

Assignment On: “TechShop, an electronic gadgets shop”

Submitted By: Vrushali Tekchand Rahangdale

Email Id: vrushutr08@gmail.com

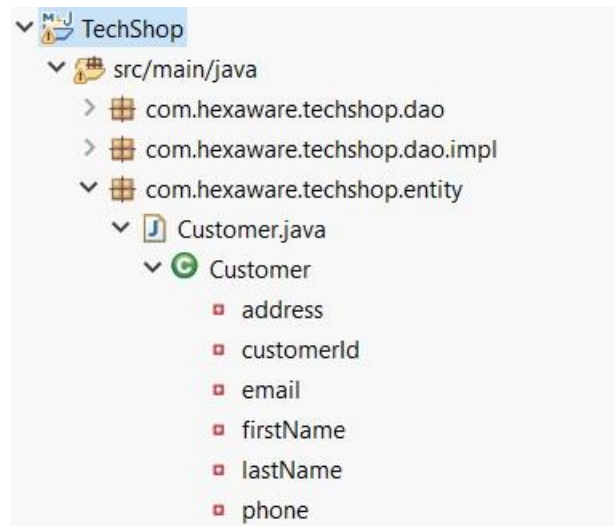
Implement OOPs

Task 1: Classes and Their Attributes:

Customers Class:

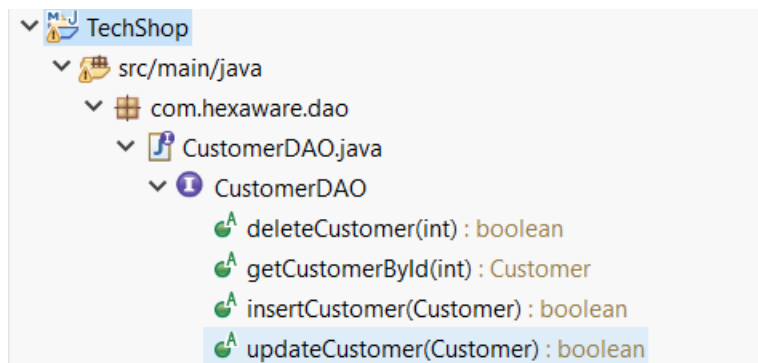
Attributes:

- CustomerID (int)
- FirstName (string)
- LastName (string)
- Email (string)
- Phone (string)
- Address (string)



Methods:

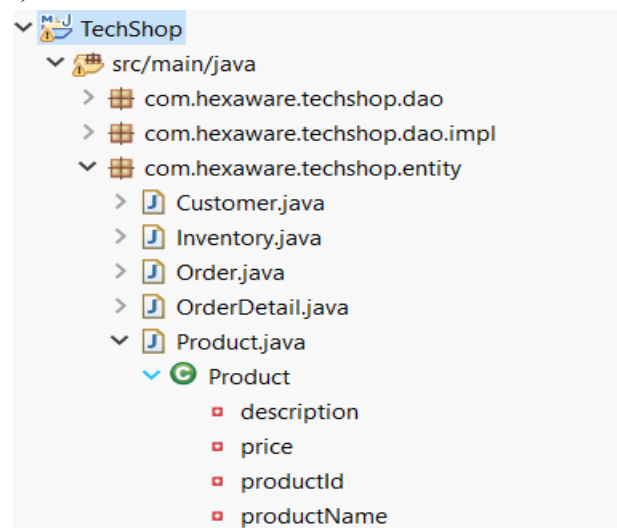
- CalculateTotalOrders(): Calculates the total number of orders placed by this customer.
- GetCustomerDetails(): Retrieves and displays detailed information about the customer.
- UpdateCustomerInfo(): Allows the customer to update their information (e.g., email, phone, or address).



