PROJECT

ON

AIRLINE RESERVATION SYSTEM

CONTENTS

PROBLEM DEFINITION

The definition of our problem lies in manual system and **a** fully automated system.

Manual system : The system is very time consuming and lazy. This system is more prone to errors and sometimes the approach to various problems is unstructured.

Technical system : With the advent of latest technology if we do not update our system then our business result in losses gradually with time. The technical systems contains the tools of latest trend i.e. computers printers, fax, Internet etc. The systems with this technology are very fast, accurate, user-friendly and reliable.

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TECHNICAL SYSTEM

Need of Airlines system
A few factors that directs us to develop a new system are given below -:
1) Faster System
2) Accuracy
3) Reliability
4) Informative
5) Reservations and cancellations from any where to any place
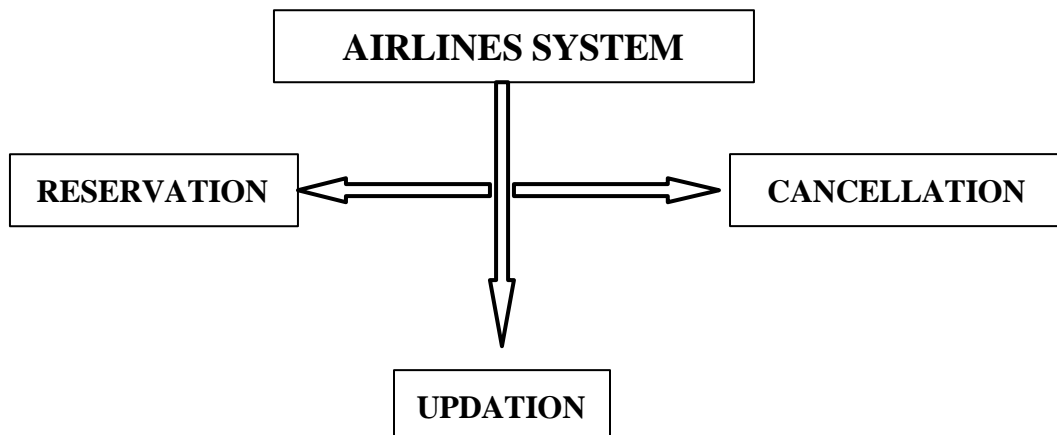
FEASIBILITY STUDY

Feasibility study is to check the viability of the project under consideration. Theoretically various types of feasibilities are conducted, but we have conducted three type of feasibilities explained as under.

ECONOMIC   FEASIBILITY

With the manual system the operating cost of the system is about <u>60 Lacks P.A.</u>. This cost comprises salary of 25 people, stationary, building rent, electricity, water, telephone etc. But with the new system this reoccurring cost comes out to be about <u>20 Lacks P.A</u>. Hence the new system is economically feasible.

TECHNICAL FEASIBILITY

The new system requires only 6 trained person to work with the system and in overall 10 people per office are sufficient. So we will identify 6 best people from existing system and train them.

As our existing system is purely manual, so we need a one time investment of Rs 4 Laks for the purchase of 7 computers, 5 Ticket printers, a laser printer, AC and networking etc. It requires 20 Lacks PA as a operating cost.

With the above details our system is technically feasible as after investing 24 Lacks in a year, the company is still saving Rs 25 Lacks PA.
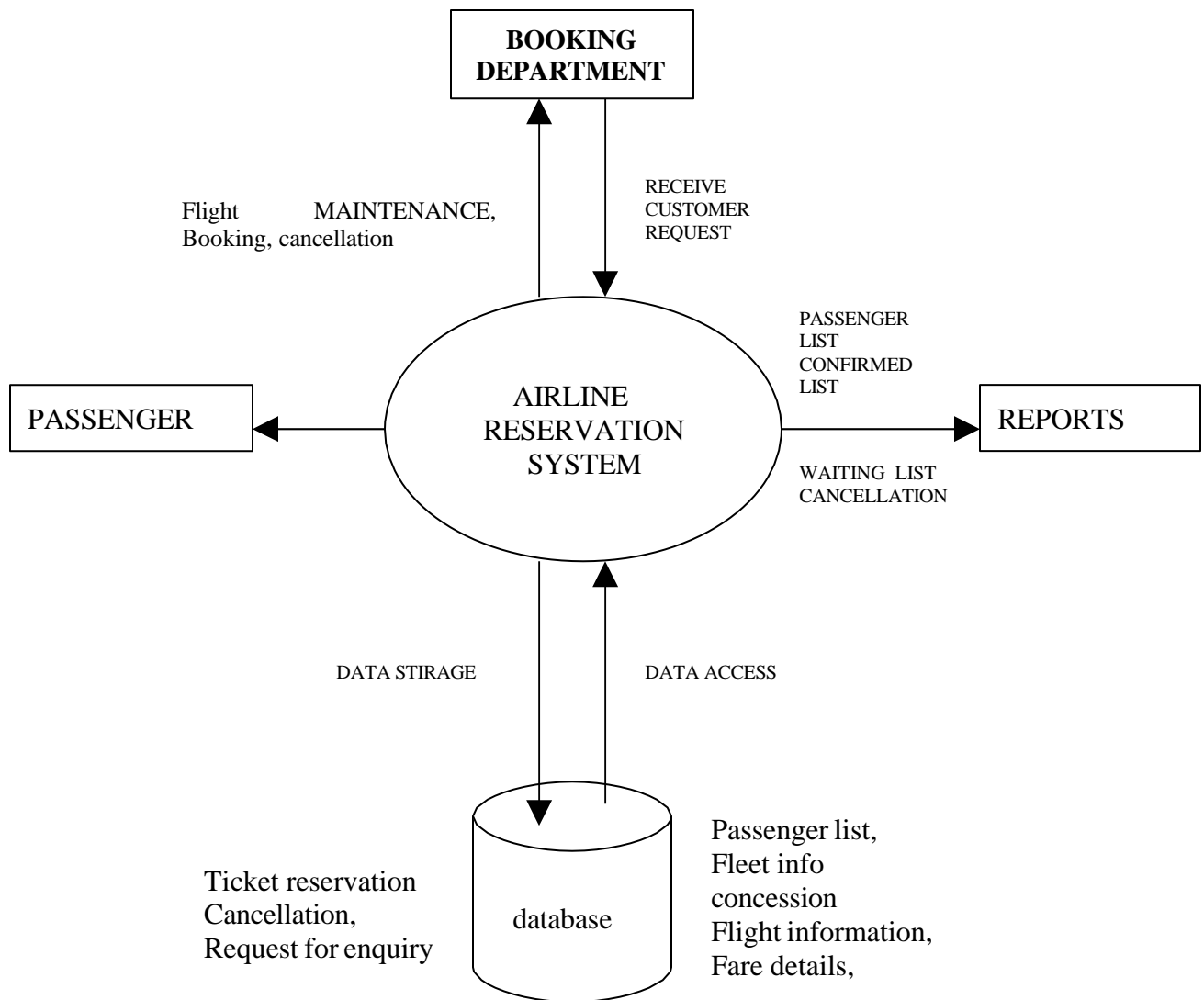
OPERATIONAL FEASIBILITY

The new solution is feasible in all sence but operationally it is not. The new system demands the expulsion of at least 15 people from the company. It creates an environment of joblessness and fear among the employees. It can lead to an indefinite strike in the company also. So the management must take corrective actions prior in advance in order to start the further proceedings.

SYSTEM ANALYSIS

This was the most important phase of my project life cycle .It had connected my maximum time .The block diagram given bellow depict various fact which were understood by one during the analysis phase.

BLOCKDIAGRAM

```
                    ┌──────────────────┐
                    │     BOOKING      │
                    │   DEPARTMENT     │
                    └──────────────────┘
                        ↑        ↓
Flight    MAINTENANCE,          RECEIVE
Booking, cancellation          CUSTOMER
                               REQUEST
                                              PASSENGER
                                              LIST
                                              CONFIRMED
                                              LIST
   ┌────────────┐      ╭──────────────╮      ┌────────────┐
   │ PASSENGER  │ ←────│   AIRLINE    │ ────→│  REPORTS   │
   └────────────┘      │ RESERVATION  │      └────────────┘
                       │   SYSTEM     │       WAITING  LIST
                       ╰──────────────╯       CANCELLATION
                         ↓         ↑

        DATA STIRAGE        DATA ACCESS

                        ╭──────────╮
Ticket reservation      │          │      Passenger list,
Cancellation,           │ database │      Fleet info
Request for enquiry      │          │      concession
                        ╰──────────╯      Flight information,
                                          Fare details,
```

In that phase initially I had observed the system by visiting to Indiragandhi Airport(domestic terminal)   and a few airline reservation agency.
Pardes Airline agencies , Lotus Airline agencies.

The above block diagram is an implementation of this observation .

In the next phase I had various quiries in my mind ,Which I tried to ask from appropriate authorities A sample of my quires is enclosed as Annex 1.

Q.1 Tick mark the features to be included in the new system?

- Enquiry

- Reservation

- Cancellation

- Report

- Edit

- Other specify

Q2. Tick mark that the system should be ?

- Multi-user
- Single user

Q3. Tick marks the total time required for the implementation of the project?

- 3 months

- 6 months

- 9 months

- Others specify

Q4. Tick mark the reports to be Incorporated?

- List of all passenger

- List of all flights

- List of passenger(date wise)

- List of passenger(flight wise)

- Any other

After getting solution my queries I started studying database structure used in the existing system . In this connection I had come to know about various master files as

In passenger list : Passenger name,Address , tel_no , d_o_b, profession father name,

Fleet info: No aircraft, club_pre_capacity, economic capacity, engine type,cruisespeed,air length,

Flight info: f_name, f_code, c_code,t_exeseat no, t_economic seat no.

