### AIRLINES RESERVATION SYSTEM

*Submitted in partial fulfillment of the requirements*

*for the award of the degree of*

**Bachelor of Computer Applications**

To

Guru Gobind Singh Indraprastha University, Delhi

**Guide: Submitted by:**

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****

**Institute of Information Technology & Management,**

**New Delhi – 110058**

**Batch (2010-2013)**

**Certificate**

We, 1. Harish Singh Bisht 00221102010 & 2. Geetanjali 01121102010 certify that the Minor Project Report (BCA-355) entitled Airlines Reservation system is done by us and it is an authentic work carried out by us at Institute of Information Technology And Management. The matter embodied in this project work has not been submitted earlier for the award of any degree or diploma to the best of my knowledge and belief.

1. Signature of the Student 2. Signature of the Student

Date:

Certified that the Project Report (BCA-355) entitled “Airlines Reservation System”

done by the above students is completed under my guidance.

Signature of the Guide

Date:

Name of the Guide:

Designation:

Countersigned

Director

**Acknowledgement**

We would like to thank our Guide, Ms. Shilpa Taneja, for without her constant presence, support, and trust this project could not have been what it is today. Thank you for being there for us and patiently handling our slow progress.

Also, we would like to thank Ms. Suman Singh, who helped us through the initial hurdles of the project, and was there for us when we faltered.

Sincere and heart-felt thanks

Harish Singh Bisht Geetanjali

(00221102010) (01121102010)

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**LIST OF SYMBOLS**

|  |  |  |
| --- | --- | --- |
| **S No** | **Symbol** | **Nomenclature & Meaning** |
| 1 | **+** | Addition |
| 2 | **-** | Subtraction |
| 3 | **\*** | Multiplication |
| 4 | **<** | Less then |
| 5 | **>** | Greater then |
| 6 | & | [Ampersand](http://en.wikipedia.org/wiki/Ampersand) |
| 7 | **;** | [Semicolon](http://en.wikipedia.org/wiki/Semicolon) |
| 8 | **:** | [Colon](http://en.wikipedia.org/wiki/Colon_%28punctuation%29) |

**Chapter 1: Introduction**

1. **Description of Organization**

**1.1 Introduction**

The **airline reservations system (ARS)** was one of the earliest changes to improve efficiency. ARS eventually evolved into the computer reservations system (CRS). A

computer reservation system is used for the reservations of a particular airline and

interfaces with a global distribution system (GDS) which supports travel agencies and

other distribution channels in making reservations for most major airlines in a single

system

**1.2 History of Organization**

The airline reservations system (ARS) was one of the earliest changes to improve efficiency. ARS eventually evolved into the computer reservations system (CRS). A computer reservation system is used for the reservations of a particular airline and interfaces with a global distribution system (GDS) which supports travel agencies and other distribution channels in making reservations for most major airlines in a single system.

**Jet Airways** is the largest Indianairline based out of Mumbai, Maharashtra. It operates over 400 flights daily to 76 destinations worldwide. Its main hub is Mumbai, with secondary hubs at Delhi, Kolkata, Chennai, Cochin, Ahmedabad, and Bengaluru. It has an international hub at Brussels Airport, Belgium. Jet Airways is owned by

NareshGoyal. Jet Airways's head office is located in the Siroya Centre in Andheri,

Mumbai Jet Airways serves 52 domestic destinations and 24 international destinations, a total of 76 in 19 countries across southern Africa, Asia, Europe and North America. Short-haul destinations are served using Boeing 737 Next Generation. ATR 72-500s are used only on domestic regional routes, while long-haul routes are served using its Airbus A330-200 and Boeing 777-300ER aircraft. London, England was the airline's first long-haul destination and was launched in 2005.

**1.3 Objective of Organization**

Jet Airways will achieve these objectives:-

1. simultaneously ensuring consistent profitability
2. achieving healthy, long-term returns for the investors
3. Providing its employees with an environment for excellence and growth.
4. Providing Comforts in all zones while traveling to the customers.
5. Giving a quick response on any query raised either by employee or by customer.
6. Achieving goal in hanging up with customer in a increasing percentage year by year
7. They are trying to upgrade the concept of domestic airline travel to be a world class domestic airline.

**1.4 Organizational Structure**

Jet Airways is led by a dynamic, extremely talented and experianced team:

CEO

Finance

&

Humana resource

Sales

Secretary

Network Planning

& Revenue

Legal

Executive officer

Procurement

& Properties

Alliance

&

planning

Sales

Public Relations

Communication & public Relation

Cabin crew

Sales Strategy & Investors

Customer

services

**Diagram of Organizational Structure**

**1.5 Key Result Areas**

1. **On Ground Services**: It is the process of booking ticket or checking in for flight, It ensures that every need on the ground is met.
2. **Check-in options** : Jet Airways offer multiple check-in options.
3. **Airport Lounges** : Jet Privilege Silver, Gold or Platinum card member or a Club Premiere passenger, can relax and enjoy complimentary snacks and beverages in jet Airways’ plush airport lounges.
4. **Coach Services** : Airport Authority of India (A. A. I.) operates shuttle coaches for transit passengers from domestic to international airport and vice-versa at Mumbai and Delhi airports.
5. **Complimentary Chauffeur Drive :** A service specially for PREMIERE passengers traveling between Mumbai/Delhi and London (Heathrow).
6. **In-Flight Services** : Jet Airways continually endeavours to better its services, both on the ground and in the air. From crew, whose priority is passengers’ comfort to the safety standards enforced to ensure that one is free of worr

**1.6 Functions**

1. **Online ticketing Reservation at jetairways.com: It Book**, pay and print your tickets instantly. Also, book multiple sectors for domestic and international flight at jetairways.com.
2. **IVR Interactive Voice Response: It** Book and pay for your tickets through our 24x7 call center over a secure IVR, and get your tickets via e-mail.
3. **Mobile Ticketing with Jet Wallet:** Book, pay and generate your eTicket. SMS ‘Jet Wallet’ to 56388 to download Jet Wallet on your GPRS phone.
4. **Pay Online service:** Book your ticket at Jet Airways reservation office and pay online at jetairways.com.
5. **Web Check-in:** Select your seat, print your boarding pass and proceed directly for security check.
6. **SMS Check-in**: Check-in anytime, anywhere and avail of a confirmed seat number on your mobile phone.
7. **Kiosk Check-in:** New age Kiosks at select airports in India help you select your seat and print your boarding pass at the touch of a screen.
8. **Bus service:**To make travel simpler, Jet Airways now provides a bus service to transport guests travelling to Dammam via Bahrain and vice-versa through King Fahad Causeway
9. **Secure Flight Passenger Data:** The United States Transportation Security Administration (TSA) has introduced a new ‘Secure Flight Passenger Data’ system for all guests travelling to / from the United States Of America.  
     
