



Administrator

+Administrator(email: String, billingAddress: String, firstName: String, lastName: String)
+updateClientEmail(client: Client, email: String): void
+updateClientPersonalInformation(client: Client, firstName: String, lastName: String, billingAddress: String): void
+viewClients(): ArrayList<Client>
+selectClient(): Client
+addFlight(flight: Flight): void
+uploadFlights(path: String): void
+hashCode(): int

Client

-bookedTrips: ArrayList<Itinerary>

+Client(email: String, billingAddress: String, firstName: String, lastName: String)
+hashCode(): int
+getFlightTrips(origin: String, destination: String, departureDate: Date, departureTime: String): ArrayList<Itinerary>
+selectItinerary(): Itinerary
+bookTrip(): void
+viewBookedTrips(): ArrayList<Itinerary>

Flight

-flightNumber: int
-departureDate: Date
-departureTime: Time
-arrivalDate: Date
-arrivalTime: Time
-airline: String
-origin: String
-destination: String
-cost: double

+Flight(flightNumber: int, departureDate: Date, departureTime: Time, arrivalDate: Date, arrivalTime: Time, airline: String, origin: String, destination: String, cost: double)

Itinerary

-flights: ArrayList<Flight>
-totalCost: double
-totalFlightTime: Time

+Itinerary(flights: ArrayList<Flight>)
+addFlight(flight: Flight): void
+getTotalCost(): double
+getTotalTravelTime(): Time
-updateTotalTime(): void
-updateTotalCost(): void

FlightDatabase

-listOfFlights: ArrayList<Flight>

+FlightDatabase(path: String)
+addFlight(flight: Flight): void
+bookItinerary(client: Client, itinerary: Itinerary): void
+updateDatabaseOfIteneraries(): void
+getListOfIteneraries(): ArrayList<Itinerary>
+queryItinerary(departureDate: Date, origin: String, destination: String, boolean: sortByTime, boolean: sortByCost): ArrayList<Itinerary>

ClientDatabase

-listOfClients: ArrayList<Client>

+ClientDatabase()
+addClient(Client): void
+updateClientDatabase(): void
+QueryClient(email: String): Client

AdministratorDatabase

-listOfAdmins: ArrayList<Administrator>

+AdministratorDatabase()
+addAdmin(Administrator): void
+updateAdminDatabase(): void
+QueryAdmin(email: String): Administrator