7/29/2021 Udacity Reviews



PROJECT SPECIFICATION

Hotel Reservation Application

Object-Oriented Programming

CRITERIA	MEETS SPECIFICATIONS
Create and use Java Interface classes to support polymorphism.	The hotel reservation application contains the IRoom interface , which is implemented by the Room class.
Subclass a parent class to support polymorphism.	The FreeRoom class extends the Room class.

CRITERIA	MEETS SPECIFICATIONS
Define class variables as private and provide accessor and mutator methods to get and manipulate class variables.	There is at least one example of the model classes (Room, Customer, Reservation`) using data encapsulation.
Override an object toString method to provide better description of the object.	There is at least one example of the model classes (Room, Customer, Reservation) overriding the toString method.
Provide at least one example of overriding the hashcode and equals method in a	There is at least one example of the model classes (Room, Customer, Reservation) overriding the equals and hashcode methods.

data model class.	
CRITERIA	MEETS SPECIFICATIONS
Use variable access	The application contains at least one example of using each of the following
Use variable access modifiers (such as public, private and final) to modify access.	The application contains at least one example of using each of the following access modifiers: 'public', 'private' and 'final'.

Processing and Storing Data

CRITERIA	MEETS SPECIFICATIONS
Store and process data for an application in a	Collections are used to store data for:
Collection.	RoomCustomer
	Reservation
	The collection type chosen for rooms ensures that two rooms cannot be booked

CRITERIA	at the same time. MEETS SPECIFICATIONS
Use a for loop or while loop to iterate over and	The ReservationService contains for or while loops that are used to iterate over and process data in order to do the following:
process data sets.	 Search for available rooms Search for recommended rooms
Use the static keyword to create singleton objects.	All of the service classes use static references to create singleton objects.
Use method access modifiers to modify method access.	The ReservationService contains at least one example of using each of the following method access modifiers:
	publicprivatedefault

CRITERIA Core Java Concepts	MEETS SPECIFICATIONS
CRITERIA	MEETS SPECIFICATIONS
Use Regular Expressions to validate String input.	The Customer class should contain at least one example of validating a String to ensure that it has valid email address syntax.
Create Enumeration classes.	The application contains the enumeration class RoomType.
Use Date and Calendar objects to store and process dates.	The Reservation class uses Date objects for check-in date and check-out date.
Use Exceptions, try and catch blocks to handle error flow.	The application contains at least one example of using <code>Exceptions</code> to validate input and <code>try</code> and <code>catch</code> blocks to handle error flow without crashing the application.

CRITERIA	MEETS SPECIFICATIONS
Use Java types to store and process data	The application uses different Java types (String, Double and Dates) to store data on objects.
Use a switch statement to	The application UI uses a switch statement to handle the user input flow.
process user input	

Suggestions to Make Your Project Stand Out!

- 1. Customize the find-a-room method to search for paid rooms or free rooms.
- 2. Provide a menu option from the Admin menu to populate the system with test data (Customers, Rooms and Reservations).
- 3. Allow the users to input how many days out the room recommendation should search if there are no available rooms.