

System	Contract CO1: registerNonPrivateFlight
<pre> registerNonPrivateFlight (     source,     destination,     scheduledDeparture,     scheduledArrival,     flightType,     aircraft,     airline )  registerPrivateFlight (     source,     destination,     scheduledDeparture,     scheduledArrival,     aircraft ) </pre>	<p><b>Operation:</b> registerNonPrivateFlight (  <i>source: String,</i>  <i>destination: String,</i>  <i>scheduledDeparture: DateTime,</i>  <i>scheduledArrival: DateTime,</i>  <i>flightType: Enum(COMMERCIAL, CARGO),</i>  <i>aircraft: aircraftId,</i>  <i>airline: airlineId</i>  )</p> <p><b>Cross References:</b> Use Case 2: Register a flight into the flights database.</p> <p><b>Preconditions:</b></p> <ul style="list-style-type: none"> <li>- The source and destination airports exist.</li> <li>- The aircraft exists and is available from scheduled departure to scheduled arrival.</li> <li>- The airline exists.</li> <li>- There isn't another flight scheduled to depart at the same time from the source airport.</li> <li>- There isn't another flight scheduled to arrive at the same time at the destination airport.</li> </ul> <p><b>Postconditions:</b></p> <ul style="list-style-type: none"> <li>- A <b>NonPrivateFlight</b> instance <u>nonPrivateFlight</u> was created (instance creation).</li> <li>- <u>nonPrivateFlight</u> was associated with <b>Flight</b> (association formed).</li> <li>- <u>nonPrivateFlight</u> was associated with <b>Airport</b>, based on code match (association formed).</li> <li>- nonPrivateFlight.source was set to source (attribute modification).</li> <li>- nonPrivateFlight.destination was set to destination (attribute modification).</li> <li>- nonPrivateFlight.scheduledDeparture was set to scheduledDeparture (attribute modification).</li> <li>- nonPrivateFlight.scheduledArrival was set to scheduledArrival (attribute modification).</li> <li>- nonPrivateFlight.flightType was set to flightType (attribute modification).</li> <li>- <u>nonPrivateFlight</u> was associated with a <b>Aircraft</b>, based on id match (association formed).</li> <li>- <u>nonPrivateFlight</u> was associated with a <b>Airline</b>, based on id match (association formed).</li> </ul>

Contract CO2: registerPrivateFlight
<p><b>Operation:</b> registerPrivateFlight (  <i>source: String,</i>  <i>destination: String,</i>  <i>scheduledDeparture: DateTime,</i>  <i>scheduledArrival: DateTime,</i>  <i>flightType: Enum(COMMERCIAL, CARGO),</i>  <i>aircraft: aircraftId</i>  )</p> <p><b>Cross References:</b> Use Case 2: Register a flight into the flights database.</p> <p><b>Preconditions:</b></p> <ul style="list-style-type: none"> <li>- The source and destination airports exist.</li> <li>- The aircraft exists and is available from scheduled departure to scheduled arrival.</li> <li>- There isn't another flight scheduled to depart at the same time from the source airport.</li> <li>- There isn't another flight scheduled to arrive at the same time at the destination airport.</li> </ul> <p><b>Postconditions:</b></p> <ul style="list-style-type: none"> <li>- A <b>PrivateFlight</b> instance <u>PrivateFlight</u> was created (instance creation).</li> <li>- <u>PrivateFlight</u> was associated with <b>Flight</b> (association formed).</li> <li>- <u>PrivateFlight</u> was associated with <b>Airport</b>, based on code match (association formed).</li> <li>- PrivateFlight.source was set to source (attribute modification).</li> <li>- PrivateFlight.destination was set to destination (attribute modification).</li> <li>- PrivateFlight.scheduledDeparture was set to scheduledDeparture (attribute modification).</li> <li>- PrivateFlight.scheduledArrival was set to scheduledArrival (attribute modification).</li> <li>- <u>PrivateFlight</u> was associated with a <b>Aircraft</b>, based on id match (association formed).</li> </ul>