

## System Operations - Use Case 2: Register Flight

The system operation obtained from the system sequence diagram is:

- registerFlight(..., source, scheduledDep, scheduledArr)

### **Operation Contract:**

Contract CO1: registerFlight

Operation: registerFlight(number, source, destination, scheduledDep, scheduledArr, airline)

Cross References: Use Case Register Flight

Pre-Conditions:

1. User is either an Airport Administrator or an Airline Administrator
2. Source Airport exists
3. Destination Airport exists
4. Airline exists, if the user is a Airline Administrator

Post-Conditions:

1. A Flight instance, flight, was created. (instance creation)
2. flight.number was set to number. (attribute modification)
3. flight.scheduledDep was set to scheduledDep. (attribute modification)
4. flight.scheduledArr was set to scheduledArr. (attribute modification)
5. flight was associated with a FlightCatalog. (association formed)
6. flight was associated with a Source Airport, source. (associated formed)
7. flight was associated with a Destination Airport, destination. (associated formed)
8. flight was associated with an Airline, airline. if the user is an Airline Administrator. (association formed).
9. flight was association with an Aircraft, aircraft. (associated formed)