   The ‘Secure Flight Passenger Data’ system is also applicable to all guests travelling to / from / within Canada and flying over continental U.S.   
     
   Transportation Security Administration (TSA) requires you to provide the below information:

* Full Name (Your name as it appears on your passport)
* Date of Birth
* Gender
* Redress Number (if available)

1. **IVR Ticketing :Interactive Voice Response (IVR) based Payment and Ticketing**

Jet Airways’ IVR based payment and ticketing service is the latest booking facility through our 24\*7 call centre. Now book and pay for your eTickets over an exclusively customized and secure Interactive Voice Response (IVR) system.

Our IVR service allows you to complete your reservation, pay using credit cards through a secure gateway and instantly receive your eTickets via e-mail.

Once you confirm that you want to pay through the contact centre, our contact centre executive will transfer you to a secure IVR system that will request you to enter your credit card details. On a successful authorization of the credit card, you will get an automated response and your

**2 Software Requirement Specifications**

**2.1 Introduction**

A software requirements specification (SRS) is a complete description of the behavior of the system to be developed. This Software Requirement Specification is written in accordance with the IEEE STD 830-1998 model.

**2.1.1 SRS Used in the project**

The following subsections of Software Requirement Specifications Document should facilitate in providing the entire overview of the Information system “Airlines Reservation System” under development. This document aims at defining the overall software requirements for Passengers . Efforts have been made to define the requirements of the Information system exhaustively and accurately.

**2.2 Purpose**

The main purpose of Software Requirement Specifications Document is to describe in a precise manner all the capabilities that will be provided by the Software Application “Airlines Reservation System”. It also states the various constraints which the system will be abide to. This document further leads to clear vision of the software requirements, specifications and capabilities. These are to be exposed to the development, testing team and end users of the software

**2.3 Scope**

1. Airline Reservation System make the life of passengers very easy as they don’t need to stand in queues for getting their seats reserved and they can easily make reservations on any airline just from our single system.
2. It will also remove an extra burden from the Airline Department as most of the passengers and travel agencies use this service instead of making reservations from the counters.
3. With the help of our system, customers can view all the different flight’s availability with different timings for a particular date and it also allows them to reserve a seat, cancel a reservation or modify it.
4. It can helps the customers and on the other, it will also makes the life of the airline service companies easier by keeping all the records of the passengers and if there is any change in the fight due to some reason, the passengers are promptly informed.

**2.4 Definition, acronyms, abbreviations**

DBA : Database Administrator

ARS : Airlines Reservation System

IEEE : The Institute of Electrical and Electronics Engineers

SRS: Software Requirements Specification

**2.5 References**

* 1. jet airways
  2. yatra.com

**2.6 Overview**

The rest of this SRS document describes the various system requirements, interfaces, features and functionality in detail.

**2.7 Overall description of proposed system**

This section contains the details about all the processes that are performed in the

software system and also tells us about the input and output identification i.e. what is the

input being given and what is the desired output.

**1. Booking**

**Input:** Departure city , Arrival city, Departure Date , class

**Process:** Operator will enter the above details and check for

availability

**Output:** If operator will found the availability the output is flight

Ticket

**2. Cancellation**

**Input:**Pnr No

**Process:** Operator will enter the Pnr no and check in the database

**Output:** If the process is successful the result is cancelling of ticket

**3. Print Ticket**

**Input:**Pnr No

**Process:** Operator will enter the Pnr no and check in the database

**Output:** If the process is successful the result is print of ticket it is

used in case when Ticket is lost

**2.8 Product Perspective**

The application will be windows-based, self-contained and independent software

product.

Front End Client Application (with data entry / update /delete /view and reporting facility)

Backend Database

**2.9 System Interfaces**

None

**2.10 Interfaces**

**2.10.1 Hardware Interfaces**

* Screen resolution of at least 800\*600 pixels- requires for proper and complete viewing of screens.
* Standalone systems or network based – not a concern, as it will be possible to run the application on any of these.
* Minimum processor requirements Pentium 4, 1.2 GHz
* printer

**2.10.2Software Interfaces**

* Visual Basic 6.0 is used as Frontend
* Oracle 10g is used as Backend.

**2.10.3Communication Interfaces**

None

**2.11 Memory Constraints**

At least 64 MB RAM and 2 GB space on hard disk will be required for running the application.

**2.12 Operations**

This product will not cover any automated housekeeping aspects of database. The DBA at client site will be manually deleting old/ non required data.

Database backup and recovery will also have to be handled by DBA.

**2.13 Site Adaptation Requirement**

The terminals at client side will have to support the hardware and software

interfaces specified.

**2.14 Product functions**

The system will allow access only to authorized users with specific roles

(Administrator, Operator). Depending upon the user’s role, he/she will be

able to access only specific modules of the system.

A summary of the major functions that the software will perform:

(i) A Login facility for enabling only authorized access to the system.

(ii) Users (with role operator) will add/update/delete the stored information

and so on

* 1. **User Characteristics**

**2.15.1 Educational Level**: At least graduate and should be

comfortable with English Language.

**2.15.2 Technical Expertise**: Should be a high or middle level employee

of the Organization comfortable with using general purpose applications on

a computer

**2.16 Constraints**

GUI is only in English.

**2.17 Assumptions and Dependencies**

None

**2.18 Apportioning Requirement**

Not Required

**2.19 Specific Requirements**

This section contains the software requirements to a level of detail sufficient

to enable designers to design the system, and testers to test the system.

