();
                dispose();
            }

        });
        cmbhotels.addActionListener(new ActionListener() {

            @Override
            public void actionPerformed(ActionEvent arg0) {
                // TODO Auto-generated method stub
                try{

                    Class.forName("oracle.jdbc.driver.OracleDriver");

                    Connection con=DriverManager.getConnection(

"jdbc:oracle:thin:@localhost:1521:xe","yasho","password");

                    Statement stmt=con.createStatement();

                    ResultSet rs=stmt.executeQuery("select * from
hotels where hotel_name='"+cmbhotels.getSelectedItem()+"'");
                    while(rs.next())
                    {
                        txthotel.setText(rs.getString(1));
                        txtlandmark.setText(rs.getString(2));
```

```
                txtphonenumber.setText(rs.getString(3));
                txtrating.setText(rs.getString(4));
            }



            con.close();


            }catch(Exception e){ System.out.println(e);}
        }
    });
    btnupdate.addActionListener(new ActionListener() {


        @Override
        public void actionPerformed(ActionEvent arg0) {
            // TODO Auto-generated method stub


            if(txthotel.getText().compareTo("")==0)
                JOptionPane.showMessageDialog(null,"Enter
Hotel Name");
            else if(txtlandmark.getText().compareTo("")==0)
                JOptionPane.showMessageDialog(null, "Enter
Landmark");
            else
if(txtphonenumber.getText().compareTo("")==0)
                JOptionPane.showMessageDialog(null, "Enter
Phone Number");
            else if(txtrating.getText().compareTo("")==0)
                JOptionPane.showMessageDialog(null, "Enter
Rating");
```

```
                    else
                    {
                        try{
        Class.forName("oracle.jdbc.driver.OracleDriver");

                        Connection
con=DriverManager.getConnection(
        "jdbc:oracle:thin:@localhost:1521:xe","yasho","password");

                        Statement
stmt=con.createStatement();
                        String
hotelname=txthotel.getText();
                        String
landmark=txtlandmark.getText();
                        String
phonenumber=txtphonenumber.getText();
                        String
rating=txtrating.getText();
                        int
rows=stmt.executeUpdate("update hotels set
hotel_name='"+hotelname+"',landmark='"+landmark+"',phone_number="+phonenumbe
r+",rating="+rating+" where hotel_name='"+cmbhotels.getSelectedItem()+"'");
                        txtmessage.setText("Updated
"+rows+" row");
                        con.commit();
                        hotelsList=new ArrayList();
                        ResultSet
rs=stmt.executeQuery("select hotel_name from hotels");
                        while(rs.next())
```

```
hotelsList.add(rs.getString(1));
                                                int
count=cmbhotels.getItemCount();
                                                for(int i=0;i<count;i++)

cmbhotels.removeItemAt(0);
                                                for(int
i=0;i<hotelsList.size();i++)

cmbhotels.addItem(hotelsList.get(i)+"");

                                                con.close();

                                        }
                                        catch(Exception e)
                                        {
                                                System.out.println(e);
                                        }
                                }
                        }
                });
        insert1.addActionListener(new ActionListener() {

                        @Override
                        public void actionPerformed(ActionEvent e) {
                                // TODO Auto-generated method stub
                                new MyCityTableInsert();
                                dispose();
```

```
        }
});
view1.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                new MyCityTableView();
                dispose();
        }
});
delete1.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                new MyCityTableDelete();
                dispose();
        }
});
insert2.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                new ServicesInsert();
                dispose();
```

```
        }
});
view2.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                new ServicesView();
                dispose();
        }
});
delete2.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                new ServicesDelete();
                dispose();
        }
});
insert3.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                new TouristPlacesInsert();
```

```
                dispose();
        }
});
view3.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                new TouristPlacesView();
                dispose();
        }
});
delete3.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                new TouristPlacesDelete();
                dispose();
        }
});
insert4.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                new HasTouristPlacesInsert();
```

