### Chapter-3: Systems Development & Implementation

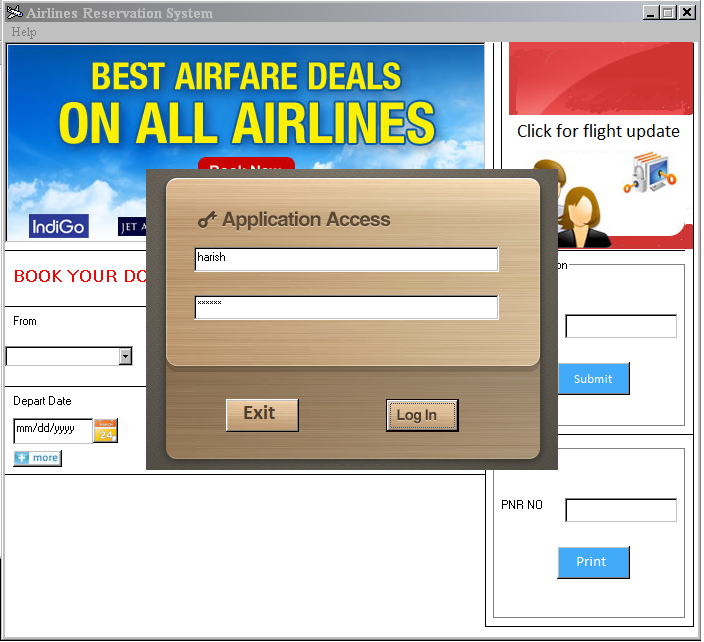
The basic purpose of designing & implementing the proposed system is to automate the process of day-to-day activities like searching the customer details, ticket reservation, ticket cancellation, generate ticket. The manual handling of the record is time consuming & highly prone to errors.

The complete set of rules & procedures related to sports club management for day to day activities is the basis for our system. Our project gives a brief idea regarding automated airline reservation system.

**3.1 Program Development**

**3.1.1 LOGIN FORM**

**Output:**



**Code:**

Dim db As New ADODB.Connection

Dim rs As New ADODB.Recordset

Private Sub back\_Click()

End

End Sub

Private Sub Command1\_Click()

Dim i As Integer

i = 0

On Error GoTo err\_h:

If rs.BOF Then

MsgBox "currently no password is added in database .. use master password", vbInformation

Exit Sub

End If

If Text1.Text = "" Then

Image1.Picture = ImageList.ListImages(4).Picture

Image1.Visible = True

End If

If Text2.Text = "" Then

Image2.Picture = ImageList.ListImages(4).Picture

Image2.Visible = True

End If

rs.MoveFirst

Do While Not rs.EOF

If Text1.Text = rs.Fields(0).Value Then

Image1.Picture = ImageList.ListImages(3).Picture

Image1.Visible = True

i = 1

If Text2.Text = rs.Fields(1).Value Then

login\_uname = rs.Fields(0).Value

login\_passwd = rs.Fields(1).Value

Form1.Visible = True

Text1.Text = ""

Text2.Text = ""

Form5.Visible = False

Exit Sub

Else

Image2.Picture = ImageList.ListImages(4).Picture

Image2.Visible = True

End If

Else

Image1.Picture = ImageList.ListImages(4).Picture

Image1.Visible = True

End If

rs.MoveNext

Loop

If i = 1 Then

Image1.Picture = ImageList.ListImages(3).Picture

Image1.Visible = True

End If

Exit Sub

err\_h:

MsgBox "contect to your admin or not connected to database"

End Sub

Private Sub Form\_Load()

On Error GoTo err\_h:

Open "database\_connectivity.dat" For Binary As #1

Get #1, , user\_name

Get #1, , pass\_word

Close #1

Text1.TabIndex = 0

Picture1.Picture = ImageList.ListImages(1).Picture

Command1.Picture = ImageList.ListImages(2).Picture

Image1.Picture = ImageList.ListImages(3).Picture

Image2.Picture = ImageList.ListImages(4).Picture

back.Picture = ImageList.ListImages(5).Picture

db.ConnectionString = "dsn=airlines\_data;uid=" & user\_name & ";pwd=" & pass\_word & " "

db.Open

rs.Open "select \* from login", db, adOpenDynamic, adLockOptimistic, adCmdText

Exit Sub

err\_h:

MsgBox "currently no password is added in database ", vbInformation

End Sub

Private Sub Text1\_GotFocus()

Image1.Visible = False

End Sub

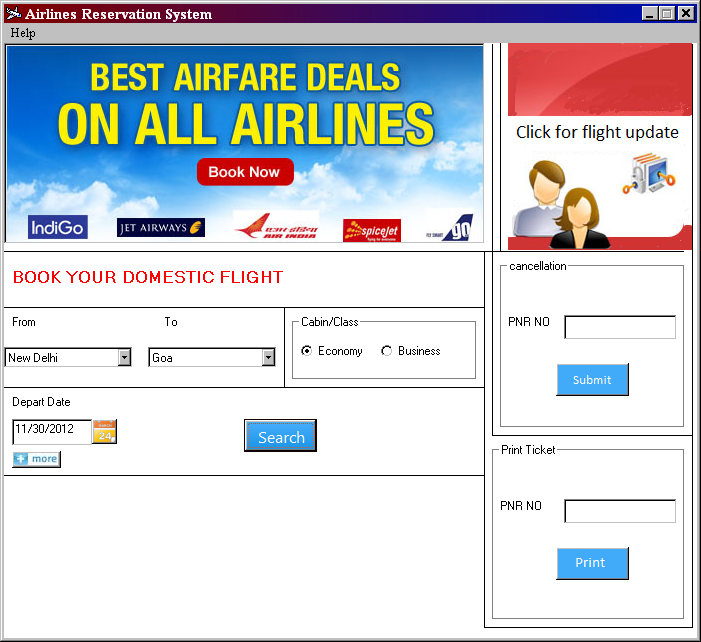
Private Sub Text2\_GotFocus()

Image2.Visible = False

End Sub

**3.1.2 MAIN FORM**

**Output:**



**Code:**

Dim strSQL As String

Dim i As Integer

Dim time As Integer

Private Sub about\_Click()

frmAbout.Show

End Sub

Private Sub business\_cabin\_Click()

Image6.Visible = False

cabin = "business"

End Sub

Private Sub Calendar1\_Click()

Dim temp As Integer

temp = 0

If Calendar1.year < DatePart("yyyy", Now) Then

MsgBox "Wrong Date", vbInformation

temp = 1

Else

If Calendar1.month < DatePart("m", Now) And Calendar1.year <= DatePart("yyyy", Now) Then

MsgBox "Wrong Date", vbInformation

temp = 1

Exit Sub

End If

If Calendar1.day < DatePart("d", Now) And Calendar1.month <= DatePart("m", Now) And

Calendar1.year <= DatePart("yyyy", Now) Then

MsgBox "Wrong Date", vbInformation

temp = 1

End If

End If

If temp = 0 Then

text1.Text = ""

text1.Text = Calendar1.Value

Calendar1.Visible = False

Else

text1.Text = "mm/dd/yyyy"

End If

End Sub

Private Sub Command1\_Click()

If Calendar1.Visible = True Then

Calendar1.Visible = False

Else

Calendar1.Visible = True

End If

End Sub

Private Sub Command1\_GotFocus()

Image7.Visible = False

End Sub

Private Sub Command2\_Click()

On Error GoTo err\_h:

If Text2.Text = "" Then

Image2.Visible = True

Exit Sub

End If

pnr\_cancel = Text2.Text

Load Form4

If pnr\_cancel = "notfound" Then

Image3.Visible = True

Unload Form4

Exit Sub

End If

Exit Sub

err\_h:

MsgBox "error occureed while connecting to the database", vbExclamation

End Sub

Private Sub Command3\_Click()

On Error GoTo err\_h:

If Text3.Text = "" Then

Image9.Visible = True

Exit Sub

End If

Dim db As New ADODB.Connection

Dim rs As New ADODB.Recordset

Dim rs1 As New ADODB.Recordset

db.ConnectionString = "dsn=airlines\_data;uid=" & user\_name & ";pwd=" & pass\_word & " "

db.Open

rs.Open "select \* from cust\_data where pnr\_no = '" & Text3.Text & "' ", db, adOpenDynamic, adLockOptimistic, adCmdText

If rs.EOF Then

Image8.Visible = True

Else

rs1.Open "select \* from flight\_data where flight\_no = '" & rs.Fields("flight\_no") & "' ", db, adOpenDynamic, adLockOptimistic, adCmdText

going\_from = rs1.Fields("depart\_city")

going\_to = rs1.Fields("arrival\_city")

depart\_date = rs1.Fields("depart\_Date")

cabin = rs.Fields("cabin")

flight\_no = rs.Fields("flight\_no")

first\_name = rs.Fields("first\_name")

last\_name = rs.Fields("last\_name")

pnr\_no = rs.Fields("pnr\_no")

If (0 = StrComp(cabin, "economy")) Then

price = rs1.Fields("eco\_price")

Else

price = rs1.Fields("busi\_price")

End If

depart\_hour = rs1.Fields("depart\_hour")

depart\_minute = rs1.Fields("depart\_minute")

rs1.Close

rs.Close

db.Close

dup\_ticket = "true"

