

Airplane tickets database

- Passenger: This entity represent a passenger and has attributes such as passport, first name, last name, phone number and email. This entity is related with ticket and payment.
- Payment: This entity represent a payment and has attributes such as payment number, finally the passenger identification number, credit card type, credit card number, payment date and as a foreign key, so this entity is related with passenger.
- Ticket: This entity represent a ticket and has attributes such as the ticket number, the price and the seat. This entity is related with the passenger, the boarding pass and the flight.
- Boarding Pass: This entity represent a boarding pass and has attributes such as the boarding pass number ticket number, luggage number and gate. After the boarding pass was checked in and the passenger boarded the airplance it change its state as has checked in and has boarded.
- Luggage: This entity represent a luggage and has attributes such as the luggage number, the passenger number and the flight number as foreign keys.
- Flight: This entity represent a flight and has attributes such as flight number, airplane number, departure date, arrival date, duration time, departure airport, destination airport, so it is related with the ticket, the airplane, the airport and the cabin crew.
- Flight Cabin Crew: This entity represent a cabin crew and has attributes such as the flight number and the air crew member. And it is related with the flight and the air member crew.
- Air member: This entity represent the air member and has attributes such as the air crew member id the passenger number and the designation number so it is related with those entities.
- Designation: This entity represent the rol of the air member and has attributes such as the designation number and the designation description. And it is related with the air crew member .
- Airplane: This entity represents the airplane and has attributes such as the airplane number, the airline number, the model number, the manufacturer and the seats capacity. This entity is related with the airline and the flight.
- Airline: This entity represents the ailne and has attributes such as the airline number the name and the phone number. This is related with the airplane.
- Airport: This entity represent the airport and has attributes such as airport number, airport name, location number and it is related with the flight entity and the location entity.
- Location: This entity represent the location and has attributes such as the location identification number, the city, state and country and it is related with the airport entity.

Use Cases

1. Title: Query payments history.
Primary actor: Passenger.
Success scenario: The passenger query his payments history to get information such as credit card type, credit card number and payment date.

2. Title: Query flights information.
Primary actor: Passenger.
Success scenario:The passenger query his flight information to review the departure time, the arrival time, the flight duration, the departure airport anad destination airport.

3. Title: Query Boarding passes information.
Primary actor: Passenger.
Success scenario: The passenger query his boarding pass information to review the ticket information, luggage and gate. After the boarding pass was checked in and the passenger boarded the airplance it change its state as has checked in and has boarded

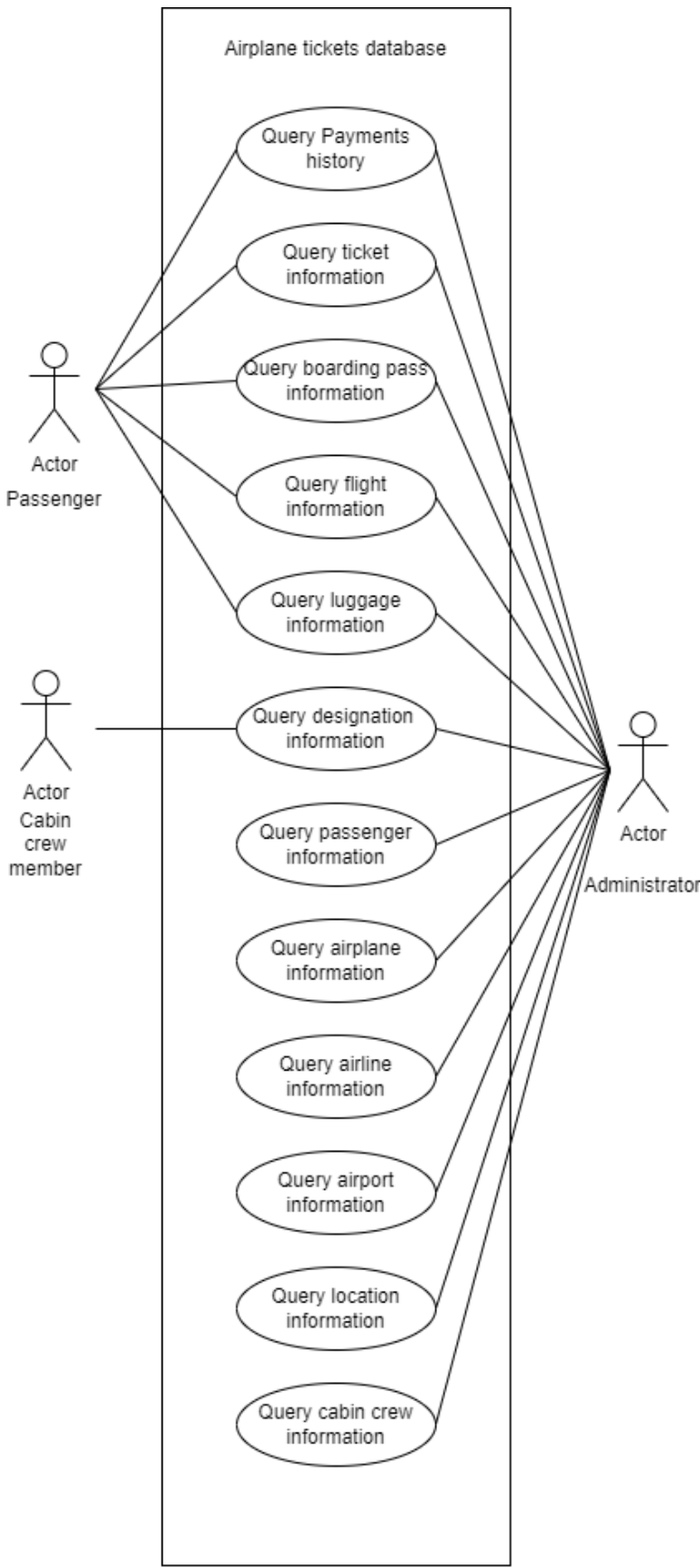
3. Title: Query tickets information.
Primary actor: Passenger.
Success scenario: The passenger query his ticket information to review the ticket number, the price and the seat.

3. Title: Query luggage information.
Primary actor: Passenger.
Success scenario: The passenger query if its boarding pass includes luggage or not.

2. Title: Query flight information.
Primary actor: Cabin crew member.
Success scenario: The air crew member query the flight information to review the departure time, the arrival time, the flight duration, the departure airport anad destination airport.

2. Title: Query designation information
Primary actor: Cabin crew member.
Success scenario: The air crew member query his designation for the flight.

3. Title: Query database.
Primary actor: Administrator.
Success scenario: The administrator query the database to review information about the flight, the airplane, the airline, the airport, the aircrew, the cabin crew, the passenger, the ticket, the passenger, the boarding pass, the luggage, the designation.



ER Diagram

