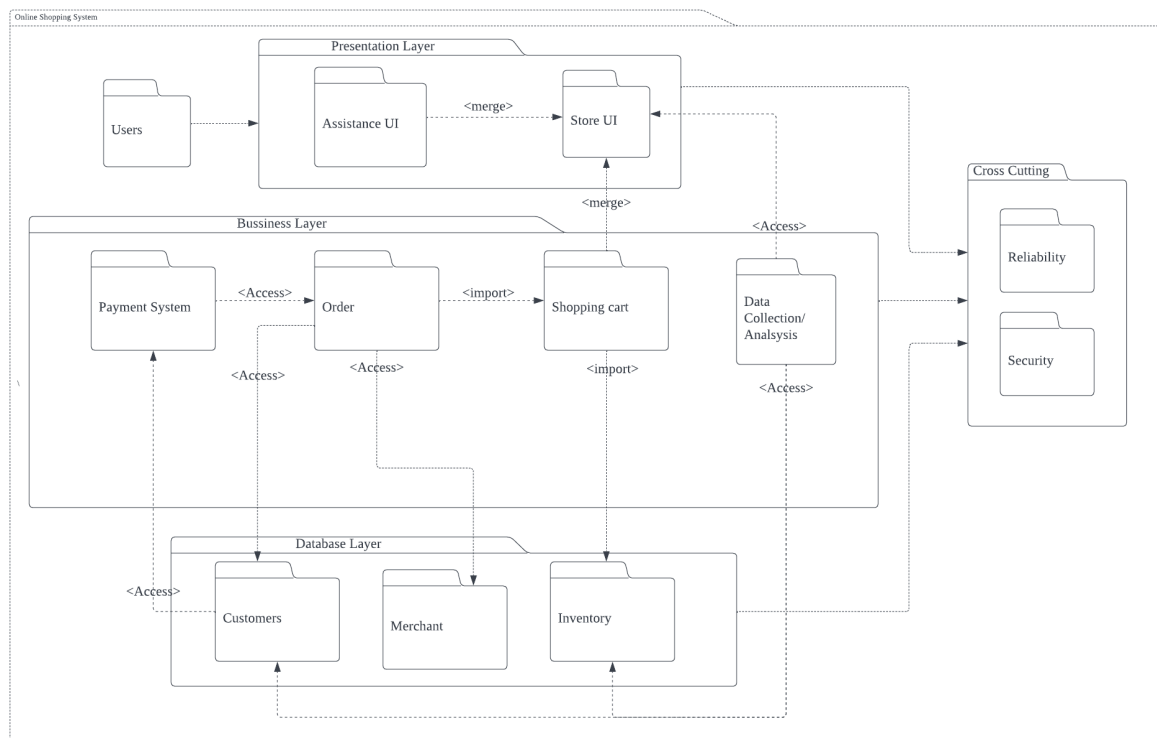


UML Assignment

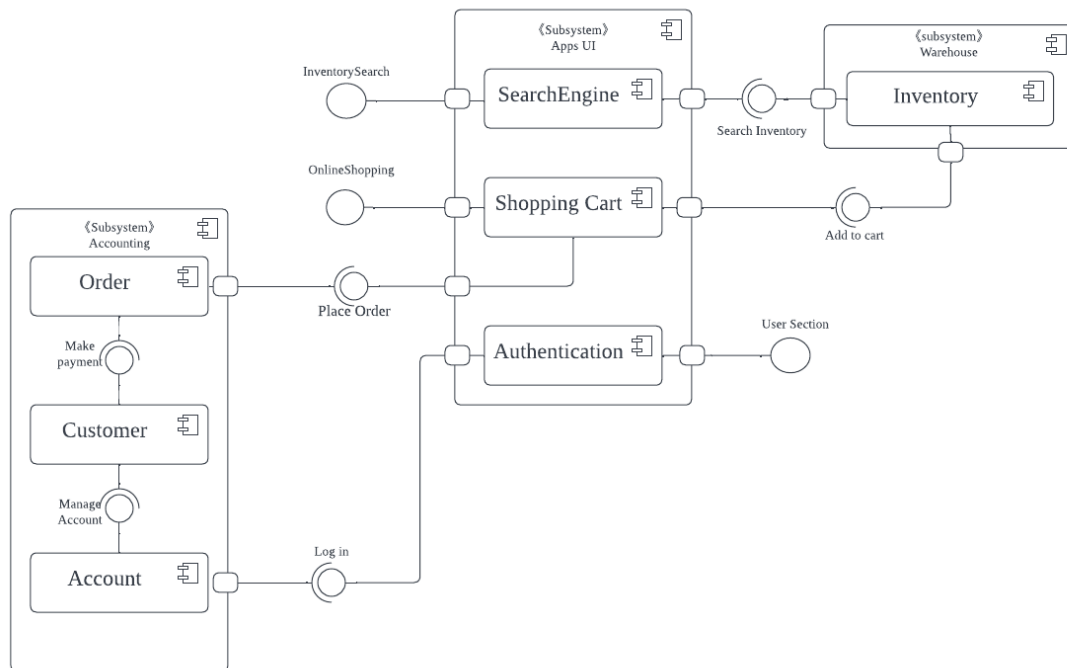
- 1) Select one of the following system to draw package, component and deployment diagrams:
 - a. Hospital System
 - b. Back System
 - c. Online Shopping System