**2.20 External Interfaces**

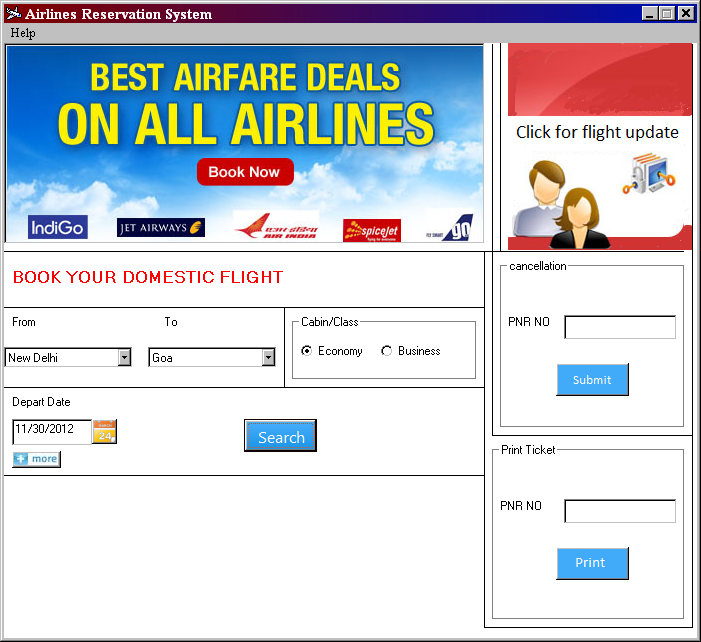
This interface will be the actual interface through which the administrator

will communicate with the application and perform the desired tasks. The

following screens will be provided:

**2.21 User Interfaces**

**Menu Screen**



**Administrator Screen**

**C:\Users\SAS\Desktop\sct\untitled12.TIF**

**2.22 Hardware Interfaces**

**Hardware Tools**

|  |  |
| --- | --- |
| Hard Disk | 1GB |
| Ram | 64MB |
| Processor | 1.8Ghz or above |

**2.23 Software interfaces**

**Software Tools**

|  |  |
| --- | --- |
| Operating System | Windows XP |
| Front-End | Visual Basics |
| Back-End | Oracle10g |

**2.24 Communication Interfaces**

None

**2.25 System Features**

1. **Reservation of Ticket**

**Description:-** In this module the User details will be entered by the data entry operater, the details like:- name of customer, age, sex, no of seats etc will be enter so that the data the next procedure can go on.

**Validity checks**

* Only data entry operator will be authorized to access this module.
* User name cannot be left blank.
* user’s gender cannot be left blank.
* User contact details cannot be left empty.
* Date of departure cannot be left blank.
* Destination to Source station cannot be left blank.

**Error Handling / Response to abnormal situations**

If any of the above validations/sequencing flow does not hold true, appropriate error messages will be prompted to the user for doing the needful.

1. **Printing of Ticket**

**Description:-** The module provides the facility to generate tickets, the inputs to this module being the ticket details which we have mention above and discount (if any) and total amount , the output being the ticket which is formed by the system.

**Validity checks**

* The total amount can be never negative.
* Fully printed ticket with all the values

**Error Handling / Response to abnormal situations**

If any of the above validations/sequencing flow does not hold true, appropriate error messages will be prompted to the user for doing the needful.

**c. Cancellation of Ticket**

**Description :-** In this module if a passenger want to cancel the ticket as in case he/she don’t want to travel, then the Pnr no which the passenger will get on his/her ticket have to enter that & make the cancellation**.**

**Validity checks**

* Pnr\_no cannot be left blank.

**Error Handling / Response to abnormal situations**

If any of the above validations/sequencing flow does not hold true, appropriate error messages will be prompted to the user for doing the

needful.

**2.26 Performance Requirements**

None

**2.27 Logical Database Requirements**

The proposed information system contains the following data tables in its

Database collection.

**2.27.1 Flight Database Table**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **FLIGHT DATABASE** | | | | |
| **Field Name** | **Field Type** | | **Field Size(No of Character)** | **Description** |
| Flight\_Company | | Varchar | 15 | The name of the flight company it belongs to. |
| Depart\_City | | Varchar | 10 | The city from where the flight will take off |
| Arrival\_City | | Varchar | 10 | The city where the flight will land |
| Depart\_Date | | Varchar | 10 | Date of flight take off |
| Depart\_Hour | | Number | 3 | Time in hour of flight’s take off time |
| Depart\_Minute | | Number | 3 | Time in minutes of flight’s take off time |
| Eco\_No\_of\_Seat | | Number | 4 | Total economy seats in flight |
| Eco\_Price | | Varchar | 10 | Price of one economy seat |
| Bust\_No\_of\_Seat | | Number | 4 | Total business seats in flight |
| Bust\_Price | | Varchar | 10 | Price of one business seat |
| Flight\_No | | Varchar | 15 | Unique flight no system genrated |

**2.27.2 Customer & Reservation Database Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **CUSTOMER & RESERVATION DATABASE** | | | |
| **Field Name** | **Field Type** | **Field Size(No of Character)** | **Description** |
| Title | Varchar | 4 | Title of customer |
| First\_Name | Varchar | 20 | First Name of the Ticket for whom its booked |
| Last\_Name | Varchar | 20 | Last Name of the Ticket for whom its booked |
| Date\_of\_Birth\_Day | Number | 2 | Age of passenger according to day |
| Date\_of\_Birth\_Month | Char | 4 | Age of passenger according to month |
| Date\_of\_Birth\_Year | Number | 4 | Age of passenger according to year |
| Mobile\_No | Char | 15 | Contact number/ mobile number of passenger |
| Address\_Line\_One | Varchar | 50 | Address of passenger |
| Address\_Line\_Two | Varchar | 50 | Sub address of passenger |
| City | Varchar | 10 | City where passenger living |
| State | Varchar | 15 | State where passenger living |
| Country | Varchar | 15 | Country where passenger living |
| Pincode | Char | 8 | Area code of the passengers residential |
| Pnr\_No | Varchar | 20 | Pnr no of the ticket registered/ reserved (system generated) |
| Flight\_No | Varchar | 15 | Unique flight no of plane |
| Cabin | Varchar | 10 | Section in which the seat reserved |

**2.27.3 Login Database Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Login Database Table** | | | |
| **Field Name** | **Field Type** | **Field Size(No of Character)** | **Description** |
| USERNAME | VARCHAR | 10 | Take the Username |
| PASSWORD | VARCHAR | 20 | For password |

**2.28 Design Constraints**

None

* 1. **Software System Attributes**
* Reliability

This application is a reliable product that produces fast and Verified output

of all its processes.

* Availability

This application will be available to use for our end users and help them

to carry out their operations conveniently.

* Security

The application will be password protected. User will have to enter

correct username, password and role in order to access the application.

* Maintainability

The application will be designed in a maintainable manner. It will be

easy to incorporate new requirements in the individual modules.