Concession: concession name , concession code , class , discount , v_o_t , baggage allowance , fare.

Move of payment: Passenger code ,Date of paid ,Current date, cash, Debit,cheque,credit.

Fare: route , destination place ,source place ,Departure time, Arrival time,Flight code,class,Fare.

Reservation: Ticket report, PNR, flight code, destination place, source place, departure time arrival time , Class, number of passenger, Age, sex, Fare, seat .

Enquiry: Ticket no, seat number , pnr.

Cancellation : Pnr, ticket no, Days left, Basic amount, Cancel amount .

Various categories of flight code are display here   CD455,IC548,IC7896,IC567,CD445
Flight schedule - gau to del 12.33 pm to2.33 pm

   In this process further I had visited the air port again in order to INTER VIEW people to know more about the system
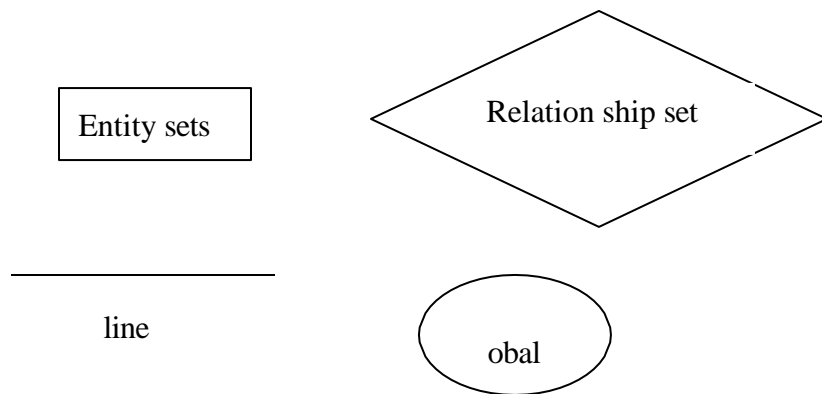 The main purpose was To analyses the method of calculating daily in come reservation cost generation methods, and few concern things. Duty schedule .
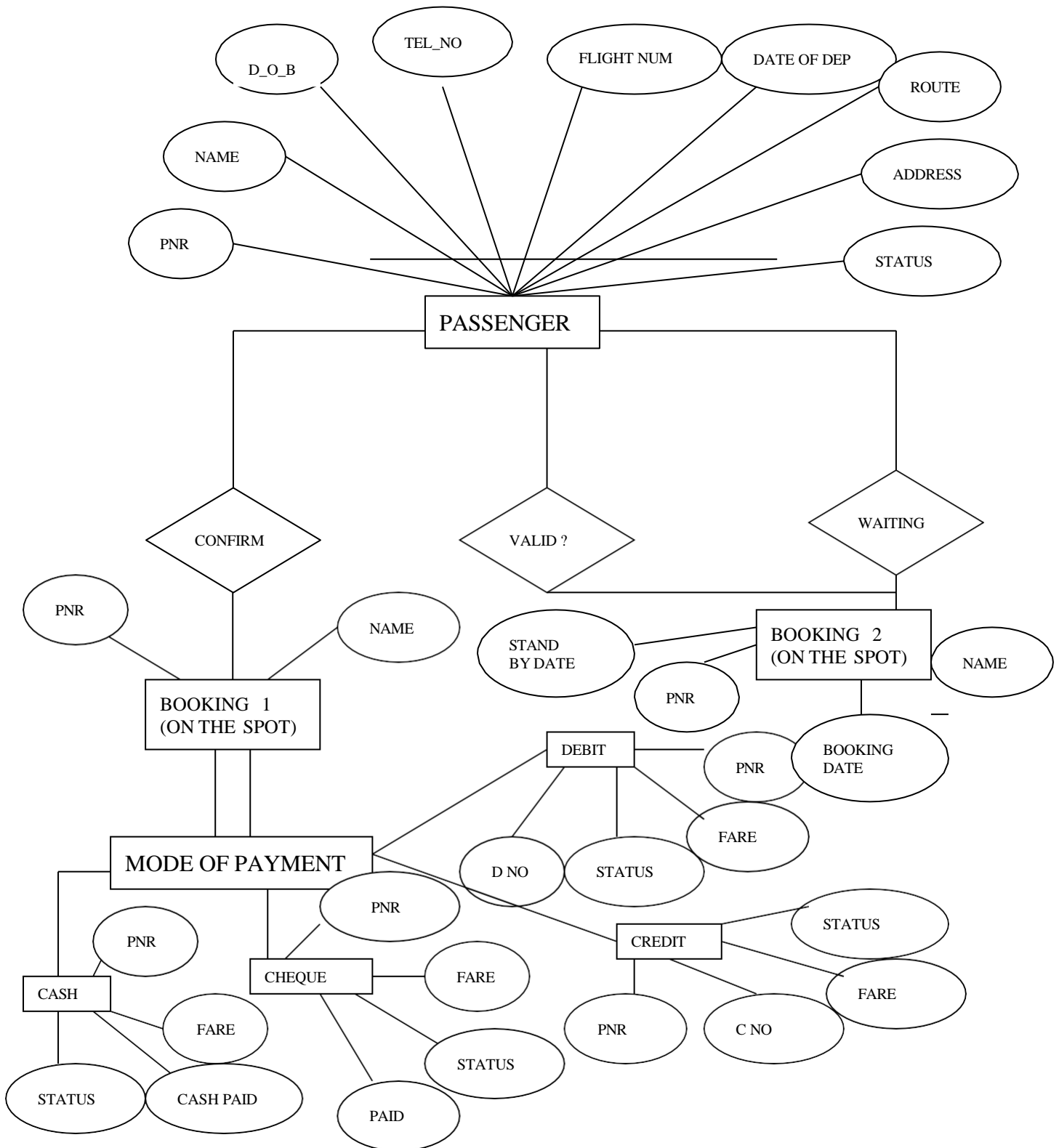
4.<u>SYSTEM DESIGN</u>

In this phase initially I had designed E-R diagram of the processes , in order to identify various entities and relation ship set ,entity set ,attributers, link attributes The Diagram of this process as under.

        After this step We had tried design the data base for the new system and normalized it The tables motivated in data dictionaries   enclosed as annex II is an out come of this step
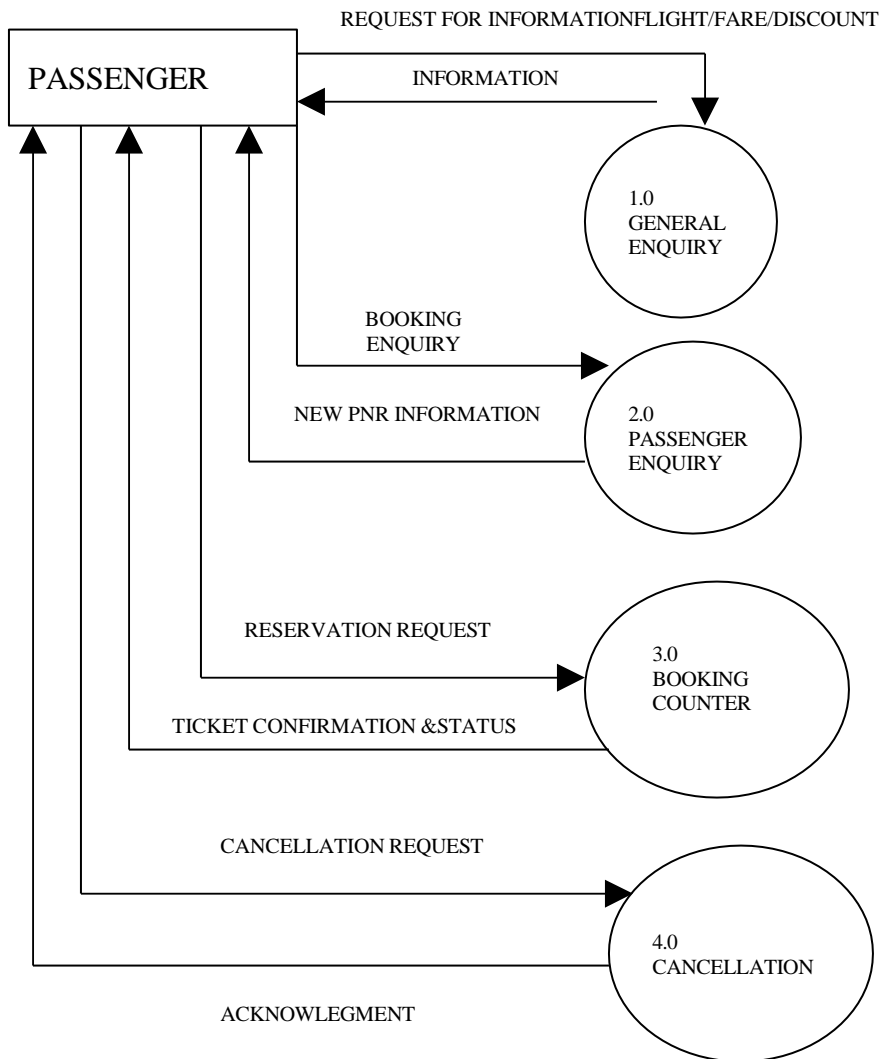
The symbol of entities are shown bellow

| Entity sets |

Relation ship set

line

obal

TEL_NO

E-R DIAGRAM   FOR BOOKING DEPARTMENT

E-R DIAGRAM FOR CANCELLATION

PNR

TEL_NUM

D_O_B

FLIGHT_ID

T_DATE

NAME

ROUTE

ADDRESS

STATUS

Passenger

SEAT AVAILABLE ?

CANCEL ?