Load Form7

Form7.Visible = True

End If

Exit Sub

err\_h:

MsgBox "error occureed while connecting to the database", vbExclamation

End Sub

Private Sub Command4\_Click()

If Frame4.Visible = True Then

Frame4.Visible = False

Command4.Picture = ImageList.ListImages(12).Picture

Exit Sub

End If

Image10.Visible = True

Option1.Value = True

Command4.Picture = ImageList.ListImages(13).Picture

Timer2.Enabled = True

Option2.Value = True

End Sub

Private Sub Command5\_Click()

Load Form9

End Sub

Private Sub economy\_cabin\_Click()

Image6.Visible = False

cabin = "economy"

End Sub

Private Sub exit\_Click()

Unload Form1

Unload Form2

Unload Form3

Unload Form4

Unload Form5

Unload Form6

Unload Form7

Unload Form8

Unload frmAbout

Unload frmSplash

End Sub

Private Sub Form\_Click()

Calendar1.Visible = False

End Sub

Private Sub Form\_Load()

Image2.Picture = ImageList.ListImages(7).Picture

Image4.Picture = ImageList.ListImages(7).Picture

Image5.Picture = ImageList.ListImages(7).Picture

Image6.Picture = ImageList.ListImages(7).Picture

Image7.Picture = ImageList.ListImages(7).Picture

Image9.Picture = ImageList.ListImages(7).Picture

Image3.Picture = ImageList.ListImages(8).Picture

Image8.Picture = ImageList.ListImages(8).Picture

Command1.Picture = ImageList.ListImages(9).Picture

show\_flight\_button.Picture = ImageList.ListImages(10).Picture

Image10.Picture = ImageList.ListImages(11).Picture

Image11.Picture = ImageList.ListImages(11).Picture

Command4.Picture = ImageList.ListImages(12).Picture

Command2.Picture = ImageList.ListImages(14).Picture

Command3.Picture = ImageList.ListImages(15).Picture

Image1.Picture = ImageList.ListImages(16).Picture

Image12.Picture = ImageList.ListImages(17).Picture

Calendar1.Visible = False

time = 10

Picturebox.Picture = ImageList.ListImages(2).Picture

Open "database\_connectivity.dat" For Binary As #1

Get #1, , user\_name

Get #1, , pass\_word

Close #1

Calendar1.Value = Date

End Sub

Private Sub from\_box\_GotFocus()

Image4.Visible = False

Image12.Visible = False

End Sub

Private Sub helpbackup\_Click()

Shell "winhlp32.exe -i backup help1.hlp"

End Sub

Private Sub helpbook\_Click()

Shell "winhlp32.exe -i booking help1.hlp"

End Sub

Private Sub helpcancel\_Click()

Shell "winhlp32.exe -i cancel help1.hlp"

End Sub

Private Sub helpchange\_Click()

Shell "winhlp32.exe -i uidpassword help1.hlp"

End Sub

Private Sub helpconnection\_Click()

Shell "winhlp32.exe -i connect help1.hlp"

End Sub

Private Sub helpdatabase\_Click()

Shell "winhlp32.exe -i deletion help1.hlp"

End Sub

Private Sub helphelp\_Click()

Shell "winhlp32.exe help1.hlp"

End Sub

Private Sub helpmaster\_Click()

Shell "winhlp32.exe -i masterpassword help1.hlp"

End Sub

Private Sub helpreprint\_Click()

Shell "winhlp32.exe -i reprint help1.hlp"

End Sub

Private Sub helptreeview\_Click()

Shell "winhlp32.exe -i treeview help1.hlp"

End Sub

Private Sub helpupdate\_Click()

Shell "winhlp32.exe -i update help1.hlp"

End Sub

Private Sub Image1\_Click()

Form6.Visible = True

End Sub

Private Sub Option1\_GotFocus()

strSQL = "SELECT \* FROM flight\_Data"

Call show\_database

End Sub

Private Sub Option2\_Click()

strSQL = "SELECT \* FROM cust\_data"

Call show\_database

End Sub

Private Sub show\_flight\_button\_Click()

i = 0

Call check\_all\_fill

If i = 0 Then

going\_from = from\_box.Text

going\_to = to\_box.Text

depart\_date = text1.Text

Image11.Visible = True

Timer3.Enabled = True

Exit Sub

End If

End Sub

Private Sub Text2\_Click()

Image2.Visible = False

Image3.Visible = False

End Sub

Private Sub Text3\_Click()

Image8.Visible = False

Image9.Visible = False

End Sub

Public Function check\_all\_fill()

If from\_box.Text = "" Then

i = 1

Image4.Visible = True

End If

If to\_box.Text = "" Then

i = 1

Image5.Visible = True

End If

If text1.Text = "mm/dd/yyyy" Then

i = 1

Image7.Visible = True

End If

If economy\_cabin.Value = False And business\_cabin.Value = False Then

i = 1

Image6.Visible = True

End If

If from\_box.Text = to\_box.Text And from\_box.Text <> "" Then

i = 1

Image12.Visible = True

End If

End Function

Private Sub Timer2\_Timer()

Frame4.Visible = True

Image10.Visible = False

Timer2.Enabled = False

End Sub

Private Sub Timer3\_Timer()

On Error GoTo err\_h:

Form1.Visible = False

Form2.Visible = True

Image11.Visible = False

Timer3.Enabled = False

Exit Sub

err\_h:

Form1.Visible = True

Image11.Visible = False

Timer3.Enabled = False

MsgBox "error occureed while connecting to the database", vbExclamation

End Sub

Private Sub to\_box\_GotFocus()

Image5.Visible = False

Image12.Visible = False

End Sub

Public Function show\_database()

Dim oconn As New ADODB.Connection

Dim rs As New ADODB.Recordset

On Error GoTo err\_h:

oconn.ConnectionString = "dsn=airlines\_data;uid=" & user\_name & ";pwd=" & pass\_word & " "

oconn.Open

rs.CursorType = adOpenStatic

rs.CursorLocation = adUseClient

rs.LockType = adLockOptimistic

rs.Open strSQL, oconn, , , adCmdText

Set DataGrid1.DataSource = rs

Exit Function

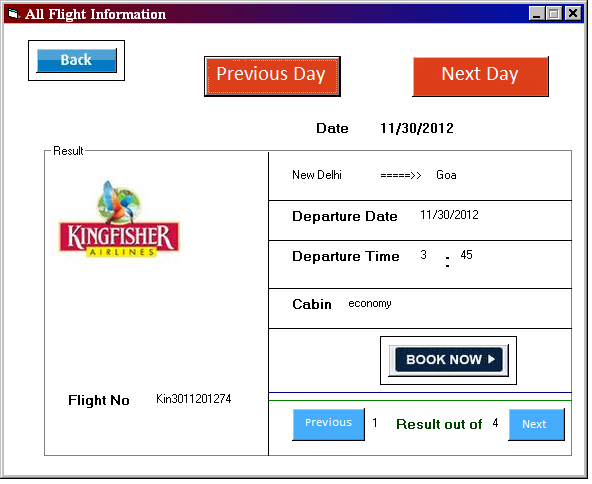
err\_h:

MsgBox "error is occured while connecting to database", vbExclamation

End Function

**3.1.3 All FLIGHT INFORMATION FORM**

**Output:**



**Code:**

Dim count\_no As Integer

Dim val As Integer

Dim db As New ADODB.Connection

Dim rs As New ADODB.Recordset

Private Sub book\_now\_Click()

flight\_company = rs("flight\_company").Value

flight\_no = rs("flight\_no").Value

depart\_hour = rs("depart\_hour").Value

depart\_minute = rs("depart\_minute").Value

db.Close

Form3.Visible = True

Unload Me

End Sub

Private Sub Command1\_Click()

rs.Close

db.Close

Form1.Visible = True

Unload Me

End Sub

Private Sub Command2\_Click()

If Command3.Enabled = False Then

Command3.Enabled = True

End If

If val + 1 = count\_no Then

Command2.Enabled = False

End If

Form2.Refresh

val = val + 1

Label7.Caption = val

rs.MoveNext

Call show\_data

End Sub

Private Sub Command3\_Click()

If Command2.Enabled = False Then

Command2.Enabled = True

End If

rs.MoveFirst

val = 1

Label7.Caption = val

Call show\_data

Command3.Enabled = False

End Sub

Private Sub Form\_Load()

Command1.Picture = ImageList.ListImages(1).Picture

previous\_day.Picture = ImageList.ListImages(2).Picture

next\_day.Picture = ImageList.ListImages(3).Picture

Command3.Picture = ImageList.ListImages(4).Picture

Command2.Picture = ImageList.ListImages(5).Picture

book\_now.Picture = ImageList.ListImages(6).Picture

On Error GoTo err\_h:

db.ConnectionString = "dsn=airlines\_data;uid=" & user\_name & ";pwd=" & pass\_word & " "

db.Open

rs.Open "select \* from flight\_data", db, adOpenDynamic, adLockOptimistic, adCmdText

db.Properties.Refresh

rs.Properties.Refresh

Call start\_searching

Exit Sub

err\_h:

Unload Form2

End Sub

Public Function check\_flight()

