

Abstract	
<div>User</div> <div>Client Administrator</div>	
<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • Flight • DataHandler

<div>Administrator</div> <div>User</div>	
<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • Flight • Client • DataHandler

DataHandler	
<ul style="list-style-type: none"> • Open local flight file and read information to java • Open local client file and read information to java ○ List of clients ○ List of flights 	<div>Client Administrator</div>

Client User	
<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • ItinerariesSearch • DataHandler

ItinerariesSearch	
<ul style="list-style-type: none"> • Find all possible itineraries • Set origin • Set destination • Set travel date & time ○ Origin ○ Destination ○ Travel date & time ○ List of itineraries 	<ul style="list-style-type: none"> • Itinerary • Clients

Itinerary	
<ul style="list-style-type: none"> • Calculate total travel time • Calculate total cost <ul style="list-style-type: none"> ○ Departure date & time ○ Origin ○ Destination ○ Total travel time ○ Total cost ○ List of flights 	<ul style="list-style-type: none"> • ItinerariesSearch

FlightGraph	
<ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> ○ Maximal stopover time ○ Minimal stopover time 	ItenerariesSearch

Flight	
<ul style="list-style-type: none"> ○ Flight number ○ Departure date & time ○ Arrive date & time ○ Airline ○ Origin ○ Destination ○ Cost ○ Travel time 	