ARRIVAL

FLIGHT_NUM

FLIGHTS

COST_ECO

DEPARTURE

SEAT

SEATS_ECO

COST_EXE

SEATS_EXE

CANCEL

PNR

NAME

T_DATE

STATUS

D_CANCEL
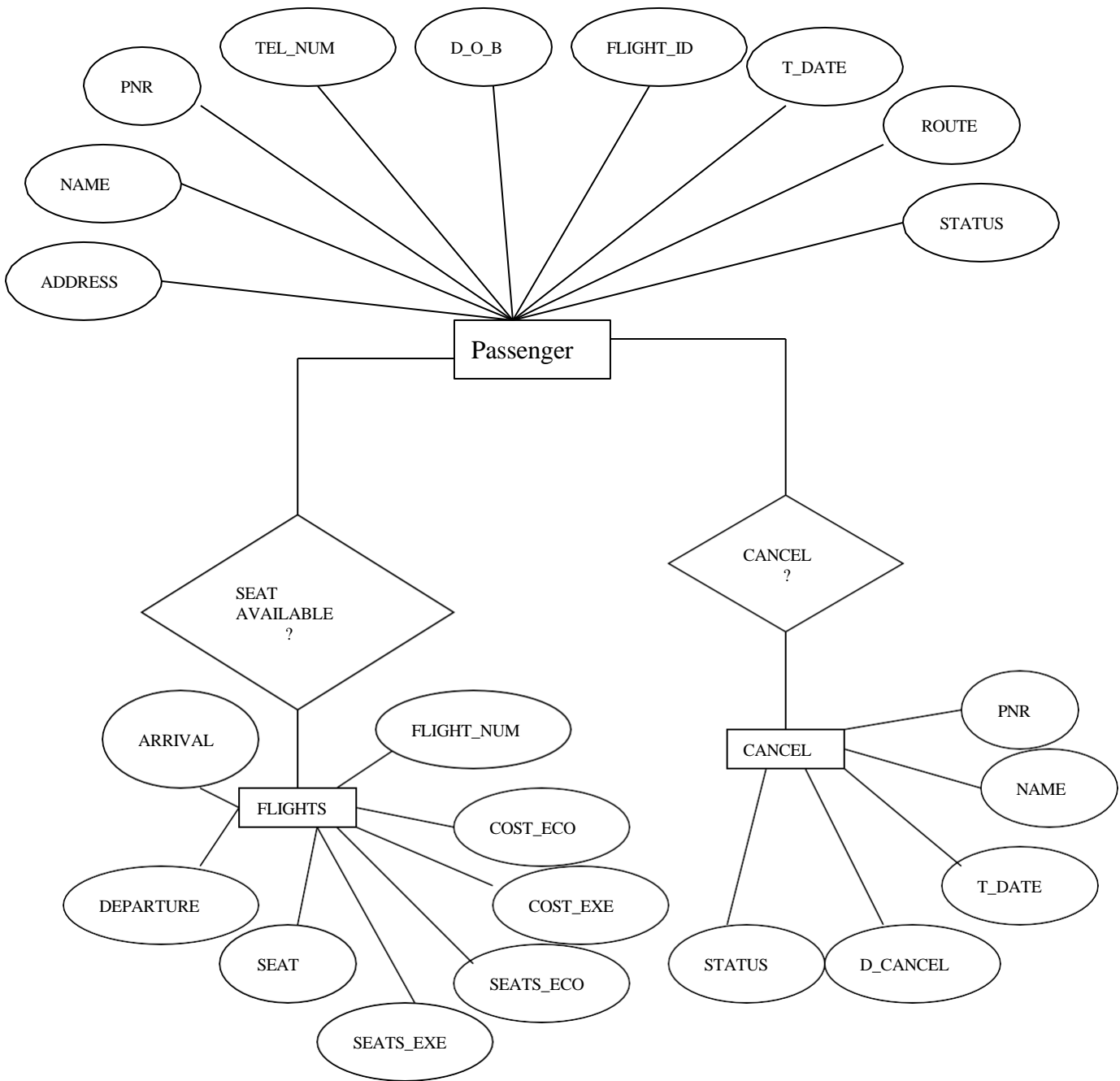
DATA FLOW DIAGRAM

In order to design a better solution. I had designed the DFD for system including all technical processing details is given bellow
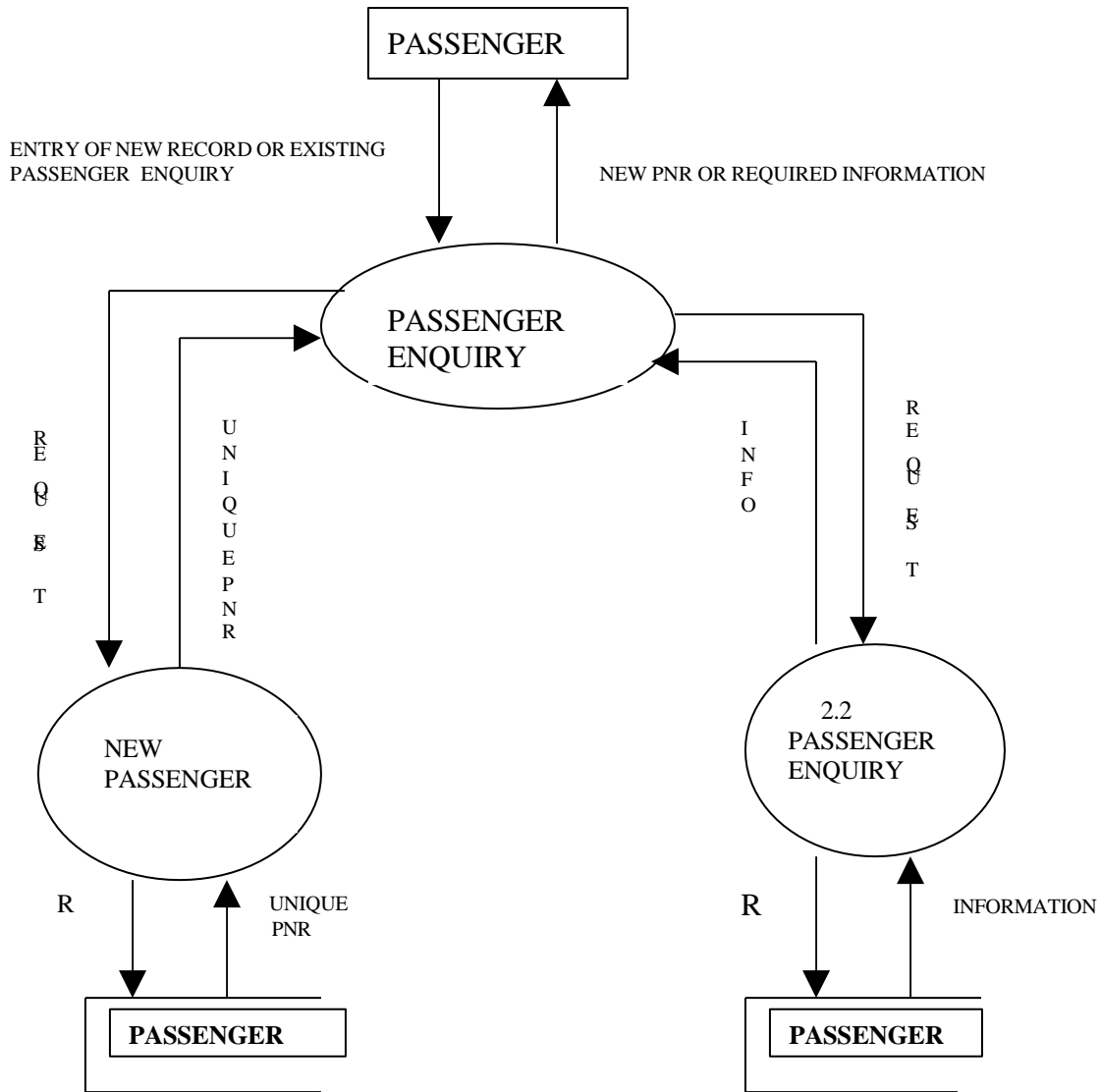
LEVEL 0 DATA FLOW DIAGRAM

REQUEST FOR INFORMATIONFLIGHT/FARE/DISCOUNT

PASSENGER

INFORMATION

1.0
GENERAL
ENQUIRY

BOOKING
ENQUIRY

NEW PNR INFORMATION

2.0
PASSENGER
ENQUIRY

RESERVATION REQUEST

3.0
BOOKING
COUNTER

TICKET CONFIRMATION &STATUS

CANCELLATION REQUEST

4.0
CANCELLATION

ACKNOWLEGMENT

LEVEL 1 DATA FLOW DIAGRAM OF GENERAL ENQUIRY

SYSTEM

PASSENGER

REQUEST FOR
INFOR MATION

REQUIRED
INFOR MATION

1.0
GENERAL
ENQUIRY

R
E
Q
U
E
S
T

I
N
F
O
R
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A
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R
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O
N

