

EXPERIMENT (3): Sketch UML Use case Diagram for the project.

TOPIC: Online Bookstore System

Aim: To sketch UML Use case Diagram for the project.

Theory:

❖ Use Case diagram –

- A use case diagram is used to represent the dynamic behaviour of a system.
- It encapsulates the system's functionality by incorporating use cases, actors, and their relationships.
- It models the tasks, services, and functions required by a system/subsystem of an application.
- It depicts the high-level functionality of a system and also tells how the user handles a system.

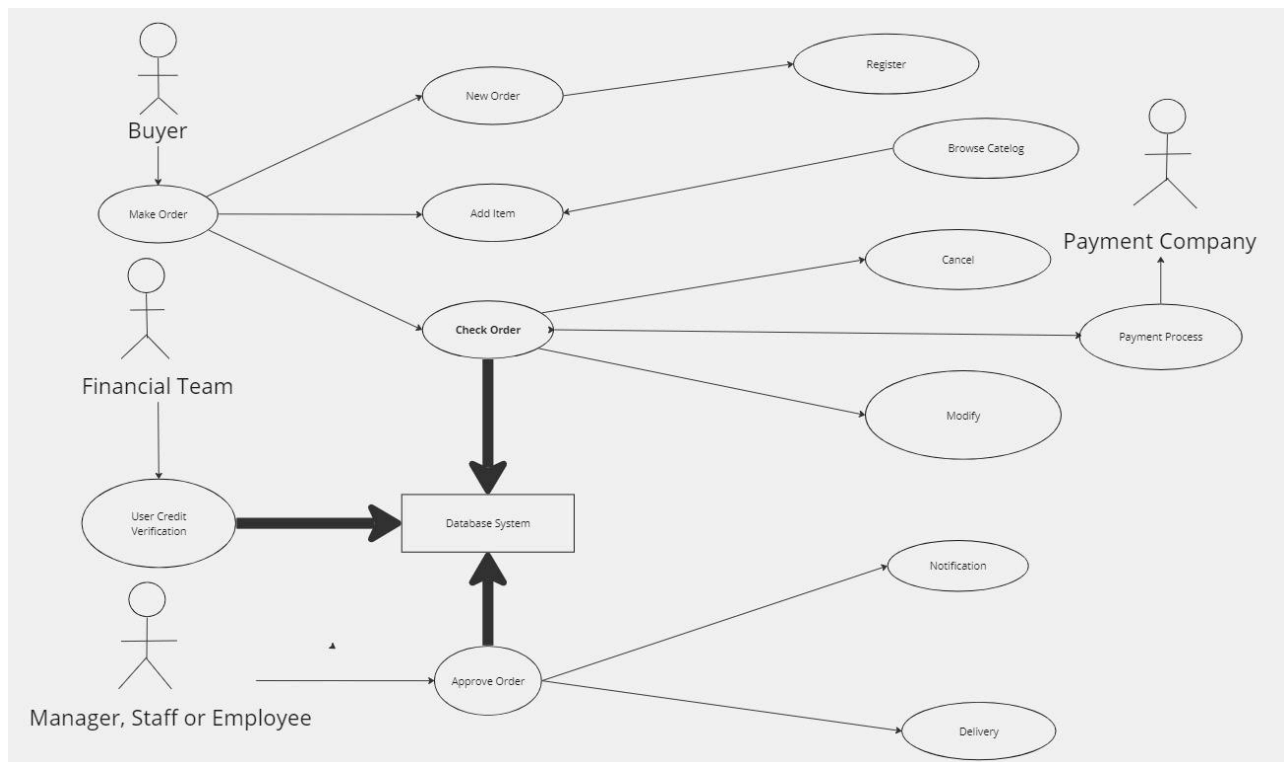
❖ Purpose of Use Case Diagrams –

- 1) It gathers the system's needs.
- 2) It depicts the external view of the system.
- 3) It recognizes the internal as well as external factors that influence the system.
- 4) It represents the interaction between the actors.

Diagram:-In this use case diagram:

- **Actors:**
 - **Customer:** A registered user who browses, searches, adds books to the cart, and proceeds with the checkout process.
 - **Admin:** An administrator who manages the inventory, views sales statistics, and manages customer accounts and orders.
 - **Guest:** A user who can browse books without logging in.
- **Use Cases:**
 - **Browse Books:** Users can browse through the available books.
 - **Search Books:** Users can search for specific books.
 - **Add to Cart:** Users can add books to their shopping cart.
 - **Checkout Process:** Users can proceed with the checkout process to purchase books.
 - **Manage Inventory:** Admin can add, edit, and delete books from the inventory.
 - **View Sales Statistics:** Admin can view sales statistics and generate reports.

- Manage Customer Accounts: Admin can perform CRUD operations (Create, Read, Update, Delete) on customer accounts.
- Manage Orders: Admin can process orders and view order history.



Conclusion: Thus, the students were able to understand as well as design UML use case diagram for their following topic.

For Faculty Use

Correction Parameters	Formative Assessment [40%]	Timely completion of Practical [40%]	Attendance / Learning Attitude [20%]	
Marks Obtained				