Products Class:

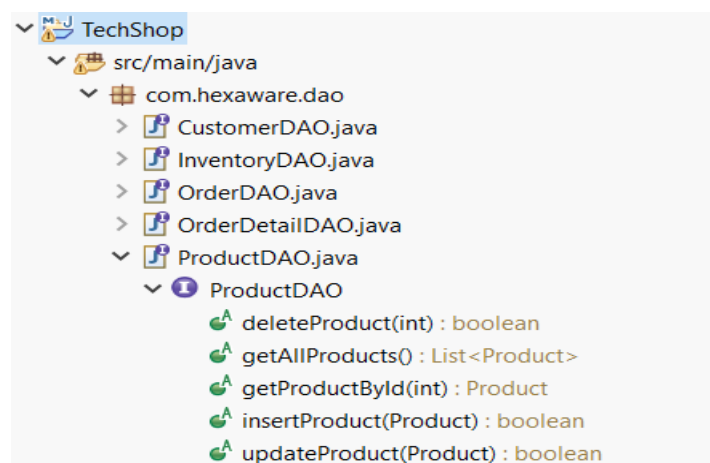
Attributes:

- ProductID (int)
- ProductName (string)
- Description (string)
- Price (decimal)



Methods:

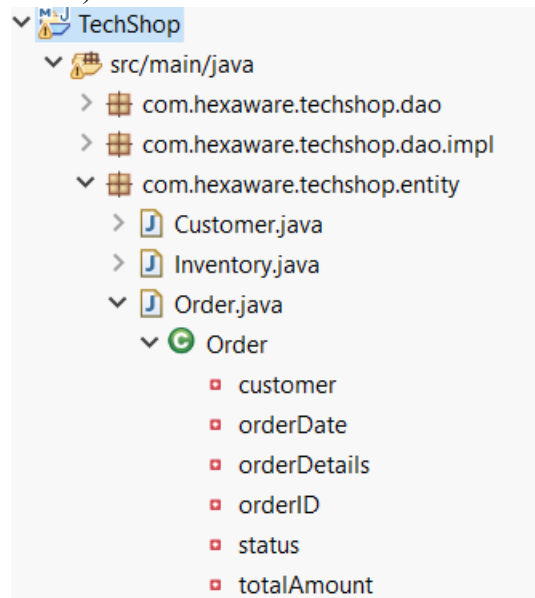
- GetProductDetails(): Retrieves and displays detailed information about the product.
- UpdateProductInfo(): Allows updates to product details (e.g., price, description).
- IsProductInStock(): Checks if the product is currently in stock.



Orders Class:

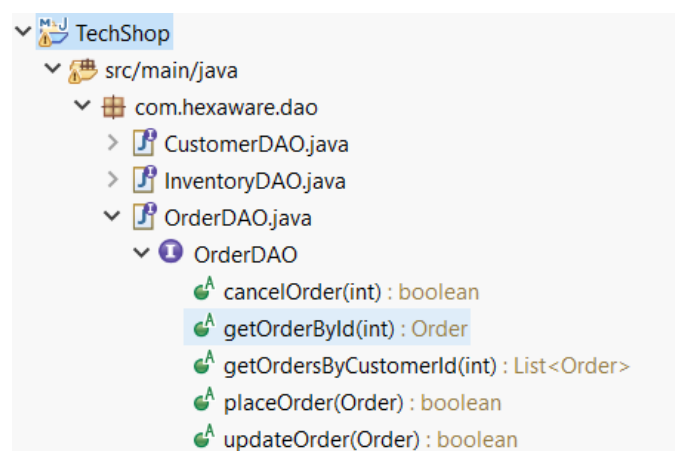
Attributes:

- OrderID (int)
- Customer (Customer) - Use composition to reference the Customer who placed the order.
- OrderDate (DateTime)
- TotalAmount (decimal)



Methods:

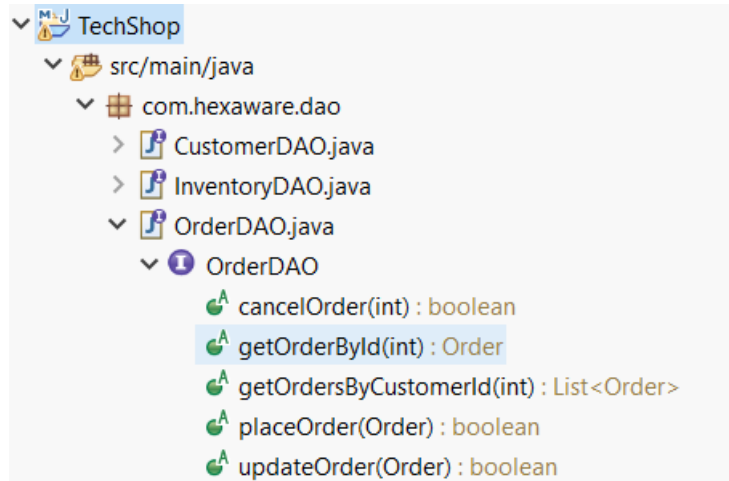
- CalculateTotalAmount() - Calculate the total amount of the order.
- GetOrderDetails(): Retrieves and displays the details of the order (e.g., product list and quantities).
- UpdateOrderStatus(): Allows updating the status of the order (e.g., processing, shipped).
- CancelOrder(): Cancels the order and adjusts stock levels for products.



