

CSCI 4050/ 6050 Software Engineering

Term Project- Deliverable # 4

Requirements:

Use a UML modeling tool, of your choice, to develop the domain class diagram for the Online Bookstore system. *Links for some free tools are available in the project module on eLC.*

The class diagram should include all entity classes, dependencies, associations, and multiplicities. Explicitly show composition and aggregation, if any.

For each class define the attributes and at least two operations that you have identified based on use case analysis. You may not be able to define the exact method signatures; we will specify functionalities during Object Design Phase.

Your class diagram should, at least, model the following: -

- 1- Users are of two types admins and customers.
- 2- The system will store information about registered users (customers), including user ID, first name, last name, email and password. System admins will be identified by their first name, last name, user id, and password.
- 3- The system must store the shopping cart. Each customer has one shopping cart.
- 4- The system will allow the customer to store up to 3 payment cards. Card information includes: Card number, type, and expiration date.
- 5- The system will allow customers to optionally store their address information: Street, city, state, and zip code.
- 6- A customer has one of three states: Active, inactive, or suspended.
- 7- The system will store information about books (see project document for details).
- 8- The system should store promotions information.
- 9- The system should store order information.
- 10- Customers can apply only one promotion to an order.
- 11- An order should be paid by exactly one payment card.
- 12- Admins can manage books, promotions, and users.
- 13- Include at least one enumeration.

Refer to the project document and the use case document. Use domain knowledge as well.

We will not grade hand-drawn diagrams or diagrams drawn using Microsoft word or power point.

Save the diagram in a pdf file and include the cover page, the name of the document does must follow the naming format (Example, Team C4-Deliverable 4). [-5 points if missing any).