## **Chapter 2: System Design**

## 2.1 Physical Design

## 2.1.1 Block Diagram

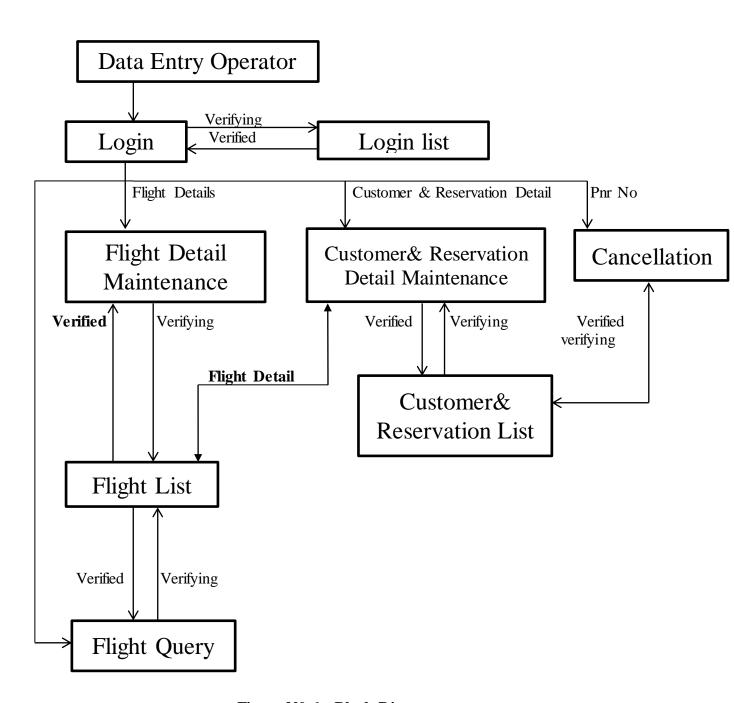
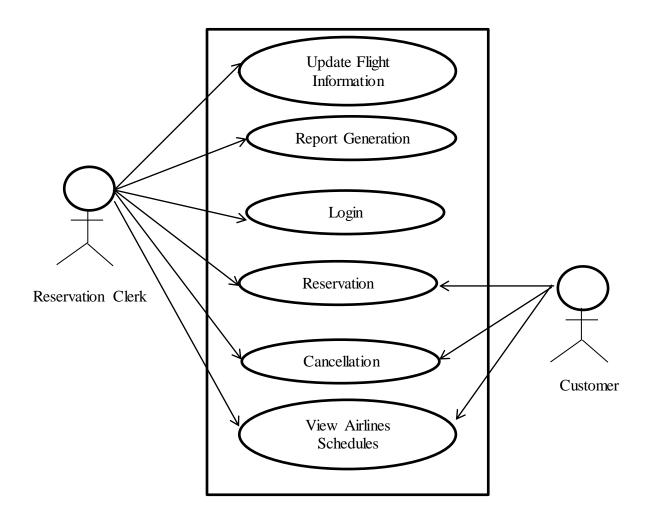