I
N
F
O
R
M
A
T
I
O
M

R
E
Q
U
E
S
T

1.1
FLIGHT
ENQUIRY

1.2
FARE
ENQUIRY

1.3
DISCOUNT

R   I

R   I

R   I

FLIGHT

FARE

DISCOUNT
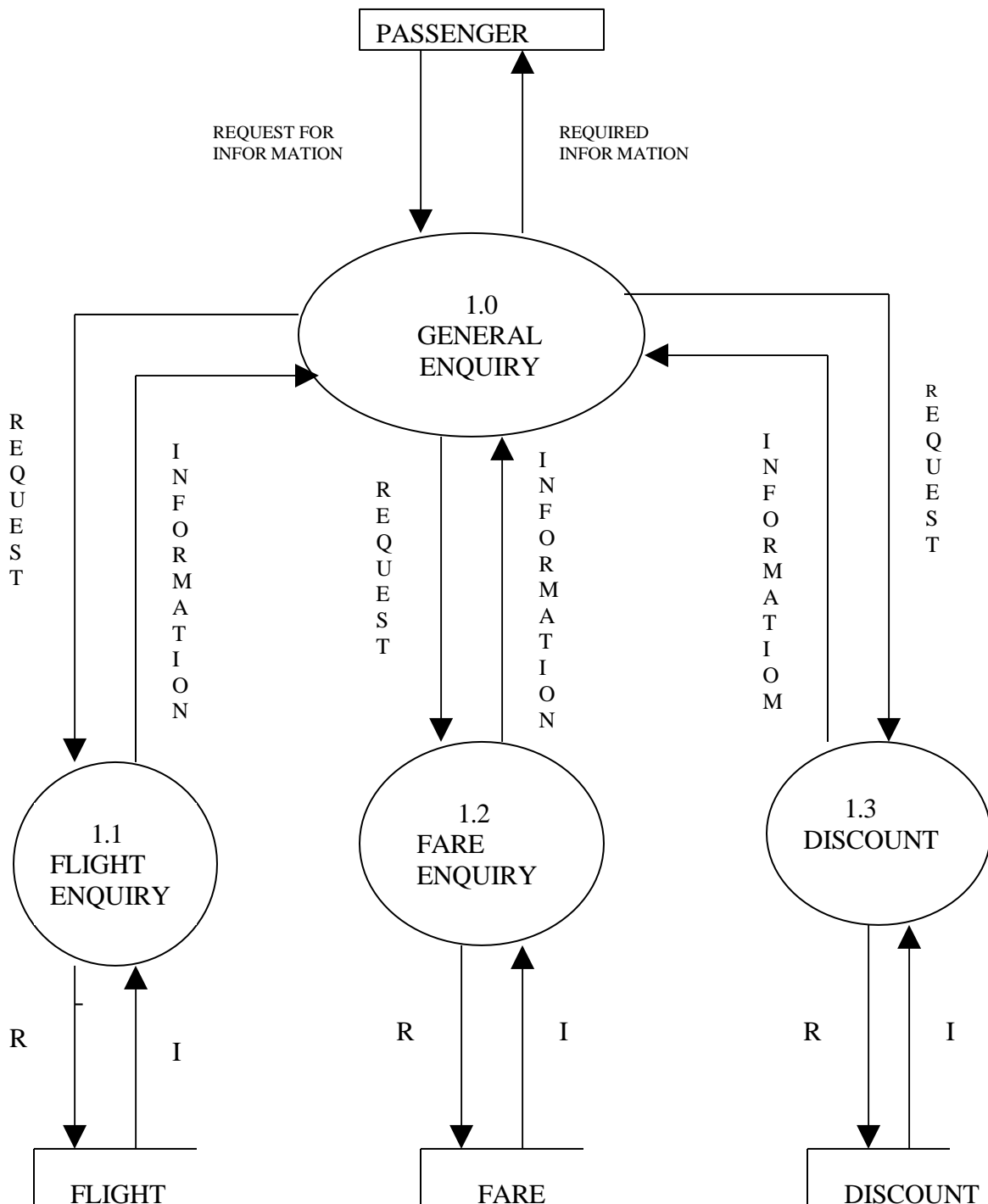
LEVEL 1 DATA FLOW DIAGRAM OF PASSENGER ENQUIRY

SECTION

LEVEL 2 DFD OF BOOKING

PASSENGER

PASSENGER
REQUEST

TICKET(ON THE SPOT)
ACKNOLEDGEMENT(STAND BY)

UPDATE   PASSENGER

3.0
BOOKING
COUNTER

BOOKING
NOW

ACKNOWLEDGEMENT
BOOKING
LATERUPDATE

3.1
ON THE
SPOT

3.2
STAND BY
BOOKING

CASH
PAYMENT
STATUS

SET STATUS TO CONFIRM/WAITING

ENTRY STAND BY DATE

ACKNOLEDGE

BOOKING

BOOKING

CHOOSE
MODE OF
PAYMENT

STATUS(PAID OR NOT)

DEVIT NUMBER

DEVIT

PAY CASH

3.1.1
MODE OF
PAYMENT

STATUS

CREDIT NUMBER

S
T
A
T
U
S

C-
NO

S
T
A
T
U
S

CASH

CREDIT

CHEQUE

LEVEL 2 DFD OF CANCELLATION

PASSENGER

REQUEST FORCANCELLATION

ACKNOWLEDGEMENT

4.0
CANCELLATION
SECTION

UPDATE

CANCELLATION

ACKNOLEDGEMENT

VALIDITY CHEQUE

4.1
CANCEL
TICKET

4.2
RESHEDULE

4.3
VALIDITY
CHEQUE

REQUEST
FOR
CANCEL

ACKNOLEDGE

NEW
DATE

ACK

CHEQUE
VALID

STATUS

PASSENGER

PASSENGER

PASSENGER
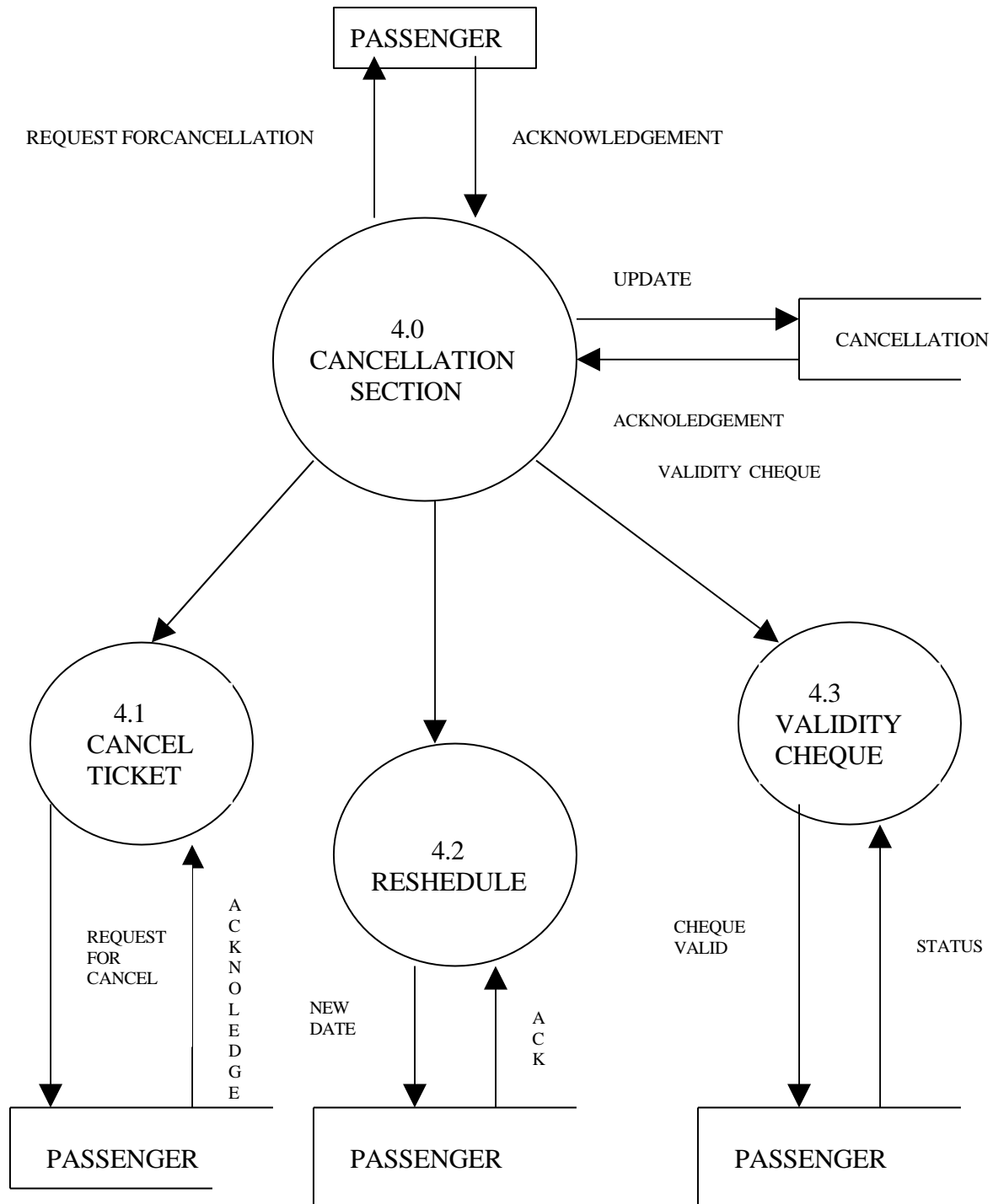
ALGORITHM

In this phase further I had designed algorithms for various technical sub problem a few than are enclosed here with.

RESERVATION

- A PERSON COME TO RESERVED ATICKET.

- THEN HE GIVES HIS FULL DETAILS

- IN CUSTOMER FORM THOSE DETAILS WERE WRITTEN.

- THEN COMPUTER CHEQUE THE DATE WHAT DATE THE PERSON RESERVED

- DATE WISE IT CHEQUE THE FLIGHTS

- IF THE FLIGHT IS FLING THAT DAY

- THEN SYSTEM JUSTIFY THE SPECIFIC FLIGHT ID

- IT CHEQUE ITS SEAT CLASS.

- IF THE PASSENGER WANT TO ECONOMIC CLASS AND WINDOW SIDE SEAT

- THEN SYSTEM CHEQUE IF THERE ANY SEAT IN ECONOMIC CLASS WHICH IS INSIDE THE WINDOW

- IF SEAT IS EMPTY THEN SYSTEM RESERVED THE SEAT .

- THEN TICKET IS GENERATED.

- THE TICKET IS CONFIRMED.

- IF THE CONDITION IS NOT APPLIED THEN IT CHEQUE NEXT SEAT

- AND JUSTIFIED IT .

