

## 1. User functionality

**(25 points)**

- let people search for flights between two airports
  - one way on a specific date
  - round-trip on specific dates
  - one way or roundtrip on flexible dates (+/- 3 days)
- browse the resulting flights
- sort flights by different criteria (price, take-off time, landing time, duration of flight)
- filter the list of flights by various criteria (price, number of stops, airline, take-off time, landing time)

**(25 points)**

- Browse questions and answers
- Search questions and answers by keywords
- make flight reservations/buy the ticket.
- enter the waiting list if the flight is full
- view all the past flight reservations with their details
- view all the upcoming flights with their details
- cancel their flight reservations (if it is business or first class)
  - send an alert to customers in the waiting list that there is an empty seat
- post questions to the customer representative

## 2. Admin (create an admin account ahead of time)

**(25 points)**

- Add, Edit information and Delete a customer representative or customer
- Obtain a sales report for a particular month
- Produce a list of reservations by flight number or by customer name
- Produce a summary listing of revenue generated by a particular flight, airline, or customer
- Find out which customer generated most total revenue
- Produce a list of most active flights (most tickets sold)

## 3. Customer Representative

**(25 points)**

- Make flight reservations on behalf of users
- Edit flight reservations for a customer
- Add, Edit, Delete information for aircrafts, airports, and flights
- Retrieve a list of all the passengers who are on the waiting list of a particular flight
- Produce a list of all flights for a given airport (departing and arriving)
- Reply to user's questions