Figure N0-6:- Block Diagram

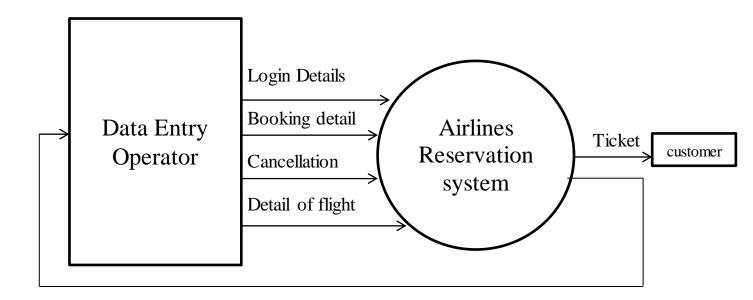
# 2.1.2 Use case diagram



Use case diagram for Airlines Reservation System

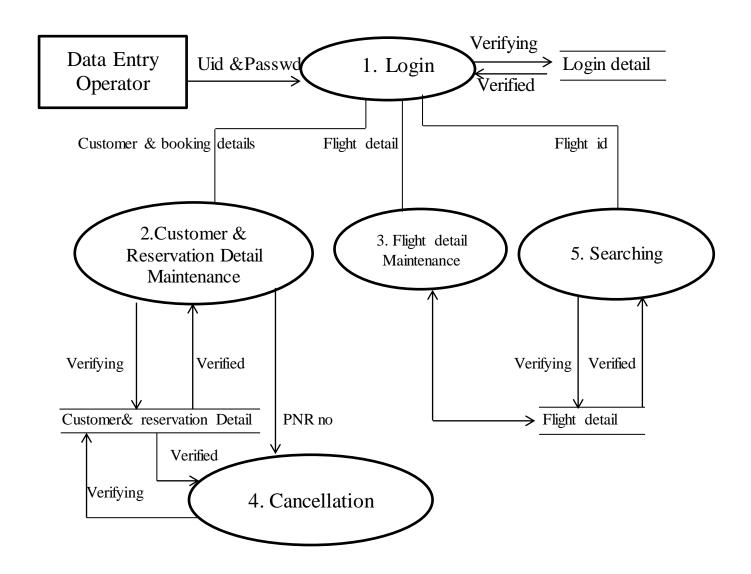
## 2.1.3 Data Flow Diagram

## 2.1.3.1 DFD 0 Level



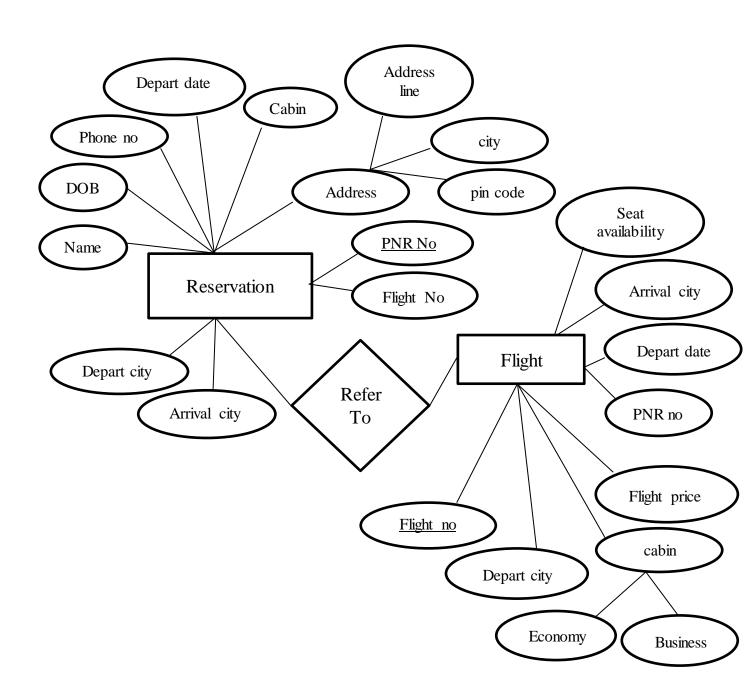
**Data Flow Diagram of 0 level** 

### 2.1.3.1 DFD 1 Level



**Data Flow Diagram of 1 level** 

## 2.1.4 Entity Relationship Diagram

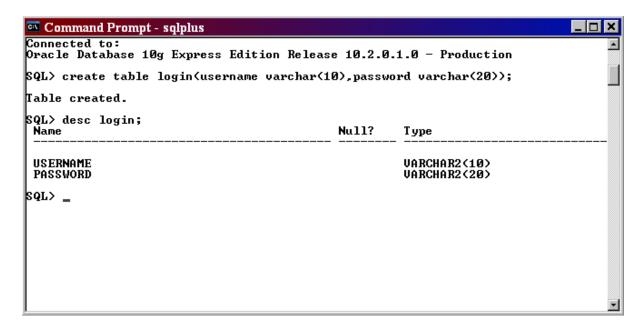


**ER Diagram of Airlines Reservation System** 

#### 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:

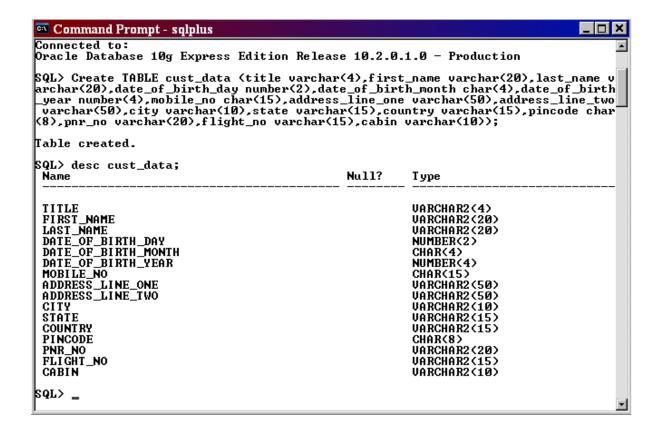
#### 2.2.1 Login Database



### 2.2.2 Flight Database

```
Command Prompt - sqlplus
                                                                                                                                    . □ ×
Connected to:
Oracle Database 10g Express Edition Release 10.2.0.1.0 - Production
SQL> create table flight_data(flight_company varchar(15),depart_city varchar(10),arrival_city varchar(10),depart_hour number(3),depart_m_inute number(3),eco_no_of_seat number(4),eco_price varchar(10),busi_no_of_seat number(4),busi_price varchar(10),flight_no varchar(15) primary key);
Table created.
SQL> desc flight_data;
  Name
                                                                          Nu11?
