# AJP Micro-Project Report Travel Management Application

#### 1. Rational:

Advanced Java is designed to develop web-based, network-centric or enterprise applications. It includes the concepts like <u>Servlet</u>, Swing, JDBC, Networking, etc. It is a specialization in specific domain. Most of the applications developed using advance Java uses tow-tier architecture i.e. Client and Server. All the applications that run on Server can be considered as advance Java applications. JEE (advance Java) provides libraries to understand the concept of Client-Server architecture for web-based applications. We can also work with web and application servers such as Apache Tomcat and Glassfish Using these servers, we can understand the working of HTTP protocol. JDBC is one of the major concepts covered in Advance java. JDBC stands for Java Database Connectivity. JDBC is a Java API to connect and execute the query with the database. It is a part of JavaSE (Java Standard Edition). JDBC API uses JDBC drivers to connect with the database.

#### 2. Aims of the Micro-Project:

To Java is an object-oriented programming language. In Advance Java Programming language we will learn to create GUI using Applet and Swing, and even to connect database and store the data dynamically.

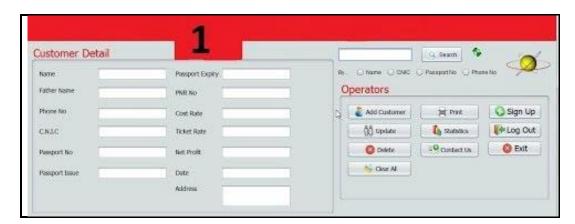
#### **\*** Benefits of project are:

- 1. We can understand a fundamental understanding of how Java works with respect to Event handling.
- 2. We will learn to use Applets and some basic Swing components.
- 3. Travel Management enables us to accept input dynamically.
- 4. This can be implemented in real life system.

#### 3. Course Outcomes Addressed:

- 1. Develop programs using GUI Framework (AWT and Swing).
- 2. Develop programs to handle events in Java Programming.
- 3. Develop programs using database.

#### 4. Literature Review:





## 5. Actual Methodology followed:

- 1. Finalizing the topic and preparing proposal.
- 2. Collecting Information:-

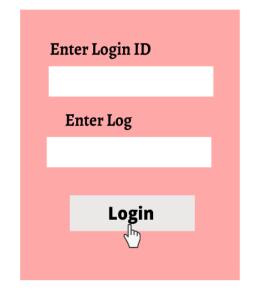
Referred various websites of Indian tourism and observed how they manage Tourism process.

# 3. Designing of screens and databases

**Home Page** 



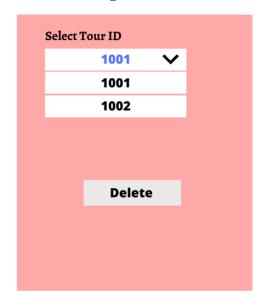
Sing up Page



**Insert Page** 



**Delete Page** 



#### **Database (Design View)**

<b>details</b>				
	Field Name	Data Type		
P	id	Number		
	name	Text		
	number	Number		
	place	Text		
	total	Number		

