

Flight

- Airline
- Flight number
- Departure Date
- Arrival Date
- Origin
- Destination
- Travel Time
- Travel Cost
- Number of seats

FlightDatabase

- Flights
- Search flights by departure date, origin, destination

- Flight

Itinerary

- Itinerary Id
- Departure Date
- Arrival Date
- Origin
- Destination
- Total Time
- Travel Cost
- Sequence of flights from origin to destination

- Flight
- FlightDatabase

CostComparator

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| <ul style="list-style-type: none">• Compares the cost of Itneraries | <ul style="list-style-type: none">• Itinerary |
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TimeComparator

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| <ul style="list-style-type: none">• Compares the travel duration of Itineraries | <ul style="list-style-type: none">• Itinerary |
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ItineraryDatabase

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| <ul style="list-style-type: none">• Search Itineraries by departure date, origin and destination• Sort itineraries by overall travel time, or itinerary costs | <ul style="list-style-type: none">• TimeComparator• CostComparator• Itinerary• Flight• FlightDatabase |
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Abstract

User

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| <ul style="list-style-type: none">• Username• Password• Last name• First name• Email• Address• Credit Card Info• Credit Card Expiry• Book itinerary | <ul style="list-style-type: none">• Itinerary Database |
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| Client | | User |
|--|--|------|
| <ul style="list-style-type: none">• Access key | | |

| Admin | | User |
|---|---|------|
| <ul style="list-style-type: none">• Access key• Upload flight information• Upload Client's personal information• Edit client's personal information• Book itineraries for other clients | <ul style="list-style-type: none">• UploadedInfo• User• User Database | |

| UserDatabase | | |
|--|--|--|
| <ul style="list-style-type: none">• Add User(s)• Get Existing User(s) by email or username• Check if User exists inside the database | <ul style="list-style-type: none">• User | |

| DataWriter | | |
|---|--|--|
| <ul style="list-style-type: none">• Writes saved user information• Writes saved flight information | <ul style="list-style-type: none">• User• Client• Admin• Flight• UserDatabase• FlightDatabase | |

UploadedInfo

- Uploads user information
- Uploads flight information

- User
- Client
- Admin
- Flight
- UserDatabase
- FlightDatabase

LoadedInfo

- Loads existing flight information
- Loads existing user information

- User
- Client
- Admin
- Flight
- UserDatabase
- FlightDatabase
- DataWriter

FieldChecks

- Checks for empty and invalid inputs

Driver

- Search Itineraries by departure date, origin and destination
- Sort itineraries by overall travel time, or itinerary costs
- Search flights by departure date, origin, destination
- Get Existing User(s) by email or username
- Uploads user or flight information

- UserDatabase
- FlightDatabase
- ItineraryDatabase

LoginActivity

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| <ul style="list-style-type: none">• Authenticates the user• Requests sign up | <ul style="list-style-type: none">• LoadedInfo• User• UserDatabase• FieldChecks• MenuActivity• SignUpActivity |
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MenuActivity

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| <ul style="list-style-type: none">• Transition buttons between login and all user/client interaction | <ul style="list-style-type: none">• UserDatabase• FlightSearchPrompt• ItinerarySearchPrompt• EditInformation• BookedItineraries• DisplayFlights• EditClientInformation• UploadFlightInfo• UploadUserInfo• LoadedInfo |
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SignUpActivity

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| <ul style="list-style-type: none">• Allow new users to sign up | <ul style="list-style-type: none">• User• Client• Admin• UserDatabase• LoginActivity• DataWriter• FieldChecks |
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UploadFlightInfo

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| <ul style="list-style-type: none">• Reads and parses saved information of the flights from a csv file onto database | <ul style="list-style-type: none">• UploadedInfo• Flight• FlightDatabase• MenuActivity• DataWriter |
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UploadUserInfo

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|--|--|
| <ul style="list-style-type: none">• Reads and parses saved information of the flights from a csv file onto databases | <ul style="list-style-type: none">• UploadedInfo• User• UserDatabase• MenuActivity• DataWriter |
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BookedItineraries

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| <ul style="list-style-type: none">• Display all booked itineraries of current user logged in• Display all booked itineraries of searched user to current admin logged in | <ul style="list-style-type: none">• User• UserDatabase• Itinerary• FieldChecks |
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EditFlightInfo

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| <ul style="list-style-type: none">• Editing all flight information | <ul style="list-style-type: none">• Flight• Flight Database• FieldChecks• DataWriter |
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EditInformation

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| <ul style="list-style-type: none">• Edit and view a user's personal information | <ul style="list-style-type: none">• User• UserDatabase• Admin• DataWriter• FieldChecks |
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EditClientInformation

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| <ul style="list-style-type: none">• View and Edit information of clients | <ul style="list-style-type: none">• User• UserDatabase |
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EditFlightInfo

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|--|--|
| <ul style="list-style-type: none">• View and edit flight information | <ul style="list-style-type: none">• Flight• FlightDatabase• FieldChecks• DataWriter |
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FlightSearchPrompt

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| <ul style="list-style-type: none">• Search for flights given a departure date, origin, and destination | <ul style="list-style-type: none">• Flight• FlightDatabase• FieldChecks |
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FlightSearchResults

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| <ul style="list-style-type: none">• Displays results of FlightSearchPrompt | <ul style="list-style-type: none">• Flight |
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ItinerarySearchPrompt

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| <ul style="list-style-type: none">• Search for all itineraries given a departure date, origin, destination• Sort all searched itineraries given a departure date, origin, destination | <ul style="list-style-type: none">• Itinerary• ItineraryDatabase• FieldChecks |
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ItinerarySearchResults

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| <ul style="list-style-type: none">• Displays the results from the ItinerarySearchPrompt | <ul style="list-style-type: none">• User• Admin• UserDatabase• Flight• FlightDatabase• Itinerary• DataWriter |
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