**Usecase diagram**

Exercise 1. Consider the Bookshop specified below.

The bookshop provides books to customers. Each book is described by title, edition, and year of publication, and is uniquely identified using the ISBN. Each customer is described by his or her name, phone and address. After logging in, a customer can shop for a book - the customer can shop by searching for the book title or authors and receiving a list of available versions of the book. Afterwards, the user either buys the book using a credit card or cancels the purchase. The bookshop owner can add new books (of possibly new titles) to its stock. The owners can also change information of current books or delete book from the system.

1. Draw a use case diagram for the system

2. Give a detailed description of each use case

Exercise 2.

A company wants to manage its human resources using a computer-based system. The system should allow only those who owns an account to access. In the company, there are 2 main roles including employee, and manager. The employee can either view or update his or her profile. Besides, the employee can see full information of his or her department including name of the department, total employee, office, address, phone number, website and the head of the department. The employee uses email or instant message to communicate with others.

The manager can do everything as an employee, moreover; he has more to do in the system. The manager manages the employee information so that he can view the list of employees, add new employee to the system, change employee information as well as delete an employee. The manager can also assign an employee to a department.

1. Draw a use case diagram for the system, you may add more functions than the requirements.
2. Choose 3 use cases to write use case specification

Use case specification template:

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| --- | --- |
| **Use case** | Use-case’s Name |
| **Description** | Describe the goal and context of this use case. |
| **Actors** | A person or a software/hardware system that interacts with your system to achieve the goal of this use case. |
| **Triggers** | Action made by users within the system to start the use case |
| **Pre-Conditions** | Describe the state the system is in before the first event in this use case. |
| **Post-Conditions** | Describe the state the system is in after all the events in this use case have taken place. |
| **Main Event Flow** | As you can see, this field contains the example from our previous post – i.e. the flow of events from preconditions to post conditions, when nothing goes wrong |
| **Alternative Event Flow** | Describe all the other scenarios for this use case but leads to success |
| **Extension points** | Describe exceptions / errors happened during performing use case, as well as steps that errors occurs |
| **Special Requirements** | Take note any extra requirements or non-functional requirements |