- IF IT IS NOT ALSO EMPTY THEN IT CHEQUE NEXT BY NEXT.

- IF THERE IS NO SEAT THEN SYSTEM TAKE TICKET WHICH IS NOT CONFIRMED

- THEN IT GIVE WAITING LIST.

- END.

CANCELLATION

- A PASSENGER COME TO CANCEL THE TICKET

- THEN THE SYSTEM OPEN THE DELET FORM

- THEN CLICK SHOE COMMAND

- IT DISPLAY ALL THE PASSENGER LIST

- THEN SELECT THE PNR NUMBER AND CLICK DELET OPTION

- THE SYSTEM SHOW RECORD IS DELETED.

WHEN PASSENGER COME TO RESERVED A TICKET THEN SYSTEM FIND OUT THE FLIGHT DETAILS.

SYSTEM CLICK FLIGHT DETAILS OPTION THEN THE FLIGHT DETAILS FORM OPEN

THOSE SYSTEM ARE FOLLOWED .

FLIGHT_DETALS:-

- . IN FLIGHT DEAILS WE FIRST CREATE A FORM.

- . THEN WE MAKE ALL TEXT BOX.

- . WE CREATE COMMAN BOX..
- . IN THIS FORM WE ARE USE VARIOUS COMMAND BOX THOSE ARE

- PREVIOUS,FIRST,NEXT, ADD,NEW,UPDATE, DELETE, SAVE

- . IN THIS FORM WE ADD NEW FLIGHT RECORD AND UPDATE IT THEN THE

- VALU IS GO TO THE DATABASE.

- .WHEN WE CLICK NEXT , LAST , PREVIOUS, FIRST COMMAND BUTTON

- THEN IT SHOW VARIOUS THING SERIALLY.

- A PERSON COME TO KNOW THE TIMMINGS FOR THE FLIGHT WHICH IS GO FROM DELHI TO GAU.

- THEN WE CLICK SHOW COMMAND BUTTON.

CONCESSION

- FIRST IT CLICK THE CONCESSION BOX.

- CONCESSION BOX OPEN

- IT SELCT THE CETEGORI.

- THEN IT IS CALCULATE.

- AND THE FARE IS CALCULATE.

- THEN FINAL FARE IS GENERATE IN TICKET.

INPUT SCREEN

As a last step in design phase I had designed various Input and out put inter phase screen .The sample format of this screens is enclosed in annex III..

THIS IS A PICTURE OF THE MAIN MENU.
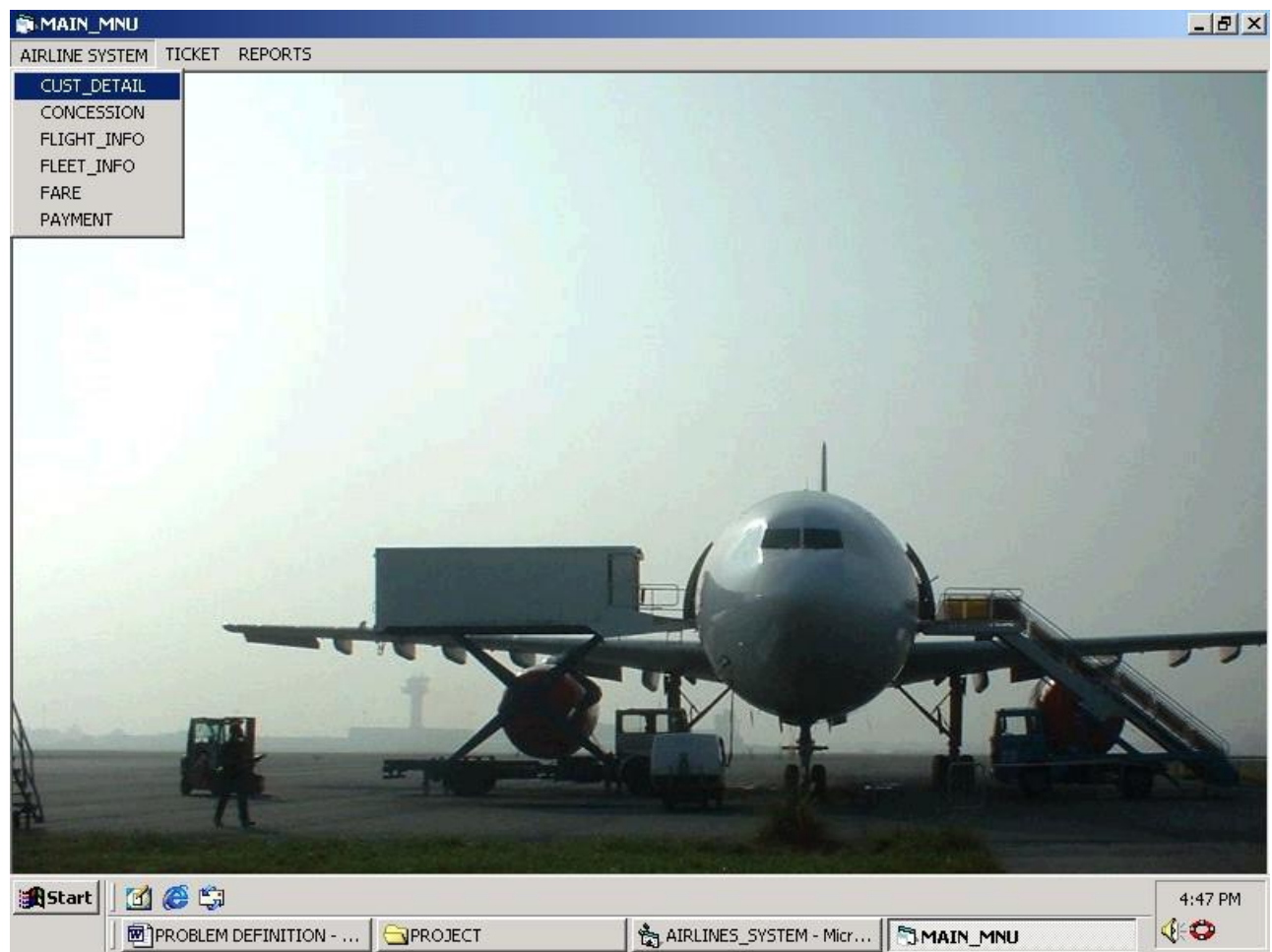
In this picture there are three parts . Those are master file, ticket , report,
When we click in master file then it show   six forms those are custodial , concession
Flight info , fleet info, fare ,payment . when we click any one of this then the form is
Open. Now we open each file one by one.

THIS IS A FORM OF CUSTOMER DETAIL

In this form we enter the customer detail. When we enter the new name then we click add button and then update .Then it is automatically update .This is under master file. In this form first button work for show first record ,next button work for show next record. Preview show the just preview record.

THIS IS A FORM OF CONCESSION

In this form there are several concession type are shown.

Those concessions are 1.Student

                2.Senior citizen.

                3.Cancer patient.

                4. Blind passenger.

                5. Armed force.

                6.Youth fare.

                7. Locomotor

When we click any one of them the relevant condition are open.

In this form when we click locomotor category then it show its conditions

- **code**.................7

- **class…..............economic**

- **discount…** **50%**

- **v_o_t…** ....**1 year**

- **baggage allowance..20kg**

- **fare basis ………….service concerned.**

THIS IS A FORM OF   FLIGHT INFORMATION

In this form we are watching the flight information .It has several fields those are

- **Flight name**

- **Flight code**

- **Class code**

- **Class name**

- **Total seat number.**

In this   form we enter   the flight detail   .When we enter the new flight then we click add button and then update .Then it is automatically update .This is under master file. In this form   first button work for show first record ,next button work for show next record. Preview show the just preview record

THIS IS A FORM OF FLEET INFORMATION.

Fleet information is a special type of form in this form there are some field are include .In db como1 list of flight are coming when we click in run time. In fleet information there are basic type of flights those are

737-400

737-500 ⟶ **Clube pre capacity…..........00**

737-700 **Economic capacity…............62**
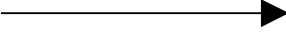
737-800 **Engine type…......................PW127F**

737.900 **Cruisespeed…......................511km/hr**

Air length…..........................27.17N

Wing spam…........................27.0 N

THIS IS A FORM OF THE ROUTE BASIS FARE.

This is a form of fare in this fare form there are various fields those are

- **Route**

- **S_place**

- **D_place**

- **Via**

- **D_time**

- **A_time**

- **Stoppage**

- **Flight_code**

- **Class_code**

- **Fare**

In this form we enter the fare detail .When we enter the new fare then we click add button and then update .Then it is automatically update .This is under master file.In this form first button work for show first record ,next button work for show next record. Preview show the just preview record

THIS IS A FORM OF RESERVATION.

This is reservation form or ticket .PNR number are generated automatically .When
click passenger age then fare is coming by the route based. When we click total
button then total fare is shown. When we click in Print command button then the ticket
is print. And when we click in exit button then the form is closed.

THIS FORM IS ENQUIRY.

This is a form of ENQUIRY .
If any person come to AIRPOART want to know that its seat reserved or not
Then system open the enquiry form and put the value of ticket no and click
confirm box .If it is confirmed then it show value of the all concerning data .
Either show not confirmed.

THIS IS A CANCELLATION FORM.

This is a form of cancellation .When a person come to cancel his ticket then ,in the form the passenger code are put and click the show button system will show the value of data and refund amount. Then click on the cancel command. Then automatically the record is deleted.