If 0 = StrComp(going\_from, rs("depart\_city").Value) Then

If 0 = StrComp(going\_to, rs("arrival\_city").Value) Then

If 0 = StrComp(depart\_date, rs("depart\_date").Value) Then

If (0 = StrComp(cabin, "economy")) And rs("eco\_no\_of\_seat").Value >= 1 Then

count\_no = count\_no + 1

rs.MoveNext

Exit Function

Else

If (0 = StrComp(cabin, "business")) And (rs("busi\_no\_of\_seat").Value >= 1) Then

count\_no = count\_no + 1

rs.MoveNext

Exit Function

End If

rs.MoveNext

Exit Function

End If

Else

rs.MoveNext

Exit Function

End If

Else

rs.MoveNext

Exit Function

End If

Else

rs.MoveNext

Exit Function

End If

End Function

Public Function show\_data()

Do While (Not rs.EOF)

If 0 = StrComp(going\_from, rs("depart\_city").Value) Then

If 0 = StrComp(going\_to, rs("arrival\_city").Value) Then

If 0 = StrComp(depart\_date, rs("depart\_date").Value) Then

If (0 = StrComp(cabin, "economy")) And (rs("eco\_no\_of\_seat").Value >= 1) Then

Label1.Caption = rs("flight\_no").Value

Label2.Caption = going\_from

Label4.Caption = going\_to

Label5.Caption = depart\_date

Label6.Caption = rs("depart\_hour").Value

Label11.Caption = rs("depart\_minute").Value

Label16.Caption = cabin

price = rs("eco\_price").Value

Call show\_images

Exit Function

Else

If (0 = StrComp(cabin, "business")) And (rs("busi\_no\_of\_seat").Value >= 1) Then

Label1.Caption = rs("flight\_no").Value

Label2.Caption = going\_from

Label4.Caption = going\_to

Label5.Caption = depart\_date

Label6.Caption = rs("depart\_hour").Value

Label11.Caption = rs("depart\_minute").Value

Label16.Caption = cabin

price = rs("busi\_price").Value

Call show\_images

Exit Function

Else

rs.MoveNext

End If

End If

Else

rs.MoveNext

End If

Else

rs.MoveNext

End If

Else

rs.MoveNext

End If

Loop

End Function

Public Function show\_images()

Select Case rs("flight\_company").Value

Case "Jet Airways"

Image1.Picture = ImageList.ListImages(7).Picture

Case "Indigo"

Image1.Picture = ImageList.ListImages(8).Picture

Case "KingFisher"

Image1.Picture = ImageList.ListImages(9).Picture

Case "SpiceJet"

Image1.Picture = ImageList.ListImages(10).Picture

Case "AirIndia"

Image1.Picture = ImageList.ListImages(11).Picture

End Select

End Function

Private Sub next\_day\_Click()

depart\_date = DateAdd("d", 1, depart\_date)

rs.MoveFirst

Call start\_searching

End Sub

Private Sub previous\_day\_Click()

depart\_date = DateAdd("d", -1, depart\_date)

rs.MoveFirst

Call start\_searching

End Sub

Public Function start\_searching()

rs.MoveFirst

Command2.Enabled = True

Command3.Enabled = True

Label19.Caption = depart\_date

count\_no = 0

Do While (Not rs.EOF)

Call check\_flight

Loop

Label7.Caption = 1

Label9.Caption = count\_no

val = 1

If (count\_no = 1) Then

Command2.Enabled = False

Command3.Enabled = False

End If

rs.MoveFirst

If count\_no >= 1 Then

Frame1.Visible = True

Call show\_data

Else

Frame1.Visible = False

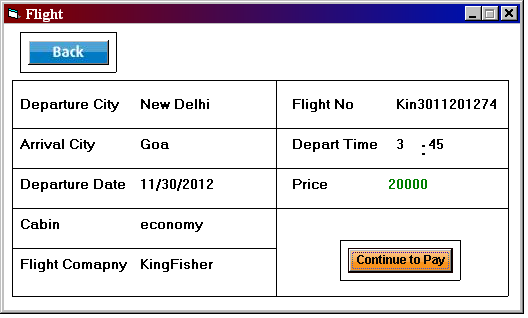
Label17.Visible = True

End If

End Function

**3.1.4 FLIGHT FORM**

**Output:**



**Code:**

Private Sub Command1\_Click()

Form3.Visible = False

Form8.Visible = True

End Sub

Private Sub Command2\_Click()

Form2.Visible = True

Unload Me

End Sub

Private Sub Form\_Load()

Command2.Picture = ImageList.ListImages(1).Picture

Command1.Picture = ImageList.ListImages(2).Picture

Label2.Caption = going\_from

Label4.Caption = going\_to

Label6.Caption = depart\_date

Label8.Caption = cabin

Label10.Caption = flight\_company

Label12.Caption = flight\_no

Label14.Caption = depart\_hour

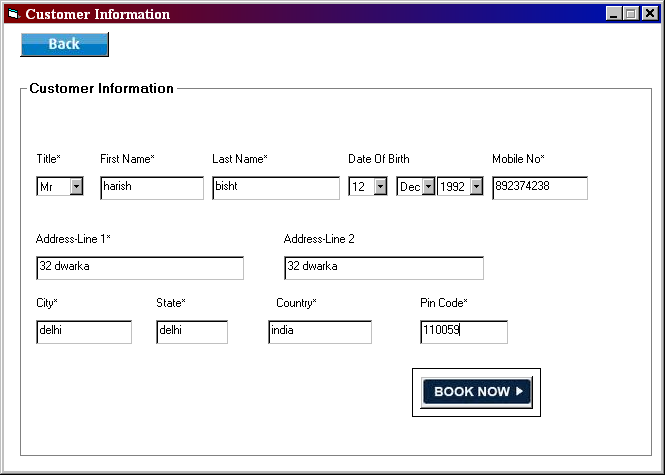
Label16.Caption = depart\_minute

Label18.Caption = price

End Sub

**3.1.5 CUSTOMER INFORMATION FORM**

**Output:**



**Code:**

Dim pnrno As String

Dim i As Integer

Dim db As New ADODB.Connection

Dim rs As New ADODB.Recordset

Private Sub add1\_box\_Change()

Image5.Visible = False

End Sub

Private Sub city\_box\_Change()

Image6.Visible = False

End Sub

Private Sub Command1\_Click()

Form3.Visible = True

db.Close

Unload Me

End Sub

Private Sub continue\_booking\_button\_Click()

On Error GoTo err\_h:

i = 0

Call check\_all\_fill

If i = 0 Then

pnrno = Left(fname\_box.Text, 3) & Right(mobile\_box.Text, 5) & CInt(Int(Rnd() \* Int(Rnd() \* 199)))

rs.Open "insert into cust\_data values('" & title\_box.Text & "','" & fname\_box.Text & "','" & lname\_box.Text & "','" & birth\_date.Text & "','" & birth\_month.Text & "','" & birth\_year.Text & "','" & mobile\_box.Text & "','" & add1\_box.Text & "','" & add2\_box.Text & "','" & city\_box.Text & "','" & state\_box.Text & "','" & country\_box.Text & "','" & pin\_box.Text & "','" & pnrno & "','" & flight\_no & "','" & cabin & "')", db, adOpenDynamic, adLockOptimistic, adCmdText

first\_name = fname\_box.Text

last\_name = lname\_box.Text

pnr\_no = pnrno

continue\_booking\_button.Picture = ImageList.ListImages(5).Picture

dup\_ticket = "false"

Timer1.Enabled = True

End If

Exit Sub

err\_h:

MsgBox "fill all the checkbox correctly", vbExclamation

End Sub

Private Sub country\_box\_Change()

Image8.Visible = False

End Sub

Private Sub fname\_box\_Change()

Image2.Visible = False

End Sub

Public Function check\_all\_fill()

If title\_box.Text = "" Then

Image1.Visible = True

i = 1

End If

If fname\_box.Text = "" Then

Image2.Visible = True

i = 1

End If

If lname\_box.Text = "" Then

Image3.Visible = True

i = 1

End If

If mobile\_box.Text = "" Then

Image4.Visible = True

i = 1

End If

If add1\_box.Text = "" Then

Image5.Visible = True

i = 1

End If

If city\_box.Text = "" Then

Image6.Visible = True

i = 1

End If

If state\_box.Text = "" Then

Image7.Visible = True

i = 1

End If

If country\_box.Text = "" Then

Image8.Visible = True

i = 1

End If

If pin\_box.Text = "" Then

Image9.Visible = True

i = 1

End If

If Image10.Visible = True Then

i = 1

End If

End Function

Private Sub Form\_Load()

Image1.Picture = ImageList.ListImages(1).Picture

Image2.Picture = ImageList.ListImages(1).Picture

Image3.Picture = ImageList.ListImages(1).Picture

Image4.Picture = ImageList.ListImages(1).Picture

Image5.Picture = ImageList.ListImages(1).Picture

Image6.Picture = ImageList.ListImages(1).Picture

Image7.Picture = ImageList.ListImages(1).Picture

Image8.Picture = ImageList.ListImages(1).Picture

Image9.Picture = ImageList.ListImages(1).Picture

Image10.Picture = ImageList.ListImages(2).Picture

continue\_booking\_button.Picture = ImageList.ListImages(4).Picture

Command1.Picture = ImageList.ListImages(3).Picture

db.ConnectionString = "dsn=airlines\_data;uid=" & user\_name & ";pwd=" & pass\_word & " "

db.Open

End Sub

Private Sub lname\_box\_Change()

