**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