Project: Reservation Hotel App

Team: Database Design 44

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Description:

The database is designed for hotel reservation app which can provide the reviews after using hotel (simply, think about hotels.com or expedia.com etc). The UML chart for the database is enclosed in the same zip file.

User Data Model:

In user data model, we called customers who use this app. The customer database has the customer Id for primary key. In customers, it saves the individual information such as first name(string), last name(string), username(string), password(string), email(string), date of birth(date), and information for benefits depending on the customer grade such as customer grade(string) and mileage(int). The customer grade is foreign key from the database customer grade.

Domain Object Data Model:

My domain is travel but little bit different from an example given by professor. I don’t focus on flight, only focusing on the hotel reservation. Therefore, my domain object is hotels and reservations. There are reviews and rooms from hotel but the main two domain objects are hotels and reservations.

Relationships:

User to domain object relationship:

Customers and hotels relationship is many to many. Customers and reservations relationship is one to many.

Domain object to domain object relationship:

Hotels and rooms relationship is composition and one to many. Rooms and reservations relationship is one to many.

In addition, Customer grade and customers relationship is one to many. Reviews and customers relationship is many to one. Reviews and hotels relationship is many to one.

Portable Enumeration:

Room grade have 3 types which are standard, superior, and deluxe as the normal hotel room.

User Interface Requirements.

* Customers List: Display a list of customers for this apps (Needs for administer)
* Customers Editor: Customer can change their information themselves, or for administer side, need to change mileage and customer grade.
* Reviews List: Display a list of reviews for the hotels to show the customer can see this
* Reviews Editor: Users can CRUD the reviews
* Hotels List: Display a list of hotels to reserve
* Hotels Editor: Administer can CRUD the hotel information
* Rooms List: Display a list of rooms by hotels to reserve
* Rooms Editor: Administer can CRUD the rooms information
* Reservation List: Display a list of reservation for users to check the reservation
* Reservation Editor: Users can CRUD the reservation
* Customer Grade List: Display a list of customer grade to show the information of benefit to users
* Customer Grade Editor: Administer can CRUD the customer grade and bonus percentage

The first thing to do for user interface is making kind of login page. After that customer login, should show the list of hotel and if customer navigate the hotel, customer can see either reviews or rooms list to reserve. After reservation customer should see the reservation list to check their reservations. Each part, should navigate the editor page if customer click the specific part, to do CRUD if customer want. For example, if customer click the specific reservation in the reservation list, it should navigate to reservation editor page and provide CRUD for customers.

TODO:

I might need to think about the administer (another type of user) for this app who can enroll the hotel and rooms for customer. However, not sure I should think about administer side or not right now.