Clarify what are architecture decisions reflected by your diagrams

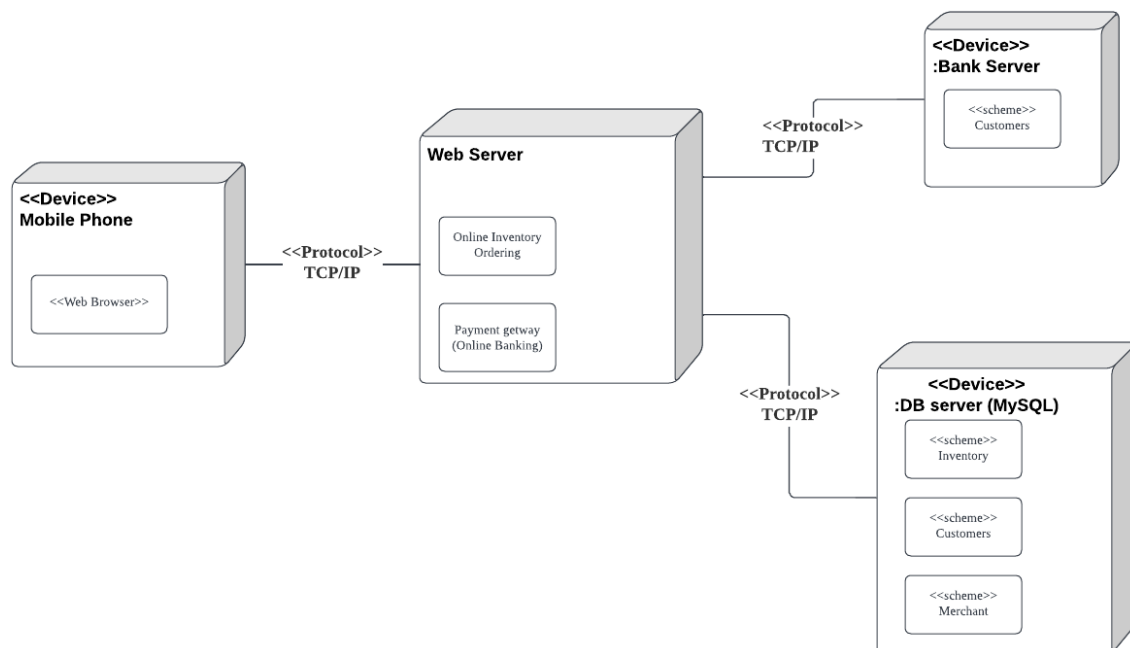
Package Diagram:



Component Diagram:



Deployment Diagram:



Architecture Decision

This online shopping system uses **3-tier architecture** which consists of presentation tier, application tier and database tier. The presentation tier is used to show the user interface. The application tier is used to process the data while the data tier is used to store and manage the inventory data, customers data and merchant data.

The reason of choosing this architecture is as shown as below:

Faster developement:

- Each tier can be developed by different development team at the same time.

Improved modifiability:

- Update made on one tier does not affect other tiers, which separation of concern exists

Improved security:

- Because the presentation tier and data tier can't communicate directly, a well-designed application tier can function as a sort of internal firewall, preventing SQL injections and other malicious exploits.