

## **LAB MID TERM**

**NAME: TEHREEMA JILANI**

**REG NO: SP23-BSE-041**

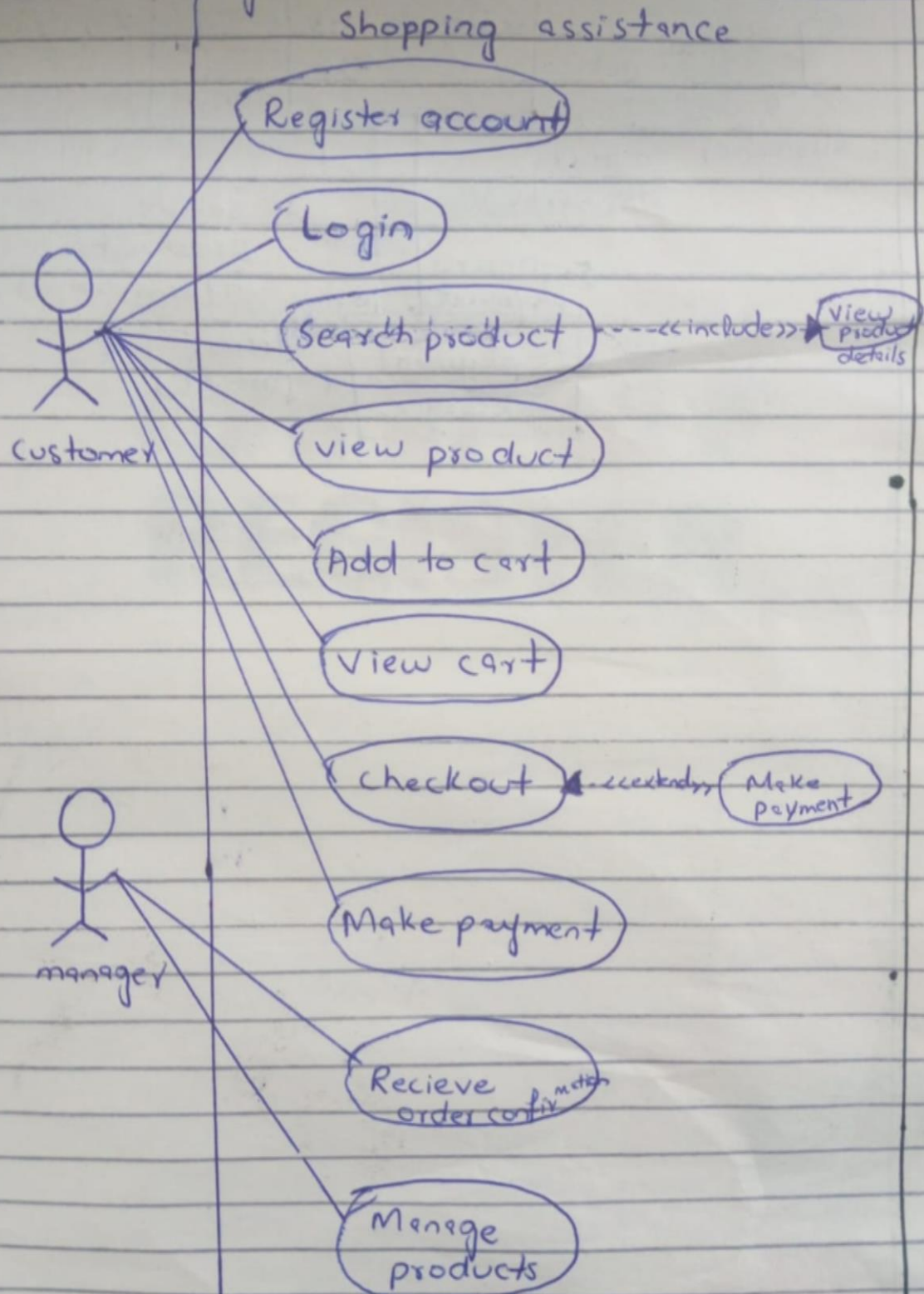
**CLASS: BSE-5B**

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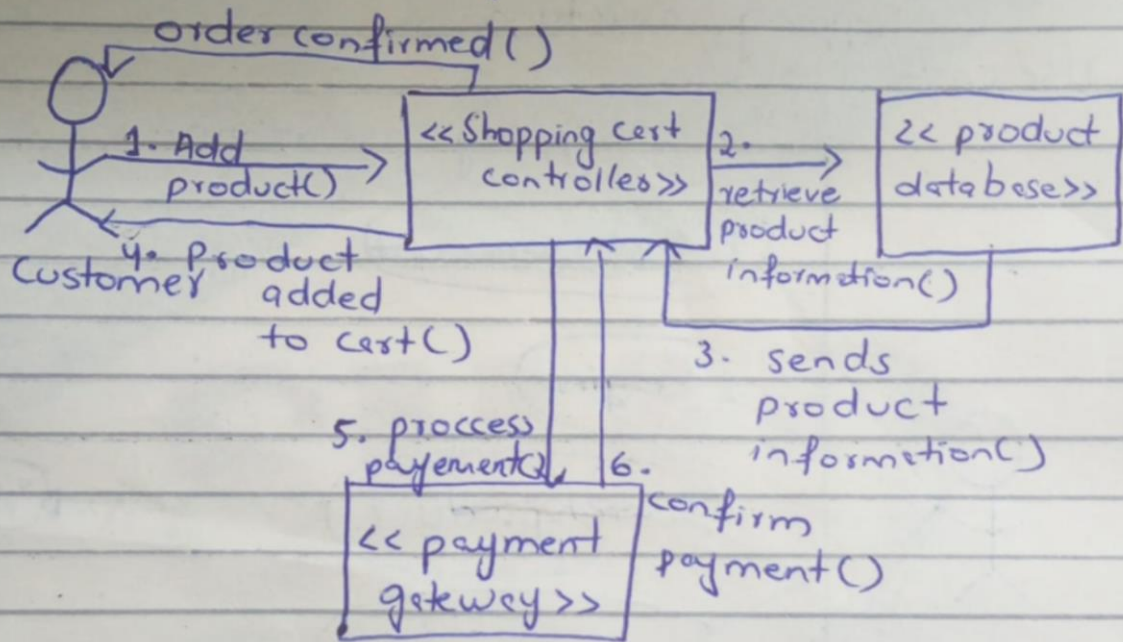
Shopping assistance.

Use case Diagram



Tehreema Jilani  
SP23-BSE-041

### Communication Diagram



## GRASP PRINCIPLES USED

Pattern	Class	Why Used?
<b>Controller</b>	ShoppingCartController	Handles system operations from the user (e.g., addProductToCart, checkout).
<b>Information Expert</b>	ProductDatabase	Has the knowledge to provide product data (based on ID).
<b>Creator</b>	ShoppingCartController	Creates ShoppingCart since it needs to manage it.
<b>Low Coupling</b>	ShoppingCart, PaymentGateway, ProductDatabase	Each class does one job and depends minimally on others.
<b>High Cohesion</b>	All classes	Each class has a single, well-defined purpose (separation of concerns).