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Assignment 1

**1. Investigate bookstore systems, with particular focus on membership-based applications as outlined in the problem statement of the vision document. In slide 16 of B1.Inception.pdf, one subject of the vision document is stakeholders. Define stakeholder in general, and give in particular an additional stakeholder that is not in the provided list for the specific application.**

A *stakeholder* refers to any person or group who will be affected by the system. Stakeholders include end-users who interact with the system and everyone else in an organisation that may be affected by its installation. Other stakeholders may be engineers or IT staff who maintain the system.

In addition to the stakeholders listed on slide 16, a marketing department would also be considered stakeholders. Their job would be to choose which books are promoted or are currently on sale. The marketing team would need a way to change books that show on the home page/promotion page. This must be taken into consideration when designing the system.

**2. What general advantages can be claimed by using a methodology, such the Unified Process.**

By using a methodology like the Unified Process, an individual or team of developers will have a very organized way of outlining their software project. The requirements and analysis phases of the Unified Process allow developers to understand the problem they are solving. This will align the developer's software design in the design and implementation phases with the goals of the stakeholders.

**3) Refer to the use case diagram of the bookstore system (slide 7, B3.UseCaseDiagram.pdf), and provide a brief description in the online submission box for the "Place Order" use case.**

A customer will login to the bookstore system using the "login" button. The customer will view the books available using the "Navigate Catalog" button. The customer can then choose a book for purchasing and click "Add Book" to add the book to their booklist. The customer can either keep adding books to their booklist or click "Place Order" to place their order in the bookstore system. The customer will be asked for the shipment and payment information if the database does not contain their information. The payment will then be verified if the order is successful.

4. Refer to the example of "Login" (slide 15, B2.UseCases.pdf), and write a full dressed description of the "Add Book" use case.

Use Case		Add Book
Brief Description		This use case allows a Customer to add a Book to their Booklist
Actors		Customer
Preconditions		Customer clicks "Navigate Catalog"
Main flow	A1	This use case begins when the customer is show the book catalog
	A2	The customer scrolls through the catalog
	A3	The customer finds a book they want
	A4	The customer clicks "Add Book"
	A5	The Book is added to the Booklist
	A6	A success message is displayed if successful
Alternative flows	A7	A message is displayed if Book is already in Booklist
Post-conditions		The message disappears
		Catalog is displayed to customer
Open Issues		Customer does not have to be logged in to create a Booklist. This means they cannot order the books in their Booklist.