Image3.Visible = False

End Sub

Private Sub mobile\_box\_Change()

Image4.Visible = False

Image10.Visible = False

End Sub

Private Sub mobile\_box\_KeyPress(KeyAscii As Integer)

If KeyAscii = vbKeyBack Then

Exit Sub

End If

If KeyAscii < Asc("0") Or KeyAscii > Asc("9") Then

KeyAscii = 0

End If

End Sub

Private Sub mobile\_box\_LostFocus()

If Len(mobile\_box.Text) <= 5 Then

Image10.Visible = True

i = 1

Else

i = 0

End If

End Sub

Private Sub pin\_box\_Change()

Image9.Visible = False

End Sub

Private Sub pin\_box\_KeyPress(KeyAscii As Integer)

If KeyAscii < Asc("0") Or KeyAscii > Asc("9") Then

KeyAscii = 0

End If

End Sub

Private Sub state\_box\_Change()

Image7.Visible = False

End Sub

Private Sub Timer1\_Timer()

continue\_booking\_button.Picture = ImageList.ListImages(4).Picture

db.Close

Form7.Visible = True

Form8.Visible = False

Timer1.Enabled = False

End Sub

Private Sub title\_box\_Change()

Image1.Visible = False

End Sub

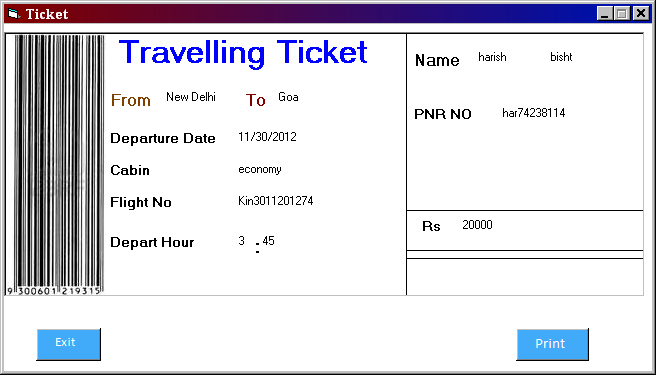
Private Sub title\_box\_Click()

Image1.Visible = False

End Sub

**3.1.6 TICKET FORM**

**Output:**



**Code:**

Dim temp As Integer

Dim db As New ADODB.Connection

Dim rs As New ADODB.Recordset

Private Sub Command1\_Click()

CommonDialog1.PrinterDefault = True

CommonDialog1.ShowPrinter

Print Picture1

End Sub

Private Sub Command2\_Click()

db.Close

Unload Form2

Unload Form3

Unload Form8

Form1.Visible = True

Unload Form7

End Sub

Private Sub Form\_Load()

db.ConnectionString = "dsn=airlines\_data;uid=" & user\_name & ";pwd=" & pass\_word & " "

db.Open

Image1.Picture = ImageList.ListImages(1).Picture

Command1.Picture = ImageList.ListImages(3).Picture

Command2.Picture = ImageList.ListImages(2).Picture

Label3.Caption = going\_from

Label5.Caption = going\_to

Label7.Caption = depart\_date

Label9.Caption = cabin

Label11.Caption = flight\_no

Label13.Caption = first\_name

Label14.Caption = last\_name

Label18.Caption = pnr\_no

Label16.Caption = price

Label20.Caption = depart\_hour

Label22.Caption = depart\_minute

If dup\_ticket = "true" Then

dup\_ticket = "false"

Exit Sub

End If

'code for decrement the seat from database

rs.Open "select \* from flight\_data", db, adOpenDynamic, adLockOptimistic, adCmdText

rs.MoveFirst

Do While (Not rs.EOF)

If 0 = StrComp(flight\_company, rs("flight\_company").Value) Then

If 0 = StrComp(going\_from, rs("depart\_city").Value) Then

If 0 = StrComp(going\_to, rs("arrival\_city").Value) Then

If 0 = StrComp(depart\_date, rs("depart\_date").Value) Then

If 0 = StrComp(flight\_no, rs("flight\_no").Value) Then

If (0 = StrComp(cabin, "economy")) And (rs("eco\_no\_of\_seat").Value >= 1) Then

temp = rs("eco\_no\_of\_seat").Value

temp = temp - 1

rs.Fields("eco\_no\_of\_seat") = temp

rs.Update

Exit Sub

Else

If (0 = StrComp(cabin, "business")) And (rs("busi\_no\_of\_seat").Value >= 1) Then

temp = rs("busi\_no\_of\_seat").Value

temp = temp - 1

rs.Fields("busi\_no\_of\_seat") = temp

rs.Update

Exit Sub

End If

End If

Else

rs.MoveNext

End If

Else

rs.MoveNext

End If

Else

rs.MoveNext

End If

Else

rs.MoveNext

End If

Else

rs.MoveNext

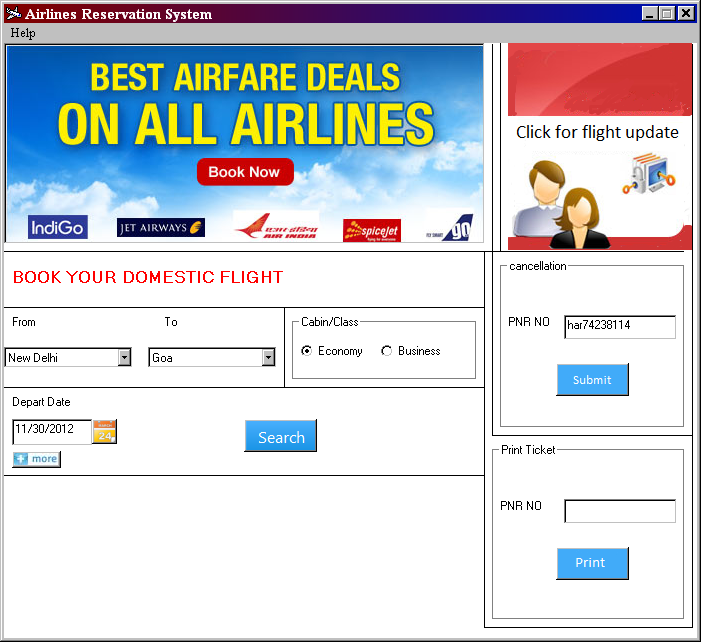
End If

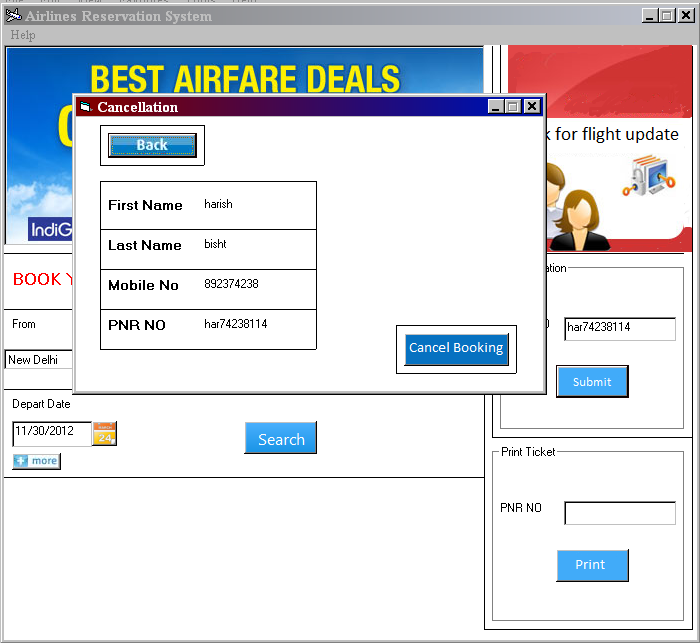
Loop

End Sub

**3.1.7 MAIN FORM ( FOR CANCELLATION)**

**Output:**





**Code:**

Dim temp As Integer

Dim db As New ADODB.Connection

Dim rs1 As New ADODB.Recordset

Dim rs As New ADODB.Recordset

Private Sub Command1\_Click()

db.Close

Unload Me

End Sub

Private Sub Command2\_Click()

cabin = rs.Fields("cabin")

flight\_no = rs.Fields("flight\_no")

Call increment\_seat

rs.Delete

db.Close

MsgBox " booking cancelled sucessful", vbInformation

Unload Me

End Sub

Private Sub Form\_Load()

Command1.Picture = ImageList.ListImages(1).Picture

Command2.Picture = ImageList.ListImages(2).Picture

On Error GoTo err\_h:

db.ConnectionString = "dsn=airlines\_data;uid=" & user\_name & ";pwd=" & pass\_word & " "

db.Open

rs.Open "select \* from cust\_data where pnr\_no = '" & pnr\_cancel & "' ", db, adOpenDynamic, adLockOptimistic, adCmdText

If (Not rs.EOF) Then

Form4.Visible = True

Form4.Refresh

Label5.Caption = rs.Fields("first\_name")

Label6.Caption = rs.Fields("last\_name")

Label7.Caption = rs.Fields("mobile\_no")

