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SE LAB

Assignment 4

Online Library Management System

To develop Use Case Diagram for the target System.

S.E Lab Assignment - 04

4. To develop Use Case Diagram For the target system

* Online Library Management System

1) Use Case Diagram :

The use case diagram illustrates the example action that can be taken by the library management system. It describes the function of the project by employing use cases, actors & the connection between them.

The UML Use Case Diagram is important for a number of reasons, one of which is that it provides assistance to organization & developer in the area of system administration.

• Notations used in Use Case Diagram

1) Use Case

Use Case

A Use Case represents a user goal that can be achieved by accessing the system or software application.

5) Include

«include»

An include relationship specifies how the behaviour for the inclusion use case is inserted into the behaviour defined for the base use case.

6) Extend:

«Extend»

An extend relationship specifies how the behaviour of the extension use case can be inserted into the behaviour defined for the base use case.

7) Dependency:

A dependency relationship represents that a model element relies on another model element for specification or implementation.

8) Generalization:

A generalization relationship is used to represent inheritance relationship between model elements of some type.

9) Realization

A realization is a relationship between a specification & its implementation.

2) Association :

Actor & Use case associate to indicate that the actor participates in the use case. Therefore, an association corresponds to a sequence of action between the actor & use case in achieving use case.

3) Actor



Actors are the entities that interact with a system. Although in most cases actors are used to represent the user of system, actors can be actually be anything that needs to exchange information with the system.

4) System :

System

The scope of system can be represented by a system boundary (rectangle).

The use case of the system are placed inside the system shape, while the actor who interact with the system are put outside the system.

10) Collaboration

Collaboration:

Conclusion:

The UML Use Case diagram is one of the methodologies that helps to contribute to the creation of online library management system. It is useful for developers to have a better understanding of the possible input that the project should do & process.

Case Diagram :

