

CRC - Project Phase II
Team 7-1: group_0491

FlightBookingApplication	
Launch Application	Client
Login User using username and password	Administrator
Save data (User and Flight data)	BookFlightItinerary
Load saved data (User and Flight data)	FlightDatabase
Pass data between users and Databases	ClientDatabase
Logout	FlightItinerary
	Flight
Quit application	ItinerarySort
	ItineraryGenerator

Abstract	
User	
Client, Administrator	
Create new user with given UserName and Password	
Change Password	
Check if given password is correct.	

Client	
User	
Enter personal/billing information	ItineraryGenerator
Edit personal/billing information	FlightBookings
Search FlightItinerarays by departure date, travel origin, and destination	ItinerarySort
Display/Sort FlightItinerarays by travel time	
Display/Sort FlightItinerarays by cost	
Select itinerary from list	
Book selected itinerary	
View booked itineraries	

Administrator	
User	
View client information	Client
Edit client information	FlightDatabase
Enter individual Flight info	ClientDatabase
Upload Client(s) data from file	LoadDataFromFile
Upload Flight(s) data from file	

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ClientDatabase	
Add User Remove User Get User Add multiple Users	Client Administrator

ItinerarySort	
Sorts given FlightItinerarys by total travel time in place Sorts given FlightItinerarys by total total cost in place	FlightItinerary

Abstract Transportation		Flight
Set origin Get origin Set destination Get destination Set departure date and time Get departure date and time Set arrival date and time Get arrival date and time Set cost Get cost Get travel time		

Flight		Transportation
Set Flight number Get Flight number Set airline Get airline Set capacity of Flight Get capacity of Flight Add passenger Check if flight is full		Client

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FlightDatabase	
Add Flight Remove Flight Get Flight Add multiple Flights	Flight

ItineraryGenerator	
Find all Flight paths from origin to destination on given departure date Create list of valid itineraries Find all direct flights between an origin and destination on a given date	Flight FlightItinerary FlightDatabase

FlightItinerary	
Create Itinerary Flight Path using origin,destination and travel dates Compute total cost Compute total travel time Give all Flight information Give Flight path Give total cost Get origin Get destination Get Travel Dates Give total travel time	Flight

Abstract	
BookItinerary	
Add Booking Remove Booking	BookFlightItinerary

BookFlightItinerary	
Check if all Flights in itinerary still have capacity Book FlightItinerary Remove Booking of a FlightItinerary	FlightItinerary Flight

LoadDataFromFile	
Upload Client(s) data from file Upload Flight(s) data from file	