CONCESSION REPORT ARE SHOWN BELLOW.
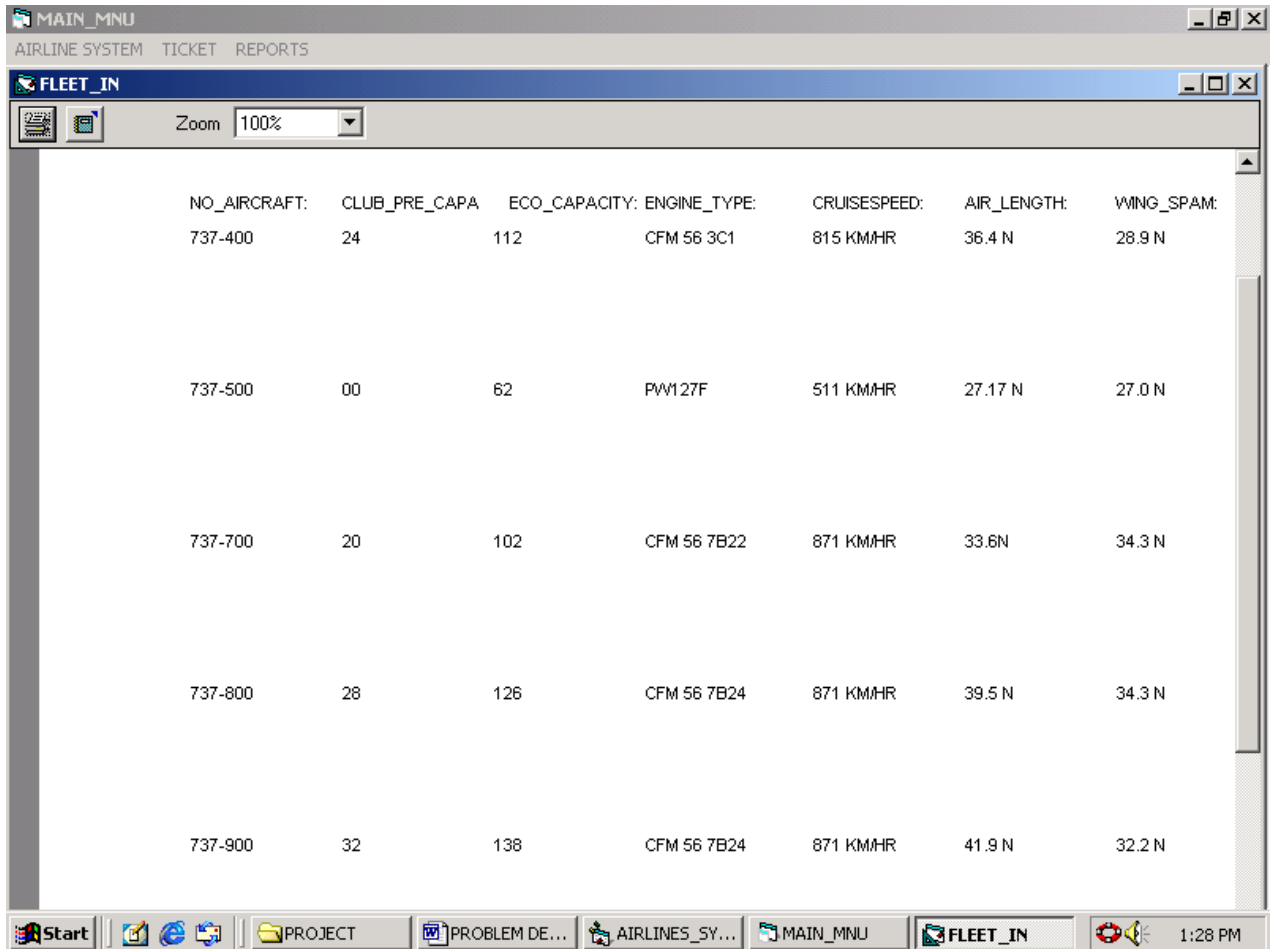
This is report of concession .Various type of concession category are shown upper.

THIS IS A REPORT OF CUST DETAIL.
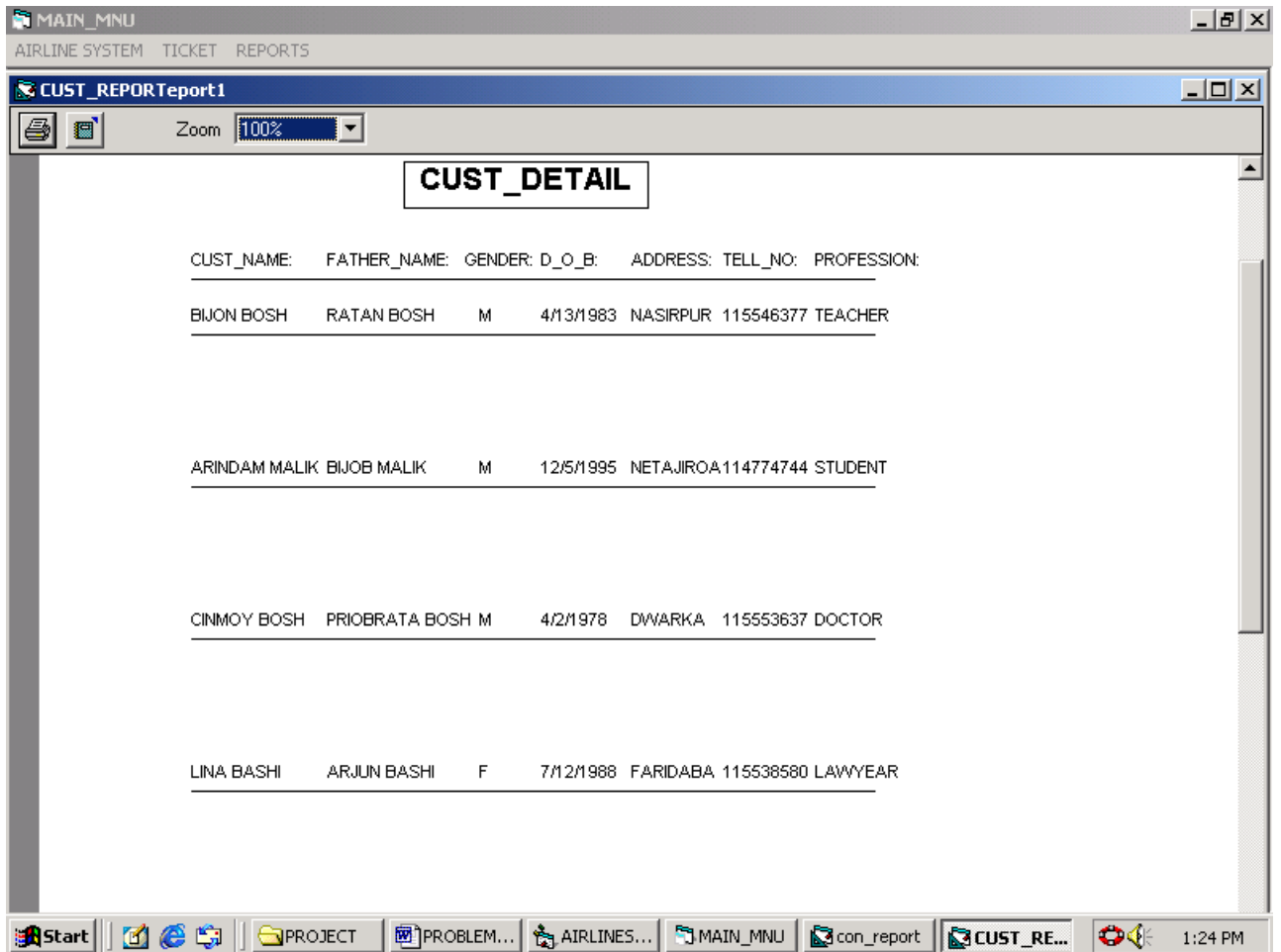
When we put passenger detail in passenger record then it is automatically set in report list.

THIS IS FLEET INFORMATION REPORT.

MAIN_MNU

AIRLINE SYSTEM   TICKET   REPORTS

FLEET_IN

Zoom 100%

NO_AIRCRAFT:	CLUB_PRE_CAPA	ECO_CAPACITY:	ENGINE_TYPE:	CRUISESPEED:	AIR_LENGTH:	WING_SPAM:
737-400	24	112	CFM 56 3C1	815 KM/HR	36.4 N	28.9 N
737-500	00	62	PW127F	511 KM/HR	27.17 N	27.0 N
737-700	20	102	CFM 56 7B22	871 KM/HR	33.6N	34.3 N
737-800	28	126	CFM 56 7B24	871 KM/HR	39.5 N	34.3 N
737-900	32	138	CFM 56 7B24	871 KM/HR	41.9 N	32.2 N

Start   PROJECT   PROBLEM DE...   AIRLINES_SY...   MAIN_MNU   FLEET_IN   1:28 PM

THIS IS A REPOT OF ALL FLIGHT.

f_name:	f_code:	c_code:	t_exeseatno:	t_ecoseatno:
IC	879	(Y+J)	89	89
IC	890	(Y+J)	45	54
CD	7755	(Y+J)	45	6
CD	7757	(Y+J)	656	565
CD	7892	(Y+J)	56	65

TABLES

THE LIST OF TABLE ARE WRITTEN HERE WHICH ARE USED IN DATABASE.