Label8.Caption = rs.Fields("pnr\_no")

Else

pnr\_cancel = "notfound"

db.Close

End If

Exit Sub

err\_h:

Unload Form4

End Sub

Public Function increment\_seat()

rs1.Open "select \* from flight\_data where flight\_no = '" & flight\_no & "' ", db, adOpenDynamic, adLockOptimistic, adCmdText

If cabin = "economy" Then

temp = rs1("eco\_no\_of\_seat").Value

temp = temp + 1

rs1.Fields("eco\_no\_of\_seat") = temp

rs1.Update

Else

temp = rs1("busi\_no\_of\_seat").Value

temp = temp + 1

rs1.Fields("busi\_no\_of\_seat") = temp

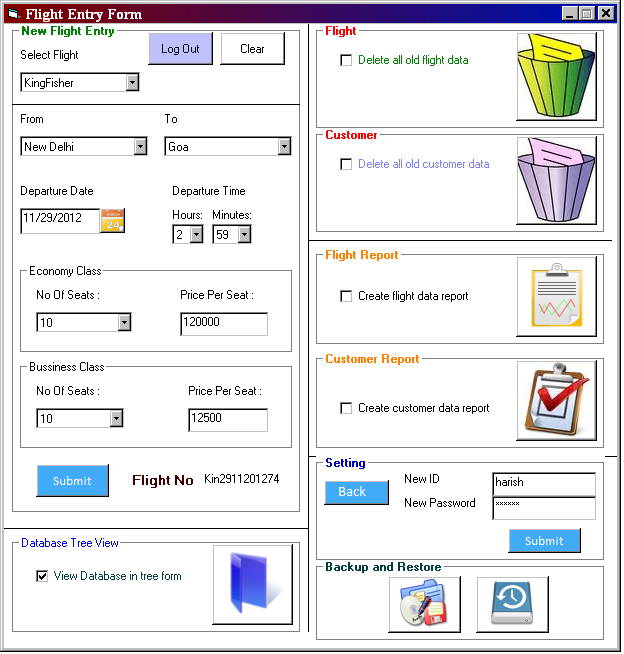
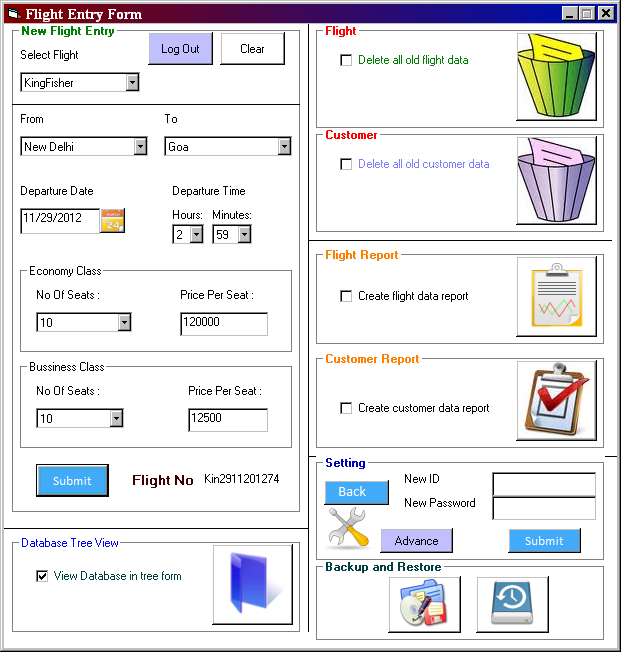
rs1.Update

End If

End Function

**3.1.8 FLIGHT ENTRY FORM**

**Output:**



**Code:**

Dim setting As Integer

Dim db As New ADODB.Connection

Dim rs As New ADODB.Recordset

Dim rs1 As New ADODB.Recordset

Dim flight\_no As String

Dim val As Integer

Private Sub admin\_setting\_Click()

admin\_setting.Visible = False

database\_setting.Visible = False

back.Visible = True

Label8.Visible = True

Label9.Visible = True

Text1.Visible = True

Text2.Visible = True

submit.Visible = True

setting = 0

Text1.SetFocus

Text2.PasswordChar = "\*"

End Sub

Private Sub advance\_setting\_Click()

Label8.Visible = False

Label9.Visible = False

Label10.Visible = True

Text1.Visible = False

Text2.Visible = False

advance\_setting.Visible = False

submit.Visible = False

Create\_database.Visible = True

Check5.Visible = True

driver.Visible = True

Combo1.Visible = True

End Sub

Private Sub back\_Click()

admin\_setting.Visible = True

database\_setting.Visible = True

back.Visible = False

Label8.Visible = False

Label9.Visible = False

Text1.Visible = False

Text2.Visible = False

submit.Visible = False

Image1.Visible = False

advance\_setting.Visible = False

Create\_database.Visible = False

Check5.Visible = False

driver.Visible = False

Label10.Visible = False

Combo1.Visible = False

End Sub

Private Sub Calendar1\_Click()

Dim temp As Integer

temp = 0

If Calendar1.year < DatePart("yyyy", Now) Then

MsgBox "Wrong Date", vbInformation

temp = 1

Else

If Calendar1.month < DatePart("m", Now) And Calendar1.year <= DatePart("yyyy", Now) Then

MsgBox "Wrong Date", vbInformation

temp = 1

Exit Sub

End If

If Calendar1.day < DatePart("d", Now) And Calendar1.month <= DatePart("m", Now) And Calendar1.year <= DatePart("yyyy", Now) Then

MsgBox "Wrong Date", vbInformation

temp = 1

End If

End If

If temp = 0 Then

date\_box.Text = ""

date\_box.Text = Calendar1.Value

Calendar1.Visible = False

Else

date\_box.Text = "mm/dd/yyyy"

End If

End Sub

Private Sub clear\_button\_Click()

date\_box = "mm/dd/yyyy"

price\_economy.Text = ""

price\_business.Text = ""

Label12.Caption = ""

End Sub

Private Sub Command1\_Click()

If Calendar1.Visible = True Then

Calendar1.Visible = False

Else

Calendar1.Visible = True

End If

End Sub

Private Sub Command2\_Click()

On Error GoTo err\_h:

db.Close

Unload Me

Exit Sub

err\_h:

Unload Me

End Sub

Private Sub Command3\_Click()

If Check3.Value = 1 Then

flight\_data\_report.Show

Else

MsgBox "Please tick the check box", vbExclamation

End If

End Sub

Private Sub Command4\_Click()

If Check4.Value = 1 Then

cust\_data\_report.Show

Else

MsgBox "Please tick the check box", vbExclamation

End If

End Sub

Private Sub Command5\_Click()

On Error Resume Next:

If Check6.Value = 1 Then

Form10.Visible = True

Else

MsgBox "Please tick the check box", vbExclamation

End If

End Sub

Private Sub create\_backup\_Click()

Dim day As Variant, month As Variant, year As Variant, add As Variant

On Error Resume Next

CommonDialog1.Filter = "Backup file (\*.backup)|\*.backup"

CommonDialog1.FileName = Date$

CommonDialog1.DialogTitle = "select the location for Backup file"

CommonDialog1.Flags = 0

CommonDialog1.ShowSave

Kill CommonDialog1.FileName 'check for existing files fo backup

If CommonDialog1.Flags <> 0 Then

rs.Open "select \* from flight\_data", db, adOpenDynamic, adLockOptimistic, adCmdText

rs1.Open "select \* from cust\_data", db, adOpenDynamic, adLockOptimistic, adCmdText

rs.MoveFirst

Open CommonDialog1.FileName For Append As #1

Do While (Not rs.EOF)

Write #1, rs.Fields(0), rs.Fields(1), rs.Fields(2), rs.Fields(3), rs.Fields(4), rs.Fields(5), rs.Fields(6), rs.Fields(7), rs.Fields(8), rs.Fields(9), rs.Fields(10)

rs.MoveNext

If (rs.EOF) Then

Write #1, "\*\*\*", "\*\*\*", "\*\*\*", "\*\*\*", "\*\*\*", "\*\*\*", "\*\*\*", "\*\*\*", "\*\*\*", "\*\*\*", "\*\*\*"

rs1.MoveFirst

Do While (Not rs1.EOF)

If IsNull(rs1.Fields(3)) Then day = "blank"

If IsNull(rs1.Fields(4)) Then month = "blank"

If IsNull(rs1.Fields(5)) Then year = "blank"

If IsNull(rs1.Fields(8)) Then add = "blank"

Write #1, rs1.Fields(0), rs1.Fields(1), rs1.Fields(2), day, month, year, rs1.Fields(6), rs1.Fields(7), add, rs1.Fields(9), rs1.Fields(10), rs1.Fields(11), rs1.Fields(12), rs1.Fields(13), rs1.Fields(14), rs1.Fields(15)

rs1.MoveNext

Loop

End If

Loop

MsgBox "Backup creation sucessful", vbInformation

Close #1

rs.Close

rs1.Close

Else

Exit Sub

End If

End Sub

Private Sub customer\_delete\_Click()

On Error GoTo err\_h:

Dim tempi As Integer

Dim counter As Integer

counter = 0

tempi = 0

If Check2.Value = 1 Then

rs1.Open "select \* from cust\_data ", db, adOpenDynamic, adLockOptimistic, adCmdText

