Abstract User	Client, Administrator
	225, , (arrill liber acc)
Perform itineraries search	• DataHandler
Perform flights search(none stop)	
Sort itineraries by cost	
Sort itineraries by time	

	Administrator		User
 Search Flights Search itineraries Upload Client information View Client information Edit Client information Upload Flight information Edit Flight information Book itineraries for Client View booked itineraries 		DataHandlerClientitinerariesSeach	

	Client	User
•	Edit Personal and billing info • itinerariesSearch	
•	Search flights	
•	Search itineraries	
•	Book itineraries	
•	View booked itineraries	

DataHandler	
open chents est me	ClientAdmin
'	• User

	Flight
•	Flight number
•	Departure data
•	Arrive Data
•	Air Line
•	Origin
•	Destination
•	Cost
•	Seats
•	Travel Time

ltinerary	
Departure data and time	• Flight
Origin	
Destination	
Total travel time	
Total Cost	
List of flights	
-Calculate the total time	
-Calculate the total cost	

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

ItinerariesSearch

ItinerariesSearch

- Find all itineraries with given factors
- -Origin
- Destination
- -Travel date & time
- -List of itineraries

Itinerary

ClientManager

- Read from file
- Save to file
- - Clients

flightManager

- Read from file
- Save to file
- Flights

MainActivity Log in Load all clients and flights info from local to serialized data ClientManager FlightManager

ClientMainActivity	
 Lead client to search flights Lead client to search itineraries Lead client to edit personal and billing info Lead client to view personal and billing info Lead client to view booked itineraries 	

AdminMainActivity	

	SearchFilghtFormActivity	
• Search Flight by given factors		

SearchFlightsResultsActivity		
Sort result by costSort result by time		SearchFlightsFormActivity

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SearchItinerariesFormAcitivity		
Search all itineraries by given fators		
Searchitinera	riesResultsActivity	
Sort result by total timeSort result by total cost	SearchitinerariesFormActivity	
SelectedlitneraryActivity		
Book the selected itinerary	SearchItinerariesResultsActivity	
BookingActivity		
Show all booked itineraries	SelectedItineraryActivity	
ClientInfoActivity		
Show the info of the current client	ClientMainActivity	
EditClientInfoActivity		
Edit the info of current client	ViewClientInfoActivity	

AdminMainActivity Search Flights Search itineraries Edit client info Edit flight info AdminItinerariesShowActivity Show the searched itineraries result AdminMainActivity AdminShowSearchedFlightsActivity Show the searched flight result AdminMainActivity AdminEditFlights Edit the flight info AdminMainActivity AdminNoSuchFlightActivity AdminEditClient Show the given client is not found AdminEditFlights Edit flight info AdminMainActivity

AdminNoSuchFlightActivity Show there is not Flight match the given flight # AdminEditFlightActivity AdminClientEidtSuccessfully AdminEdit@lientAcitivity To show that the edit is success AdminFlightEdittedSuccessfullyActivity To show that the flight is edit successfully AdminEditFlightActivity AdminViewEditClientsActivity Edit or View all Clients AdminMainActivity AdminViewClientActivity View all the client info AdminMainActivity AdminEditClientActivity

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AdminViewEditClientsActivity

Admin edit Client file

AdminViewBookedItinerariesActivity		ity
	Show all the booked itineraries by Client	AdminMainActivity