

Assignment -02

Roll no :- 43236

Title :- Prepare use case model

problem statement :-

- prepare use case model
- Identify major use cases
- Identify actors
- detail use case diagram using UML 2.0 notation

Relevant Theory :-

1) Use case diagrams:-

In UML, use-case diagrams model the behavior of a system and helps to capture the requirement of the system.

Use case diagrams describe the high level function and scope of the system. These diagrams also identify the interaction b/w the system and its actors.

2) creating Use-case diagrams:-

- Defining the boundaries of a system
- Specifying relationships in diagrams
- Extending the behavior of usecases.

The use-case diagram is composed of following model element:-

- Use cases
- Actors, etc.

3) Use cases:-

A use case describes a function that a system performs to achieve the user goal. A use case must yield an observable result that is value to the user of the system.

You can use cases for the following purposes:-

- Determine the requirements of the system
- Describe what system should do
- provide a basis for testing to ensure that the system works as intended.

4) Actors:-

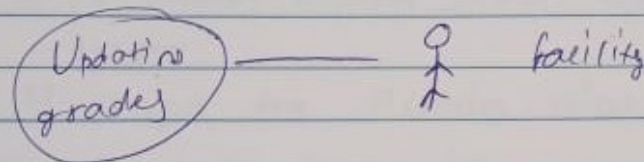
An actor represents a role of user that interacts with the system that you are modelling. The actor can be human that you are modelling. The actor can be a human user, an organization, a machine or another external system.

5) Subsystems:-

In UML models, subsystem is the type of stereotype component that represents independent behavioural units in a system. and use-case diagrams to represent large scale component in the system that you are modelling.

6) Relationships b/w Use cases and Actors:-

Actors may be connected to use cases by association, indicating that the actor and the use-case communicate with another using message.



7) Include Relationships:-

In UML modelling an include relationship is a relationship in which one use case include the functions of another use case. The include relationship supports the reuse of functionality in a use-case model.

conclusion:-

Thus we have identified all the major use cases of our project and drawn detailed use case diagram for the same.