

MAWLANA BHASHANI SCIENCE AND TECHNOLOGY
UNIVERSITY



DEPARTMENT OF ICT

Lab Report No : 02

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Course Title : Software Engineering Lab

**Lab Report name : Use case diagram of Online Credit Fee
Payment System Project**

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Use case diagram :

To model a system, the most important aspect is to capture the dynamic behavior. Dynamic behavior means the behavior of the system when it is running/operating.

The use case diagram is dynamic in nature, there should be some internal or external factors for making the interaction.

These internal and external agents are known as actors. Use case diagrams consists of actors, use cases and their relationships. The diagram is used to model the system/subsystem of an application. A single use case diagram captures a particular functionality of a system.

Hence to model the entire system, a number of use case diagrams are used.

Purpose of use case diagram :

The purposes of use case diagrams can be said to be as follows –

- Used to gather the requirements of a system.
- Used to get an outside view of a system.
- Identify the external and internal factors influencing the system.
- Show the interaction among the requirements are actors.

How to Draw a Use Case Diagram :

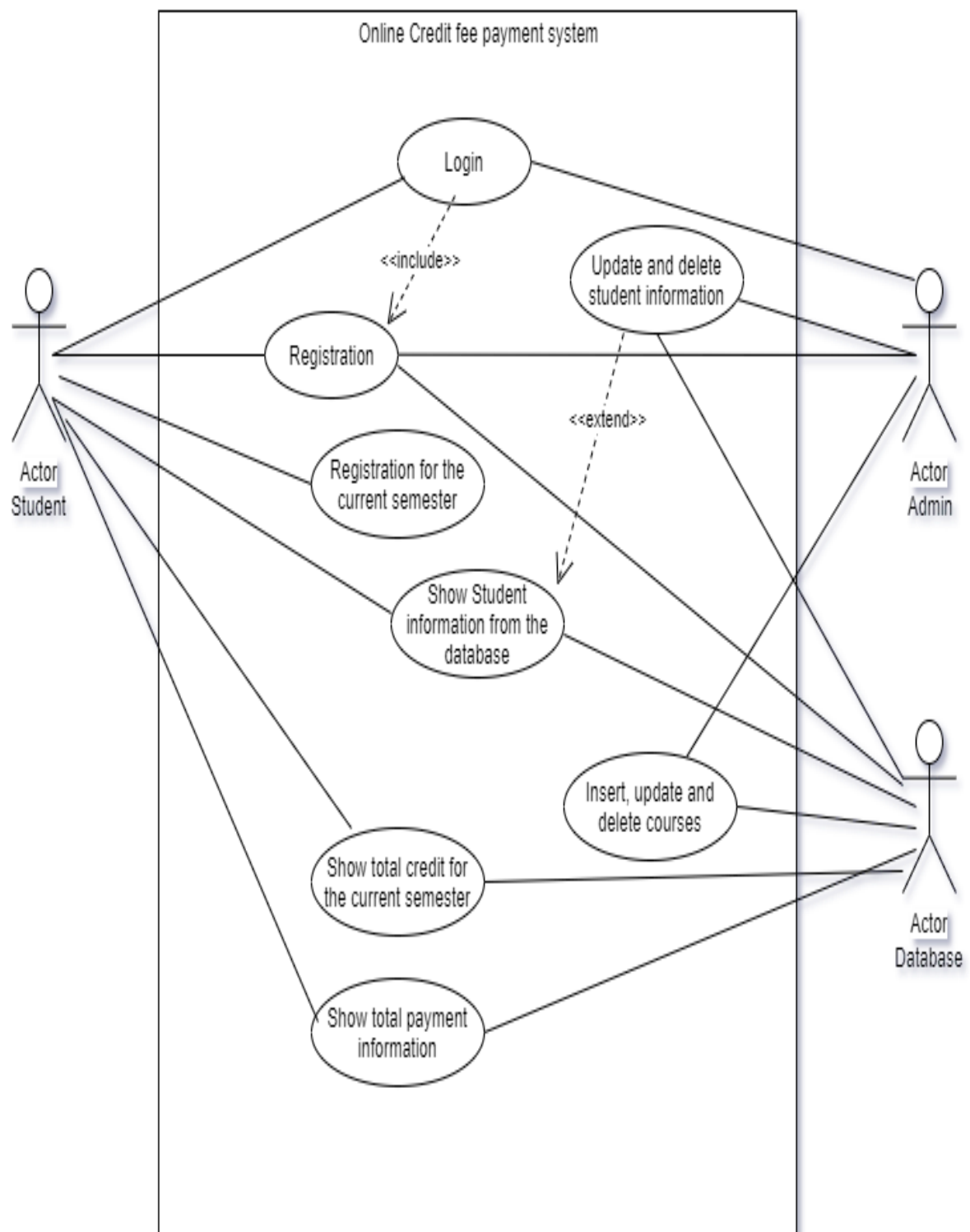
When we are planning to draw a use case diagram, we should have the following items identified.

- Functionalities to be represented as use case.
- Actors
- Relationships among the use cases and actors.

Actors can be a human user, some internal applications, or may be some external applications. Use case diagrams specify the events of a system and their flows. But use case diagram never describes how they are implemented.

According to the story, the use case diagram is shown below:

Use case diagram :



Conclusion :

From this lab, I learn about use case diagram and how to draw use case diagram. Use case diagrams will specify the events in a system and how those events flow, however, use case diagram does not describe how those events are implemented. When I draw the diagram, I face some problems. But I overcome these problems later through discussing with my group members.