4-2 Assignment: Evaluate an Object Model

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CS-255

* **What are the different functions of the online storefront? How are they represented in this type of model?**

The functions of the online storefront begin with the customer creating an account with the business, being able to sign in, add items to a virtual cart, submit order with shipping information and viewing the order details. There is also administrator access to help provide support to the customer. Each of these functions is represented by an object in the uml diagram.

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

There are two different classes of “users” represented. They are the Customer and the Administrator. They have a generalization association in that Customer and Administrator are specific classes that feed into the more general User class.

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

Each class describes what an object knows and what an object does. The structure of each object and the variables the object has are represented in the upper box while the action these objects take are represented in the lower box.

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

The object model does not capture all of Hamp Crafts’ desired functionality. Hamp Crafts requested administrator alerts and customers to be able to view their order status. While the structure makes these actions possible, they are not actually written into the uml diagram.

* **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?**

The solid diamond shape represents composition aggregation. This is a relationship where the child cannot exist without the parent. In this case, Shipping Info and Order Details cannot exist without an order. Shopping Cart and Order cannot exist with a Customer.

* **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 gives a high-level view of the system. It clearly defines relationships and dependencies between classes. It does not get into detail on how these actions are completed or what the user experience will be.