* Portability

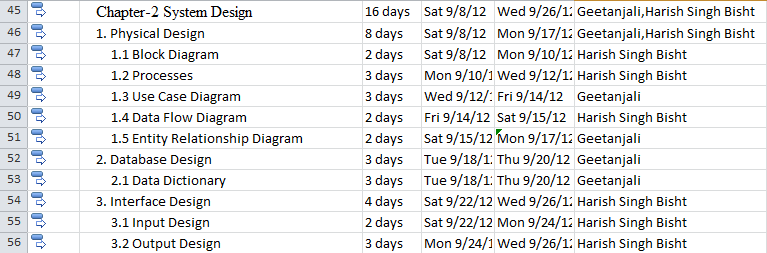
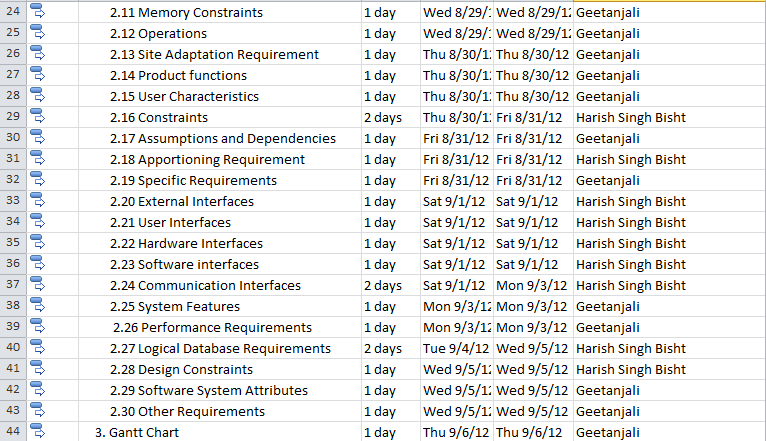
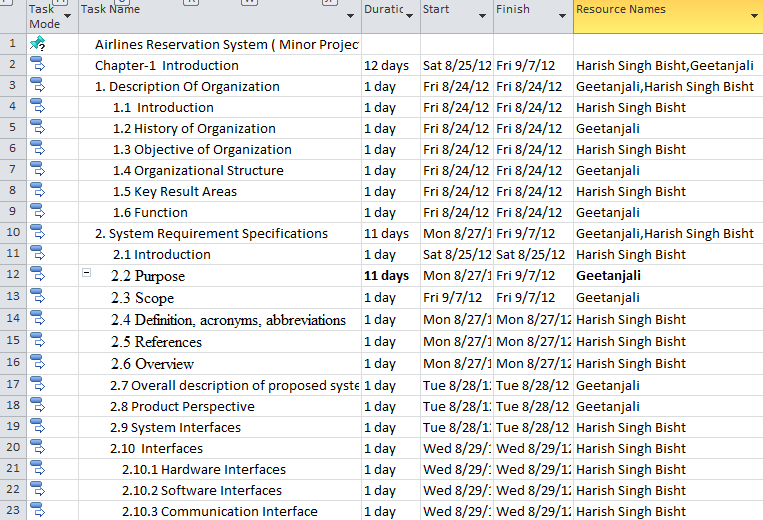
The application will be easily portable on any windows-based system

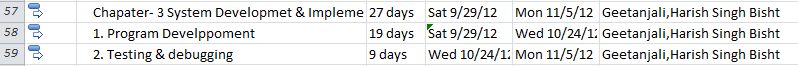
that has oracle installed.

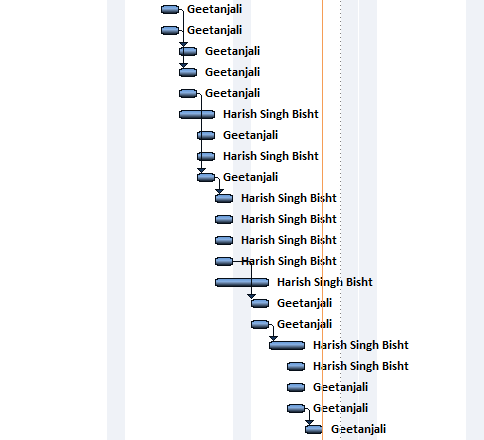
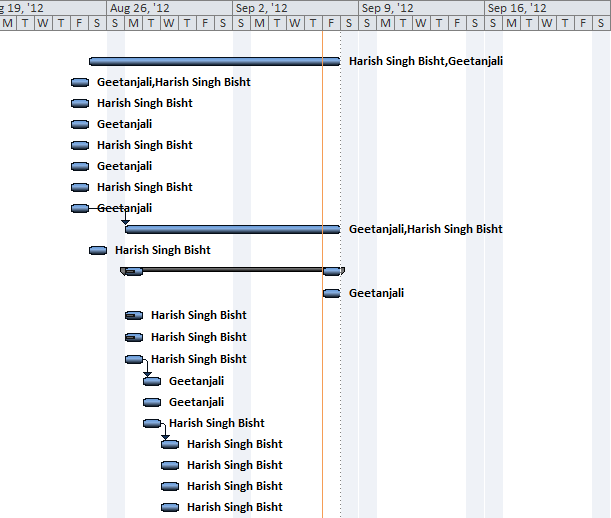
**2.30 Other Requirements**

