

## 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