

## UML

### User <<abstract>>

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- email: String
- password: String

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+ User(email: String, password: String)

### Client extends User

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- variables

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+ methods

### Admin extend User

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- variables

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+ methods

### Flight

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- flightId: int
- arrivalTime: String
- departTime: String
- origin: String
- destination: String
- airline: String
- flightTime: double
- cost: double

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+ Flight(arrivalTime: String, departTime: String, origin: String, destination: String, cost: double)  
+ checkStatus: String  
+ setFlightId: void // setFlightId() calls hashCode() to make unique hash key which will be the flight ID

## Itinerary<T>

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- List<Flight>
- itineraryId: int
- totalCost: double
- totalTime: double

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- + Itinerary()
  - + setItineraryId(): void
  - + addFlight(flight: Flight): boolean
  - + removeFlight(flight: Flight): boolean
  - + getFlight(index: int): Flight

## Database