```
                dispose();
        }
});
view4.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                new HasTouristPlacesView();
                dispose();
        }
});
delete4.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                new HasTouristPlacesDelete();
                dispose();
        }
});
insert5.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                new MetroStationsInsert();
```

```
                dispose();
        }
});
view5.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                new MetroStationsView();
                dispose();
        }
});
delete5.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                new MetroStationsDelete();
                dispose();
        }
});
insert6.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                new HasMetroStationsInsert();
```

```
                dispose();
        }
});
view6.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                new HasMetroStationView();
                dispose();
        }
});
delete6.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                new HasMetroStationDelete();
                dispose();
        }
});
insert7.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                new HotelsInsert();
```

```
                dispose();
        }
});
view7.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                new HotelsView();
                dispose();
        }
});
delete7.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                new HotelsDelete();
                dispose();
        }
});
insert8.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                new HasHotelsInsert();
```

```
                dispose();
            }
        });
        view8.addActionListener(new ActionListener() {

            @Override
            public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                new HasHotelsView();
                dispose();
            }
        });
        delete8.addActionListener(new ActionListener() {

            @Override
            public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                new HasHotelsDelete();
                dispose();
            }
        });
    }
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        new HotelsView();
    }
```

```
}
```

Program for Delete Operation in Hotels Table:

```
import java.awt.*;
import java.awt.FlowLayout;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.awt.event.ItemEvent;
import java.awt.event.ItemListener;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;
import java.util.ArrayList;

import javax.swing.*;
public class HotelsDelete extends JFrame{
	private JPanel panel2;
	private JButton btnHome;
	private JPanel panel;
	private JLabel lblselecthotel;
	private JLabel lblhotel;
	private JLabel lbllandmark;
	private JLabel lblphonenumber;
	private JLabel lblrating;
	private JComboBox<String> cmbhotels;
```

```
private JTextField txthotel;
private JTextField txtlandmark;
private JTextField txtphonenumber;
private JTextField txtrating;
private JButton btndelete;
private JTextArea txtmessage;
private JMenu MyCityTable;
private JMenu Services;
private JMenu Tourist_Places;
private JMenu Has_Tourist_Places;
private JMenu MetroStations;
private JMenu Has_MetroStations;
private JMenu Hotels;
private JMenu Has_Hotels;
private JMenuItem insert9;
private JMenuItem view9;
private JMenuItem delete9;
private JMenu Landmarks;
private JMenuBar menubar;
private JMenuItem insert1;
private JMenuItem delete1;
private JMenuItem view1;
private JMenuItem insert2;
private JMenuItem delete2;
private JMenuItem view2;
private JMenuItem insert3;
private JMenuItem delete3;
```

```
private JMenuItem view3;
private JMenuItem insert4;
private JMenuItem delete4;
private JMenuItem view4;
private JMenuItem insert5;
private JMenuItem delete5;
private JMenuItem view5;
private JMenuItem insert6;
private JMenuItem delete6;
private JMenuItem view6;
private JMenuItem insert7;
private JMenuItem delete7;
private JMenuItem view7;
private JMenuItem insert8;
private JMenuItem delete8;
private JMenuItem view8;
private ArrayList hotelList;
public HotelsDelete()
{
        try{

                Class.forName("oracle.jdbc.driver.OracleDriver");

                Connection con=DriverManager.getConnection(
                "jdbc:oracle:thin:@localhost:1521:xe","yasho","password");

                Statement stmt=con.createStatement();
```

```
        hotelList=new ArrayList();
        ResultSet rs=stmt.executeQuery("select hotel_name from hotels");
        while(rs.next())
                hotelList.add(rs.getString(1));



        con.close();


