EXPERIMENT 7

Draw a UML diagram for **online purchasing system**. Provide top level use cases for a web customer making purchases online. Web customer actor uses some web site to make purchases online. Top level use cases are View Items, **Make Purchase and Client Register.**

AIM:

To design a **Use Case Diagram** for an **Online Purchasing System** that models the interactions between a **Web Customer** and the system for viewing items, making purchases, and registering as a client.

PROCEDURE:

1. Identify the Main Actor

- **Web Customer**: The person using the website to browse and purchase products.

2. Define Top-Level Use Cases

- **View Items**: The customer can browse available products on the website.
- **Make Purchase**: The customer selects an item, adds it to the cart, and completes the purchase process.
- **Client Register**: A new customer can register on the website to create an account.

3. Define System Actions

- **View Items**:
  - o Displays available products.
  - o Filters and sorts products.
- **Make Purchase**:
  - o Adds items to the shopping cart.
  - o Proceeds to checkout.
  - o Completes the payment process.
- **Client Register**:
  - o Creates a new user account.
  - o Stores customer details in the system.
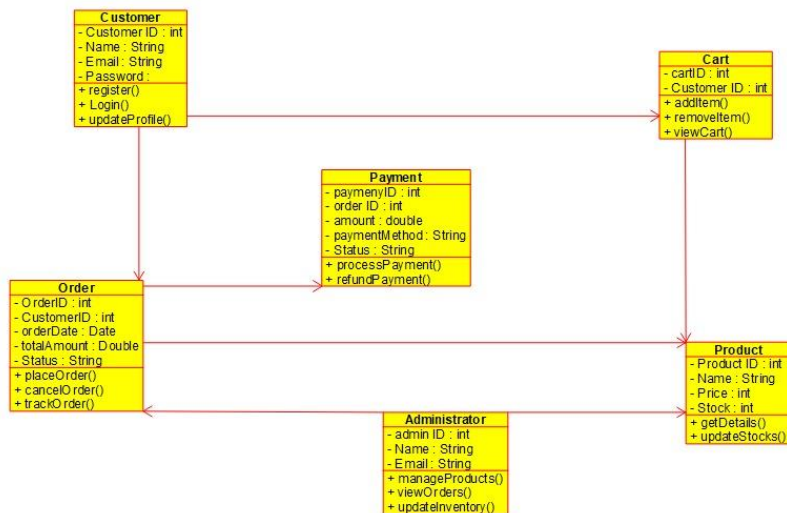
4. Draw the Use Case Diagram

- **Actors**: Represent **Web Customer** as a stick figure.
- **Use Cases**: Represent the functionalities (**View Items, Make Purchase, Client Register**) as ovals.
- **Associations**: Draw lines connecting the **Web Customer** to each use case.
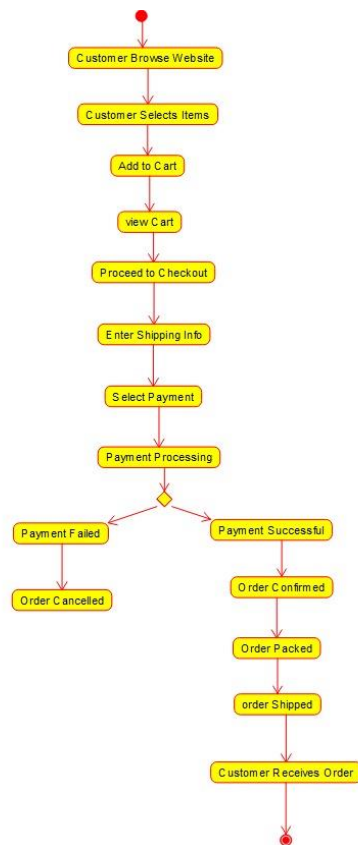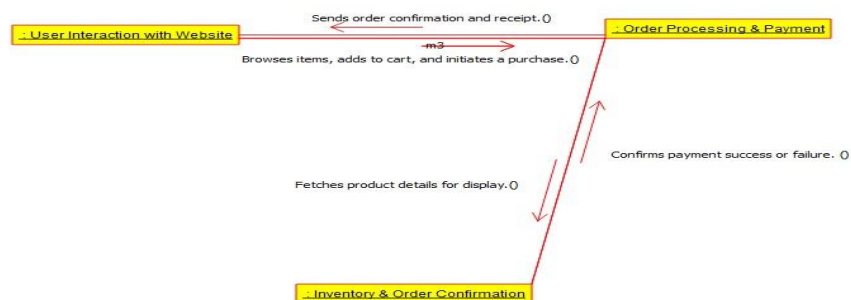
OUTPUT:

