

LuxuryHolidays is a system for booking and selling of the tickets of touristic. The system has to manage:

- ❑ A set of ports. Each of them has a name and a country
- ❑ A set of touristic locations that can be visited during the cruise. Each has a name, location and a price.
- ❑ A set of cruises between two ports. Each cruise has a code, a departure date, a departure port, an arrival port, an arrival date, a set of touristic locations along the way and a category.
- ❑ Seats. Each cruise offers a number of seats on which the travelers make bookings.
- ❑ Ticket booking. A traveler can book one or more seats for a given cruise. Each cruise is identified with the traveler's first and last names and with a booking code. Bookings are cancelled with 10 minutes before the cruise begins.
- ❑ Ticket selling. A traveler can buy the booked seats using the code of a previous booking (reservation) or directly from the ticket office (in the same conditions with the reservation). Booked or sold tickets can not be given back.
- ❑ Ticket cancelling. A traveler can cancel a previously booked ticket. The Traveler will receive back part of the ticket price, depending on how much time is left till the start of the cruise.

Use case: Booking Management (main flow)

1. The Traveler indicates the departure port. This indicated port becomes the current airport and the system shows the available cruises from that port.
2. The Traveler indicates the destination port and the departure and arrival dates. The system shows the available cruises where it is possible to book seats.
3. The Traveler indicates the cruise code. The system shows all the categories of tickets (economic, business) for that cruise and the available touristic locations along the way.
4. The Traveler indicates one category ,the number of seats and selects the touristic locations which he/she wants to book tickets for. The system computes and displays the cost of tickets, together with all necessary information of bookings: the data about the flight, the seats, the selected touristic locations.
5. The Traveler confirms to the Cashier his/her intention of booking the selected seats and gives his/her own credit card. With the help of a Credit Card Authority, the system verifies the credit card and associates a code to the booking and recorded it. The system prints the booking receipt with all significant information. The Traveler receives the booking receipt.

Construct:

1. Domain model;
2. Use case description for book management using the template provided at the course