#### 4. Coding for business logics:-

```
import java.sql.*;
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;
import java.io.IOException;
public class tour extends JFrame implements ActionListener, ItemListener
    int jid=0;
Connection con:
JTextField itxtid;
JTextField itxtname;
JTextField itxtno;
JTextField itxtplace;
JTextField itxttotal:
JTextField txtn;
JPasswordField txtpass;
JButton ibtnInsert,ibtnModify,ibtnDelete,singup,register,home;
JLabel 11,12,13,il1,il2,il3,il4,il5,sl6,inl6,dl6;
JButton login, insert, delete;
JComboBox jc;
public tour()
11=new JLabel("<html><i style='color:blue;'>new<br/></i></html>");
11=new JLabel();
12=new JLabel();
13=new JLabel();
ill=new JLabel("<html><b style='font-size: 15px;'>"+"Enter Your Tour Id:"+"</b></html>");
il2=new JLabel("<html><b style='font-size: 15px;'>Enter your Name:</b></html>");
il3= new JLabel("<html><b style='font-size: 15px;'>Enter your Number:</b></html>");
il4= new JLabel("<html><b style='font-size: 15px;'>Enter your Place:</b></html>");
il5=new JLabel("<html><b style='font-size: 15px; padding:25px'>Enter Total Cost</b></html>");
sl6=new JLabel();
```

```
inl6=new JLabel();
dl6=new JLabel();
txtn= new JTextField(20);
txtn.setVisible(false);
txtpass= new JPasswordField(20);
txtpass.setVisible(false);
itxtid= new JTextField(20);
itxtname=new JTextField(20);
itxtno=new JTextField(20);
itxtplace=new JTextField(20);
itxttotal=new JTextField(20);
login = new JButton("
                                   Login
                                                      ");
jc= new JComboBox();
ic.setVisible(false);
login.setVisible(false);
//singup = new JButton("Sing Up");
home = new JButton("
                                  Home
                                                  ");
//home.setVisible(false);
register = new JButton("
                                     Register as User
                                                                   ");
ibtnInsert = new JButton("
                                       Insert Record
                                                                  ");
//ibtnModify = new JButton("Modify Record");
ibtnDelete = new JButton("
                                        Delete Record
                                                                   ");
singup = new JButton("
                                    Sing Up
                                                         ");
insert = new JButton("
                                   Insert
delete = new JButton("
                                   Delete
                                                        ");
ibtnDelete.setVisible(false);
            ibtnInsert.setVisible(false);
            register.setVisible(false);
            ill.setVisible(false);
            home.setVisible(false);
            jc.setVisible(false);
            il2.setVisible(false);
            il3.setVisible(false);
            il4.setVisible(false);
            il5.setVisible(false);
            itxtid.setVisible(false);
            itxtname.setVisible(false);
            itxtno.setVisible(false);
            itxtplace.setVisible(false);
            itxttotal.setVisible(false);
setLayout(new FlowLayout());
//add(sing);
add(singup);
add(insert);
add(delete);
add(home);
add(11);
add(txtn);
add(12);
```

```
add(txtpass);
add(login);
add(13);
//add(register);
add(il1);
add(jc);
add(itxtid);
add(il2);
add(itxtname);
add(il3);
add(itxtno);
add(il4);
add(itxtplace);
add(il5);
add(itxttotal);
add(ibtnInsert);
//add(ibtnModify);
add(ibtnDelete);
add(sl6);
add(inl6);
add(dl6);
singup.addActionListener(this);
login.addActionListener(this);
home.addActionListener(this);
insert.addActionListener(this);
delete.addActionListener(this);
//register.addActionListener(this);
ibtnInsert.addActionListener(this);
//ibtnModify.addActionListener(this);
ibtnDelete.addActionListener(this);
jc.addItemListener(this);
try
    Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
    System.out.println("Driver registered successfully");
    catch(Exception e2)
    System.out.println("Error in driver registration...");
}
public void itemStateChanged(ItemEvent e)
    try
    jid=Integer.parseInt(jc.getSelectedItem().toString());
    Statement st1=con.createStatement();
    ResultSet rs= st1.executeQuery("select name,no,place,total from details where id="+jid);
            while(rs.next())
```

```
//name=rs.getString(1);
            //no=Integer.parseInt(rs.getString(2));
            //place=rs.getString(3);
            //total=Integer.parseInt(rs.getString(4));
    //txtename.setText(enm);
    //txtsal.setText(Integer.toString(sal));
    catch(SQLException e3)
    {}
}
public void actionPerformed(ActionEvent e)
if(e.getSource() == home){
//con=DriverManager.getConnection("jdbc:odbc:newc");
txtn.setVisible(false);
            txtpass.setVisible(false);
            login.setVisible(false);
            home.setVisible(true);
            11.setVisible(false);
            12.setVisible(false);
            13.setVisible(false);
            singup.setVisible(true);
            insert.setVisible(true);
            delete.setVisible(true);
            register.setVisible(false);
            home.setVisible(false);
            ibtnDelete.setVisible(false);
            ibtnInsert.setVisible(false);
            //singup.setVisible(false);
            register.setVisible(false);
            il1.setVisible(false);
            il2.setVisible(false);
            il3.setVisible(false);
            il4.setVisible(false);
            il5.setVisible(false);
            itxtid.setVisible(false);
            itxtname.setVisible(false);
            itxtno.setVisible(false);
            itxtplace.setVisible(false);
            itxttotal.setVisible(false);
            ic.setVisible(false);
            sl6.setVisible(false);
            inl6.setVisible(false);
            dl6.setVisible(false);
}
```

```
if(e.getSource() == delete){
//con=DriverManager.getConnection("jdbc:odbc:newc");
txtn.setVisible(false);
            txtpass.set Visible (false);\\
            login.setVisible(false);
            home.setVisible(true);
            11.setVisible(false);
            12.setVisible(false);
            13.setVisible(false);
            singup.setVisible(false);
            insert.setVisible(false);
            delete.setVisible(false);
            register.setVisible(false);
            home.setVisible(true);
            ibtnDelete.setVisible(true);
            ibtnInsert.setVisible(false);
            //singup.setVisible(false);
            register.setVisible(false);
            il1.setVisible(true);
            jc.setVisible(true);
            il2.setVisible(false);
            il3.setVisible(false);
            il4.setVisible(false);
            il5.setVisible(false);
            itxtid.setVisible(false);
            itxtname.setVisible(false);
            itxtno.setVisible(false);
            itxtplace.setVisible(false);
            itxttotal.setVisible(false);
            try
                             Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
            System.out.println("Driver registered successfully");
            con=DriverManager.getConnection("idbc:odbc:newc");
     Statement st= con.createStatement();
    ResultSet rs1= st.executeQuery("select id from details");
                     while(rs1.next())
                     String a=rs1.getString(1);
                    jc.addItem(a);
    catch(Exception e2)
    System.out.println("Error in driver registration...");
}
if(e.getSource() == singup){
    //con=DriverManager.getConnection("jdbc:odbc:newc");
```

```
txtn.setVisible(true);
            txtpass.setVisible(true);
            login.setVisible(true);
            home.setVisible(true);
            insert.setVisible(false);
            delete.setVisible(false);
            ibtnDelete.setVisible(false);
            ibtnInsert.setVisible(false);
            singup.setVisible(false);
            register.setVisible(false);
            il1.setVisible(false);
            il2.setVisible(false);
            il3.setVisible(false);
            il4.setVisible(false);
            il5.setVisible(false);
            itxtid.setVisible(false);
            itxtname.setVisible(false);
            itxtno.setVisible(false);
            itxtplace.setVisible(false);
            itxttotal.setVisible(false);
            11.setText("<html><b style='font-size: 15px; padding:25px'>Enter User
    ID<b></html>");
            12.setText("<html><b style='font-size: 15px; padding:25px'>Enter
    Password<b></html>");
            11.setVisible(true);
            12.setVisible(true);
            13.setVisible(true);
if(e.getSource() == insert){
il1.setVisible(true);
            il2.setVisible(true);
            il3.setVisible(true);
            il4.setVisible(true);
            il5.setVisible(true);
            itxtid.setVisible(true);
            itxtname.setVisible(true);
            itxtno.setVisible(true);
            itxtplace.setVisible(true);
            itxttotal.setVisible(true);
            ibtnInsert.setVisible(true);
            home.setVisible(true);
            singup.setVisible(false);
            insert.setVisible(false);
            delete.setVisible(false);
if(e.getSource() == login){
```

