User - Launch Application - Search Available Flights - Search Available Itineraries - Sort Search Results - Upload Flights Information from CSV File Client, Admin - Searching Tool

Clie	User
 Personal Information Banking Information Booked Itineraries Set Personal Information Edit Personal Information Edit Banking Information Edit Banking Information Search Available Itineraries View Itineraries Search Result (Time or Cost) Search Available Flights View Flights Search Result (Time or Cost) Select A Search-Result Itinerary Book Selected Itinerary View Booked Itineraries 	- Searching Tool

Admin	1
 View Client Information Edit Client Information Upload Flight Information read from File Upload Client Information Read from CSV File Search Available Itineraries View Itineraries Search Result (Time or Cost) Search Available Flights View Flights Search Result (Time or Cost) Select A Search-Result Itinerary Book Selected Itinerary for a Client 	- Manager

Abstract	Manag	ger
		Flight Manager, Client Manager
Write info to FileRetrieve info from FileEdit stored info		

Flight M	Manager anager
 Write Flight Information to File Edit Flight Information Retrieve Flight Information from File 	- Flight

Client M	lanager	Manager
 Write Client Information to File Edit Client Information Retrieve Client Information from File Write Client Itineraries to File Retrieve Client Itineraries from File 	- Client - Itinerary	

Flight		
 Flight Number Departure Time Arrival Time Origin Location Destination Location Airline Cost Travel Time 		

Itinerary		
 Origin Destination Departure Date and Time Arrival Date and Time Overall Cost Overall Travel Time Flights Add Flight Generate Travel Time Generate Cost 	- Flight Manager	

Searching Tool

- Selected Itinerary
- Recently Searched Itinerary
- Generate Possible Itineraries
- Find Possible Flights
- Sort Itineraries by Cost
- Sort Itineraries by Time
- Sort Flights by Cost
- Sort Flights by Time

- Itinerary
- Flight

Admin Menu Activity

- Take an Admin to any of their activities
- Safely write all data and log out
- Flight Activity
- Itinerary Menu Activity
- Retrieve Flight Activity
- Retrieve Client Activity

Client Menu Activity

- Take a Client to any of their activities
- Safely write all data and log out
- Flight Menu Activity
- Itinerary Menu Activity
- View Booked Itinerary Activity
- Edit Client Activity

Admin Book	king Activity
 Book a given itinerary for a Client by their email 	-

Edit Client Activity	
Display the current data of a clientAllow an Admin to edit the data of the client	-

Edit Flight Activity	
Display the current data of a flightAllow an Admin to edit the data of the flight	-

Flight Men	u Activity
 Receive inputted search criteria for Flights from a Client or Admin 	- Flight Search Activity

Flight Sear	ch Activity
 Display Flight search results by cost or time 	-

Itinerary Me	enu Activity
 Receive inputted search criteria for Itineraries 	- Itinerary Search Activity

Itinerary Sea	arch Activity
 Display the search results of an Itinerary search sorted by cost or time Book a selected Itinerary for a Client if they are a Client 	- Admin Booking Activity

- Log in an Administrator or Client if they have the correct username and password
- Set a the password of a new Client to their desired password
- Log in a Client who has changed their email address
- Read from a passwords file and write any changes

- Client Menu Activity
- Admin Menu Activity

Retrieve Client Activity

 Obtain a Client for editing from its email address, should it exist

- Edit Client Activity

Retrieve Flight Activity

 Obtain a Flight for editing from its flight number, should it exist

- Edit Flight Activity

Upload Client Activity

 Upload Clients from a CSV file at a specified location

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Upload Flight Activity

- Upload Flights from a CSV file at a specified location

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View Booked Itineraries Activity	
Display the Itineraries of a specific Client	- Client Menu Activity