

OOP1 Task 1

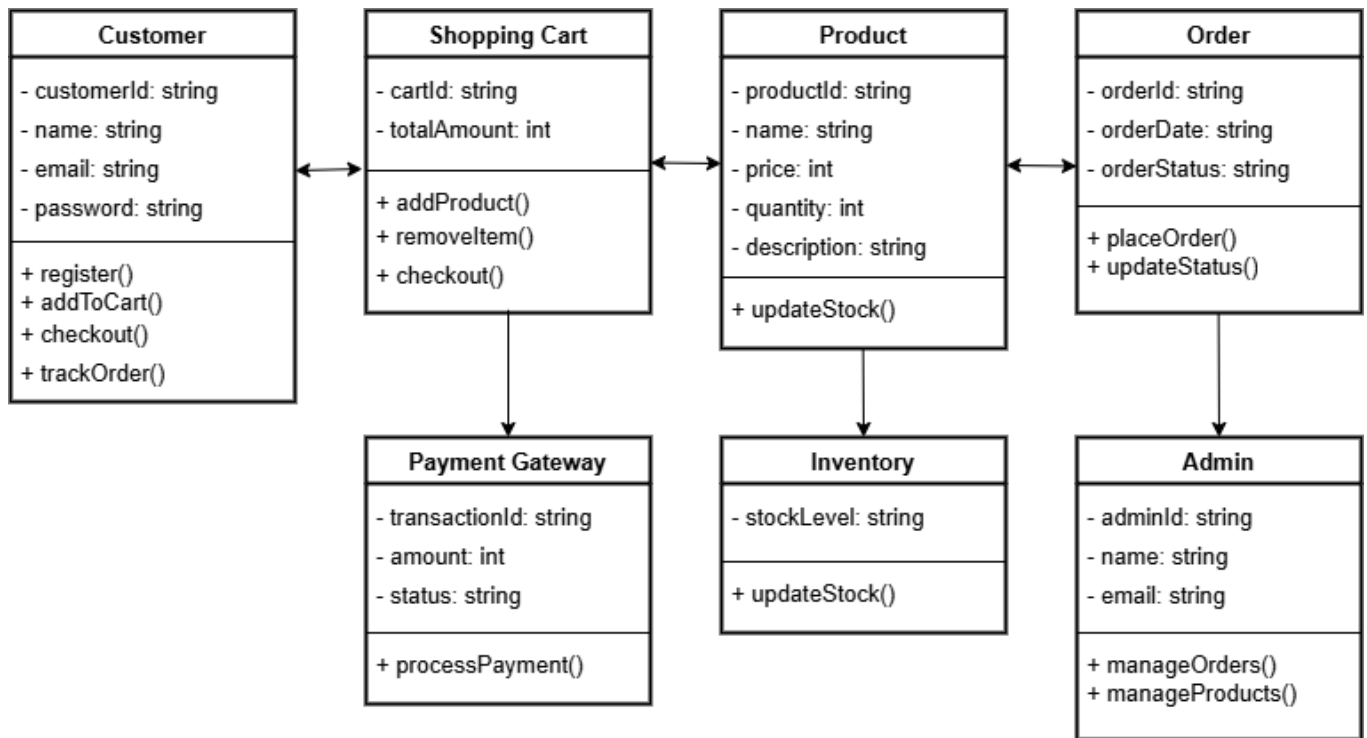


Fig 1: UML Class Diagram for a simple E-commerce System

OOP1 Task 2

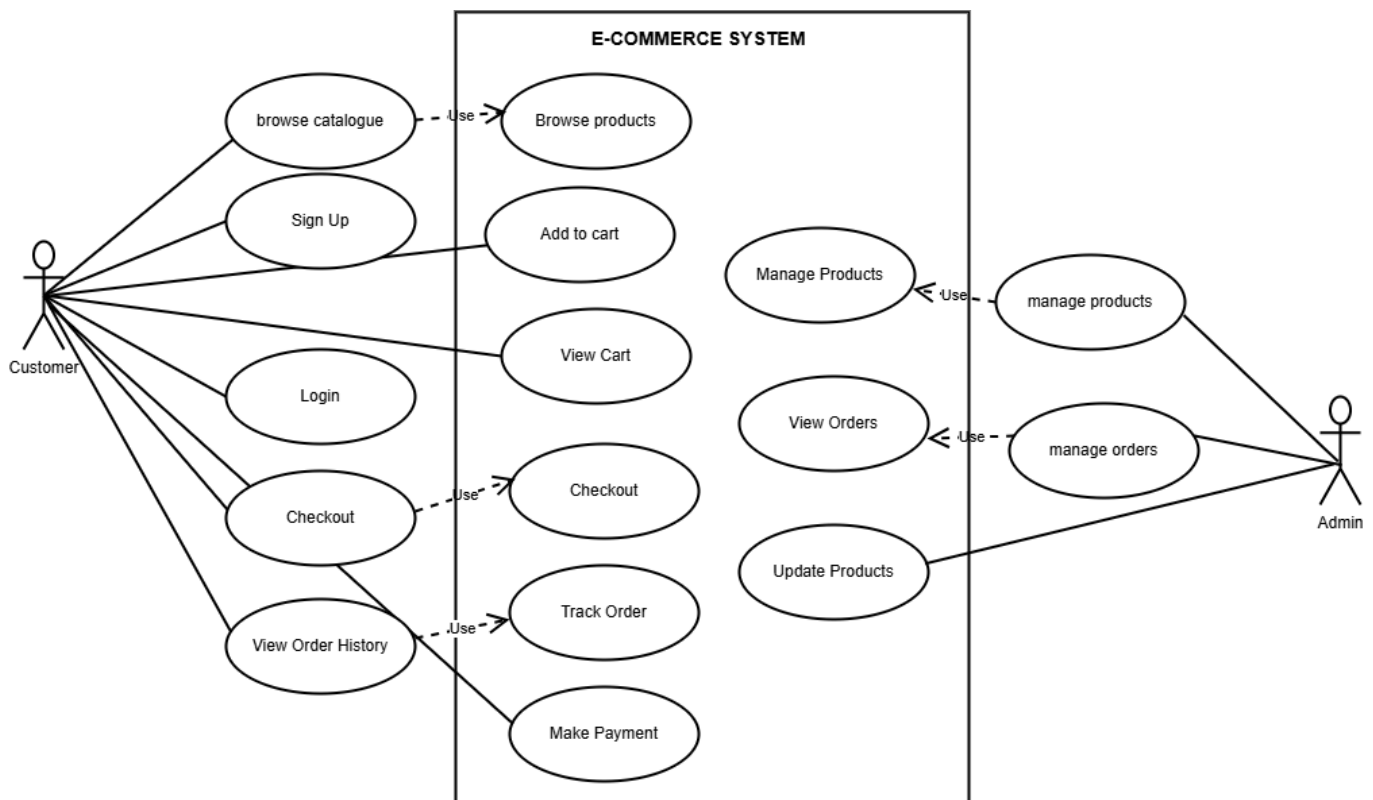


Fig2: UML Use case diagram for a simple E-commerce system

```
Node.js v17.8.0
PS C:\Users\HP\Documents\Learnable-24\oop1> node app.js
2 x Laptop was added to the this.orderId.
1 x Phone was added to the this.orderId.
3 x Headphones was added to the this.orderId.
All Orders:
Order ID: 101
Customer: Joseph Uche
Items in the order:
Laptop - Quantity: 2 - Price: $1500 - Total: $3000
Phone - Quantity: 1 - Price: $800 - Total: $800
Headphones - Quantity: 3 - Price: $100 - Total: $300
Total Price: $4100
Smartwatch has been added to the inventory.
Keyboard has been added to the inventory.
Gaming Laptop has been updated.
Jug has been removed from the inventory.
All Orders:
Order ID: 101
Customer: Joseph Uche
Items in the order:
Laptop - Quantity: 2 - Price: $1500 - Total: $3000
Phone - Quantity: 1 - Price: $800 - Total: $800
Headphones - Quantity: 3 - Price: $100 - Total: $300
Total Price: $4100
Order ID: 101
Customer: Joseph Uche
Items in the order:
Laptop - Quantity: 2 - Price: $1500 - Total: $3000
Phone - Quantity: 1 - Price: $800 - Total: $800
Headphones - Quantity: 3 - Price: $100 - Total: $300
Total Price: $4100
Order with ID 101 has been cancelled.
```

Fig3: Screenshot of the results

```
Items in the order:
Laptop - Quantity: 2 - Price: $1500 - Total: $3000
Phone - Quantity: 1 - Price: $800 - Total: $800
Headphones - Quantity: 3 - Price: $100 - Total: $300