}
catch(Exception e)
{
        System.out.println(e);
}
panel2=new JPanel();
btnHome=new JButton("Home");
panel2.setBackground(Color.DARK_GRAY);
panel=new JPanel(new FlowLayout());
lblselecthotel=new JLabel("Select Hotel:");
lblhotel=new JLabel("Hotel");
lbllandmark=new JLabel("Landmark:");
lblphonenumber=new JLabel("Phone NUmber:");
lblrating=new JLabel("Rating:");
cmbhotels=new JComboBox(hotelList.toArray());
txthotel=new JTextField(20);
txtlandmark=new JTextField(20);
txtphonenumber=new JTextField(10);
txtrating=new JTextField(3);
```

```
btndelete=new JButton("Delete");
txtmessage=new JTextArea(10,40);
menubar=new JMenuBar();
MyCityTable=new JMenu("MyCityTable");
insert1=new JMenuItem("Insert");
view1=new JMenuItem("View");
delete1=new JMenuItem("Delete");
MyCityTable.add(insert1);
MyCityTable.add(view1);
MyCityTable.add(delete1);
Services=new JMenu("Services");
insert2=new JMenuItem("Insert");
view2=new JMenuItem("View");
delete2=new JMenuItem("Delete");
Services.add(insert2);
Services.add(view2);
Services.add(delete2);
Tourist_Places=new JMenu("Tourist_Places");
insert3=new JMenuItem("Insert");
view3=new JMenuItem("View");
delete3=new JMenuItem("Delete");
Tourist_Places.add(insert3);
Tourist_Places.add(view3);
Tourist_Places.add(delete3);
Has_Tourist_Places=new JMenu("Has_Tourist_Places");
insert4=new JMenuItem("Insert");
view4=new JMenuItem("View");
```

```
delete4=new JMenuItem("Delete");
Has_Tourist_Places.add(insert4);
Has_Tourist_Places.add(view4);
Has_Tourist_Places.add(delete4);
MetroStations=new JMenu("MetroStations");
insert5=new JMenuItem("Insert");
view5=new JMenuItem("View");
delete5=new JMenuItem("Delete");
MetroStations.add(insert5);
MetroStations.add(view5);
MetroStations.add(delete5);
Has_MetroStations=new JMenu("Has_MetroStations");
insert6=new JMenuItem("Insert");
view6=new JMenuItem("View");
delete6=new JMenuItem("Delete");
Has_MetroStations.add(insert6);
Has_MetroStations.add(view6);
Has_MetroStations.add(delete6);
Hotels=new JMenu("Hotels");
insert7=new JMenuItem("Insert");
view7=new JMenuItem("View");
delete7=new JMenuItem("Delete");
Hotels.add(insert7);
Hotels.add(view7);
Hotels.add(delete7);
Has_Hotels=new JMenu("Has_Hotels");
insert8=new JMenuItem("Insert");
```

```
view8=new JMenuItem("View");
delete8=new JMenuItem("Delete");
Has_Hotels.add(insert8);
Has_Hotels.add(view8);
Has_Hotels.add(delete8);
this.setVisible(true);
this.setSize(1000, 500);
this.add(panel);
this.setTitle("Hotels : Delete");
this.setJMenuBar(menubar);
this.setDefaultCloseOperation(3);
this.add(panel2,BorderLayout.PAGE_END);
panel2.add(btnHome);
panel.add(lblselecthotel);
panel.add(cmbhotels);
panel.add(lblhotel);
panel.add(txthotel);
panel.add(lbllandmark);
panel.add(txtlandmark);
panel.add(lblphonenumber);
panel.add(txtphonenumber);
panel.add(lblrating);
panel.add(txtrating);
panel.add(btndelete);
panel.add(txtmessage);
menubar.add(MyCityTable);
menubar.add(Services);
```

```
menubar.add(Tourist_Places);
menubar.add(Has_Tourist_Places);
menubar.add(MetroStations);
menubar.add(Has_MetroStations);
menubar.add(Hotels);
menubar.add(Has_Hotels);
txthotel.setEditable(false);
txtlandmark.setEditable(false);
txtphonenumber.setEditable(false);
txtrating.setEditable(false);
Landmarks=new JMenu("Landmarks");
menubar.add(Landmarks);

insert9=new JMenuItem("Insert");
view9=new JMenuItem("View");
delete9=new JMenuItem("Delete");
Landmarks.add(insert9);
Landmarks.add(view9);
Landmarks.add(delete9);
btnHome.addActionListener(new ActionListener() {

