Class Diagram

E-commerce System
-customers: List<Customer> | - products: List<Product> - orders: List<Order>
+addCustomer(customer: Customer) | +removeCustomer(customer: Customer)| +addProduct(product: Product) | removeProduct(product: Product) | +placeOrder(order: Order) | +processPayment(order: Order)

Customer

-Id

-Name

-Email

-addreass

+viewProducts()
+createOrder()
+viewOrders()
+viewOrder(order
: Order)

Product

-Id

-Name

-Price

-Description

+addToCart()
+removeFro
mCart()
+searchProd
ucts()

Order

-Id

-Date

-Total

-Status

+addProduct()
+removeProduct(
)
+calculateTotal()
+updateStatus()

Cart

- items: List<CartItem>
- customer: Customer

+addItem(item: CartItem) |
+removeItem(item:
CartItem)
+calculateTotal()

Cart Item

- product: Product
- quantity: int

+getSubtotal()

Payment

- PaymentId: int
- order: Order
- paymentStatus:
Status

+processPayment(ord
er: Order)
+updatePaymentStatu
s(status: Status)

ProductReview

- reviewId: int |
- product: Product
- customer: Customer
- rating: int
- comment: string

+addReview(rating:
int, comment: string)