

Model Driven Software Engineering

(COEN 6312)

Project Deliverable 1

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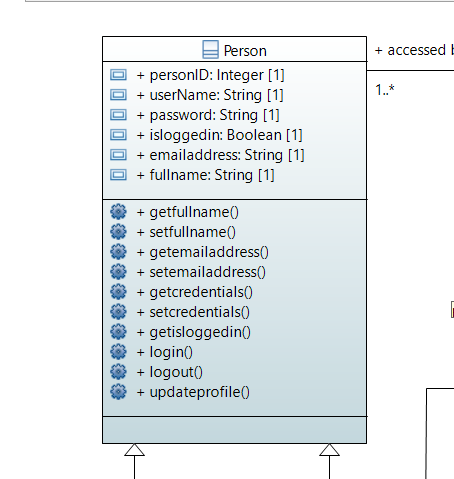
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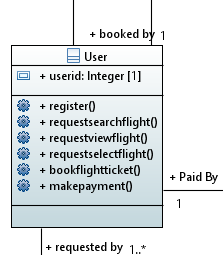
# 1. Introduction

# FlyAir (2).png2. Class Diagram Description

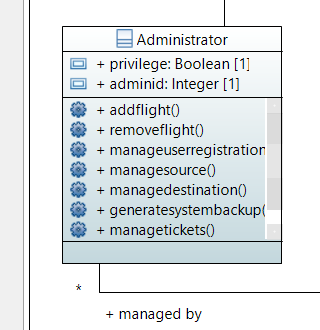
## 2.1 Person



### 2.1.1 User



### 2.1.2 Administrator



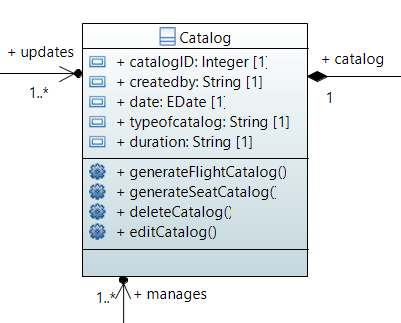
Admin class will define the role of an administrator in the system. This class will inherit the Person class. The primary task of Admin class is perform administrative functions in flight reservation system. Administrator will manage flight details, user registrations and routinely take system back-up. Admin class can manage overall system.

## 2.2 System

## 2.3 Online Air Reservation System

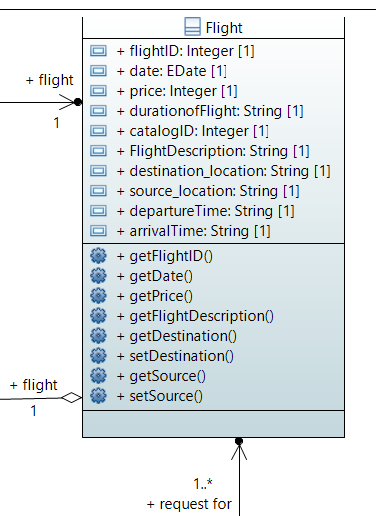
## 2.4 Ticket

## 2.5 Catalog

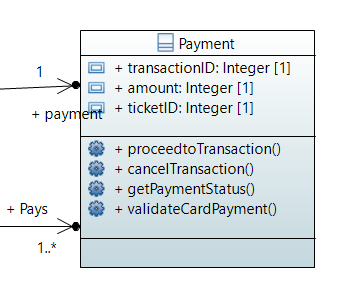


Catalog class holds all required data for flights and tickets. Upon receiving different combinations of requests, it can serve list of flight or list of available seats.

## 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);