

Public Use Cases:

1. Search for flight information
 - a. Files
 - i. Public_info.html - web page for public flight information
 - ii. Public_info.py - contains helper functions, prepared statements
 - iii. __init__.py - contains app functions
 - b. Functions
 - i. Public_view_twoway_flights - builds and executes SQL query on two way flights
 - ii. Public_view_oneway_flights - builds and executes SQL query on one way flights
 - iii. Public_info - renders public_info.html
 - iv. Public_view_flights - gets user input, displays result of query
2. View flight status
 - a. Files
 - i. Public_status.html - web page for public flight status
 - ii. Public_info.py - contains helper functions, prepared statements
 - iii. __init__.py - contains app functions
 - b. Functions
 - i. Public_view_flight_status - executes SQL query on one way flights
 - ii. Public_status - renders public_status.html
 - iii. Public_check_status - gets user input, displays result of query

Staff Use Cases:

1. View flights
 - a. Files
 - i. Staff_view_flights.html - shows form and query results
 - ii. Staff_view_flights_customers.html - shows customers on a flight
 - iii. Staff.py - contains helper functions, prepared statements
 - iv. General.py - contains helper functions, prepared statements
 - v. __init__.py - contains app functions
 - b. Functions
 - i. Staff_view_flights - gets flight info and displays all flights matching query
 - ii. Staff_view_flights_customer - shows customers on a flight
2. Create new flights
 - a. Files
 - i. Staff_create_flight.html - shows form for creating flight
 - ii. Success.html - shows success message
 - iii. Staff.py - contains helper functions, prepared statements
 - iv. General.py - contains helper functions, prepared statements
 - v. __init__.py - contains app functions
 - b. Functions
 - i. Staff_create_flight_view - renders create flight page

- ii. Staff_create_flight_submit - runs query to add flight
- 3. Change status of flights
 - a. Files
 - i. Staff_change_flight_status.html - form to change flight status
 - ii. Success.html - shows success message
 - iii. Staff.py - contains helper functions, prepared statements
 - iv. General.py - contains helper functions, prepared statements
 - v. __init__.py - contains app functions
 - b. Functions
 - i. Staff_change_flights - renders form for changing flight status
 - ii. Staff_change_flights_submit - runs query to change flight status
- 4. Add an airplane in the system
 - a. Files
 - i. Staff_add_new_airplane.html - form to add new airplane
 - ii. Success.html - shows success message
 - iii. Staff.py - contains helper functions, prepared statements
 - iv. General.py - contains helper functions, prepared statements
 - v. __init__.py - contains app functions
 - b. Functions
 - i. Staff_add_new_airplane - renders add new airplane form
 - ii. Staff_add_new_airplane_submit - runs query for adding new airplane
- 5. Add new airport in the system
 - a. Files
 - i. Staff_add_new_airport.html
 - ii. Success.html - shows success message
 - iii. Staff.py - contains helper functions, prepared statements
 - iv. General.py - contains helper functions, prepared statements
 - v. __init__.py - contains app functions
 - b. Functions
 - i. Staff_add_new_airport - renders form to add new airport
 - ii. Staff_add_new_airport_submit - runs query to add new airport
 - iii. Staff.py - contains helper functions, prepared statements
 - iv. General.py - contains helper functions, prepared statements
 - v. __init__.py - contains app functions
- 6. View flight ratings
 - a. Files
 - i. Staff_view_flight_ratings.html - search form and shows list of flights and ratings
 - ii. Staff_view_ratings_and_comments.html - shows comments and ratings for a single flight
 - iii. Staff.py - contains helper functions, prepared statements
 - iv. General.py - contains helper functions, prepared statements
 - v. __init__.py - contains app functions
 - b. Functions