}

}

```
txtn.setVisible(true);
            txtpass.setVisible(true);
            login.setVisible(true);
            home.setVisible(true);
            ibtnDelete.setVisible(false);
            ibtnInsert.setVisible(false);
            singup.setVisible(false);
            register.setVisible(false);
            il1.setVisible(false);
            il2.setVisible(false);
            il3.setVisible(false);
            il4.setVisible(false);
            il5.setVisible(false);
            itxtid.setVisible(false);
            itxtname.setVisible(false);
            itxtno.setVisible(false);
            itxtplace.setVisible(false);
            itxttotal.setVisible(false);
            11.setText("Enter User ID");
            12.setText("Enter Password");
            11.setText("Enter User ID");
            12.setText("Enter Password");
            String uid= txtn.getText();
     String pwd1=txtpass.getText();
            try
    con=DriverManager.getConnection("jdbc:odbc:newc");
PreparedStatement ps= con.prepareStatement("select count(*) from login where userid=? and
    password=?");
    ps.setString(1,uid);
    ps.setString(2,pwd1);
    ResultSet rs=ps.executeQuery();
int n=0;
while(rs.next())
n=Integer.parseInt(rs.getString(1));
if(n!=0)
    sl6.setText("Logged in successfully");
else
    sl6.setText("Not a valid user");
    con.close();
    catch(SQLException e1)
    {}
```

```
if(e.getSource() == ibtnInsert){
    try
int id=Integer.parseInt(itxtid.getText());
String name=itxtname.getText();
int no=Integer.parseInt(itxtno.getText());
String place=itxtplace.getText();
int total=Integer.parseInt(itxttotal.getText());
    con=DriverManager.getConnection("jdbc:odbc:newc");
PreparedStatement ps= con.prepareStatement("insert into details values(?,?,?,?,?)");
    ps.setInt(1,id);
    ps.setString(2,name);
    ps.setInt(3,no);
    ps.setString(4,place);
    ps.setInt(5,total);
    ps.executeUpdate();
    inl6.setVisible(true);
    inl6.setText("Record Sucessfully inserted");
    con.close();
    catch(SQLException e1)
    inl6.setText("Error in inserting Rechord");
}
if(e.getSource() == ibtnDelete){
try
                            Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
            System.out.println("Driver registered successfully");
            con=DriverManager.getConnection("jdbc:odbc:newc");
    Statement st= con.createStatement();
    ResultSet rs1= st.executeQuery("select id from details");
                    while(rs1.next())
                    String a=rs1.getString(1);
                    jc.addItem(a);
    catch(Exception e2)
    System.out.println("Error in driver registration...");
    try
    con=DriverManager.getConnection("jdbc:odbc:newc");
    13.setVisible(true);
    13.setText("Select your tour ID");
    dl6.setVisible(true);
```

```
PreparedStatement ps= con.prepareStatement("delete from details where id=?");
    ps.setInt(1,jid);
    ps.executeUpdate();
    dl6.setText("Record Sucessfully deleted");
    con.close();
    }
    catch(SQLException e1)
    {
        dl6.setText("Error in deleting Rechord");
     }
}

public static void main(String args[])
{
        tour f1= new tour();
        f1.setSize(285,430);
        f1.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        f1.getContentPane().setBackground(Color.PINK);
        f1.setVisible(true);
}
```

