Use Cases

**1. View Public Info:**

The first page displays search functionality for anyone -> index.html

Functions

/search

query = "SELECT flight\_num, departure\_time, arrival\_time FROM flight"

if departure\_airport !='':

query+= " where departure\_airport = '%s'" %departure\_airport

if arrival\_airport !='' and departure\_airport =='':

query += " where arrival\_airport = '%s'" % arrival\_airport

elif arrival\_airport !='' :

query += " and arrival\_airport = '%s'" %arrival\_airport

if departure\_time != '' and (departure\_airport =='' and arrival\_airport ==''):

query += ' where departure\_time = "%s"' %departure\_time

elif departure\_time != '':

query += ' and departure\_time = "%s"' %departure\_time

**2. Register**

/registerAuth calls specific registration for account type

3 cases:

**/cus\_register**

ins = "INSERT INTO customer VALUES(\'{}\',\'{}\', md5(\'{}\'), \'{}\', \'{}\', \'{}\', \'{}\', \'{}\', \'{}\', \'{}\', \'{}\', \'{}\')"

cursor.execute(ins.format(username, name, password, building\_num, street, city, state, phone\_num, pass\_num,pass\_exp,pass\_country,dob))

**/staff\_register**

ins = "INSERT INTO airline\_staff VALUES(\'{}\', md5(\'{}\'), \'{}\',\'{}\', \'{}\', \'{}\')"

cursor.execute(ins.format(username, password, first\_name, last\_name, dob, airline\_name))

**/booking\_register**

ins = "INSERT INTO booking\_agent VALUES(\'{}\', md5(\'{}\'), \'{}\')"

cursor.execute(ins.format(username, password, booking\_ID))

**3. Login:**

**/ loginAuth**

Simple, checks db for existing user

query = "SELECT \* FROM user WHERE username = \'{}\' and password = md5(\'{}\')"

If existing user works call /home

/home processes login by user type

**/home**

3 cases:

**if account\_type == 'customer':**

query\_purchased\_flights = "SELECT \* FROM flight, purchases, ticket \

WHERE purchases.customer\_email = \'{}\' \

AND purchases.ticket\_id = ticket.ticket\_id \

AND ticket.flight\_num = flight.flight\_num and flight.status ='upcoming' "

query\_all\_flights= "SELECT \* FROM flight WHERE flight.status = 'upcoming'"

then renders 'user\_home\_page.html'

**if account\_type == 'booking\_agent':**

query2 = "SELECT \* FROM flight, purchases, booking\_agent, ticket WHERE booking\_agent.email = \'{}\' AND purchases.booking\_agent\_id = booking\_agent.booking\_agent\_id AND purchases.ticket\_id = ticket.ticket\_id and flight.flight\_num = ticket.flight\_num"

query\_all\_flights= "SELECT \* FROM flight WHERE flight.status = 'upcoming'"

query = "SELECT booking\_agent\_id FROM booking\_agent WHERE email = '%s'" % username

then renders 'booking\_home\_page.html'

**if account\_type == 'airline\_staff':**

query = "SELECT airline\_name FROM airline\_staff WHERE username = '%s'" % username

query2 = "SELECT \* from flight where airline\_name = \'{}\' and status ='upcoming' and departure\_time<= \'{}\'"

then renders 'staff\_home\_page.html'

**Customer use cases:**

**4. View My flights:**

**/home**

Account\_type = “customers”

query = "SELECT \* FROM flight where flight.status != '' "

if flag == 'my':

query= "SELECT \* FROM flight, purchases, ticket \

WHERE purchases.customer\_email = '%s' \

AND purchases.ticket\_id = ticket.ticket\_id \

AND ticket.flight\_num = flight.flight\_num " %session['username']

template = 'search\_purchased.html'

else:

template ='search\_results.html'

if departure\_airport !='':

query+= " and flight.departure\_airport = '%s'" %departure\_airport

if arrival\_airport !='' :

query += " and flight.arrival\_airport = '%s'" %arrival\_airport

if departure\_time != '':

query += ' and flight.departure\_time = "%s"' %departure\_time

renders either search\_purchased.html or search\_results.html

**5. Purchase tickets:**

After search customer has the option to purchase

**/insert\_purchase**

#gets ticket id

query = "SELECT \* FROM ticket WHERE ticket.flight\_num = \'{}\'"