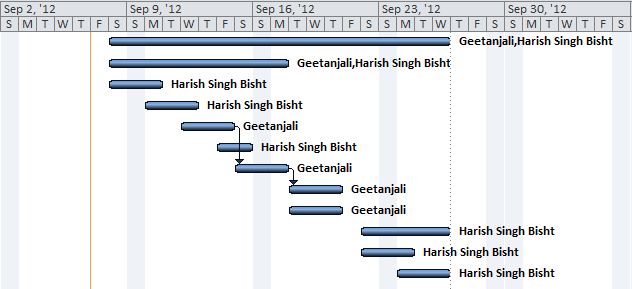
None

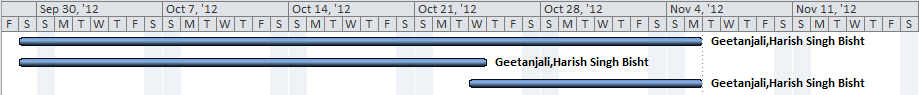
1. **Gantt chart**







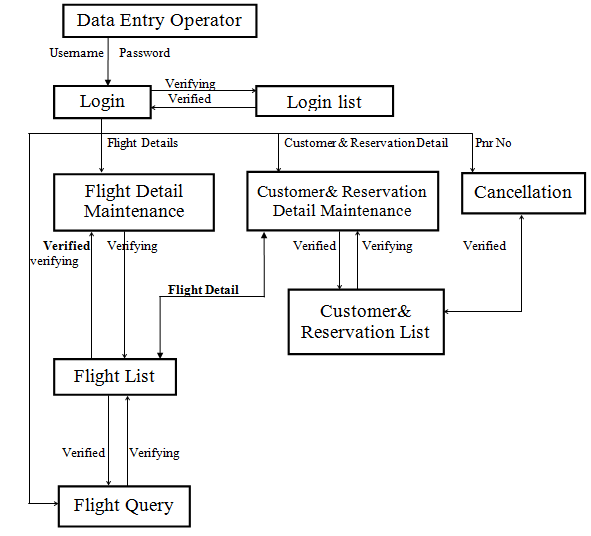




**Chapter 2: System Design**

**2.1 Physical Design**

**2.1.1 Block Diagram**

****

**Figure No-1 Block Diagram**

**2.1.2 Use case diagram**

Reservation Clerk

Customer

**Figure No-2 Use case diagram for Airlines Reservation System**

**2.1.3 Data Flow Diagram**

**2.1.3.1 DFD 0 Level**

Data Entry Operator

Login Details

Booking detail

Ticket

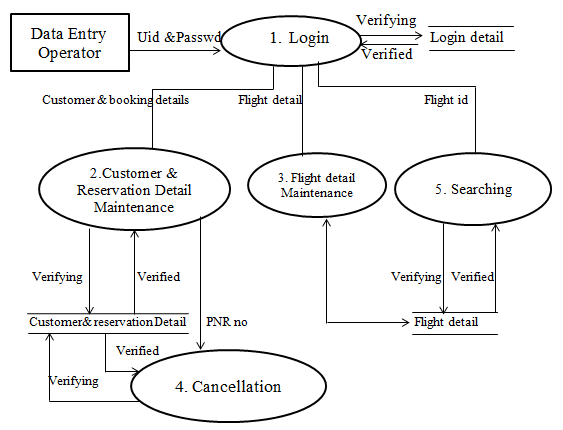
customer

Cancellation details

Detail of flight

**Figure No-3 Data Flow Diagram of 0 level**

**2.1.3.1 DFD 1 Level**



**Figure No-4 Data Flow Diagram of 1 level**

* 1. **2.1.4 Entity Relationship Diagram**

Reservation

**N M**

Refer To

Flight

**Figure No-5 ER Diagram of Airlines Reservation System**

**2.2 Database Design**

The information system of “Airlines Reservation System” performs its function with the help of the data store in certain repositories called Databases of the system. Detailed descriptions of the various databases included in the information systems are tabulated as follows:

**2.2.1 Login Database**

**C:\Users\SAS\Desktop\sct\newdatabase3.TIF**

**2.2.2 Flight Database**

**C:\Users\SAS\Desktop\sct\newdatabase2.TIF**

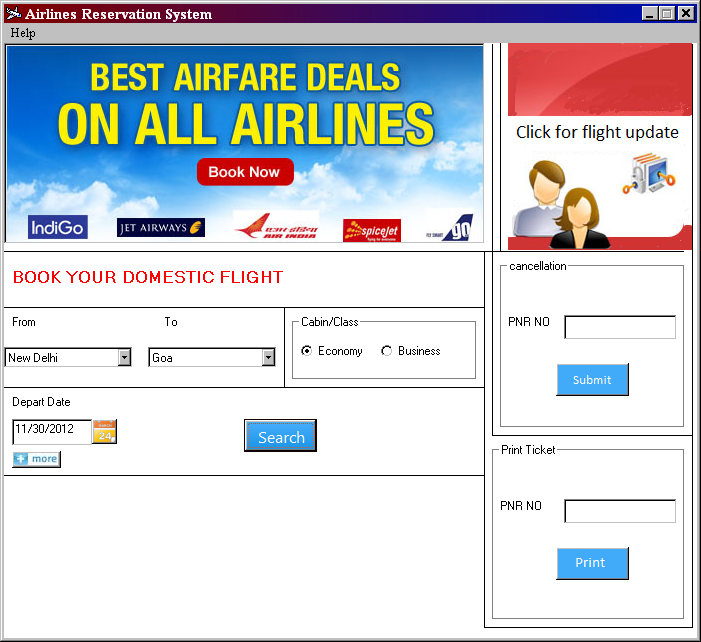
**2.2.3 Customer & Reservation Database**

**C:\Users\SAS\Desktop\sct\newdatabase1.TIF**

**2.3 Interface Design**

The interface design consists of the input and output source layouts. i.e. the input forms and screens and the report layouts that form as a source of outcome and income in the design and implementation of the information system under study

**2.3.1 Main Form**

****

**C:\Users\SAS\Desktop\sct\untitled2.TIF**

Show the total no of flight

Show the result no

Show the Next flight

**C:\Users\SAS\Desktop\sct\untitled3.TIF**

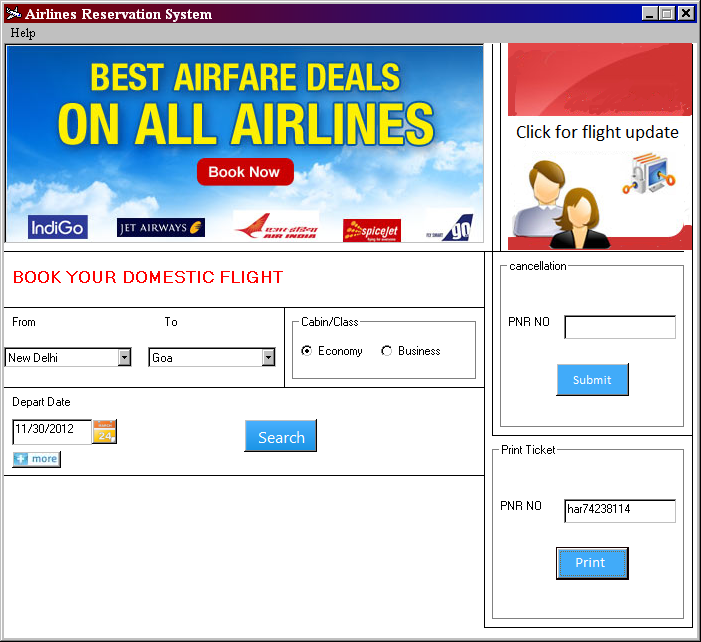
Show the complete information of selected flight

