A.I.S.S.M.S
INSTITUTE OF INFORMATION TECHNOLOGY
Kennedy Road, Near R.T.O., Pune - 411 001.

* Laboratory Practice - IV (OOMD) - Experiment Number - 3.

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Use-case Diagram.

Problem Definition :-

Draw one or more Use-case diagrams for capturing and representing requirements of the system. Use case diagrams must include template showing description and steps of the Use Case for various scenarios.

Prerequisite :-

Software Analysis Skills, Object Orientation and its development, Software Development life cycle.

Software and Hardware Requirements :-

Visual Paradigm 17.0 / Star UML
Windows 7 or above version or Linux
RAM - 4 Gb and more.
ROM - 128 Gb and more.

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Learning Objectives:-

1. To learn and draw use-case diagram.
2. Steps of the Use Case for various scenarios.

Theory:-

Use Case diagram represents the system's functionality connecting all four perspectives, i.e. design, implementation, process, and deployment. For every single functionality representation, a fresh diagram is used. Hence multiple use case diagrams represent the complete system.

The main purpose is to present all functional requirements of the system diagrammatically to all the users who can access the functionality. The presentation is from the perspective of all users giving a high-level design and basic flow of events of the systems.

It also presents the functionality exceptions, pre-condition, and post-condition. The diagrams do not give the details of deployment, the trigger of the event, etc.

Draw Use Case Diagram: Step-by-Step Guideline

Step 1: Draw the System Boundary and name the system.
(Draw System Boundary)

Step 2: Draw the actors by referring to the column 'Allowed actor'.
(Draw the Actors)

Step 3: Draw the use case in scope of the system

Step 4: Add the Include and extension use cases

Step 5: Establish the link between the actors and the use cases.

Here is a use case diagram example for ATM. An automated teller machine (ATM) is banking subsystem that provides bank customers with access to financial transactions in a public space without the need for a cashier, clerk or bank teller.

Customer uses bank ATM to check balances of his/her bank account, deposit funds, withdraw cash and/or transfer funds. ATM Technician provides maintenance and repairs.

Conclusion:-

In this way, we learned how to draw a state and use case diagram with an example of ATM system.