- i. Staff_view_flight_ratings - runs query to filter for flights, and allows flights to be selected to see ratings and comments
 - ii. Staff_view_ratings_and_comments_view - gives comments and rating for individual flights
- 7. View frequent customers
 - a. Files
 - i. Staff_view_frequent_customer.html - shows the most frequent customer
 - ii. Staff.py - contains helper functions, prepared statements
 - iii. General.py - contains helper functions, prepared statements
 - iv. __init__.py - contains app functions
 - b. Functions
 - i. Staff_view_frequent_customer - runs query to get most frequent customer
- 8. View reports
 - a. Files
 - i. Staff_view_report_form.html - shows form to select range which to generate form
 - ii. Staff_view_report.html - shows report
 - iii. Staff_chart.html - shows bar chart on sales by month
 - iv. Staff.py - contains helper functions, prepared statements
 - v. General.py - contains helper functions, prepared statements
 - vi. __init__.py - contains app functions
 - b. Functions
 - i. Staff_view_tickets_sold - render form to get range to generate report
 - ii. Staff_view_tickets_sold_view - run queries to get report data
 - iii. Staff_view_monthly_sales - run queries to generate bar chart data
- 9. View earned revenue
 - a. Files
 - i. Staff_view_revenue.html - show revenue and form to select range
 - ii. Staff.py - contains helper functions, prepared statements
 - iii. General.py - contains helper functions, prepared statements
 - iv. __init__.py - contains app functions
 - b. Functions
 - i. Staff_view_revenue - runs queries to get revenue data

Customer Use Cases:

- 1. View my flights
 - a. Files
 - i. Customer_view_flights.html - web page for customer's flights information
 - ii. Customer.py - contains helper functions, prepared statements
 - iii. General.py - contains helper functions, prepared statements
 - iv. __init__.py - contains app functions
 - b. Functions
 - i. Customer_view_flight - gets user input, displays results of query

2. Search for flights

a. Files

- i. Public_info.html - web page for public flight information
- ii. Customer.py - contains helper functions, prepared statements
- iii. General.py - contains helper functions, prepared statements
- iv. __init__.py - contains app functions

b. Functions

- i. Customer_search_flight - gets user input, displays results of query

3. Purchase ticket

a. Files

- i. Customer_stage_purchase.html - web page with selectable flights for purchase
- ii. Customer_purchase_flight.html - web page to enter card information and make purchase
- iii. Customer.py - contains helper functions, prepared statements
- iv. General.py - contains helper functions, prepared statements
- v. __init__.py - contains app functions

b. Functions

- i. Customer_init_purchase - loads customer_purchase_flight.html with default query results
- ii. Customer_purchase_search_flight - loads customer_purchase_flight.html with user specified query results
- iii. Customer_stage_purchase - loads customer_stage_purchase.html with user selected flight information
- iv. Customer_confirm_purchase - gets user input card information, makes ticket purchase

4. Cancel ticket

a. Files

- i. Customer_delete_flight.html - web page to select flight to delete
- ii. Customer_stage_delete.html - web page to delete selected flight
- iii. Customer.py - contains helper functions, prepared statements
- iv. General.py - contains helper functions, prepared statements
- v. __init__.py - contains app functions

b. Functions

- i. Customer_init_delete - loads customer_delete_flight.html with default query results
- ii. Customer_search_delete - loads customer_delete_flight.html with user specified query results
- iii. Customer_confirm_delete - cancels the selected flight

5. Give rating and comment

a. Files

- i. Customer_stage_rate_and_comment.html - web page to make comment and rating

- ii. Customer_rate_and_comment.html - web page to view comments, rating, and select flights
- iii. Customer.py - contains helper functions, prepared statements
- iv. General.py - contains helper functions, prepared statements
- v. __init__.py - contains app functions

b. Functions

- i. Customer_rate_and_comment - loads customer_rate_and_comment.html with default data
- ii. Customer_stage_rate_and_comment - loads customer_create_rate_and_comment.html with user selected ticket information
- iii. Customer_create_rate_and_comment - gets user input and creates a flight review

6. Track Spending

a. Files

- i. Customer_spending.html - web page to view customer's spending + bar chart
- ii. Customer.py - contains helper functions, prepared statements
- iii. General.py - contains helper functions, prepared statements
- iv. __init__.py - contains app functions

b. Functions

- i. Customer_spending - loads customer_spending.html with default data
- ii. Customer_spending_search - loads customer_spending.html with user specified data
- iii. Customer_spending_past6months - loads customer_spending.html in the past 6 months
- iv. Customer_spending_pastyear - loads customer_spending.html in the past year

7. Logout

a. Files

- i. __init__.py - contains app functions

b. Functions

- i. Logout - resets session metadata and redirects to homepage