**2.3.2 Customer information form**

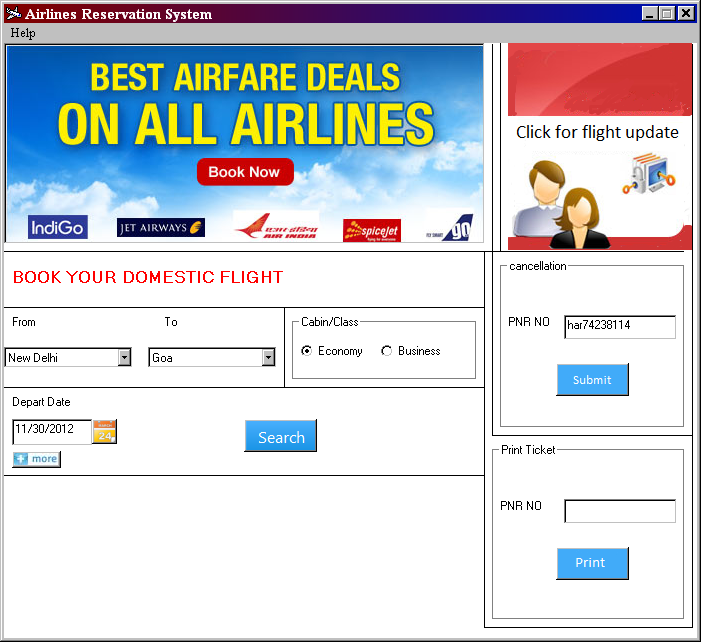
**C:\Users\SAS\Desktop\sct\untitled4.TIF**

**2.3.3 Ticket Form**

**C:\Users\SAS\Desktop\sct\untitled5.TIF**

****

In case lose of ticket enter the PNR No and click on print



In case of ticket cancellation. enter the PNR No and click on submit

**2.3.4 Flight Entry Form**

C:\Users\SAS\Desktop\sct\untitled12.TIF

### Chapter-3: Systems Development & Implementation

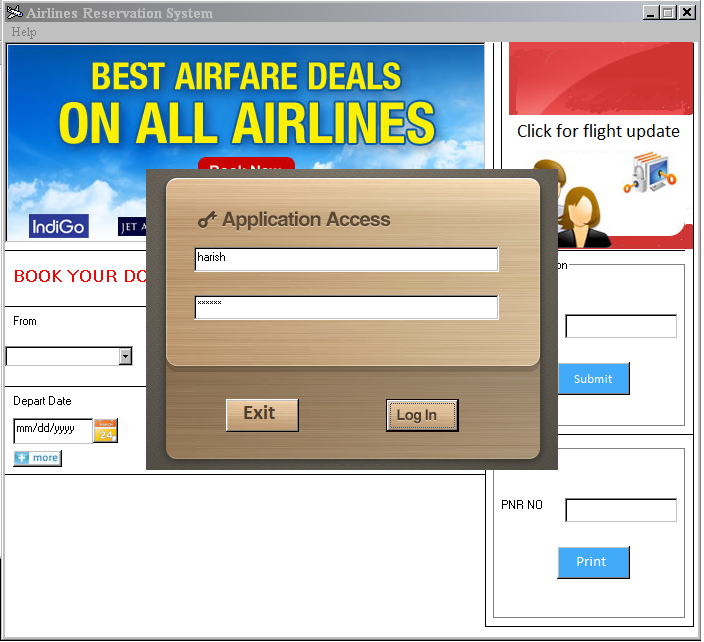
The basic purpose of designing & implementing the proposed system is to automate the process of day-to-day activities like searching the customer details, ticket reservation, ticket cancellation, generate ticket. The manual handling of the record is time consuming & highly prone to errors.

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

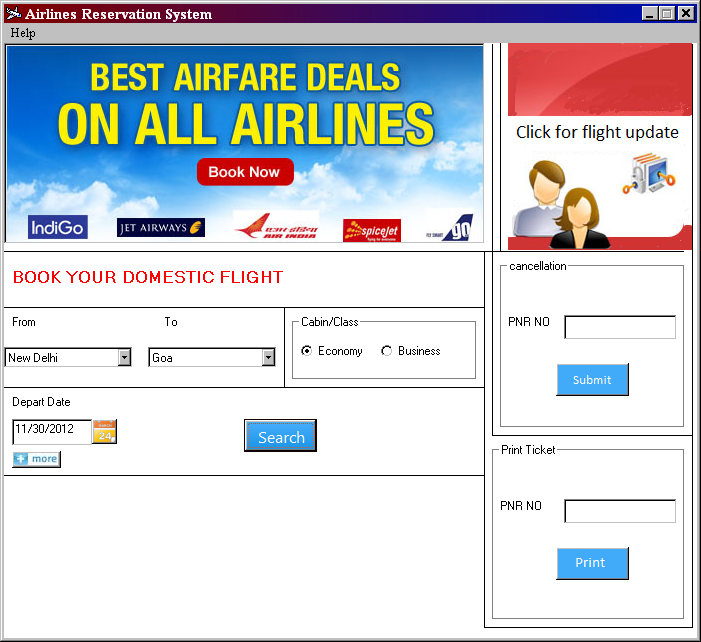
Private Sub Text2\_GotFocus()

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

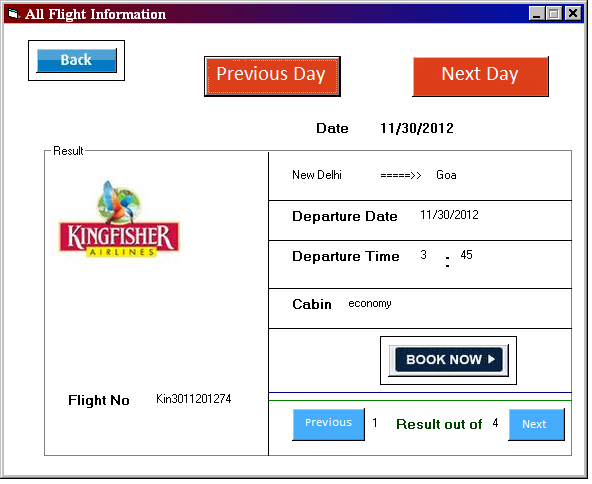
err\_h:

