

CRC - Project Phase II
Team 7-1: group_0491

FlightBookingApplication	
Launch Application Login User using username and password Save data (User and Flight data) Load saved data (User and Flight data) Pass data between users and Databases Logout	Client Administrator BookFlightItinerary FlightDatabase ClientDatabase FlightItinerary LoadDataFromFile Flight 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 Edit personal/billing information Search FlightItinerarys by departure date, travel origin, and destination Display/Sort FlightItinerarys by travel time Display/Sort FlightItinerarys by cost Select itinerary from list Book selected itinerary View booked itineraries	ItineraryGenerator FlightBookings ItinerarySort	

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

UserDatabase	
Add User Remove User Get User Stores all Users (incl Admin and Client) with Usernames as keys Add multiple Users	Client Administrator

ItinerarySort	
Sorts given FlightItineraries by total travel time in place Sorts given FlightItineraries by total total cost in place Sorts given list of Flights by total cost Sorts given list of Flights by total travel time	FlightItinerary Flights

Abstract Transportation	
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

Flight Transportation	
Set Flight number Get Flight number Set airline Get airline Set capacity of Flight Get capacity of Flight Add passenger	Client

Check if flight is full

FlightDatabase

Add Flight
Remove Flight
Get Flight
Stores all flights in one place with flight numbers as keys
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

BookFlightItinerary

Add Booking
Remove Booking

CRC - Project Phase II
Team 7-1: group_0491

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

LoadDataFromFile	
store input from data to flight booking application Used to assist the driver	FlightBookingApplication UserDatabase FlightDatabase

ClientManager	
Create client manager for clients with information in file Stores user objects in ClientDatabase Writes the flights to a file outstream Create user object from CSV files	FlightBookingApplication UserDatabase

FlightManager	
Create flight manager for flights with information in the file Write flights to file outstream Upload flight object into flight database Create flight object from flight information from csv file	FlighBookingApplication FlightDatabase

PasswordManager	
Create password manager for users in the the given file path Write passwords to file outstream Enters users username and passwords from csv file into the manager	User

AddFlightActivity	
Uses the EditText fields and add the flight information Saves the new addition to the internal storage	FlighBookingApplication MainActivity

CRC - Project Phase II
Team 7-1: group_0491

AdminBookFlightActivity	
Allows Admin to book flights for Clients	AdminActivity ViewFlightsActivity

AdminBookFlightItineraryActivity	
Allows Admin to book FlightItineraries for Clients	FlighBookingApplication FlightItinerary Clients ViewItinerariesActivity Flight

AdminViewClientProfile	
Allows Admin to view Client information	AdminActivity Client FlighBookingApplication

ClientActivity	
Display client home page View/edit client information Search FlightItineraries by departure date, travel origin, and destination Search Flights by departure date, travel origin, and destination	ViewProfileActivity MainActivity SearchItineraryActivity SearchFlightsActivity

ClientBookFlightActivity	
Allows clients to book flights after the searches	ViewFlightsActivity Client Flight FlighBookingApplication

ClientBookFlightItineraryActivity	
Allows clients to book flightItineraries after the searches	Client ViewItinerariesActivity FlighBookingApplication Flight

CRC - Project Phase II
Team 7-1: group_0491

FlightItinerary	
EditProfileActivity	
Allows admin and client to edit client information	ViewProfileActivity ClientActivity AdminActivity
MainActivity	
Creates Managers that keep track of the data Checks valid username and password Allows Users to register manually Launches the ClientActivity and AdminActivity	FlightBookingApplication ClientManager PasswordManager FlightManger RegisterActivity FlighBookingApplication
RegisterActivity	
Change visible EditTexts based on admin or client Creates user based on the choice selected	FlightBookingApplication Admin MainActivity Client
SearchFlightActivity	
Search Flights by departure date, travel origin, and destination Passes the search to ViewFlightsActivity	FlighBookingApplication ViewFlightsActivity
SearchItinerariesActivity	
Search FlightItineraryps by departure date, travel origin, and destination Passes the information to the ViewItinerariesActivity	FlighBookingApplication ViewItinerariesActivity
UploadClientActivity	
Displays the information that will be saved into the internal storage Saves dats using the manager created in MainActivity	FlighBookingApplication MainActivity

CRC - Project Phase II
Team 7-1: group_0491

Returns to the AdminActivity after the save	ClientManager AdminActivity
UploadPasswordActivity	
Uses the Password Manager created in MainAcitivity to save the data	MainActivity PasswordManager AdminActivity
UploadFlightActivity	
Uses the Flight Manager in MainActivity to save the data internally	FlighBookingApplication MainActivity AdminActivity FlightManager
ViewItinerariesActivity	
This acts as a DisplayActivity for Search Itineraries Furthur allows users to book and sort the itineraries	ItinerarySort FlighBookingApplication Flight BookFlightItinerary SearchItinerariesActivity FlightItinerary
VeiwProfileActivity	
Acts as a DisplayActivity for viewing the client information Allows admin and client to edit client information	EditProfileActivity AdminActivity FlighBookingApplication ClientActivity
AdminActivity	
Display admin hompage Upload Client(s) data from file Upload Flight(s) data from file Upload Passwords data from file View client information Add Flight View Flight information Search FlightItinerarys by departure date, travel origin, and destination Search Flights by departure date, travel origin, and destination	MainActivity UploadPasswordActivity UploadClientActivity UploadFlightActivity AdminViewClientAcitivity SearchFlightsActivity FlightManager PasswordManager ClientManager

CRC - Project Phase II
Team 7-1: group_0491

Book FlightItinerary for clients	AddFlightActivity SearchItinerariesActivity ViewFlightInfoActivity
----------------------------------	--

AdminViewBookedClientItineraries	
Acts as a DisplayActivity for viewing all booked Itineraries for a client Furthur allows users to book and sort the itineraries	FlightItinerary FlighBookingApplication Flight Client AdminActivity

ViewBookedClientItinerariesActivity	
Acts as a DisplayActivity for a Client to view their clients Furthur allows users to book and sort the itineraries	FlightItinerary FlighBookingApplication Flight ClientActivity Client

ViewFlightInfoActivity	
Acts as a DisplayActivity for a flight Furthur allows admins to Edit that information	FlighBookingApplication Flight AdminActivity

ViewFlightsActivity	
This acts as a DisplayActivity for Search Flights Furthur allows users to book and sort the itineraries by cost and time	ItinerarySort FlighBookingApplication ClientBookFlightActivity SearchFlightsActivity