

Model Driven Software Engineering

(COEN 6312)

Project Deliverable 1

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# 1. Introduction

# 2. Class Diagram Description

## 2.1 Person

### 2.1.1 User

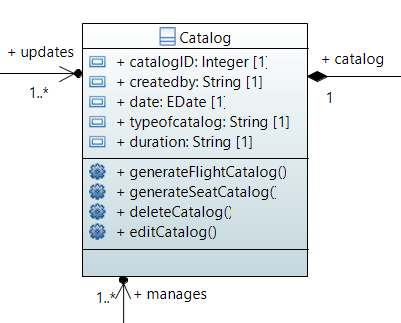
### 2.1.2 Administrator

## 2.2 System

## 2.3 Online Air Reservation System

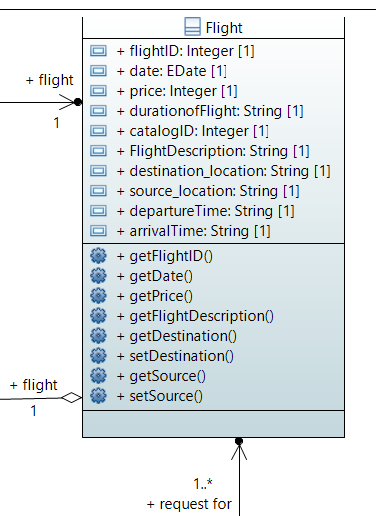
## 2.4 Ticket

## 2.5 Catalog

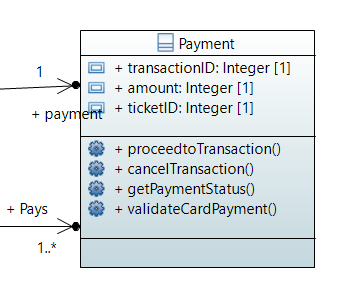


Catalog class holds all required data for flights and tickets. Upon receiving different combinations of requests, it can serve list of flight or list of available seats.

## 2.6 Flight



## 2.7 Payment



# 3. OCL Constraints

* Each person who logs in to the system to book a ticket must have an unique ID :

Context : Person

inv : self.allinstances()->forall(P1,P2:Person | P1 <> P2 implies P1.userID <> P2.userID);

* Each Ticket booked by the user for scheduled travel should have an unique ID :

Context : Ticket

inv : self.allinstances()->forall(T1,T2:Tickets | T1<>T2 implies T1.ticketID <> T2.ticketID);