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

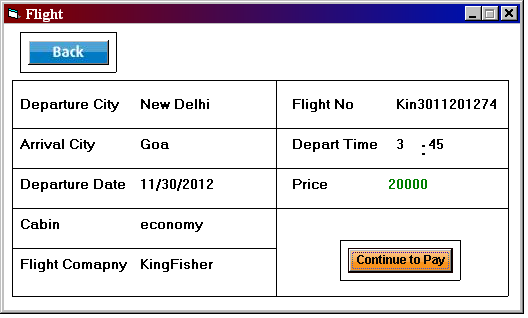
Label17.Visible = True

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

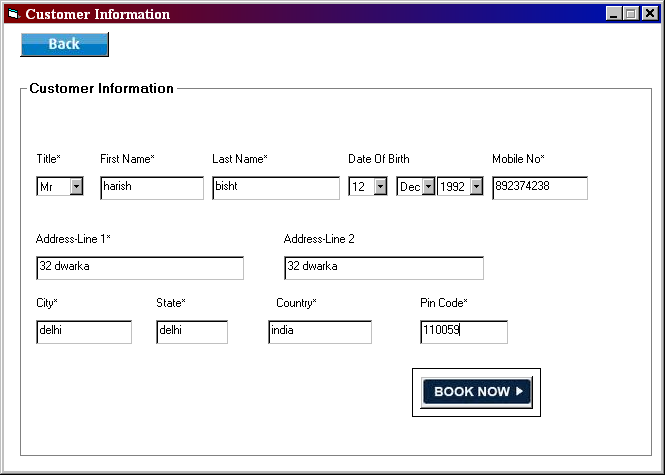
Label16.Caption = depart\_minute

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

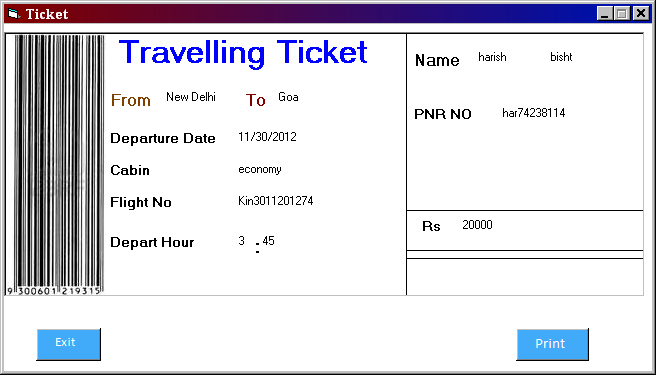
Private Sub title\_box\_Click()

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

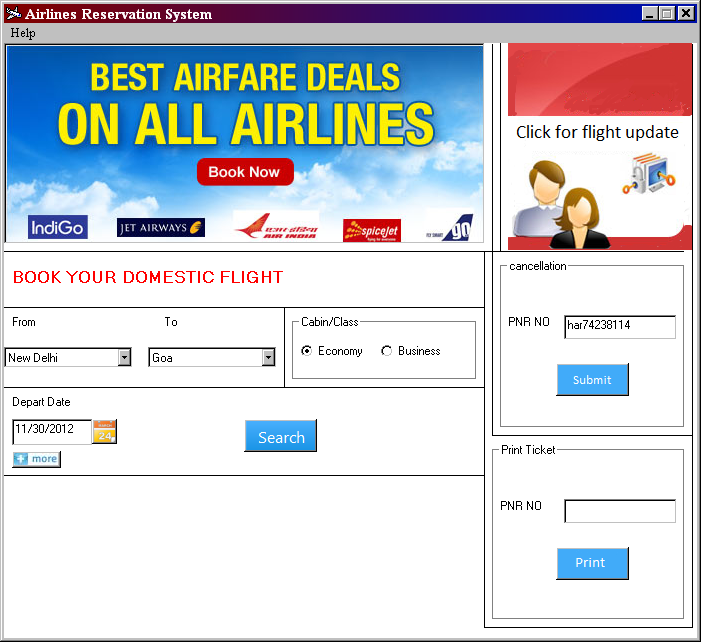
End If

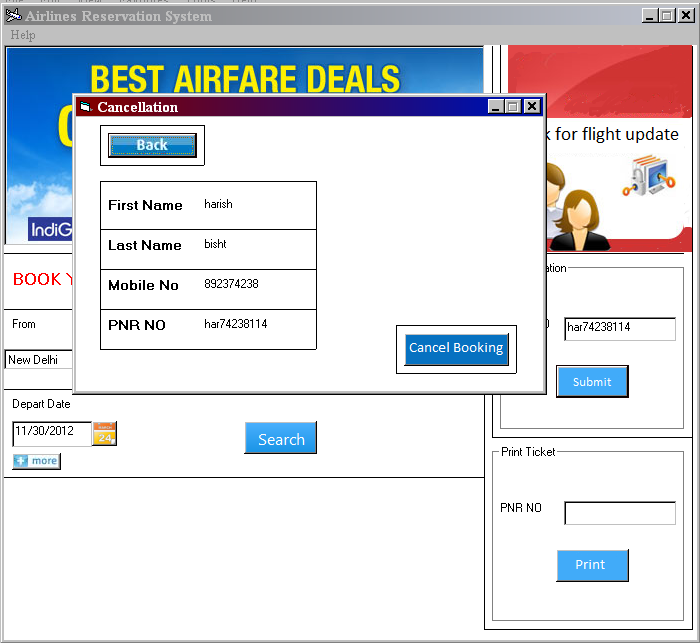
Loop

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

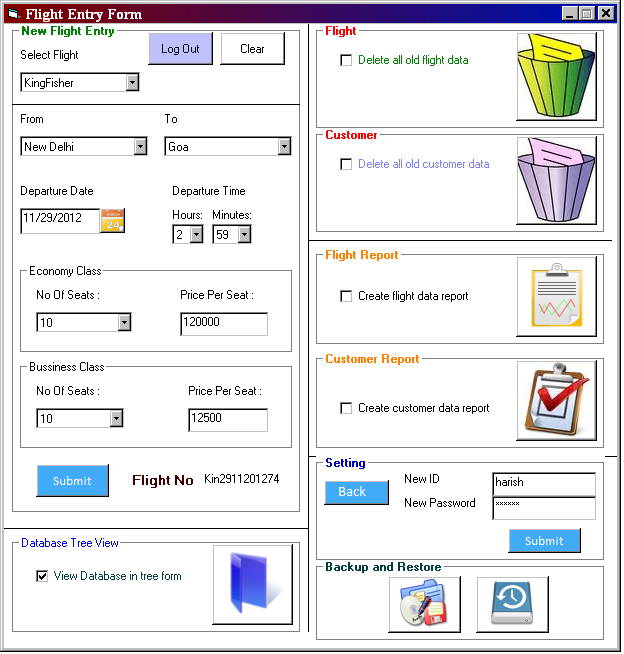
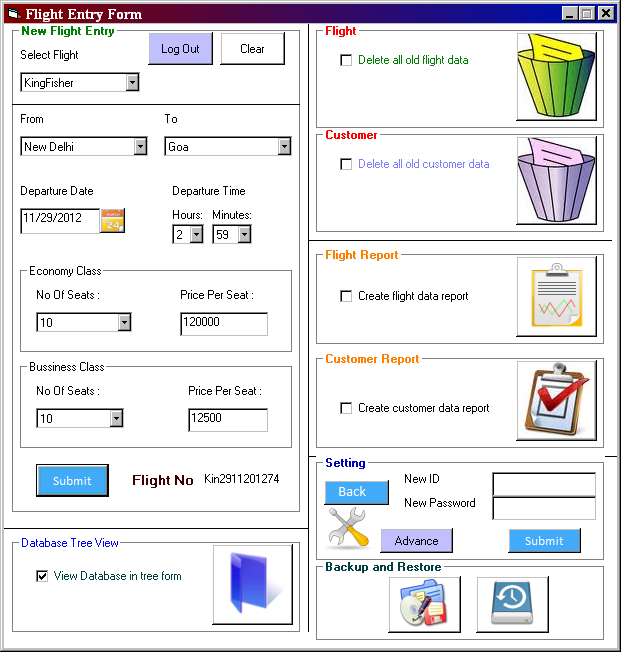
rs1.Update