                                                                                          Туре
  FLIGHT_COMPANY
DEPART_CITY
                                                                                          VARCHAR2(15)
                                                                                          VARCHAR2(10)
  ARRIVAL_CITY
                                                                                          VARCHAR2(10)
  DEPART_DATE
DEPART_HOUR
DEPART_MINUTE
ECO_NO_OF_SEAT
                                                                                          VARCHAR2(10)
                                                                                          NUMBER(3)
                                                                                          NUMBER(3)
                                                                                          NUMBER(4)
 ECO_PRICE
BUSI_NO_OF_SEAT
BUSI_PRICE
FLIGHT_NO
                                                                                          VARCHAR2(10)
                                                                                          NUMBER(4)
VARCHAR2(10)
                                                                          NOT NULL VARCHAR2(15)
sqL> _
```

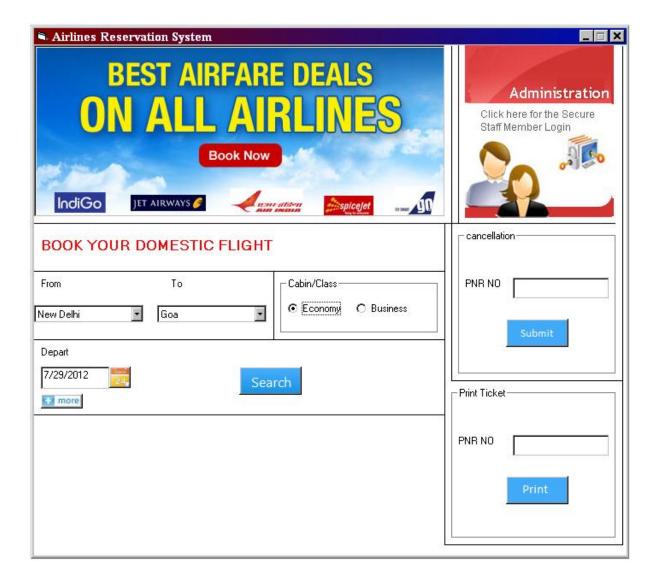
#### 2.2.3 Customer & Reservation Database