OrderDetails Class:

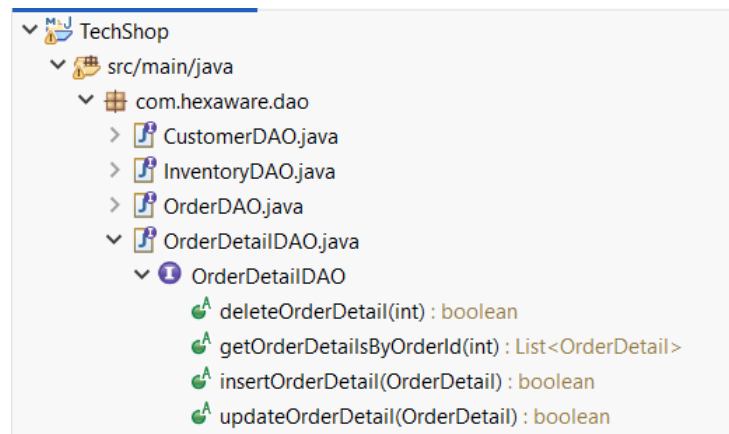
Attributes:

- OrderDetailID (int)
- Order (Order) - Use composition to reference the Order to which this detail belongs.
- Product (Product) - Use composition to reference the Product included in the order detail.
- Quantity (int)



Methods:

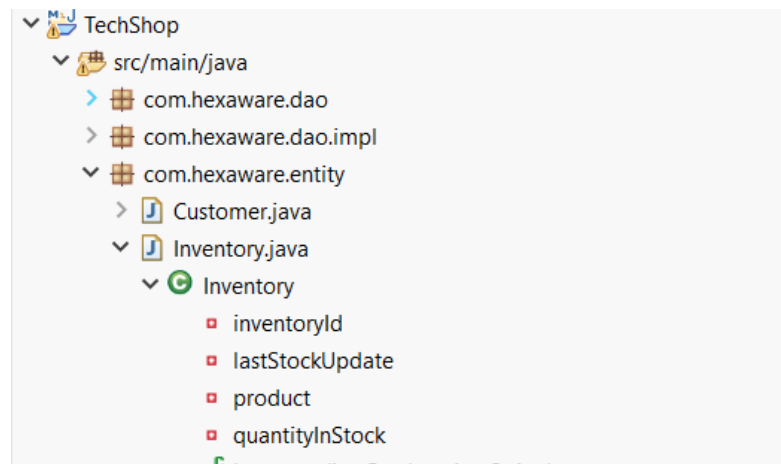
- CalculateSubtotal() - Calculate the subtotal for this order detail.
- GetOrderDetailInfo(): Retrieves and displays information about this order detail.
- UpdateQuantity(): Allows updating the quantity of the product in this order detail.
- AddDiscount(): Applies a discount to this order detail.



Inventory class:

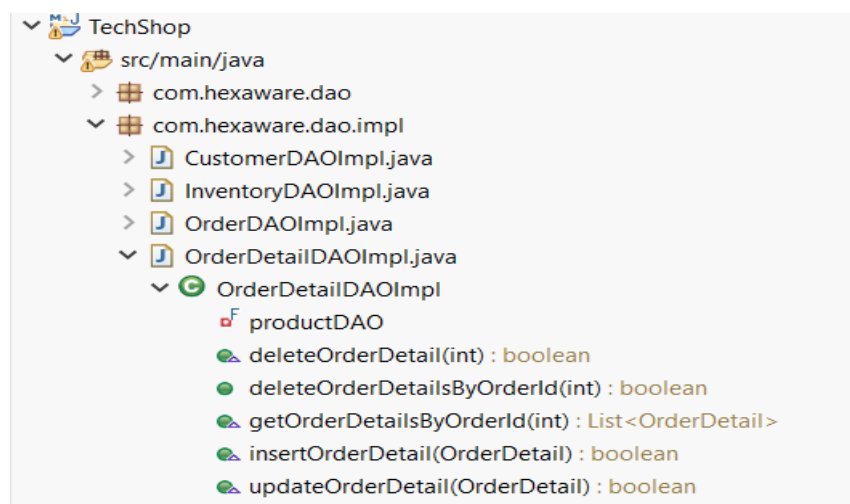
Attributes:

