

EXPERIMENT 3

AIM: Design Use Case Diagram of University Registration System.

DESCRIPTION:

Definitions

1. **Use Cases:** Use Cases are structured outline or templates for the description of user requirements, modelled in a structured language.
2. **Actor:** An actor is an external agent that lies outside the system model but interacts with it in some way.
3. **Use Case Diagram:** A Use Case diagram is a graphical representation which visually represents what happens when an actor interacts with the system

The purpose of a use case diagram is to capture the dynamic aspect of a system and is also used to:

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

Use case diagrams are considered for high level requirement analysis of a system. So when the requirements of a system are analysed the functionalities are captured in use cases.

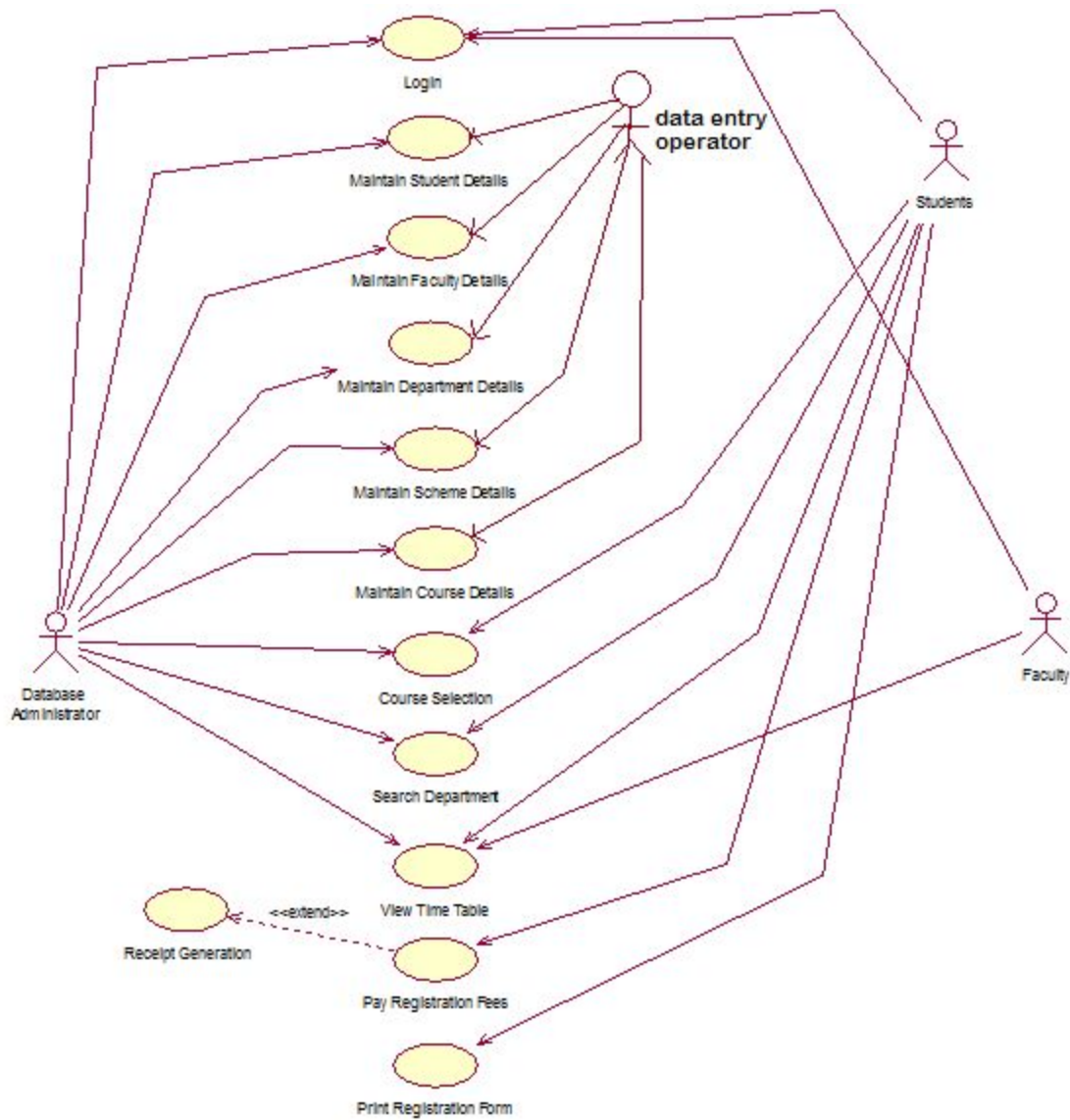
The actors can be human user, some internal applications or may be some external applications.

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

Use case diagrams are drawn to capture the functional requirements of a system.

Steps to be followed

- Identify all the different users of the system.
- Create a user profile for each category of users, including all the roles the users play that are relevant to the system. For each role, identify all the significant goals the users have that the system will support.
- Create a Use Case for each goal, following the Use Case template. Maintain the same level of abstraction throughout the Use Case. Steps in higher level use cases may be treated as goals for lower level (i.e. more detailed), sub-use cases.
- Structure the use cases. Avoid over-structuring, as this can make the use cases harder to follow.



Use Case Diagram for the given case study of University Registration System has been designed.

Discussions:

We learnt to make the Use Case Diagram of the “University Registration System” case study by identifying use cases, Actors and relationships between them. Learnt the use of ‘extend’ facility- how one use case extends from the other.

Conclusion:

Use Case Diagram is implemented for the given case study of University Registration system. Actors and their relationship with the use cases is known.