

RUP LAB MINI PROJECT

PROJECT REPORT

SKYGO

Synopsis:

Our project aims at developing a simple User friendly application using Visual Studio for booking air, bus and train tickets. The application can be used to initially select a mode of transport and then enter the required details such as the required date and source and destination to find the cheapest tickets available for the same.

The application's User interface or front end is developed on Visual studio 2012 using C# where we have implemented various functionalities. The backend is managed on Oracle Sql database which has all the required tables with information about users, flights, trains and the travel history of the users.

Flow:

- Register by giving the required personal details.
- Login using the appropriate details.
- Select mode of transport.
- Specify requirements.

- Select flight.
- Confirm Details.
- Select mode of payment
- Enter details.
- Confirm details.
- Confirm booking.
- Logout and book another ticket.

1. Cyclomatic Complexity:

(i). Checking Log_In

```

all initializations                                     //0

if (textBox1.Text == Register.SetValueForText2 && textBox2.Text ==
Register.SetValueForText3)                             //1 && //2
{
    this.Hide();                                       //3
    ChooseMode frm1 = new ChooseMode();
    frm1.Show();
}
else if(textBox1.Text==Register.SetValueForText2 &&

```

```

textBox2.Text== ForgotPass.SetValueForText4)           //4 && //5

    {

        this.Hide();                                     //6
        ChooseMode frm2 = new ChooseMode();
        frm2.Show();

    }

else                                                     //7

{

    MessageBox.Show("Wrong username or password");

}

try                                                     //8

{

    connect1();

    comm = new OracleCommand();

    comm.Connection = conn;

    //MessageBox.Show("conn");

    //comm.CommandText = "execute login(username,
password);";

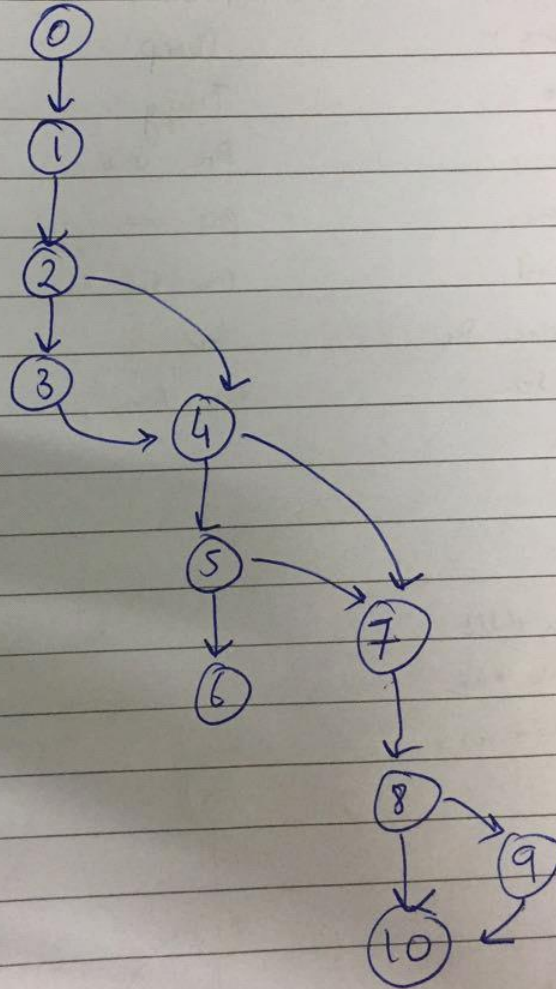
    //MessageBox.Show("conn");

    //int value = (int)comm.ExecuteScalar();

```

```
comm.CommandType = CommandType.Text;
comm.ExecuteNonQuery();
this.Hide();
ChooseMode frm = new ChooseMode();
frm.Show();
conn.Close();
}
catch (Exception ew)
{
    Console.WriteLine("error" + ew);
}

end
```