#inserts purchase into table

ins = "INSERT INTO purchases VALUES(\'{}\',\'{}\',NULL,\'{}\')"

**6. Search for flights**

**/user\_search**

if flag == 'my':

query= "SELECT \* FROM flight, purchases, ticket \

WHERE purchases.customer\_email = '%s' \

AND purchases.ticket\_id = ticket.ticket\_id \

AND ticket.flight\_num = flight.flight\_num " %session['username']

template = 'search\_purchased.html'

else:

template ='search\_results.html'

if departure\_airport !='':

query+= " and flight.departure\_airport = '%s'" %departure\_airport

if arrival\_airport !='' :

query += " and flight.arrival\_airport = '%s'" %arrival\_airport

if departure\_time != '':

query += ' and flight.departure\_time = "%s"' %departure\_time

**7. Track My Spending**

**8. Logout**

**Booking agent use cases:**

**4. View My flights**

**5. Purchase tickets**

**6. Search for flights**

**/agent\_search**

**if flag == "my":**

**query = "SELECT \* from flight, purchases, booking\_agent, ticket WHERE booking\_agent.email = '%s' and booking\_agent.booking\_agent\_id = purchases.booking\_agent\_id and flight.flight\_num = ticket.flight\_num and purchases.ticket\_id = ticket.ticket\_id" %session['username']**

**page\_to\_render = 'agent\_search\_results.html'**

**else:**

**query = "SELECT \* FROM flight"**

**if departure\_airport =='' and arrival\_airport =='' and departure\_time =='' and max\_date=='' and min\_date=='':**

**query +=' where flight.status = "upcoming"'**

**else:**

**query +=' where flight.status != ""'**

**page\_to\_render = 'agent\_search\_results\_all.html'**

**if departure\_airport !='':**

**query+= " and flight.departure\_airport = '%s'" %departure\_airport**

**if arrival\_airport !='' :**

**query += " and flight.arrival\_airport = '%s'" %arrival\_airport**

**if departure\_time != '':**

**query += ' and flight.departure\_time = "%s"' %departure\_time**

**if max\_date !='' and min\_date!='':**

**query += ' and (flight.departure\_time >= "%s"' %min\_date**

**query += ' and flight.departure\_time <= "%s)"'%max\_date**

**elif max\_date !='' and min\_date == '':**

**query += ' and flight.departure\_time <= "%s"'%max\_date**

**elif min\_date !=''and max\_date == '':**

**7. View my commission**

**8. View Top Customers**

**9. Logout:**

**Airline Staff use cases:**

**4. View My flights:**

**/staff\_search'**

**query = "SELECT \* FROM flight where airline\_name='%s'" %session['airline\_name']**

**if departure\_airport !='':**

**query+= " and departure\_airport = '%s'" %departure\_airport**

**if arrival\_airport !='' :**

**query += " and arrival\_airport = '%s'" %arrival\_airport**

**if departure\_time != '':**

**query += ' and departure\_time = "%s"' %departure\_time**

**if max\_date !='' and min\_date!='':**

**query += ' and (departure\_time >= "%s"' %min\_date**

**query += ' and departure\_time <= "%s)"'%max\_date**

**elif max\_date !='' and min\_date == '':**

**query += ' and departure\_time <= "%s"'%max\_date**

**elif min\_date !=''and max\_date == '':**

**query += ' and departure\_time >= "%s"' %min\_date**

**5. Create new flights:**

**6. Change Status of flights**

**7. Add airplane in the system:**

**8. Add new airport in the system**

**9. View all the booking agents**

**10. View frequent customers**

**11. View reports**

**12. Comparison of Revenue earned**

**13. View Top destinations**

**14. Logout:**