Laboratory session THREE
SIT 116/117
Wednesday October 25, 2006

Domain Modeling II

School of Information Technologies
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OBJECTIVES
• Practice the domain modeling based on problem description.

PROBLEM DESCRIPTION
TheEyesHavelt.com Book Exchange is an e-business exchange – it does business entirely on the Internet. The company acts as a clearing house for both buyers and sellers of used books.

For a person to offer book for sale, she must register with TheEyeHavelt. The person must provide a current physical address and telephone number as well as a current email address.

A seller can list books on the system. The seller can choose to provide the following information about the book, its title, author, category, general condition, and the asking price. A seller may list as many books as desired. The system maintains an index of all registered books, so that buyers can use the search engine to locate books. The search engine allows searches by title, author, category and keyword.

People desiring to buy books come to the site and search for the books they want. When they decide to buy, they must register with TheEyeHavelt with a credit card to pay for the books.

When a request to purchase is made, along with the payment, TheEyesHavelt.com sends an email notice to the seller of the book. It also mark the book as sold. The system maintains the order as open until it receives notice that the books have been shipped. Once the seller receives notice that a listed book has been sold, she must notify the buyer, via email within 48 hours, that the purchase is noted. Shipment of the order must be made within 24 hours after the seller sends the notification e-mail. The seller sends a notification to both the buyer and TheEyesHavelt.com when the shipment is made.

After receiving notice of shipment, TheEyesHavelt.com maintains the order in a shipped status. At the end of each month, a check is mailed to each seller for all book orders that have been in shipped status for 30 days. The 30-day wait is to allow the buyer time to notify TheEyesHavelt.com if the shipment does not arrive or if the book is not in the condition it was advertised.
The buyers can, if they desire, enter a service code for the seller. The service code indicates how well the seller is servicing book purchases. Some sellers are very active and use the EyesHavelt.com as a major outlet for selling books. So a service code is an important indicator to potential buyers.

TASKS
Based on the short description of the case, develop a domain model showing major domain concepts, their attributes and associations between concepts.

ACTIVITIES
A. Get into small groups of about 3 people.
B. Use the category-list and noun phrase identification method to find the conceptual classes
C. Draw those conceptual classes in UML class diagram.
D. Add possible attributes to the classes
E. Add “need to remember” relationships as association in the UML class diagram. Properly Name each association as well.
F. Add possible generalization and association class as well.