- 5. Testing with various inputs
- 6. Implementation

#### 6. Resources Required:

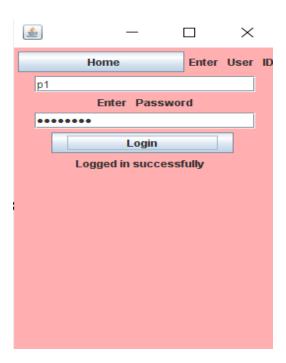
Sr.no	Name of Resources	Specifications	Qty	Remarks
1	Computer System	Intel corei3 7 <sup>th</sup> gen, Windows	1	-
		10		
2	Software	JDK 1.6 & MS Access 2007	-	-
3.	References	AJP Notes	-	-

# 7. Output of the Moicro-Project:

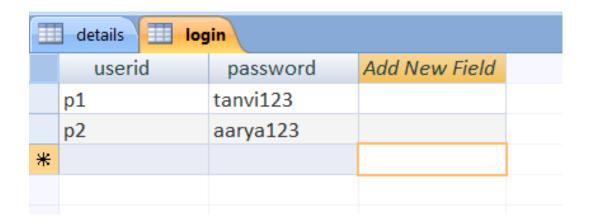
# Home page



# Sing up page



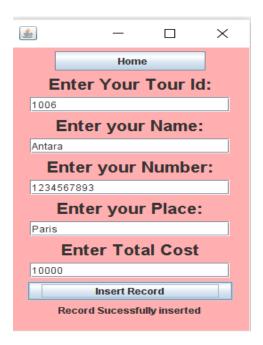
# **Database Login Details**



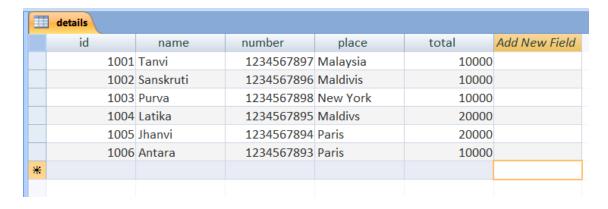
## **Database Tour Details**

	details					
	id	name	number	place	total	A
	1001	Tanvi	1234567897	Malaysia	10000	
	1002	Sanskruti	1234567896	Maldivis	10000	
	1003	Purva	1234567898	New York	10000	
	1004	Latika	1234567895	Maldivs	20000	
	1005	Jhanvi	1234567894	Paris	20000	
*						

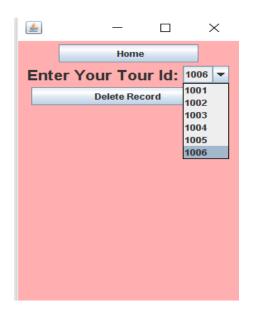
## **Insert Page**



#### **Record Inserted in Database**

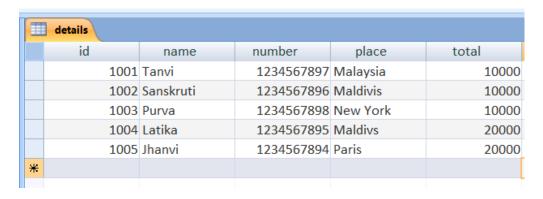


## **Delete Page**





## **Database Deleted Page**



## 8. Skill Develop:

We learned to develop Application using Advance java and store & retrieve information using SQL commands and Microsoft Access

# 9. Application

Used as real world application for Tour booking system Application

#### 10. Names of Team Members with Roll No: -

Sr. No.	Roll no	Name
1.	54	Tanvi Vijay Chiman