USECASE DIAGRAM

CLASS DIAGRAM

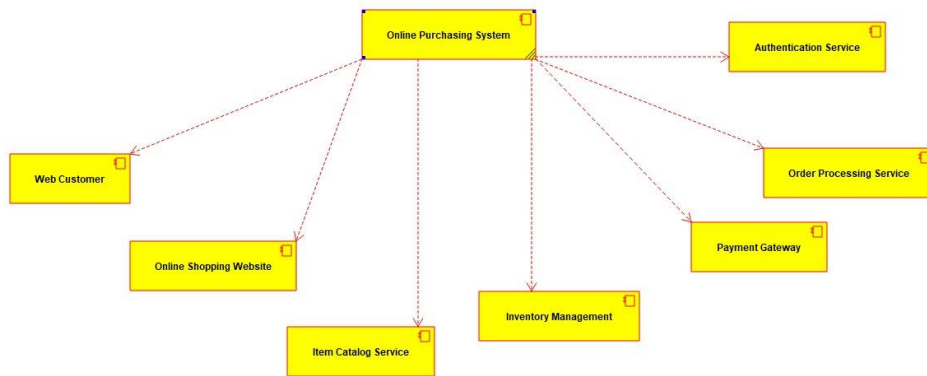## ACTIVITY DIAGRAM:

SEQUENCE DIAGRAM:
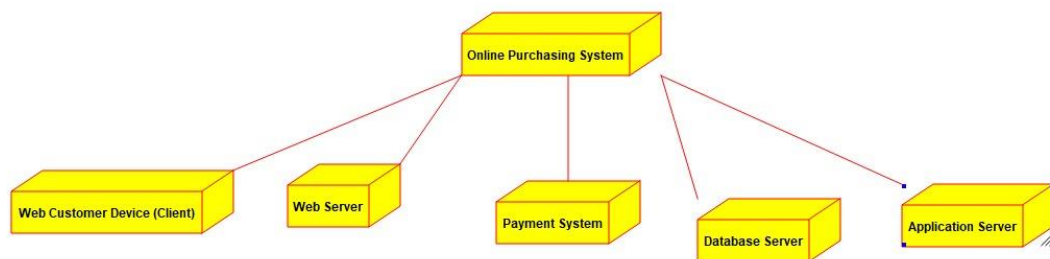

COLLABORATION DIAGRAM:
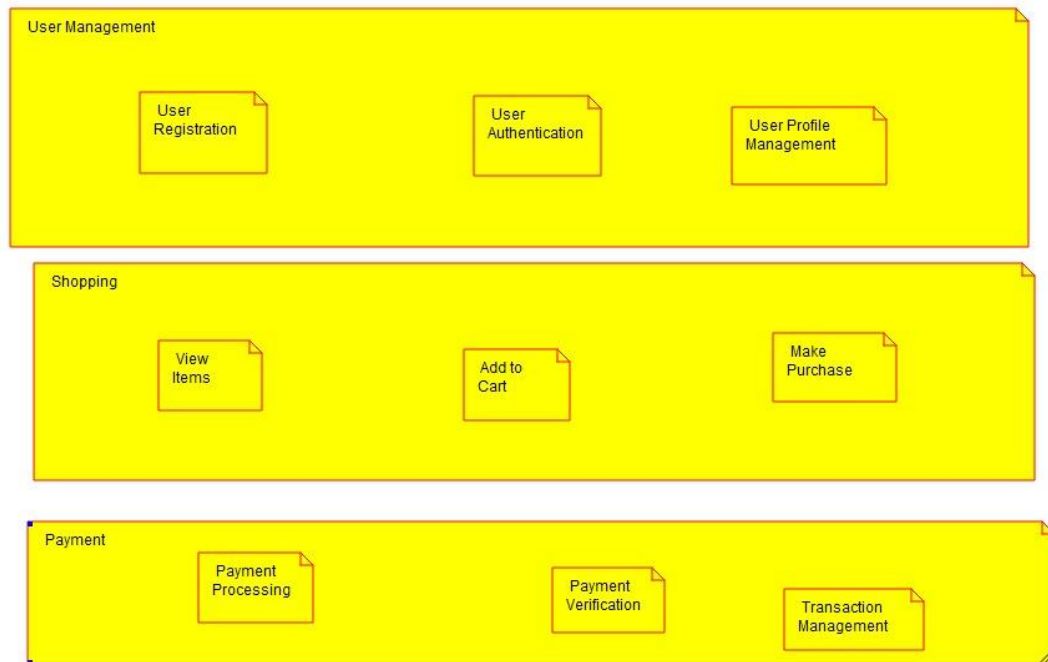
STATE DIAGRAM:

COMPONENT DIAGRAM:

DEPLOYMENT DIAGRAM:

PACKAGE DIAGRAM:

RESULT:

The **Use Case Diagram** for the **Online Purchasing System** is successfully designed.
It shows the interactions between the **Web Customer** and the system, covering essential
functionalities such as **viewing items, making purchases, and client registration**.

**This diagram effectively represents the online purchasing workflow and ensures clarity
in system operations.**