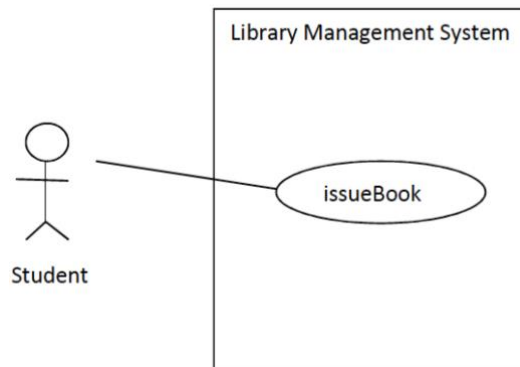


IT314: Software Engineering Exercise for Practice

Q.1. Consider the following piece of text:

“A library maintains multiple reading materials which include books, journals, and magazines. The books are issued to the registered students of the institute, for a specified period of time. The issued books are to be returned back to the library. Delayed returns are subjected to stipulated fines. The issue-return process is administered by one of the librarians through an authenticated Library Management System.”



Tools that can be used:
Dia / ArgoUML

An incomplete use case diagram for the system is given above. Develop the following documents

1. Complete the use case diagram for the above problem text along with use case documentation for “issueBook” use case.

Q.2. The following text describes the process for managing employee training requests in the WorkHard Company, Ltd.

1. The training process is initiated when the Training Manager receives a request for training from an employee.
2. The request for training specifies the employee's name, position and corporate extension number, as well a description (as detailed as possible) of the desired training.
3. Based on budget constraints and the employee's position and previous training history, the Training Manager approves or refuses the request, and informs the employee.
4. If the request is approved, the Training Manager selects a suitable course from an approved catalogue, and provides the employee with detailed course information and session dates.
5. The employee selects a session and informs the Training Manager, who contacts the training company and enrolls the employee in the course.
6. If the employee cannot attend an enrolled session, he/she must inform the Training Manager as soon as possible to cancel the inscription.
7. At the end of the training session, the employee must supply and attendance certificate (signed by the training company) and an evaluation of the course to the Training Manager

Your job is to prepare a functional model (i.e. use case specifications consisting of use cases and their documentation).