CUST_DETAIL

FIELD TYPE	TYPE	DESCRIPTION
T _DATE	TEXT	TRAVEL DAT
CUST_NAME	TEXT	CUSTOMER NAME
FATHER _NAME	TEXT	CUSTOMER FATHER NAME
GENDER	TEXT	GENDER OF CUSTOMER
D_O_B	DATE/TIME	DATE OF BIRTHOFCUCTOMER
ADDRESS	TEXT	ADDRESS OF CUSTOMER
TEL_NO	NUMBER	CUSTOMER TELPHONE NUMBER
PROFESSION	TEXT	PROFESSION OF CUSTOMER
SECURITY	TEXT	SECURITY OF CUSTOMER
CONCESSION	TEXT	CONCESSION OF SECURITY

FLIGHT INFORMATION

F_NAME	TEXT	FLIGHT NAME
F_CODE	NUMBER	FLIGHT CODE
C_CODE	TEXT	CLASS CODE
T_EXE SEATNO	NUMBER	TOTAL EXECUTIVE SEATNUM,BER
T_ECO SEATNO	NUMBER	TOTAL ECONOMIC SEAT NUMBER

FLEET INFORMATION

FIELD NAME	DATATYPE	DESCRIPTION
NO_AIRCRAFT	TEXT	NUMBER OF AIRCRAFT
CLUB_PRE_CAPACITY	TEXT	CLUB PRE CAPACITY
ECO_CAPACITY	TEXT	ECONOMIC CAPACITY
ENGINE_TYPE	TEXT	ENGINE TYPE
CRUISESPEED	TEXT	CRUISESPEED
AIR_LENGTH	TEXT	LENGTH OF AIR
WING_SPAM	TEXT	WING_SPAM

CONCESSION

CONCE_NAME	TEXT	CONCESSION NAME
CONCE_CODE	NUMBER	CODE OF CONCESSION
CLASS	TEXT	CLASS OF CONCESSION
DISCOUNT	TEXT	DISCOUNT CONCESSION BASIS
V_O_T	TEXT	VALIDITY OF TICKET
BAG_ALLOW	TEXT	BAGGAGE ALLOWANCE
FARE_BASIC	TEXT	FARE BASIC FIXED

FARE

FIELD NAME	DATATYPE	DESCRIPTION
ROUTE_CODE	TEXT	CODE NUMBER OF ROUTE
S_PLACE	TEXT	SOURCE PLACE
VIA	TEXT	VIA
D_PLACE	TEXT	DESTINATION PLACE
D_TIME	DATE/TIME	DEPARTUE TIME
A_TIME	DATE/TIME	ARRIVAL TIME
F_CODE	TEXT	FLIGHT CODE
C_CODE	TEXT	CLASS CODE
FARE	TEXT	FARE OF CLASS

TICKET REPORT

TICKET NO	NUMBER	TICKET NUMBER
PNR	NUMBER	PASSENGER NUMBER
F_ID	TEXT	FLIGHT ID
S_PLACE	TEXT	SOURCE PLACE
D_PLACE	TEXT	DESTINATION PLACE
T_DATE	TEXT	TRAVEL DATE
D_TIME	DATE/TIME	DEPARTURE TIME
A_TIME	DATE/TIME	ARIVAL TIME
FARE 1	NUMBER	FARE OF FIRSTPASSENGER
FARE 2	NUMBER	FARE OF SECOND PASSENGER
FARE 3	NUMBER	FARE OF HIRDPASSENGER
FARE 4	NUMBER	FARE OF FOURTH PASSENGER
FARE 5	NUMBER	FARE OF FIFTHPASSENGER
FARE 6	NUMBER	FARE OF SIXTHPASSENGER
SEAT_NO 1	NUMBER	SEAT NUMBER OF 1ST PASSENGER
SEAT_NO 2	NUMBER	SEAT NUMBER OF 2ND PASSENGER
SEAT_NO 3	NUMBER	SEAT NUMBER OF 3RD PASSENGER
SEAT_NO 4	NUMBER	SEAT NUMBER OF 4TH PASSENGER
SEAT_NO 5	NUMBER	SEAT NUMBER OF 5TH

		PASSENGER
SEAT_NO 6	NUMBER	SEAT NUMBER OF 6TH PASSENGER
AGE 1	NUMBER	AGE OF 1ST PASSENGER
AGE 2	NUMBER	AGE OF2ND PASSENGER
AGE 3	NUMBER	AGE OF 3RD PASSENGER
AGE 4	NUMBER	AGE OF 4TH PASSENGER
AGE 5	NUMBER	AGE OF 5TH PASSENGER
AGE 6	NUMBER	AGE OF 6TH PASSENGER
CLASS	TEXT	CLASS
PASSENGER	NUMBER	TOTAL PASSENGER

ENQUIRY

T_NO	TEXT	TICKET NUMBER
F_NAME	TEXT	FLIGHT NAME
F_CODE	NUMBER	FLIGHT CODE
C_SEATNO	NUMBER	CLASS SEAT NUMBER
C_FARE	NUMBER	CLASS FARE
CUST_CODE	NUMBER	CUSTOMER CODE
T_DATE	TEXT	TRAVEL DATE
T_TIME	DATE/TIME	TRAVEL TIME

CANCELLATION

CUST_CODE	TEXT	CUSTOMER CODE
CLASS	TEXT	CLASS
S_NO	NUMBER	SEAT NUMBER
DAYS LEFT	DATE/TIME	DAYS LEFT
HOURS LEFT	DATE/TIME	HOURS LEFT
BASIC AMMOUNT	TEXT	BASIC AMMOUNT
CANCELAMMOUNE	NUMBER	CANCEL AMMOUNT

RULES

DATE FROM DEP	TEXT	DATE FROM DEPARTURE
PERCENTAGE	TEXT	PERCENTAGE OF CANCEL
REFUND	NUMBER	REFUND AMMOUNT

TERMS

AGE	TEXT	AGE OF PASSENGER
SEX	TEXT	SEX OF PASSENGER
FARE	NUMBER	FARE OF PASSENGER

RESERVED SEAT

F_CODE	TEXT	FLIGHT CODE
T_RES_ECO_SEAT	NUMBER	TOTAL RESERVED ECONOMIC SEAT
T_RES_EXE_SEAT	TEXT	TOTAL RESERVED EXECUTIVE SEAT
T_DATE	TEXT	TRAVEL DATE
WAITING_NO	NUMBER	WAOTING LIST

