user

**Account.java <>**

---

#email: String
-billingAdress: String
-firstName: String
-lastName: String

---

+setFirstName(firstName: String): void
+setLastName(lastName: String): void
+setBillingAdress(adress: String): void
+getEmail(): String
+getFirstName(firstName: String): String
+getLastName(lastName: String): String
+getBillingAdress(adress: String): String
+updateInformation(firstName: String, lastName: String, billingAdress: String): void
+hashCode(): int

**Administrator.java**

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---

+Administrator(email: String, billingAdress: String, firstName: String, lastName: String)
+updateClientEmail(client: Client, email: String): void
+updateClientPersonalInformation(client: Client, firstName: String, lastName: String, billingAdress: String): void
+hashCode(): int

**Client.java**

---

-bookedTrips: ArrayList<Itenary>

---

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

# Flights

## 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
+getTotatTravelTime(): Time
-updateTotalTime(): void
-updateTotalCost(): void
+equalsTo(): Integer

# Databases

## IternaryDatabase

-listOfIternaries: ArrayList<Iternary>

+IternaryDatabase()
+addItenerary() : boolean
+bookItenerary(Client client, Itenerary iter) : boolean
+updateDatabaseOfItenaries() : void
+getListOfIterneraries() : ArrayList<Iternrary>
+queryItenerary(departureData: Date, origin:String, destination: String, boolean sortByTime, boolean sortByCost) : ArrayList<Itinerary>

## AccountDatabase

-listOfAccounts: ArrayList<Account>

+AccountDatabase()
+addAccount(Client) : bool
+updateDatabaseOfAccount() : void
+QueryClient(email: String): ArrayList<Client>