**REQUIREMENT ANALYSIS AND UNDERSTANDING**

**Airline Reservation System**

**Objective**: This project is aimed at developing Airline Reservation System for online ticket booking. This is a web based application that can be accessed over the web. This system can be used for booking flight tickets , searching and managing the flights by admin and displaying occupancy details to executive. This is an integrated system that contains three user components, Admin component, Executive component and Customer component.

**Login Module:**

Login module is common for all the users of the system ie. Admin, User and Executive

Basic functionality of module are as follows:

1. Taking login credentials from the user.

2. If given credentials are wrong show appropriate message.

3. If login succeeds user will be navigated to their respective homepage as per the role.

**Registration Module:**

If a user wants to register to the system then he/she will be directed to the registration page.

User will be asked to enter the following details:

1. First Name
2. Last Name
3. User Name
4. Password
5. Mobile No

Note: If the username is already exists then the visitor will be asked to change the username.

**Display Flights Module:**

Available Flights can be viewed by a registered user

* For a user (who is not logged in) first has to login with correct credentials to view the flights
* After successfully logging in user all the available flights for booking tickets are displayed to the user
* User can book a ticket for the flight he wants.

**Book Ticket Module:**

The user is shown the flight details with the book ticket option.

* When user clicks on book ticket he is redirected to fill the booking form having following fields.

1. Flight Number
2. Source
3. Destination
4. Email
5. Number Of Passenger
6. Class type
7. Credit-card Number

* After user fills valid details his/her ticket is booked for that flight and he is redirected to a page showing his booking details.

Assumption:

**Cancel Ticket Module:**

* User can cancel a flight that he has booked.
* When a user cancels a ticket, seats cancelled again gets available for booking for that flight.

**Search Flight Module:**

* This module usage rights are given to the executive and admin .
* Executive can search for flights to check the occupancy details. Search can be done by following two ways:

1. Search Flights By Source and Destination

Executive can give the source and destination of a flight and get the occupancy details as per the same.

1. Search Flights By Date

Executive can give the date and search the flight on that date . He/She can get the occupancy details for those flights.

* Admin can search the passenger list for a particular flight using flight number.

**Add Flights Module:**

Admin will add a new flight.

Admin will be asked to enter the following details for adding a new flight:

1. Flight Number
2. Airline Name
3. Source
4. Destination
5. Departure Date
6. Arrival Date
7. Departure Time
8. Arrival Time
9. First Class Seats
10. First Class Seats Fare
11. Business Class Seats
12. Business Class Seats Fare

**Update Flights Module:**

* Admin will update an existing flight.
* Admin can update all the details mentioned in the add flight module except flight number and airline name.

**Delete Flight Module:**

* Admin can delete an existing flight.
* Admin can delete any flight
* After admin deletes a flight it will no longer be available for the user to be booked.