Total Price: $4100
Order with ID 101 has been cancelled.
4 x Phone added to the cart.
Items in your cart:
id: 2 - Phone - Quantity: 5
Customer {
  customerId: 1,
  name: 'Joseph',
  email: 'uche.ejike.123',
  password: 12345678
}
Customer {
  customerId: 1,
  name: 'Uche',
  email: 'uche.ejike.123',
  password: 12345678
}
Customer Joseph has been registered.
1 x Phone was removed from the cart.
Items in your cart:
id: 2 - Phone - Quantity: 4
2 x Laptop was added to the this.orderId.
1 x Phone was added to the this.orderId.
3 x Headphones was added to the this.orderId.
Order ID: 102
Customer: Uche Ejike
Items in the order:
Laptop - Quantity: 2 - Price: $1500 - Total: $3000
Phone - Quantity: 1 - Price: $800 - Total: $800
```

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Fig4: continuity of the testing screenshot

```
customerId: 1,  
name: 'Uche',  
email: 'uche.ejike.123',  
password: 12345678  
}  
Costumer Joseph has been registered.  
1 x Phone was removed from the cart.  
Items in your cart:  
id: 2 - Phone - Quantity: 4  
2 x Laptop was added to the this.orderId.  
1 x Phone was added to the this.orderId.  
3 x Headphones was added to the this.orderId.  
Order ID: 102  
Customer: Uche Ejike  
Items in the order:  
Laptop - Quantity: 2 - Price: $1500 - Total: $3000  
Phone - Quantity: 1 - Price: $800 - Total: $800  
Headphones - Quantity: 3 - Price: $100 - Total: $300  
Total Price: $4100  
PS C:\Users\HP\Documents\Learnable-24\oop1> █
```

Fig5: The final test result