	@Override
	public void actionPerformed(ActionEvent arg0) {
		// TODO Auto-generated method stub
		new Home();
		dispose();
	}
```

```
});
insert9.addActionListener(new ActionListener() {

	@Override
	public void actionPerformed(ActionEvent arg0) {
		// TODO Auto-generated method stub
		new LandmarksInsert();
		dispose();

	}
});
view9.addActionListener(new ActionListener() {

	@Override
	public void actionPerformed(ActionEvent arg0) {
		// TODO Auto-generated method stub
		new LandmarksView();
		dispose();
	}
});
delete9.addActionListener(new ActionListener() {

	@Override
	public void actionPerformed(ActionEvent arg0) {
		// TODO Auto-generated method stub
		new LandmarksDelete();
		dispose();
```

```
                }

            });
            cmbhotels.addActionListener(new ActionListener() {

                @Override
                public void actionPerformed(ActionEvent arg0) {
                    // TODO Auto-generated method stub
                    try{

                        Class.forName("oracle.jdbc.driver.OracleDriver");

                        Connection con=DriverManager.getConnection(

        "jdbc:oracle:thin:@localhost:1521:xe","yasho","password");

                        Statement stmt=con.createStatement();

                        ResultSet rs=stmt.executeQuery("select * from
hotels where hotel_name='"+cmbhotels.getSelectedItem()+"'");
                        while(rs.next())
                        {
                            txthotel.setText(rs.getString(1));
                            txtlandmark.setText(rs.getString(2));
                            txtphonenumber.setText(rs.getString(3)+"");
                            txtrating.setText(rs.getString(4)+"");
                        }
```

```
                    con.close();

                    }catch(Exception e){ System.out.println(e);}
            }
        });
        btndelete.addActionListener(new ActionListener() {

            @Override
            public void actionPerformed(ActionEvent arg0) {
                // TODO Auto-generated method stub
                try{

                    Class.forName("oracle.jdbc.driver.OracleDriver");

                    Connection con=DriverManager.getConnection(

"jdbc:oracle:thin:@localhost:1521:xe","yasho","password");

                    Statement stmt=con.createStatement();

                    int rows=stmt.executeUpdate("delete from hotels
where hotel_name='"+cmbhotels.getSelectedItem()+"'");
                    System.out.println("yes");
                    txtmessage.setText("Deleted "+rows+" rows");
                    con.commit();
```

```
                    hotelList=new ArrayList();
                    ResultSet rs=stmt.executeQuery("select hotel_name
from hotels");
                    while(rs.next())
                        hotelList.add(rs.getString(1));
                    int count=cmbhotels.getItemCount();
                    for(int i=0;i<count;i++)
                        cmbhotels.removeItemAt(0);
                    for(int i=0;i<hotelList.size();i++)
                    {
                        cmbhotels.addItem(hotelList.get(i)+"");
                    }



                    con.close();


                    }
                    catch(Exception e)
                    {
                        System.out.println(e);
                    }
                }
            });
            insert1.addActionListener(new ActionListener() {

                @Override
                public void actionPerformed(ActionEvent e) {
```

```
                // TODO Auto-generated method stub
                new MyCityTableInsert();
                dispose();
        }
});
view1.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                new MyCityTableView();
                dispose();
        }
});
delete1.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                new MyCityTableDelete();
                dispose();
        }
});
insert2.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
```

```
                // TODO Auto-generated method stub
                new ServicesInsert();
                dispose();
        }
});
view2.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                new ServicesView();
                dispose();
        }
});
delete2.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                new ServicesDelete();
                dispose();
        }
});
insert3.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
```