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

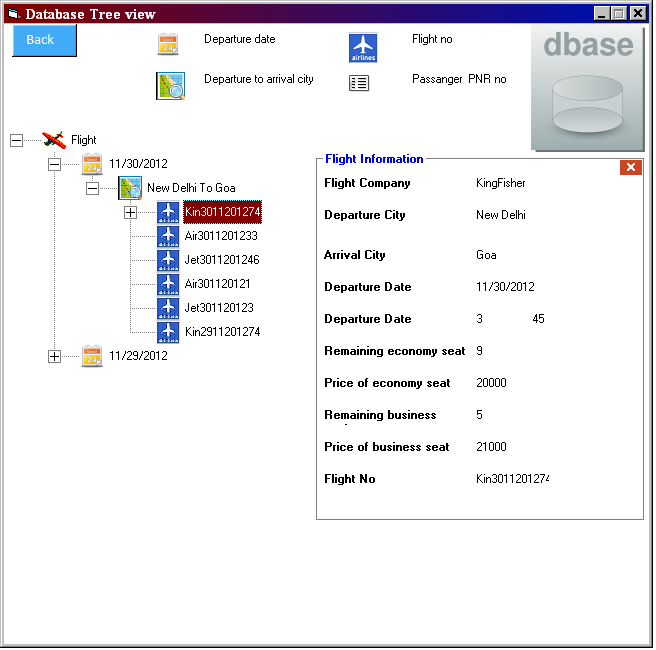
err\_h:

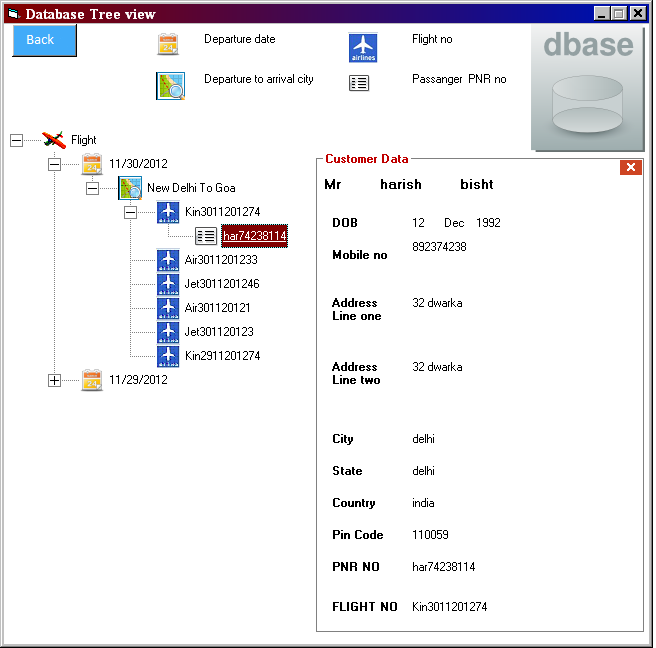
MsgBox "User name and password not found", vbInformation

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:

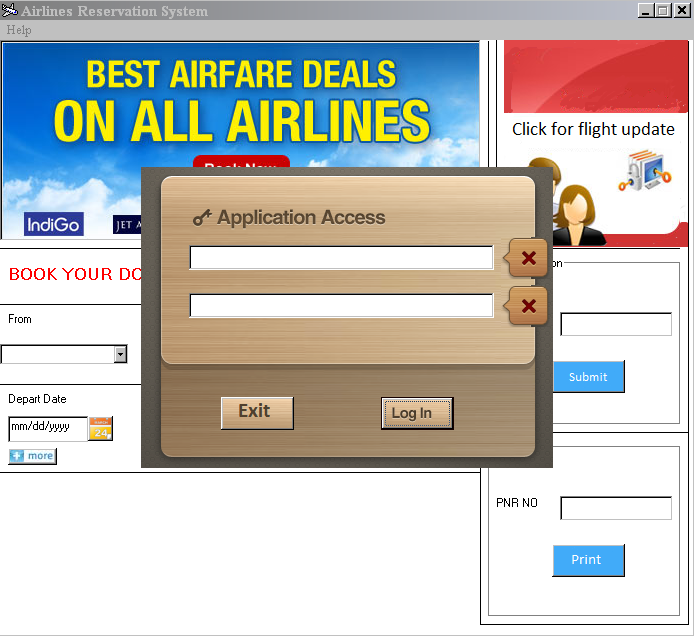
* meets the business and technical requirements that guided its design and development;
* works as expected; and
* can be implemented with the same characteristics

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 :**

****

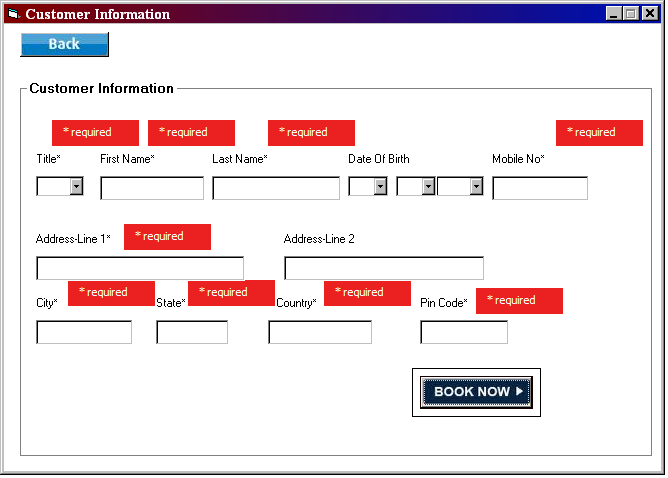
**Permissible Input**: The values entered should be correct, valid and no fields must be

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

**Appendix**

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