Evaluate an Object Model

(4-2 assignment)

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

The customer is able to create an account with their shipping, billing, and contact information. It allows the customer to pay with a debit or credit card. It will be connected to an established credit card vendor service of the clients choosing to receive customer payments. Once the customer finishes their transaction it will send them a notification with the information for their completed order. Hamp Crafts will also receive a notification. Customers are able to check the status of their order through their account. There will also be an administrative backend for customer support, updates to customer information, and the website. They are represented as separate functions with their function name in the code to keep consistency and to ensure that everybody knows what does what.

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

The users in this model are the customer and the administrator. The administrators would be the team building it and Hamp Crafts. The client is able to track the customers information and keep an eye on everything that is going on in their site and the customer is able to contact the administrators by means of customer support.

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

The objects would use the variables and functions by the team making sure that in the code they have everything connected the way it is displayed in the model and using the same function names. As long as they are following this model everything “should” work the way it is supposed to.

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

I do see a few things missing in the model. I don’t see the information that links the credit card vendors to the program, the notification for the customer, an alert for the admins, or the customer support portions of the program. These would need to be integrated before starting on the project or there is a possibility that these parts will be missed and that means an incomplete job and could cause us to potentially lose the client and worse yet cause the client to not have everything they paid for.

* 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 represents composition which is a stronger form of aggregation. In other words, it is representing that the sub-object is aggregated to only that main object. This is the appropriate choice seeing as you only need these parts to be connected and it cuts back the amount of data being used at one time which reduces run times.

* 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?

I think process models describe the system very well. It shows the process in which the program will be complete. It can be used to show all of the tasks that need to be complete and can be used as a schedule for when these tasks need to be done by. It can also be used to assign these tasks to different members of the team. The only thing about process models is it doesn’t show the detailed information about what functions will be used to complete the project.

* 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?

I think the object model describes the system very well. The object model is best used to show the functions of the program, how they all fit together, and ensure that all of the parts are included in the project. The only thing it doesn’t show is the timeline and schedule of when all of the separate tasks need to be completed by.