CODINGS

The coding of the project under consideration is enclosed in annex - IV

Coding for Reservation

```
Option Explicit
Dim adors As Recordset
Dim adors1 As Recordset
Dim ADORS2 As Recordset


Private Sub Combo1_Click()
If Val(Combo1.Text) = 1 Then
Text3(1).Visible = False
Text3(2).Visible = False
Text3(3).Visible = False
Text3(4).Visible = False
Text3(5).Visible = False
Text3(0).Visible = True
Combo3(1).Visible = False
Combo3(2).Visible = False
Combo3(3).Visible = False
Combo3(4).Visible = False
Combo3(5).Visible = False
Combo3(0).Visible = True
Text4(1).Visible = False
Text4(2).Visible = False
Text4(3).Visible = False
Text4(4).Visible = False
Text4(5).Visible = False
Text4(0).Visible = True
Text6(1).Visible = False
Text6(2).Visible = False
Text6(3).Visible = False
Text6(4).Visible = False
Text6(5).Visible = False
Text6(0).Visible = True
End If
If Val(Combo1.Text) = 2 Then
Text3(1).Visible = True
Text3(2).Visible = False
Text3(3).Visible = False
Text3(4).Visible = False
```

```
Text3(5).Visible = False
Text3(0).Visible = True
Combo3(1).Visible = True
Combo3(2).Visible = False
Combo3(3).Visible = False
Combo3(4).Visible = False
Combo3(5).Visible = False
Combo3(0).Visible = True
Text4(1).Visible = True
Text4(2).Visible = False
Text4(3).Visible = False
Text4(4).Visible = False
Text4(5).Visible = False
Text4(0).Visible = True
Text6(1).Visible = True
Text6(2).Visible = False
Text6(3).Visible = False
Text6(4).Visible = False
Text6(5).Visible = False
Text6(0).Visible = True
End If
If Val(Combo1.Text) = 3 Then
Text3(1).Visible = True
Text3(2).Visible = True
Text3(3).Visible = False
Text3(4).Visible = False
Text3(5).Visible = False
Text3(0).Visible = True
Combo3(1).Visible = True
Combo3(2).Visible = True
Combo3(3).Visible = False
Combo3(4).Visible = False
Combo3(5).Visible = False
Combo3(0).Visible = True
Text4(1).Visible = True
Text4(2).Visible = True
Text4(3).Visible = False
Text4(4).Visible = False
Text4(5).Visible = False
Text4(0).Visible = True
Text6(1).Visible = True
Text6(2).Visible = True
Text6(3).Visible = False
Text6(4).Visible = False
Text6(5).Visible = False
Text6(0).Visible = True
```

```
End If

If Val(Combo1.Text) = 4 Then
Text3(1).Visible = True
Text3(2).Visible = True
Text3(3).Visible = True
Text3(4).Visible = False
Text3(5).Visible = False
Text3(0).Visible = True
Combo3(1).Visible = True
Combo3(2).Visible = True
Combo3(3).Visible = True
Combo3(4).Visible = False
Combo3(5).Visible = False
Combo3(0).Visible = True
Text4(1).Visible = True
Text4(2).Visible = True
Text4(3).Visible = True
Text4(4).Visible = False
Text4(5).Visible = False
Text4(0).Visible = True
Text6(1).Visible = True
Text6(2).Visible = True
Text6(3).Visible = True
Text6(4).Visible = False
Text6(5).Visible = False
Text6(0).Visible = True
End If
If Val(Combo1.Text) = 5 Then
Text3(1).Visible = True
Text3(2).Visible = True
Text3(3).Visible = True
Text3(4).Visible = True
Text3(5).Visible = False
Text3(0).Visible = True
Combo3(1).Visible = True
Combo3(2).Visible = True
Combo3(3).Visible = True
Combo3(4).Visible = True
Combo3(5).Visible = False
Combo3(0).Visible = True
Text4(1).Visible = True
Text4(2).Visible = True
Text4(3).Visible = True
Text4(4).Visible = True
Text4(5).Visible = False
```

```
Text4(0).Visible = True
Text6(1).Visible = True
Text6(2).Visible = True
Text6(3).Visible = True
Text6(4).Visible = True
Text6(5).Visible = False
Text6(0).Visible = True
End If
If Val(Combo1.Text) = 6 Then
Text3(1).Visible = True
Text3(2).Visible = True
Text3(3).Visible = True
Text3(4).Visible = True
Text3(5).Visible = True
Text3(0).Visible = True
Combo3(1).Visible = True
Combo3(2).Visible = True
Combo3(3).Visible = True
Combo3(4).Visible = True
Combo3(5).Visible = True
Combo3(0).Visible = True
Text4(1).Visible = True
Text4(2).Visible = True
Text4(3).Visible = True
Text4(4).Visible = True
Text4(5).Visible = True
Text4(0).Visible = True
Text6(1).Visible = True
Text6(2).Visible = True
Text6(3).Visible = True
Text6(4).Visible = True
Text6(5).Visible = True
Text6(0).Visible = True
End If
End Sub




Private Sub Combo3_Click(Index As Integer)
Dim ADORS2 As ADODB.Recordset
Dim var2 As Integer
Dim var3 As Integer
Dim db As Connection
Set db = New Connection
db.Open "Provider=MSDASQL.1;Persist Security Info=False;Data Source=NATH"
```

```
Set ADORS2 = New ADODB.Recordset
Adodc1.RecordSource    =    "select    *    from    fixed    where    f_code    ="'    &
RTrim(LTrim(DBCombo1.Text)) & "' and tdate = '" & RTrim(LTrim(Text8.Text)) & "'"
Adodc1.Refresh
ADORS2.Open "select * from fixed", db, adOpenStatic, adLockOptimistic
var2 = ADORS2.Fields!t_res_eco_seat
Text6(Index).Text = var2 + 1

End Sub

Private Sub Command1_Click()
Text2.Text = Val(Text4(0).Text) + Val(Text4(1).Text) + Val(Text4(2).Text) + Val(Text4(3).Text)
+ Val(Text4(4).Text) + Val(Text4(5).Text)
End Sub

Private Sub DBCombo1_Change()
On Error Resume Next
MSRDC1.Resultset.Bookmark = DBCombo1.SelectedItem
End Sub

Private Sub DBCombo1_Click(Area As Integer)
On Error Resume Next
MSRDC1.Resultset.Bookmark = DBCombo1.SelectedItem
End Sub


Private Sub Form_Load()
Dim db As Connection
Set db = New Connection
db.Open "Provider=MSDASQL.1;Persist Security Info=False;Data Source=NATH"
Set adors = New Recordset
ADORS2.Open                                                    "select
ticket_no,pnr,flight_id,source,destination,t_date,d_time,a_time,fare1,fare2,fare3,fare4,fare5,far
e6,class,age1,sex1,seat1,age1,sex1,seat1,age2,sex2,seat2,age3,sex3,seat3,age4,sex4,seat4,age5,
sex5,seat5,age6,sex6,seat6,passenger from ticket_report", db, adOpenStatic, adLockOptimistic
Dim otext As TextBox
For Each otext In Me.Text1

Set otext.DataSource = adors
Next
db.Open "Provider=MSDASQL.1;Persist Security Info=False;Data Source=NATH"
Set adors = New Recordset
Set adors1 = New Recordset
Set ADORS2 = New Recordset
adors1.Open    "select    max(TICKET_NO)from    ticket_report",    db,    adOpenStatic,
adLockOptimistic
```

```
ADORS2.Open "select max(pnr) from ticket_report", db, adOpenStatic, adLockOptimistic
var1 = adors1.Fields(0)
var2 = ADORS2.Fields(0)
Text1(0) = var1 + 1
Text1(17) = var2 + 1
adors.Open "select * FROM FARE", db, adOpenStatic, adLockOptimistic
Set Text1(1).DataSource = adors
Set Text1(2).DataSource = adors
Set Text1(3).DataSource = adors
Set Text1(4).DataSource = adors

End Sub



Private Sub PRINT_Click()
Ticket_report.Print
End Sub

Private Sub save_Click()
adors.UpdateBatch adAffectAllChapters
End Sub

 Text3_LostFocus(Index As Integer)
Dim temp As Double
If Val(Text3(Index).Text) > 60 Then
temp = (5 * Val(Text5.Text) / 100)
MsgBox (temp)
Text4(Index).Text = temp
Else
temp = Val(Text5.Text)
End If

Text4(Index).Text = temp
End Sub
```

Coding for Cencellation

```vb
Option Explicit
Dim adors As Recordset




Private Sub CANCEL_Click()
Dim SQL As String
Dim db As Connection
Set db = New Connection
db.Open "Provider=MSDASQL.1;Persist Security Info=False;Data Source=NATH"
SQL = "DELETE FROM TICKET_REPORT WHERE PNR='" & txtfields(0).Text & "'"
db.Execute SQL
End Sub




Private Sub Command3_Click()
Unload Me
End Sub




Private Sub Form_Load()
Dim db As Connection
Set db = New Connection
db.Open "Provider=MSDASQL.1;Persist Security Info=False;Data Source=NATH"
Set adors = New Recordset
adors.Open "select
CUST_CODE,CLASS,SEAT_NO,DAYS_LEFT,HOURS_LEFT,BASIC_AMMOUNT,CANC
EL_AMMOUNT  FROM REFUND_AMMOUNT", db, adOpenStatic, adLockOptimistic
Dim otext As TextBox
For Each otext In Me.txtfields
Set otext.DataSource = adors
Next
End Sub
```

```vb
Private Sub SHOW_Click()
Dim ADORS2 As Recordset
Dim db As Connection
Set db = New Connection
db.Open "Provider=MSDASQL.1;Persist Security Info=False;Data Source=NATH"
Set ADORS2 = New Recordset
ADORS2.Open "select * from TICKET_REPORT WHERE PNR = ' " & txtfields(0).Text & " '
", db, adOpenStatic, adLockOptimistic
'txtfields(0) = (ADORS2.Fields(1))

txtfields(1) = (ADORS2.Fields(8))
txtfields(2) = (ADORS2.Fields(7))
txt_basic_ammount.Text = (ADORS2.Fields(9))

End Sub

Private Sub txtfields_LostFocus(Index As Integer)
Dim db As Connection
If Index = 0 Then
Set db = New Connection
db.Open "Provider=MSDASQL.1;Persist Security Info=False;Data Source=NATH"
Set adors = New Recordset
adors.Open "select
CUST_CODE,CLASS,SEAT_NO,DAYS_LEFT,HOURS_LEFT,BASIC_AMMOUNT,CANC
EL_AMMOUNT  FROM REFUND_AMMOUNT where cust_code = ('" & txtfields(0).Text &
"')", db, adOpenStatic, adLockOptimistic
Dim otext As TextBox
For Each otext In Me.txtfields
Set otext.DataSource = adors
Next
End If
End Sub

Private Sub txtsub_Click()
txtresult(7).Text = Val(txt_basic_ammount.Text) - Val(txt_cancel_ammount(6).Text)
End Sub
```

Coding for Enquiry

```
Option Explicit
Dim adors As Recordset



Private Sub add_Click(Index As Integer)
With adors
.AddNew
End With
End Sub

Private Sub cl_Click(Index As Integer)
Unload Me
End Sub



Private Sub CONFIRM_Click()
Dim ADORS2 As Recordset
Dim db As Connection
Set db = New Connection
db.Open "Provider=MSDASQL.1;Persist Security Info=False;Data Source=NATH"
Set ADORS2 = New Recordset
ADORS2.Open "select * from TICKET_REPORT WHERE TICKET_NO ='" &
txtfields(7).Text & "'", db, adOpenStatic, adLockOptimistic
txtfields(4) = (ADORS2.Fields(1))
txtfields(1) = (ADORS2.Fields(2))
txtfields(2) = (ADORS2.Fields(9))
txtfields(3) = (ADORS2.Fields(7))
txtfields(5) = (ADORS2.Fields(5))
txtfields(6) = (ADORS2.Fields(6))
End Sub
```

TESTING DEBUGGING AND VALIDATION

In this phases I had tried to check all the modules separately for there proper formatting.

   After this step I had performed a unit test to check the functionality of the whole system.

    Further I had come to know to add certain validation in project as given bellow

1)   Table name- Customer information
     Field name –Customer name
     Data type   -Text.

     When we enter number in the form then it show wrong .Because it is not number type
     It is a character. So it show wrong value.

2)   Table name _Customer information
     Field name-   Departure time, Arrival time
      Data type- Date/Time.

      When we enter 12.33 then it automatically show 12.33pm.
      When we enter 11.33 then it automatically show 11.33am.

3)   Table name –Flight information
      Field name- Flight-code
      Data type-   number

              When we Put any other value or character then it ask validity check.

IMPLEMENTATION

For the implementation of my project the mirror H/W & S/W requirements as under

HARDWARE	SOFTWARE
Pentium II to IV Attempt 200 MHz Ram –32MB H.D .space-4xGB FDD- CD ROM DRIVE-52x	Window-9x,2000,2000server MS-Access MS-Excel MS-Word

Steps implementation

Steps of implementation are :
- First load VB in system
- Make a software .In this s/w The airlines Reservation system is stored.
- First make all form.
- Make Main menu. Join every form with Main menu .
- Main menu open .It show all forms heading.
- Now choose what form will be open then click.
- If Reservation form is open then it show new pnr and ticket number.
- After put various value we click save bottom.
- It automatically go to report.

<u>CONCLUSION</u>

Though the system still containing lot of scope of improvement in it. But its overall look and feel gives rough picture of on existing automation system.

     I have take MS-Access at backhand but it has a limitation of 1 GB size .It over data size approaches this 1gb some other database the SQL server ,oracle, can be used with OBBC to break this barrier.

****************THE END*******************