**Air Ticket Reservation System**

Air ticket reservation system is software required to automate the reservation system for an airline at an airport or elsewhere. Primary task deals with the following functionalities:

1. Maintenance of user account

2. Maintenance of flight database i.e. flight number, timing, number of seats etc.

3. Reservation of air tickets

4. Cancellation of air tickets

5. Enquiry about flight schedules, fares, timings etc.

6. Reports regarding day-to-day bookings, ticket availability, passenger's database etc.

Air ticket may be issued on demand for any flight to and from any destination for any date and in any class as desired by the passenger depending on the availability.

After any issual or cancellation of the ticket, the corresponding information has to be updated so that the ticket availability shows the status of the seats actually available/ unavailable. Enquiries made by the passenger also need to be furnished disclosing the timing and availability of flight and air tickets in particular classes for the dates provided by the enquirer.

For the sale of an air ticket or for its cancellation, money will be paid or refunded and thus there will be need for account maintenance, which may include ledger, sale book receipt etc.

The system is expected to be able to help in the running of the air ticket reservation counter at an airport or elsewhere, thus helping in the overall functioning of any airlines government or private.

There will also be kept detailed account of the entire passenger list for all flights thus aiding in cross checking any information that may be of use to the airline or any other authorities.

Sequence Diagram



Class Diagram



Use Case Diagram



ER Diagram

1:1

Traveller

Customer Care

reserves

Ticket

Flight

cancels

manages

1:\*

1:\*

1:1

1:\*

1:1

checks

1:\*

Activity Diagram



Data Flow Diagram

Traveller

Helpdesk / Manager

Flight

Book Ticket

Cancel Ticket

Check Flight Details

Book Flight Details

Make Payment for flight

Cancel Flight Ticket

Print Flight Ticket

Reschedule Flight

Cancel Flight

Passenger Details

Display Flight Details

Calculate Fare Details

Display Fare Details

Search Flights

Cancels Flight Ticket

Books Flight Ticket

Ticket Details

Passenger Details

Customer Care

Login Details

Traveller

Enter Username Password

Enter Username Password

Flight Details

Books Flight Ticket

Cancels Flight Ticket