If (Not rs1.BOF) Then

rs1.MoveFirst

Else

MsgBox "Customer DataBase is empty", vbInformation

rs1.Close

Exit Sub

End If

rs.Open "select \* from flight\_data", db, adOpenDynamic, adLockOptimistic, adCmdText

If (rs.EOF) Then

Do While (Not rs1.EOF)

rs1.Delete

rs1.MoveNext

counter = counter + 1

Loop

MsgBox counter & " customer data deleted"

rs.Close

rs1.Close

Exit Sub

Else

rs.MoveFirst

End If

Do While (Not rs1.EOF)

Do While (Not rs.EOF)

If 0 = StrComp(rs("flight\_no").Value, rs1("flight\_no").Value) Then

tempi = 1

rs.MoveNext

Else

rs.MoveNext

End If

If rs.EOF And tempi = 0 Then

counter = counter + 1

rs1.Delete

tempi = 0

End If

Loop

rs.MoveFirst

rs1.MoveNext

Loop

MsgBox counter & " customer data deleted", vbInformation

rs.Close

rs1.Close

Else

MsgBox "Please tick the check box", vbExclamation

End If

Exit Sub

err\_h:

MsgBox "error occureed while connecting to the database", vbInformation

End Sub

Private Sub database\_setting\_Click()

admin\_setting.Visible = False

database\_setting.Visible = False

back.Visible = True

Label8.Visible = True

Label9.Visible = True

Text1.Visible = True

Text2.Visible = True

submit.Visible = True

Image1.Visible = True

advance\_setting.Visible = True

Text1.SetFocus

setting = 1

Text2.PasswordChar = ""

End Sub

Private Sub flight\_delete\_Click()

On Error GoTo err\_h:

Dim tempdate As Date

Dim tempi As Integer

tempi = 0

tempdate = Date

tempdate = DateAdd("d", -1, tempdate)

If Check1.Value = 1 Then ' means checked

rs.Open "select \* from flight\_data", db, adOpenDynamic, adLockOptimistic, adCmdText

If (Not rs.BOF) Then

rs.MoveFirst

Else

MsgBox "Flight DataBase is empty", vbInformation

rs.Close

Exit Sub

End If

Do While (Not rs.EOF)

If rs("depart\_date").Value < tempdate Then

rs.Delete

tempi = tempi + 1

End If

rs.MoveNext

Loop

MsgBox tempi & " flight deleted", vbInformation

rs.Close

Else

MsgBox "Please Tick the Check box", vbExclamation

End If

Exit Sub

err\_h:

MsgBox "error occureed while connecting to the database", vbInformation

End Sub

Private Sub Form\_Click()

Calendar1.Visible = False

End Sub

Private Sub Form\_Load()

Calendar1.Value = Date

Command1.Picture = ImageList.ListImages(1).Picture

submit\_button.Picture = ImageList.ListImages(2).Picture

flight\_delete.Picture = ImageList.ListImages(3).Picture

customer\_delete.Picture = ImageList.ListImages(4).Picture

Command3.Picture = ImageList.ListImages(5).Picture

Command4.Picture = ImageList.ListImages(6).Picture

submit.Picture = ImageList.ListImages(2).Picture

back.Picture = ImageList.ListImages(7).Picture

admin\_setting.Picture = ImageList.ListImages(8).Picture

database\_setting.Picture = ImageList.ListImages(10).Picture

Image1.Picture = ImageList.ListImages(11).Picture

Command5.Picture = ImageList.ListImages(12).Picture

create\_backup.Picture = ImageList.ListImages(13).Picture

restore\_backup.Picture = ImageList.ListImages(14).Picture

On Error GoTo err\_h:

db.ConnectionString = "dsn=airlines\_data;uid=" & user\_name & ";pwd=" & pass\_word & " "

db.Open

Calendar1.Visible = False

Exit Sub

err\_h:

Calendar1.Visible = False

MsgBox "u have to need change database password and user name or fix the connectivity problem", vbInformation

Timer1.Enabled = True

End Sub

Public Function check\_all\_are\_fill()

val = 0

If select\_flight.Text = "" Then

val = 1

End If

If from\_box.Text = "" Then

val = 1

End If

If to\_box.Text = "" Then

val = 1

End If

If date\_box.Text = "mm/dd/yyyy" Then

val = 1

End If

If hour\_box.Text = "" Or minutes\_box.Text = "" Then

val = 1

End If

If seat\_economy.Text = "" Or price\_economy.Text = "" Or seat\_business.Text = "" Or price\_business.Text = "" Then

val = 1

End If

If from\_box.Text = to\_box.Text Then

MsgBox "going to same city not possible"

val = 1

End If

End Function

Private Sub price\_business\_KeyPress(KeyAscii As Integer)

If KeyAscii = vbKeyBack Then

Exit Sub

End If

If KeyAscii < Asc("0") Or KeyAscii > Asc("9") Then

KeyAscii = 0

End If

End Sub

Private Sub price\_economy\_KeyPress(KeyAscii As Integer)

If KeyAscii = vbKeyBack Then

Exit Sub

End If

If KeyAscii < Asc("0") Or KeyAscii > Asc("9") Then

KeyAscii = 0

End If

End Sub

Private Sub restore\_backup\_Click()

Dim a As String, b As String, c As String, d As String, e As Variant, f As Variant, g As Variant, h As Variant, i As Variant, j As Variant, k As Variant

Dim aa As String, ab As String, ac As String, ad As Variant, ae As String, af As Variant, ag As Variant, ah As Variant, ai As Variant, aj As Variant, ak As Variant, al As Variant, am As Variant, an As Variant, ao As Variant, ap As Variant

CommonDialog1.Filter = "Backup file (\*.backup)|\*.backup"

CommonDialog1.DialogTitle = "Select the airlines data backup file"

CommonDialog1.Flags = 0

CommonDialog1.ShowOpen

If CommonDialog1.Flags <> 0 Then

On Error GoTo err\_h:

Open CommonDialog1.FileName For Input As #1

db.Execute "delete from flight\_data"

Do While (1)

Input #1, a, b, c, d, e, f, g, h, i, j, k

If a = "\*\*\*" Then

db.Execute "delete from cust\_data"

Do While (1)

Input #1, aa, ab, ac, ad, ae, af, ag, ah, ai, aj, ak, al, am, an, ao, ap

If ad = "blank" Then ad = ""

If ae = "blank" Then ae = ""

If af = "blank" Then af = ""

If ai = "blank" Then ai = ""

rs1.Open "insert into cust\_data values('" & aa & "','" & ab & "','" & ac & "','" & ad & "','" & ae & "','" & af & "','" & ag & "','" & ah & "','" & ai & "','" & aj & "','" & ak & "','" & al & "','" & am & "','" & an & "','" & ao & "','" & ap & "')", db, adOpenDynamic, adLockOptimistic, adCmdText

Loop

End If

rs.Open "insert into flight\_data values('" & a & "','" & b & "','" & c & "','" & d & "','" & e & "','" & f & "','" & g & "','" & h & "','" & i & "','" & j & "','" & k & "')", db, adOpenDynamic, adLockOptimistic, adCmdText

Loop

Close #1

Else

Exit Sub

End If

Exit Sub

err\_h:

MsgBox "backup restore sucessful", vbInformation

Close #1

End Sub

Private Sub submit\_button\_Click()

On Error GoTo err\_h:

Call check\_all\_are\_fill

If val = 1 Then

MsgBox "please fill all the entry", vbExclamation

Exit Sub

Else

flight\_no = Left(select\_flight.Text, 3) & Calendar1.day & Calendar1.month & Calendar1.year & CInt(Int(Rnd() \* Int(Rnd() \* 199)))

rs.Open "insert into flight\_data values('" & select\_flight.Text & "','" & from\_box.Text & "','" & to\_box.Text & "','" & date\_box.Text & "','" & hour\_box.Text & "','" & minutes\_box.Text & "','" & seat\_economy.Text & "','" & price\_economy.Text & "','" & seat\_business.Text & "','" & price\_business.Text & "','" & flight\_no & "')", db, adOpenDynamic, adLockOptimistic, adCmdText

Label12.Caption = flight\_no

End If

Exit Sub

err\_h:

MsgBox "error occureed while connecting to the database", vbInformation

End Sub

Private Sub submit\_Click()

On Error GoTo err\_h:

Dim valdata As Variant

Dim valdata1 As Variant

If Text1.Text = "" Or Text2.Text = "" Then

MsgBox "Fill both of box", vbInformation

Exit Sub

End If

If setting = 0 Then

Call change\_password

Else

Open "database\_connectivity.dat" For Binary As #1

valdata = Text1.Text

valdata1 = Text2.Text

Put #1, , valdata

Put #1, , valdata1

Close #1

MsgBox "Changes Sucessful", vbInformation

Open "database\_connectivity.dat" For Binary As #1

Get #1, , user\_name

Get #1, , pass\_word

Close #1

If db.State Then

db.Close

End If

db.ConnectionString = "dsn=airlines\_data;uid=" & user\_name & ";pwd=" & pass\_word & " "

db.Open

End If

valdata = ""

valdata1 = ""

admin\_setting.Visible = True

database\_setting.Visible = True

back.Visible = False

Label8.Visible = False

Label9.Visible = False

Text1.Visible = False

Text2.Visible = False

submit.Visible = False

Text1.Text = ""