1LOG - IN

(ii). To check mode of payment:

all initializations **//0**

if (radioButton1.Checked == true) **//1**

{

 this.Hide(); **//2**

 Train frm = new Train();

 frm.Show();

}

else if (radioButton2.Checked == true) **//3**

{

 this.Hide(); **//4**

 Bus frm1 = new Bus();

 frm1.Show();

}

else **//5**

{

 this.Hide();

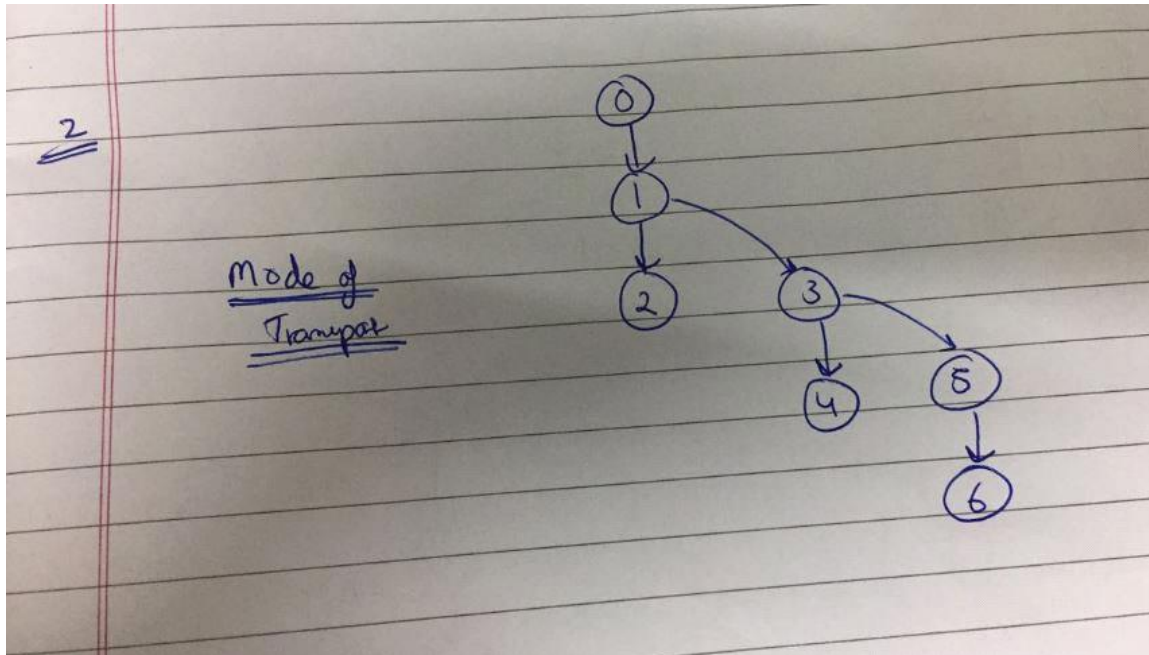
 Flight frm2 = new Flight();

 frm2.Show();

}

end

//6



2. Unit Testing:

Sr.no	Test Case Description	Pass	Reason for fail
1	Test whether entering wrong details stops flow.	Yes	
2	Test whether new password can be updated in case user forgets	Yes	
3	Test if user gets registered with incomplete details	No	All the required fields need to be

			entered.
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3. Integration Test:

Sr.no	Test Case Description	Pass	Reason for fail
1	Test whether all details stored in the required database on registration	Yes	
2	Test the integration of details being passed from booking page to confirmation page	Yes	
3	Test whether all the payment details such as mode and amount are rightly passed onto the portal and then for confirmation	Yes	

4.System Testing:

Sr.no	Test Case Description	Pass	Reason for fail
1	Test whether successfully logs in and logs out user accordingly	Yes	
2	Test whether resetting password has multilevel verification	No	OTP or Security question cannot be implemented in this project.
3	Test the integration of all databases, project forms, docs and ensure sure operation between user and application	Yes	

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