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 o List of flights	• Flight • DataHandler	

		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 o List of clients	• Flight • Client • DataHandler	

DataHandler	
• Open local flight file and read information to java • Open local client file and read information to java o List of clients o List of flights	Client Administrator

	User
Client	

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

ItinerariesSearch	

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

Itinerary

• Calculate total travel time • Calculate total cost o Departure date & time o Origin o Destination o Total travel time o Total cost o 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 o Maximal stopover time o Minimal stopover time	IternerariesSearch

Flight

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