<u>Use Case 1:</u> View flights, given a source-destination pair

Identification of system of operations and operation contracts

System of operations:
- searchFlightsInfoBasic(source, destination)
- viewBasicFlightDetails(source, destination)
- searchFlightsInfoFull(source, destination)
- viewFullFlightDetails(source, destination)
- searchFlightsAirport(source, destination)
- viewAirportFlightDetails(source, destination)

<u>Operation Contracts:</u>

Operation: searchFlightsInfoBasic(source, destination)
Use Case: View flights, given a source-destination pair
Preconditions:
1. Two instances of Airport already exists (one for source, the other destination).
2. Non-registered user instance already exists.
3. User is authenticated and visible.
Postconditions:
1. Returns list of public flights.

Operation: getBasicFlightDetails(source, destination)
Use Case: View flights, given a source-destination pair
Preconditions:
1. Airline instances already exists.
2. Flight instances already exists.
Postconditions:
1. Return flight details of Flight instances.
2. Display Flight instances with details.

Operation: searchFlightsInfoFull(source, destination)
Use Case: View flights, given a source-destination pair
Preconditions:
1. Two instances of Airport already exists (one for source, the other destination).
2. Non-registered user instance already exists.
3. User is authenticated and visible.
Postconditions:
1. Returns list of public flights.

Operation: getFullFlightDetails(source, destination)
Use Case: View flights, given a source-destination pair
Preconditions:

1. Airline instances already exists.
2. Flight instances already exists.

Postconditions:

1. Return flight details of Flight instances.
2. Display Flight instances with details.

Operation: searchFlightsAirport(source, destination)
Use Case: View flights, given a source-destination pair
Preconditions:

1. Two instances of Airport already exists (one for source, the other destination).
2. Airport administrator registered user instance already exists.
3. User is authenticated and visible.

Postconditions:

1. Returns list of public and private flights.

Operation: getAirportFlightDetails(source, destination)
Use Case: View flights, given a source-destination pair
Preconditions:

1. Airline instances already exists.
2. Flight instances already exists.

Postconditions:

1. Return flight details of Flight instances.
2. Display Flight instances with details.