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CS-255-T2609 System Analysis and Design

4-2 Assignment: Evaluate an Object Model

1. **Interpret the object model** for the new online storefront by responding to the following prompts:
   * What are the different functions of the online storefront? How are they represented in this type of model?

The different function of the online storefront are, addCartItem,

updateQuantity, viewCartDetails, checkout, register, login, upadteProfile, verifyLogin, updateCatalog, placeOrder, updateShippingInfo, and calPrice. Based on the UML diagram these functions are represented as Private and Public functions.

* + What are the different classes of “users” represented by this object model? What are the associations between these classes?

There are only two users. The users are represented by Customer and the Administrator. Both of these classes inherit from user class.

* + How would the objects “use” their respective variables and functions?

All the objects user their respective variables to store/use the data in some type of way. For example the Shopping Cart object has a few variables such as cartID, productID, quantity, dateAdded, it also has a few functions such as addCartItem, updateQuantity, viewCartDetails and checkout. Taking the previous information in consideration we can see that or shopping cart will be using the variables and the functions to manage the customer inventory in by adding/updating new items.

* + Does this object model capture all of Hamp Crafts’ desired functionality? Why or why not?

Altough most of the functionality is cover I did not see a function to send the notification once the transaction is completed.

* + The above diagram uses a solid diamond shape to represent a form of aggregation. What type of aggregation does this represent? What does it imply about the relationship between the classes? Why is a solid diamond the appropriate choice here.

In a UML Diagram a solid diamond shape represents composition. In this case each customer will have a shopping cart/order and each order will have it’s details and the shipment information.

1. Finally, think through the two different models you’ve explored for Hamp Crafts’ systems: a process model and an object model. Then **compare these models** by responding to the following prompts:
   * How well do you think a process model describes the system? What information does it make easier to understand? What aspects of the system are more difficult to understand or are not represented?

The process model simply describes the barebones of the system. It provides a very basic guideline of what is needed to create and operate the system. The process models help to have a visualization of how we can tackle the solution for the customer. The aspects of the system that are more difficult to understand are to complex portion of how something will be achieved.

* + How well do you think an object model describes the system? What information does it make easier to understand? What aspects of the system are more difficult to understand or are not represented?

The object model describes more in detail of how/what is needed to create the system. It helps us understand all the variables and functions/actions that will be taken in order to accomplish the requirements from the customer. Although the object model is more in detail, there are still incognitos of the implementations of said functions/actions.