Project Report on:

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**Travel Agency**

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Overview:

This report outlines how the travel agency application serves as an agent to connect to two entities, i.e. a customer and airliners, to perform the task of booking flight tickets for a customer. In order to explain the process, we have listed out the actors and functioned performed to book a seat for a customer on a flight. This project comprises of sequence of actions performed by travel agency to book a flight ticket.

Actors:

1. Customer
2. Travel Agency
3. Airline

Entities:

**1.Customer:**

A customer should provide personal details to confirm booking for a flight.

Attributes: First Name, Last Name, Age, Passport Number, Email Id

Functions:

1. getCustomerName()- returns the Name of the customer.
2. getPassportNumber()- returns the Passport Number of the customer.
3. getAge()- returns the age of the customer.

**2.Travel Agency:**

Travel agency plays the role of a middleman between airline and the customer, and helps book tickets for a customer for a given source to destination and date.

Attributes: Name, Address, Working Hours, Email

Functions:

1. getCustomerDetails()- returns the details of the customers.
2. getFlightDetails()- returns the details of the flight offered by an airline.
3. bookFlightTickets()- will book chosen flight for the customer.
4. bookcar()- will book car from one destination to another.
5. bookHotel()- will book hotels in specified region .

**3. Airline:**

An airline is an organization that offers air transportation services and different flight schedules depending on the source and destination and travel dates entered.

Attributes: Flight Number, Airliner, Airline, Arrival time, Departure Time, Arrival Date, Departure Date, Capacity, Fleet, Price.

Features:

1. getAirline()- returns the name of the airlines.
2. getBestflight()- returns the details of the best flight available.

**UML Diagram**

A screenshot of a cell phone

Description automatically generated

Future Scope:

We can expand the existing model by implementing car rental and hotel reservations system.

1. The existing model books flights on the basis of departure city and arrival city. We can implement a hotel reservation system by suggesting customers the list of hotels in the arrival city based on location.
2. There is scope to include the car rental companies as well to provide customers rental cars for their travel from the arrival location to their desired location.
3. Provide a feature of booking a multi-city flight booking, where a customer can choose multiple stops on a travel plan. For example, start from source A, travel to next city B, from there to next city C and return to the source A.
4. Also, a travel agency can book nearby hotel rooms for the customer in the future model at the last destination of the journey or at the layover by only entering the name of the destination.
5. Hotel rooms nearby can be found by using GeoCoding. It will return the list of hotels in the preferred distance range.

**Actors in the future model:**

1. Car Rental Company
2. Hotels

**Entities:**

**1. Car Rental Company:**

A car rental company will offer transportation services from the destination of air travel to the desired location by a customer. A travel agent can book car service from the required destination.

Attributes: Name, Car type, Capacity, Brand, Car Number, Availability

Features:

1. getAvailableCars()- returns the number of available cars.
2. getSource()- returns the entered source.
3. getDestination()- returns the entered destination.
4. bookAvailableCars()- books the available car.
5. **Hotels:**

A travel agent can book hotel room for the customer at the last destination of the journey or where there is a layover in the travel plan.

Attributes: Name, Address, RoomType & Price, Contact number

Functions:

1. searchNearbyHotels()- returns a list of hotels available nearby.
2. getHotelName()- returns the name of the selected hotel.
3. getHotelAddress()- returns the address of the hotel.
4. getRoomType&Price()- returns the price of the available rooms by their type.

# Conclusion:

To conclude, we have demonstrated how travel agency model works and successfully implemented a system to book flights tickets for a customer.