

CS 255 Module Four Assignment Guidelines and Rubric

Overview

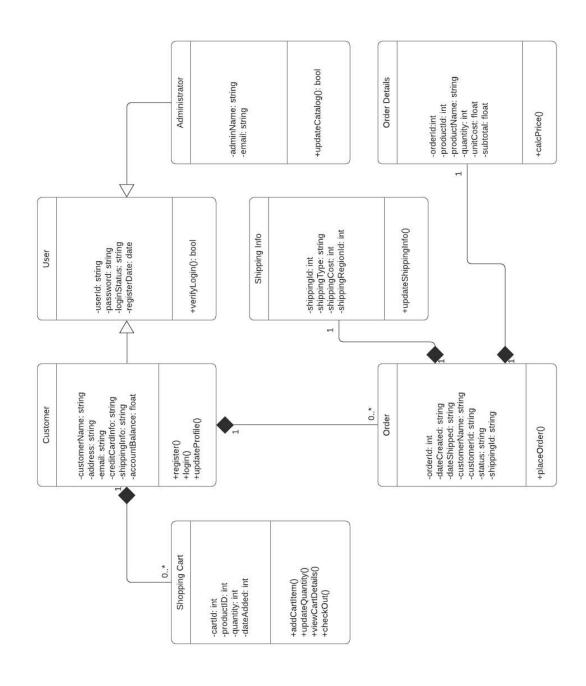
Object modeling is an important part of system analysis and design. Since object-oriented languages such as Java and C++ have become more common, systems analysts also need to be able approach, the focus is on capturing the structure and behavior of information systems into small modules that combine both data and process. The goal for using object-oriented design to design a system from an object-oriented perspective. Object modeling involves thinking about the objects and classes that will be a part of the final system. In an object-oriented (OOD) is to improve the quality and productivity of system analysis and design by making it more usable.

be asked to interpret the diagram and evaluate how well it fits the scenario. Your work on this assignment will help support your work on the module application short paper for Project One. In this assignment, you are asked to evaluate an object model for the same scenario you explored in Module Three. You will be given an object model for the new online storefront. You will

Prompt

Hamp Crafts is a family-owned craft store that has been in business for decades. Its current operations are limited to its physical (brick-and-mortar) storefront. Recently, the owners have current processes. In this assignment, you will review an object model, specifically a UML class diagram for the new online store. You will interpret the diagram and reflect on how well it determined that one of the best ways to gain additional revenue is through online sales. You have reassured Hamp Crafts' owners that adding in an online storefront will work with their meets Hamp Crafts' needs 1. First, review Hamp Crafts' needs for their online storefront. Then review the UML class diagram for the new online storefront. A version with alternative text is also available: Module Four Online Shopping Cart Object Diagram With Alternative Text

complete, the customer should receive a notification based on the information in their personal profile regarding order status and confirmation. On the administrative side of the online storefront, Hamp Crafts should receive an alert of the transaction. Customers should be able to check the status of their order any time online from their personal account profile under Hamp Crafts would like customers to be able to create an account with their shipping, billing, and contact information. For customer orders, Hamp Crafts would like to accept credit and debit cards for transactions. Hamp Crafts plans on using an established credit card vendor service (e.g., Square, Shopify) to receive customer payments. Once a transaction is order history. The business owners also need an administrative back end for customer support and updates to customer information and the website.



- 2. 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?
- What are the different classes of "users" represented by this object model? What are the associations between these classes?
- How would the objects "use" their respective variables and functions?
- Does this object model capture all of Hamp Crafts' desired functionality? Why or why not?
- 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?
- 3. 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?
- 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?

What to Submit

Submit your responses in a Word document. Be sure to include each prompt along with your response. You were not required to do research for this assignment, but if you did use sources, be sure to cite them in APA format.

Module Four Assignment Rubric

Criteria	Exceeds Expectations (100%)	Meets Expectations (85%)	Partially Meets Expectations (55%)	Does Not Meet Expectations (0%)	Value
Interpretation of Object Model for Online Storefront	Exceeds expectations in an exceptionally clear, insightful, sophisticated, or creative manner	Interprets object model by identifying the different users and processes and determining whether all desired functionality is met	Shows progress toward meeting expectations, but with errors or omissions	Does not attempt criterion	09
Comparison Between Process and Object Models	Exceeds expectations in an exceptionally clear, insightful, sophisticated, or creative manner	Compares process and object models by evaluating how well each model describes the system	Shows progress toward meeting expectations, but with errors or omissions	Does not attempt criterion	30

Criteria	Exceeds Expectations (100%)	Meets Expectations (85%)	Partially Meets Expectations (55%)	Does Not Meet Expectations (0%)	Value
Clear Communication	Exceeds expectations with an intentional use of language that promotes a thorough understanding	Consistently and effectively communicates in an organized way to a specific audience	Shows progress toward meeting expectations, but communication is inconsistent or ineffective in a way that negatively impacts understanding	Shows no evidence of consistent, effective, or organized communication	10
				Total:	100%