- InventoryID(int)
- Product (Composition): The product associated with the inventory item.
- QuantityInStock: The quantity of the product currently in stock.
- LastStockUpdate

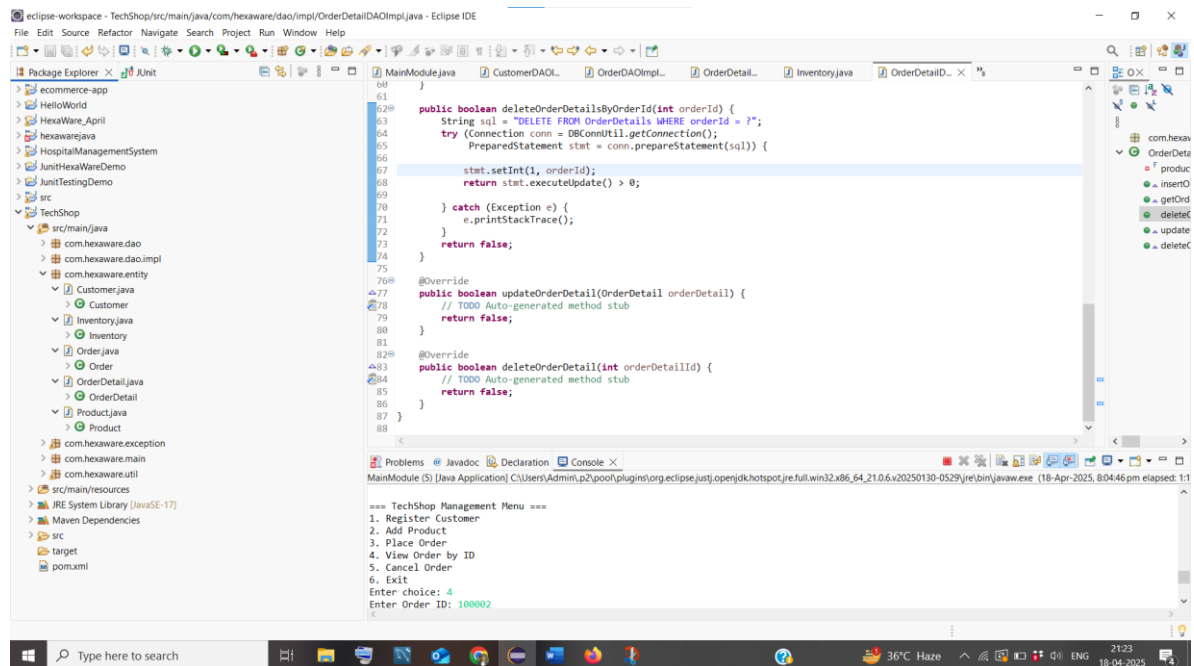


Methods:

- **GetProduct():** A method to retrieve the product associated with this inventory item.
- **GetQuantityInStock():** A method to get the current quantity of the product in stock.
- **AddToInventory(int quantity):** A method to add a specified quantity of the product to the inventory.
- **RemoveFromInventory(int quantity):** A method to remove a specified quantity of the product from the inventory.
- **UpdateStockQuantity(int newQuantity):** A method to update the stock quantity to a new value.
- **IsProductAvailable(int quantityToCheck):** A method to check if a specified quantity of the product is available in the inventory.
- **GetInventoryValue():** A method to calculate the total value of the products in the inventory based on their prices and quantities.
- **ListLowStockProducts(int threshold):** A method to list products with quantities below a specified threshold, indicating low stock.
- **ListOutOfStockProducts():** A method to list products that are out of stock.

