User

**Administrator**

* Read client information from local files
* View client Information (including booked flights)
* Edit Client Information
* Enter Flight Information
* Upload Flight Information
* Write Client and Flight information to file
* List of clients
* Flight
* Client
* DataHandler

Abstract

**User**

Client

Administrator

* Login (load the saved data, if client exists, or as a guest or as an administrator)
* Read flight file
* Perform itineraries search
* Perform flights search
* Sort itineraries by time
* Sort itineraries by cost
* List of flights
* Flight
* DataHandler

**DataHandler**

* Open local flight file and read information to java
* Open local client file and read information to java
* List of clients
* List of flights

Client

Administrator

User

**Client**

* Add personal information
* Add billing information
* Edit personal information
* Edit billing information
* Select itinerary
* Book itinerary
* View booked itineraries
* Write personal information, billing information and booked itineraries to file
* Personal information
* Billing information
* Selected itinerary
* Booked itineraries list
* ItinerariesSearch
* DataHandler

**ItinerariesSearch**

* Find all possible itineraries
* Set origin
* Set destination
* Set travel date & time
* Origin
* Destination
* Travel date & time
* List of itineraries
* Itinerary
* Clients

**Itinerary**

* Calculate total travel time
* Calculate total cost
* Departure date & time
* Origin
* Destination
* Total travel time
* Total cost
* List of flights
* ItinerariesSearch

**FlightGraph**

* Add flight as a node to store it in the graph.
* Link two nodes if one of the destination is the other’s origin
* Get all the linked flights, whose origins are same as the destination of the given flight.
* Calculate stopover time between two different flights
* Maximal stopover time
* Minimal stopover time

IternerariesSearch

**Flight**

* Flight number
* Departure date & time
* Arrive date & time
* Airline
* Origin
* Destination
* Cost
* Travel time