```
                // TODO Auto-generated method stub
                new TouristPlacesInsert();

                dispose();
        }
});
view3.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                new TouristPlacesView();
                dispose();
        }
});
delete3.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                new TouristPlacesDelete();
                dispose();
        }
});
insert4.addActionListener(new ActionListener() {

        @Override
```

```
        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            new HasTouristPlacesInsert();
            dispose();
        }
    });
    view4.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            new HasTouristPlacesView();
            dispose();
        }
    });
    delete4.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            new HasTouristPlacesDelete();
            dispose();
        }
    });
    insert5.addActionListener(new ActionListener() {

        @Override
```

```
        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            new MetroStationsInsert();
            dispose();
        }
    });
    view5.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            new MetroStationsView();
            dispose();
        }
    });
    delete5.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            new MetroStationsDelete();
            dispose();
        }
    });
    insert6.addActionListener(new ActionListener() {

        @Override
```

```
        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            new HasMetroStationsInsert();
            dispose();
        }
    });
    view6.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            new HasMetroStationView();
            dispose();
        }
    });
    delete6.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            new HasMetroStationDelete();
            dispose();
        }
    });
    insert7.addActionListener(new ActionListener() {

        @Override
```

```
        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            new HotelsInsert();
            dispose();
        }
    });
    view7.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            new HotelsView();
            dispose();
        }
    });
    delete7.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            new HotelsDelete();
            dispose();
        }
    });
    insert8.addActionListener(new ActionListener() {

        @Override
```

```
                public void actionPerformed(ActionEvent e) {
                        // TODO Auto-generated method stub
                        new HasHotelsInsert();
                        dispose();
                }
        });
        view8.addActionListener(new ActionListener() {

                @Override
                public void actionPerformed(ActionEvent e) {
                        // TODO Auto-generated method stub
                        new HasHotelsView();
                        dispose();
                }
        });
        delete8.addActionListener(new ActionListener() {

                @Override
                public void actionPerformed(ActionEvent e) {
                        // TODO Auto-generated method stub
                        new HasHotelsDelete();
                        dispose();
                }
        });
}
public static void main(String[] args) {
        // TODO Auto-generated method stub
```

```
            new HotelsDelete();
        }

}
```

GITHUB LINK AND FOLDER STRUCTURE:

https://github.com/dyashovardhanreddy/MYCITYINFORMATION

OUTPUT :

GUI For Main Frame:

Error Messages:

Java GUI Insert in Hotels:

Update GUI for Hotels Table:

DataBase Before And After Update in Hotels:

Run SQL Command Line

```
SQL> select * from hotels;

HOTEL_NAME      LANDMARK        PHONE_NUMBER     RATING
--------------- --------------- ------------ ----------
Oyo             Abids             3214567897          9
Revolt2.0       Jubliee Hills     4569871236          8
MyChoice        M.J.Market        5656545492          7

SQL> select * from hotels;

HOTEL_NAME      LANDMARK        PHONE_NUMBER     RATING
--------------- --------------- ------------ ----------
Oyo             Abids             3214567897          9
Revolt2.0       Jubliee Hills     4569871236          8
MyChoice        M.J.Market        5656545697          7
```

GUI for Delete operation on Hotels Table:

DataBase Before and After Delete:

Application Interfaces for this project:

MYCITY
Metro Station
Hotels
Home
City:
Near By:
Tourit Places:
Rating

MYCITY
TouristPlaces
Hotels
Home
City: hyderabad
Near By: Ameerpet
Metro Station: Ameerpet M.S
Timmings 7a.m-11.30p.m

DISCUSSION AND FUTURE WORK!

This project tells about different services like metro stations , hotels , restaurants , tourist places in the specific area . In future it can be further developed by adding more number of services and also we can add a feature of getting distance from specific landmark to metro stations , hotels , restaurants , tourist places and many more services.

REFERENCES:

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