CSA4002 - MANAGEMENT INFORMATION SYSTEMS FOR GREEN ENERGY

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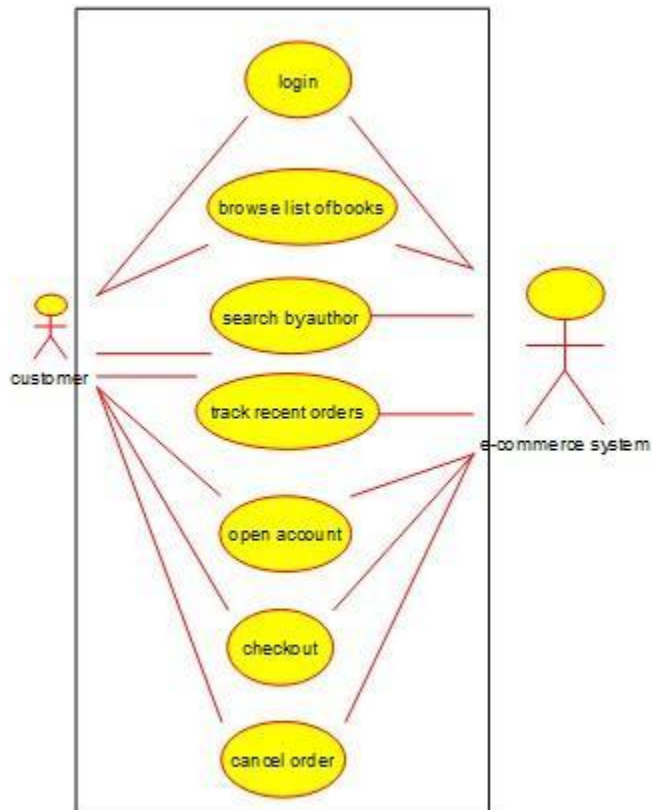
Aim:

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

Procedure:

1. Identify the actors: Web Customer, Online Store System, and Payment System.
2. Identify key use cases: View Items, Make Purchase, and Client Register.
3. Define include relationships: Client Register is included in Make Purchase, and View Items is included in Make Purchase.
4. Define extend relationships: Apply Discount extends Make Purchase, and Add to Wishlist extends View Items.
5. Draw the system boundary labeled Online Purchasing System, placing actors outside and use cases inside.
6. Connect actors to use cases using association lines to show interactions.
7. Verify completeness by ensuring all functionalities and relationships are accurately represented.

Output:

Use Case Diagram:

Result:

The UML Use Case Diagram for the Online Purchasing System effectively illustrates customer interactions, from browsing items to making purchases. It ensures a structured workflow by capturing necessary relationships, including user registration, purchasing dependencies, and optional actions like discounts and wishlists.