<<Abstract>>
User

- email: String

- password: String

+ User(email: String, password: String)

+ logIn(email: String, password: String): boolean

Admin

+ Admin(email: String, password: String)

+ getClientEmail(client: Client)

+ getClientPassword(client: Client)

+ getClientName(client: Client)

+ getClientAddress(client: Client)

+ getClientCC(client: Client)

+ setClientEmail(client: Client, email: String)

+ setClientPassword(client: Client, password: String)

+ setClientName(client: Client, first: String, last: String)

+ setClientAddress(client: Client, address: String)

+ setClientCC(client: Client, creditCard: String)

+ viewClients(): List<Client>

Client

- firstName: String

- lastName: String

- address: String

- creditCard: String

- bookedItinerary: List<Itinerary>

+ Client(email: String, password: String, firstName: String,lastName: String, address: String, creditCard: String)

+ searchByTime(date: Date, origin: String, destination: String):List<Itinerary>

+ searchByCost(date: Date, origin: String, destination: String):List<Itinerary>

+ book(toBook: Itinerary): void

+ booked(): List<Itinerary>

Flight

- flightId: int

- arrivalTime: String

- departTime: String

- origin: String

- destination: String

- airline: String

- availableSeats: int

- flightTime: double

- cost: double

+ Flight(arrivalTime: String, departTime: String, origin: String,destination: String, airline: String, availableSeats: int, cost:double)

+ checkStatus: String

Itinerary<Flight>

- List<Flight>

- itineraryId: int

- totalCost: double

- totalTime: double

+ Itinerary()

+ setItineraryId(): void

+ getTotalCost(): double

+ getTotalTime(): double

+ addFlight(flight: Flight): boolean

+ removeFlight(flight: Flight): boolean

Database

- List<Flight>

- List<Client>

- List<Admin>

+ Database()

+ addNewClient(client Client): boolean

+ addNewAdmin(admin Admin): boolean

+ addNewFlight(flight Flight): boolean

+ addFlightsFromFile(inFile: String): boolean

+ updateClient(client Client): boolean

+ updateAdmin(admin Admin): boolean

+ updateFlight(flight Flight): boolean