Text2.Text = ""

Timer1.Enabled = False

database\_setting.Picture = ImageList.ListImages(10).Picture

Image1.Visible = False

advance\_setting.Visible = False

Exit Sub

err\_h:

MsgBox "error occureed while reconnecting to the database", vbInformation

Timer1.Enabled = True

End Sub

Private Sub Timer1\_Timer()

If (database\_setting.Picture = ImageList.ListImages(9).Picture) Then

database\_setting.Picture = ImageList.ListImages(10).Picture

Else

database\_setting.Picture = ImageList.ListImages(9).Picture

End If

End Sub

Public Sub change\_password()

On Error GoTo err\_h:

Dim valdata As Variant

Dim valdata1 As Variant

valdata = Text1.Text

valdata1 = Text2.Text

db.Execute "delete from Login where username = '" & login\_uname & "' and password= '" & login\_passwd & "' "

db.Execute "insert into login values('" & valdata & "','" & valdata1 & "')"

login\_uname = Text1.Text

login\_passwd = Text2.Text

MsgBox "username and password sucessfully changed", vbInformation

Exit Sub

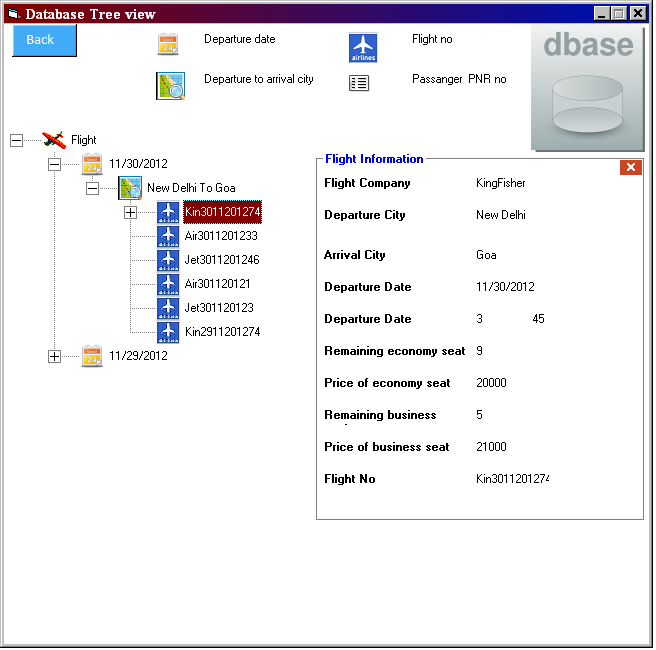
err\_h:

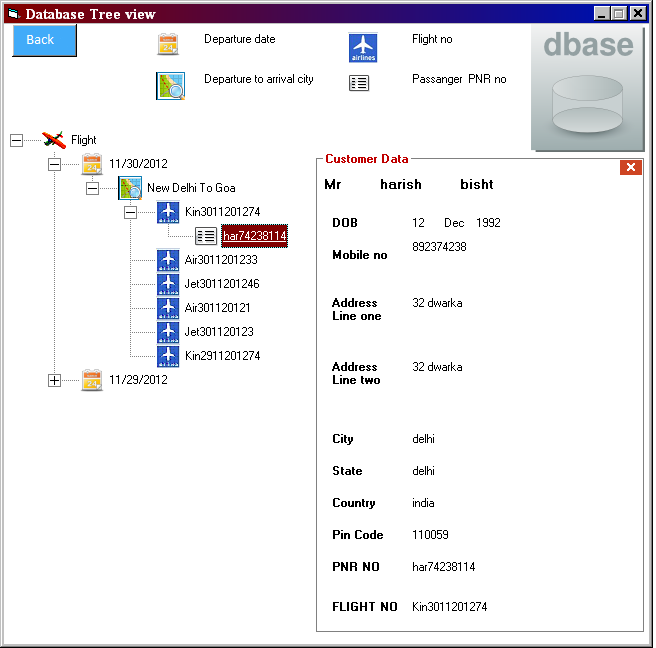
MsgBox "User name and password not found", vbInformation

End Sub

**3.1.9 DATABASE TREE VIEW FORM**

**Output:**





**Code:**

Dim db As New ADODB.Connection

Dim rs2 As New ADODB.Recordset

Dim rs1 As New ADODB.Recordset

Dim rs As New ADODB.Recordset

Private Sub Command1\_Click()

db.Close

Unload Form10

End Sub

Private Sub Form\_Click()

Image7.Visible = False

End Sub

Private Sub Form\_Load()

On Error GoTo err\_h:

db.ConnectionString = "dsn=airlines\_data;uid=" & user\_name & ";pwd=" & pass\_word & " "

db.Open

rs.Open "select \* from flight\_data", db, adOpenDynamic, adLockOptimistic, adCmdText

rs1.Open "select \* from flight\_data", db, adOpenDynamic, adLockOptimistic, adCmdText

rs2.Open "select \* from cust\_data", db, adOpenDynamic, adLockOptimistic, adCmdText

Command1.Picture = ImageList1.ListImages(7).Picture

Image1.Picture = ImageList1.ListImages(1).Picture

Image2.Picture = ImageList1.ListImages(3).Picture

Image3.Picture = ImageList1.ListImages(4).Picture

Image4.Picture = ImageList1.ListImages(6).Picture

Image5.Picture = ImageList1.ListImages(8).Picture

Image6.Picture = ImageList1.ListImages(8).Picture

Image7.Picture = ImageList1.ListImages(9).Picture

search.Picture = ImageList1.ListImages(10).Picture

Image8.Picture = ImageList1.ListImages(11).Picture

Call treeview\_data

Exit Sub

err\_h:

MsgBox "error occureed while connecting to the database", vbInformation

Unload Form10

End Sub

Public Function treeview\_data()

On Error GoTo err\_h:

Dim i As Integer, j As Integer, k As Integer, l As Integer, m As Integer

Dim Data As Node

Set Data = TreeView1.Nodes.add

Data.Image = 2

TreeView1.Nodes(1).Text = "Flight"

i = 0

Do While (Not rs.EOF)

i = i + 1

rs.MoveNext

Loop

rs.MoveFirst

Dim node1() As Node

ReDim node1(i) As Node

Dim temparray() As String

ReDim temparray(i) As String

m = 0

For j = 1 To i

For k = 0 To m

If (temparray(k) = rs.Fields(3)) Then

l = 1

End If

Next k

If l = 0 Then

Set node1(j) = TreeView1.Nodes.add(Data, tvwChild, , rs.Fields(3))

node1(j).Image = 1

temparray(m) = rs.Fields(3)

m = m + 1

End If

rs.MoveNext

l = 0

Next j

TreeView1.Nodes.Item(2).Sorted = True

rs.MoveFirst

Dim children1 As Integer

children1 = TreeView1.Nodes(1).Children

Dim node2() As Node

ReDim node2(children1) As Node

Dim node3 As Node

Dim node4 As Node

i = 0

Do While (Not rs.EOF)

i = i + 1

rs.MoveNext

Loop

Dim z As Integer

rs.MoveFirst

For z = 1 To children1

rs.MoveFirst

ReDim temparray(i) As String

m = 0

l = 0

For j = 1 To i

For k = 0 To m

If (temparray(k) = (rs.Fields(1) + " " + "To" + " " + rs.Fields(2))) Then

l = 1

End If

Next k

If l = 0 And (rs.Fields(3) = TreeView1.Nodes.Item(z + 1)) Then

Set node2(z) = TreeView1.Nodes.add(TreeView1.Nodes.Item(z + 1), tvwChild, , rs.Fields(1) + " " + "To" + " " + rs.Fields(2))

node2(z).Image = 3

temparray(m) = rs.Fields(1) + " " + "To" + " " + rs.Fields(2)

m = m + 1

rs1.MoveFirst

Do While (Not rs1.EOF)

If 0 <> InStr(Left(node2(z).Text, (InStr(node2(z).Text, "To") - 2)), rs1.Fields(1)) And 0 <> InStr(Right(node2(z).Text, (Len(node2(z).Text) - InStr(node2(z).Text, "To") - 2)), rs1.Fields(2)) Then

Set node3 = TreeView1.Nodes.add(node2(z), tvwChild, , rs1.Fields(10))

node3.Image = 4

If rs2.BOF = False Then

rs2.MoveFirst

End If

Do While (Not rs2.EOF)

If (rs1.Fields(10) = rs2.Fields(14)) Then

Set node4 = TreeView1.Nodes.add(node3, tvwChild, , rs2.Fields(13))

node4.Image = 6

End If

rs2.MoveNext

Loop

End If

rs1.MoveNext

Loop

End If

l = 0

rs.MoveNext

Next j

Next z

'for expend the tree

TreeView1.Nodes(1).Expanded = True

Exit Function

err\_h:

MsgBox " error while connecting to database"

End Function

Private Sub Image5\_Click()

Frame1.Visible = False

Frame2.Visible = False

End Sub

Private Sub Image6\_Click()

Frame1.Visible = False

Frame2.Visible = False

End Sub

Private Sub search\_Click()