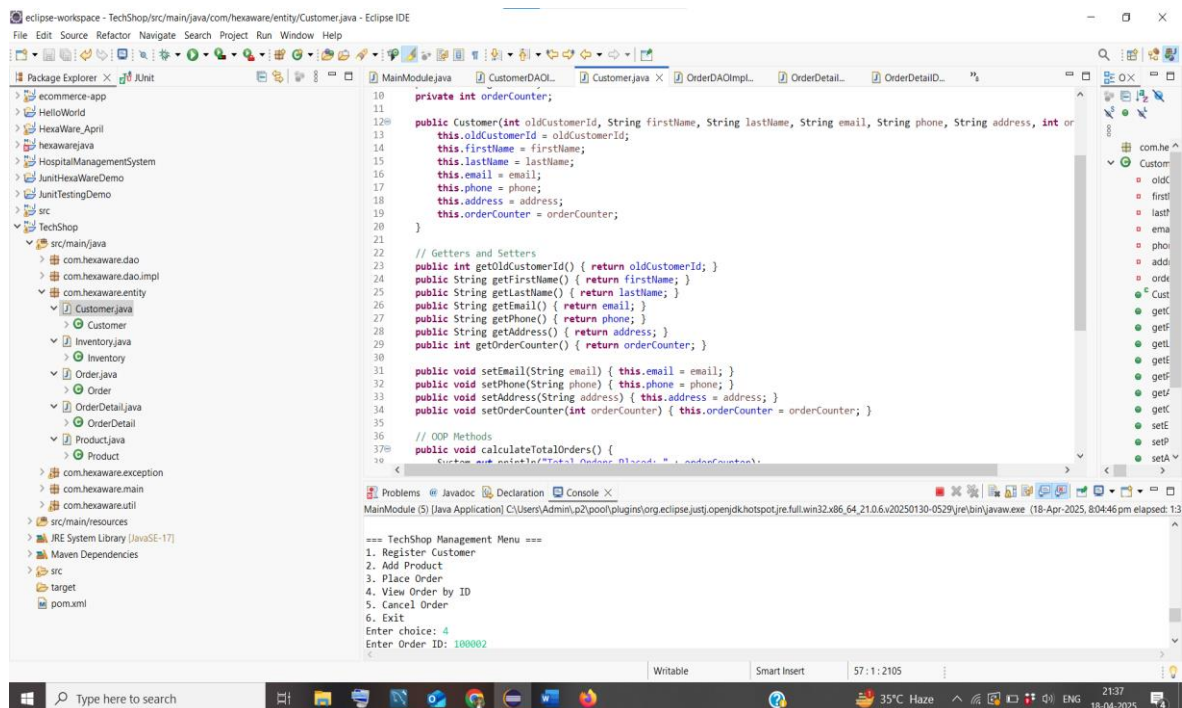


Task 2: Class Creation

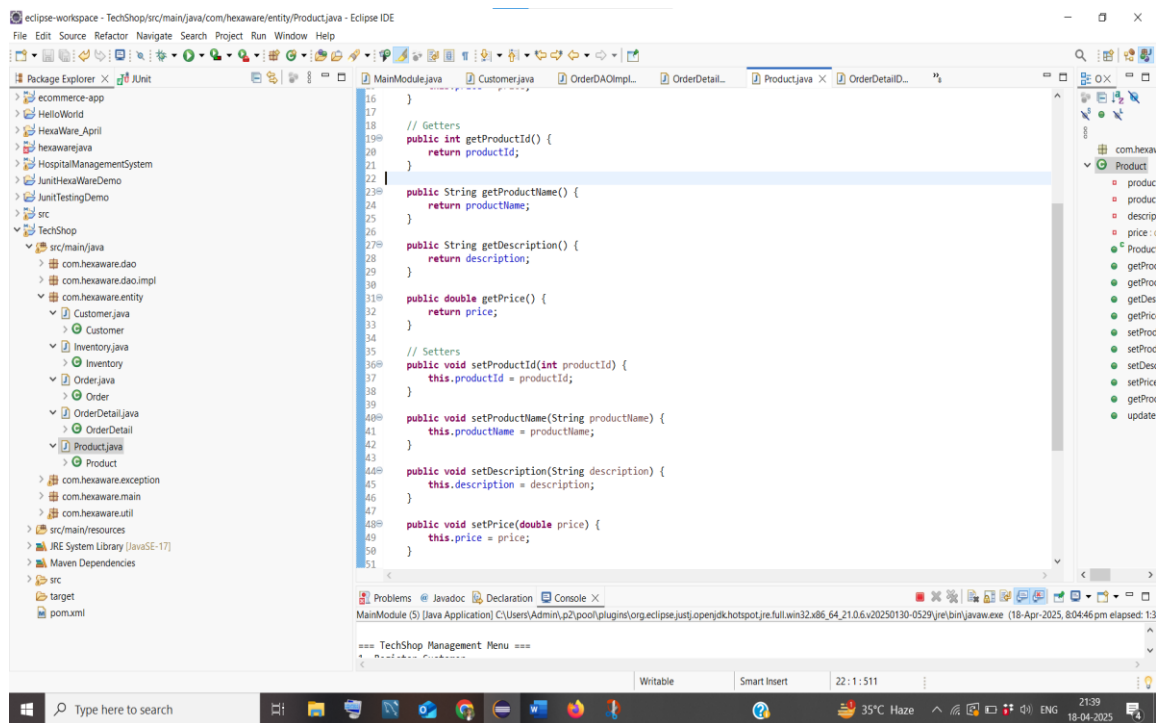


