Sequence Diagram Problems : 5 Problems

1. Draw a sequence diagram for the following scenario, the library user accesses the catalogue to see whether the item required is available electronically; if it is, the user requests the electronic issue of that item. For copyright reasons, this must be licensed so there is a transaction between the item and the user where the license is agreed. The item to be issued is then sent to a network server object for compression before being sent to the library user.

2. Construct a high level sequence diagram for online bookshop. Online customer can search book catalog, view description of a selected book, add book to shopping cart, do checkout.

3. The sequence of actions when a user wishes to withdraw cash from an automated teller machine (ATM). You should read a sequence diagram from top to bottom to see the order of the actions that take place. there are three basic sub -sequences: a. Validate car d: The user's card is validated by checking the card number and user's PIN. b. Handle request: The user s request is handled by the system. For a withdrawal, the database must be queried to check the user's balance and to debit the amount withdrawn. Notice the exception here if the requestor does not have enough money in their account. c. Complete transaction: The user's card is returned and, when it is removed, the cash and receipt are delivered.

4. Draw a Sequence diagram for the following scenario which shows interactions involved in using LIBSYS for downloading and printing an article. There are four objects of classes - Article, Form, Workspace and Printer--involved in this interaction. Essentially, a user request for an article triggers a request for a copyright form. Once the user has completed the form, the article is downloaded and sent to the printer. Once printing is complete, the article is deleted from the LIBSYS workspace.

5. Create a high level sequence diagram for online examination. Student gets a confirmation from the admin after registration. Admin prepares question paper and manages exam (for modification). Students give exam and can check their results.