Offering books for sale and selling them are integral components of any bookstore operation. The objective of BECS (book e-commerce system) is to automate this process. BECS will be used by a manager to enter new items for sale, review current inventory, adjust prices, and enter information about special promotions. BECS will be used by customers to browse current inventory, browse items offered at special prices, and purchase books online (may use a coupon). BECS will help the manager re-order books by notifying her/him when there are only a few books left of any given title. BECS will help the customers by sending email coupons to customers who have elected to create an account and to receive email promotions.

For this assignment, create the following UML diagrams. Be sure to include prose descriptions for each diagram.

1. Create a use case diagram for the system. (Be sure to specify the system boundary, the actors, and any relationships that exist between the use cases.)

2. Create a class diagram for the BECS system. Create a data dictionary entry for each class, including descriptions of attributes and methods.

3. Dynamic Modeling of BECS:
   a) Create 3 sequence diagrams based on 3 use cases of the system. (Include annotations in the left column.)
   b) Create a state diagram that supports the above sequence diagrams.
   c) Create an activity diagram for BECS.