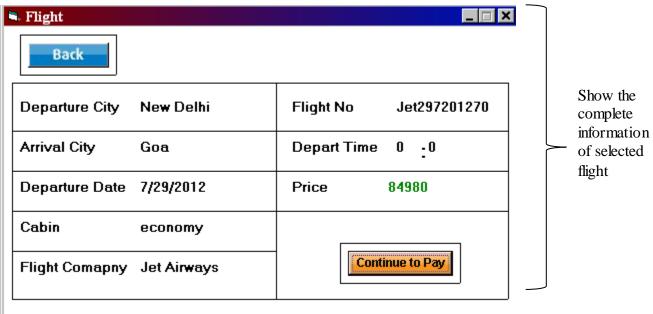
### 2.3 Interface Design

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

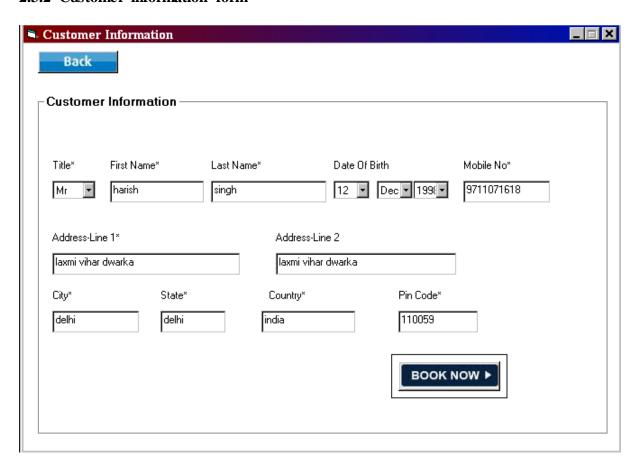
#### 2.3.1 Main Form



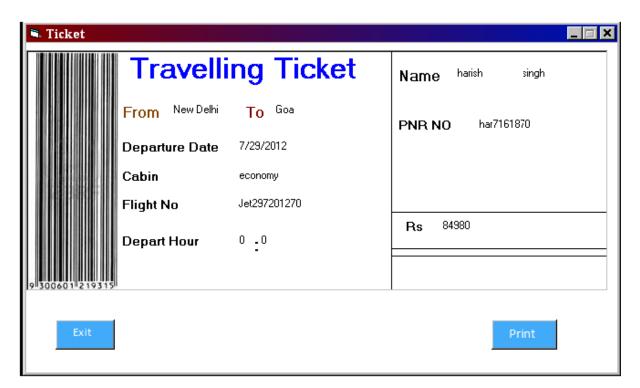


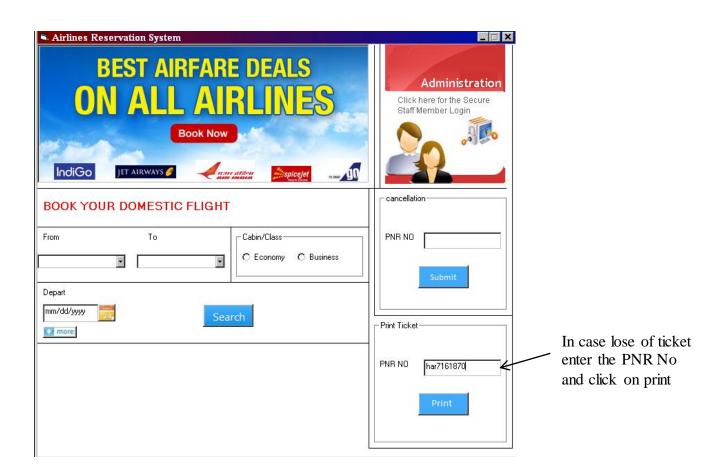


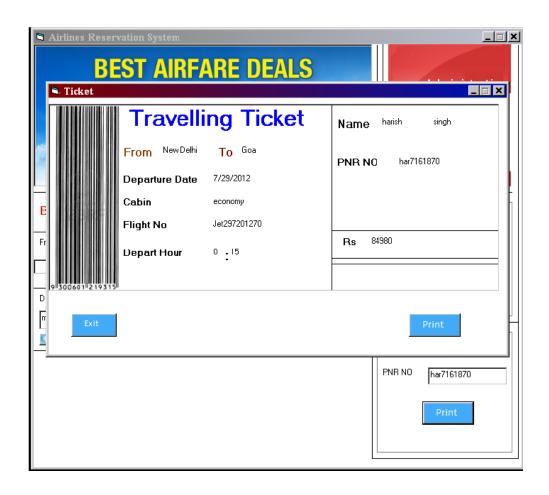
#### 2.3.2 Customer information form

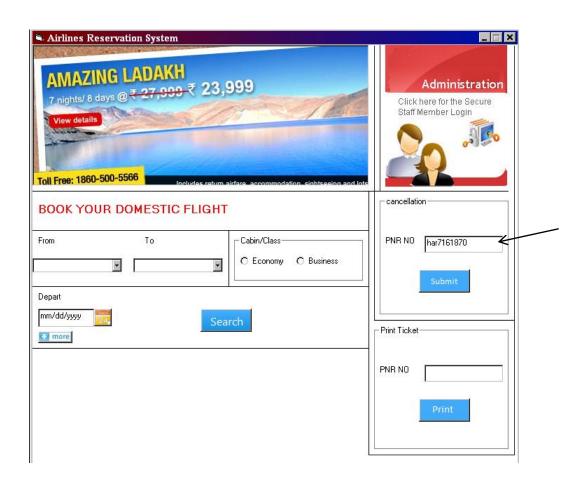


#### 2.3.3 Ticket Form

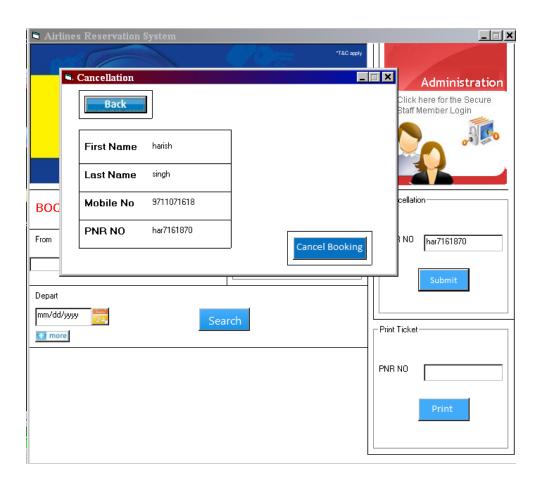








In case of ticket cancellation enter the PNR No and click on submit



## 2.3.4 Administrator login

