**CLC MILESTONE 1:**

**Domain Write-Up**

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This project will focus on creating an application to manage an E-Commerce bookstore. Users will be able to sign up and login to the store. They can then browse and search through the library of eBooks that are available for purchase. As the user finds books that they would like to purchase, they can be added to the personal cart that is tied to their login. Once the user is done searching through the library and adding books, they can go to checkout to purchase all the books in their cart.

Application Features

Some of the standout features of the application will be an initial welcome page that greets the user when they come into the store. This will contain links for the user to either sign up or login to the application before they can search through the library. Once the user is signed in, they can view the available list of eBooks and filter them through several different search criteria. This application will also implement an item cart system that will track the user’s selected books so that they can purchase them all at once. When purchasing, the user will navigate through verifying their information and the sale will then be allowed to go through. There will also be a user account page which lets the user change their personal information such as username, email, and password. When changing these fields the application will check to make sure that the new information is unique when necessary, and valid for each particular instance.

Framework/Presentation/Database language

Based on the CLC project guidelines, the project will be created with the Spring framework and deployed locally on an Apache Tomcat 8.5 server. The code structure will use N-Layer design techniques and be separated into presentation, business, and persistence services. Per the design guidelines, the visual presentation will be made using the Bootstrap Framework and typical best practices should be used when designing the interface.