On Error GoTo err\_h:

TreeView1.Refresh

TreeView1.Nodes(1).Expanded = False

Dim v As Integer, ul As Integer

v = 0

ul = 0

If Option1.Value = True Then

For v = 1 To TreeView1.Nodes.Count

If (Text1.Text = TreeView1.Nodes.Item(v)) Then

TreeView1.Nodes(1).Expanded = True

TreeView1.Nodes.Item(v).FirstSibling.Parent.Expanded = True

TreeView1.Nodes.Item(v).FirstSibling.Parent.FirstSibling.Parent.Expanded = True

TreeView1.Nodes.Item(v).BackColor = RGB(9, 115, 103)

TreeView1.Nodes.Item(v).ForeColor = RGB(250, 250, 250)

ul = 1

Exit Sub

End If

Next v

If (ul = 0) Then Image7.Visible = True

End If

If Option2.Value = True Then

For v = 1 To TreeView1.Nodes.Count

If (Text1.Text = TreeView1.Nodes.Item(v)) Then

TreeView1.Nodes(1).Expanded = True

TreeView1.Nodes.Item(v).FirstSibling.Parent.Expanded = True

TreeView1.Nodes.Item(v).FirstSibling.Parent.FirstSibling.Parent.Expanded = True

TreeView1.Nodes.Item(v).FirstSibling.Parent.FirstSibling.Parent.FirstSibling.Parent.Expanded = True

TreeView1.Nodes.Item(v).BackColor = RGB(9, 115, 103)

TreeView1.Nodes.Item(v).ForeColor = RGB(250, 250, 250)

ul = 1

Exit Sub

End If

Next v

If (ul = 0) Then Image7.Visible = True

End If

Exit Sub

err\_h:

MsgBox "error occureed while connecting to the database", vbInformation

End Sub

Private Sub Text1\_Click()

Image7.Visible = False

End Sub

Private Sub TreeView1\_NodeClick(ByVal Node As MSComctlLib.Node)

On Error Resume Next

If Node.Image = 4 Then

Frame1.Visible = True

Frame2.Visible = False

rs.MoveFirst

Do While (Not rs.EOF)

If rs.Fields(10) = Node.Text Then

Label2.Caption = rs.Fields(0)

Label4.Caption = rs.Fields(1)

Label6.Caption = rs.Fields(2)

Label8.Caption = rs.Fields(3)

Label10.Caption = rs.Fields(4)

Label11.Caption = rs.Fields(5)

Label13.Caption = rs.Fields(6)

Label15.Caption = rs.Fields(7)

Label17.Caption = rs.Fields(8)

Label19.Caption = rs.Fields(9)

Label21.Caption = rs.Fields(10)

Exit Sub

End If

rs.MoveNext

Loop

End If

Label26.Caption = ""

Label27.Caption = ""

Label28.Caption = ""

Label34.Caption = ""

If Node.Image = 6 Then

Frame1.Visible = False

Frame2.Visible = True

rs2.MoveFirst

Do While (Not rs2.EOF)

If rs2.Fields(13) = Node.Text Then

Label22.Caption = rs2.Fields(0)

Label23.Caption = rs2.Fields(1)

Label24.Caption = rs2.Fields(2)

Label26.Caption = rs2.Fields(3)

Label27.Caption = rs2.Fields(4)

Label28.Caption = rs2.Fields(5)

Label30.Caption = rs2.Fields(6)

Label32.Caption = rs2.Fields(7)

Label34.Caption = rs2.Fields(8)

Label36.Caption = rs2.Fields(9)

Label38.Caption = rs2.Fields(10)

Label40.Caption = rs2.Fields(11)

Label42.Caption = rs2.Fields(12)

Label44.Caption = rs2.Fields(13)

Label46.Caption = rs2.Fields(14)

Exit Sub

End If

rs2.MoveNext

Loop

End If

End Sub

**3.2 Testing and Debugging**

**Software Testing** is an empirical investigation conducted to provide stakeholders with information about the quality of the product or service under test, with respect to the context in which it is intended to operate. Software Testing also provides an objective, independent view of the software to allow the business to appreciate and understand the risks at implementation of the software. Test techniques include, but are not limited to, the process of executing a program or application with the intent of finding software bugs.

Software Testing can also be stated as the process of validating and verifying that a software program/application/product:

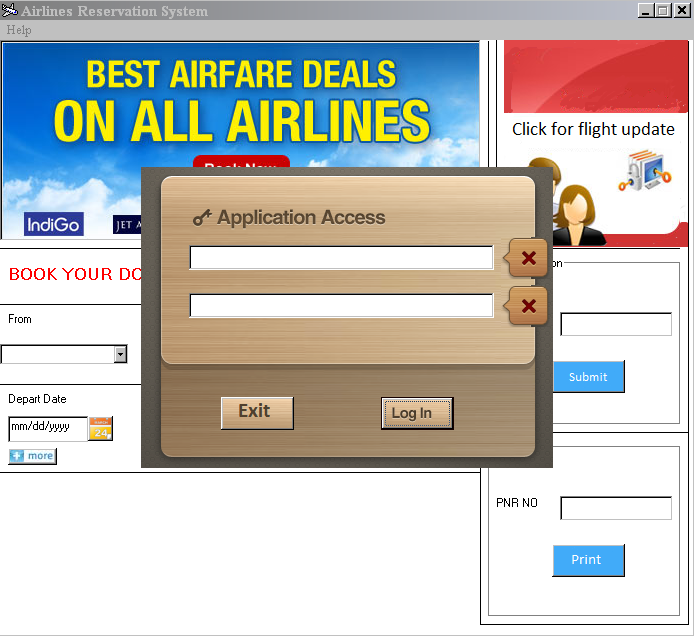
* meets the business and technical requirements that guided its design and development;
* works as expected; and
* can be implemented with the same characteristics

Software Testing, depending on the testing method employed can be implemented at any time in the development process. However, most of the test effort occurs after the requirements have been defined and the coding process has been completed. Different software development models will focus the test effort at different points in the development process. In a more traditional model, most of the test effort occurs after the requirements have been defined and the coding process has been completed. Newer development models, such as Agile or XP, often employ test driven development and place an increased portion of the testing up front in the development process, in the hands of the developer.

**3.2.1 Login Form**

**Test Case:** Value of the Login id and Password should be correct and cannot be empty

**Output :**

****

**Permissible Input**: The values entered should be correct, valid and no fields must

be left blank

**3.2.2 Main Form**

**Test Case:** Value of the source city, destination city, cabin, departure date should be correct and cannot be empty

**Output :**

****

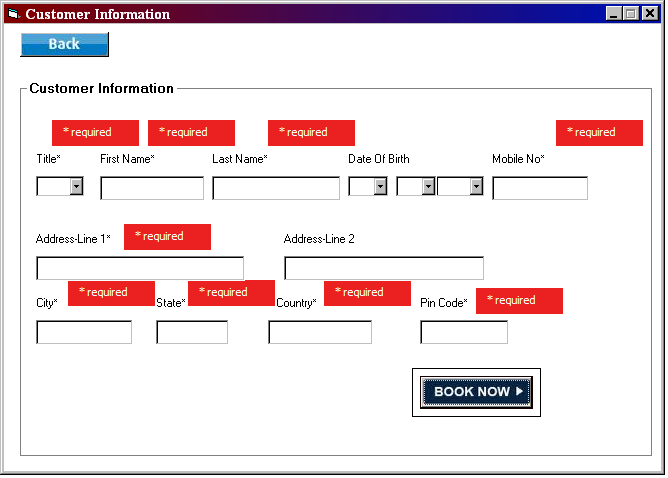
**Permissible Input**: The values entered should be correct, valid and no fields must be left

blank

**3.2.3 Customer Information Form**

**Test Case:** All the values in this form should be correct and cannot be empty

**Output :**

****

**Permissible Input**: The values entered should be correct, valid and no fields must be left blank

**Chapter-4: Scope of Improvement, Summary and Conclusions**

**4.1 Objectives of the project**

The various objectives of AIRLINE RESERVATION SYSTEM that have been achieved through this project are as follows:

* Simple to use, easy to understand
* Allows for easy search for the flight, Cancellation of ticket.
* Customer information is kept safe.
* Less time, efforts and resource consuming.
* To handle the most complex and challenging tasks.
* Database Treeview make easier search
* Reprint Ticket Option at the time of loss/theft
  1. **Scope of Improvement**

There is always room for improvements, and the system we created can also be improved to some extent. There are some additional functionalities or tasks that can be added to our system as an improvement. These functionalities can be:

* System can be altered to support the searching of indirect flights
* The system can be further enhanced with a seat reservation available. It is to fulfill passengers request to sit where they prefer. They are allowed to choose their seat whether near to window’s seat or in the middle.
* System can be altered to support booking ticket for more the one passenger
* System can be altered to support concession benefits or discounts allowed to customers.

**4.3 Limitations**

* One of the limitations of the software is the system only supports for domestic flight. Domestic flight means it only handles local flights (within India). This system is unable to support huge international flights for all countries.
* The system does not provide any feature to for passenger to change their reservation directly. Sometimes passengers might be frustrated to cancel their reservation and make a new one. Therefore, passengers are also advised to confirm their reservations before making any flights reservation