Task 3: Encapsulation:

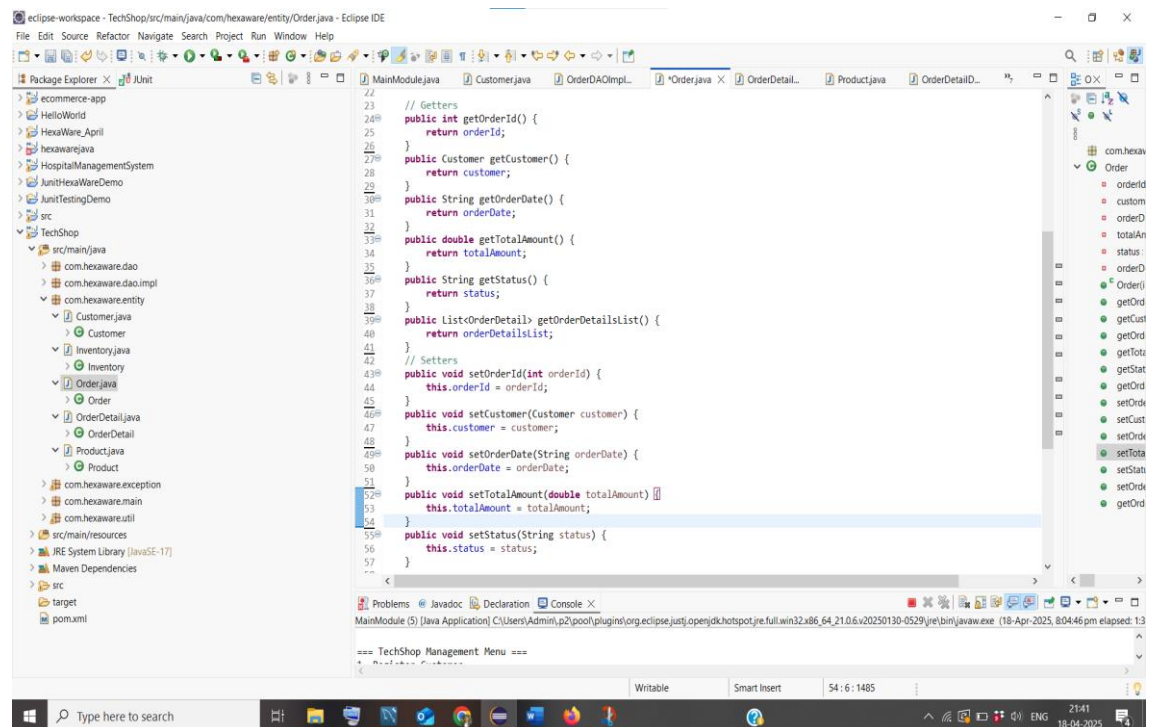
- Customers(getter & setter)



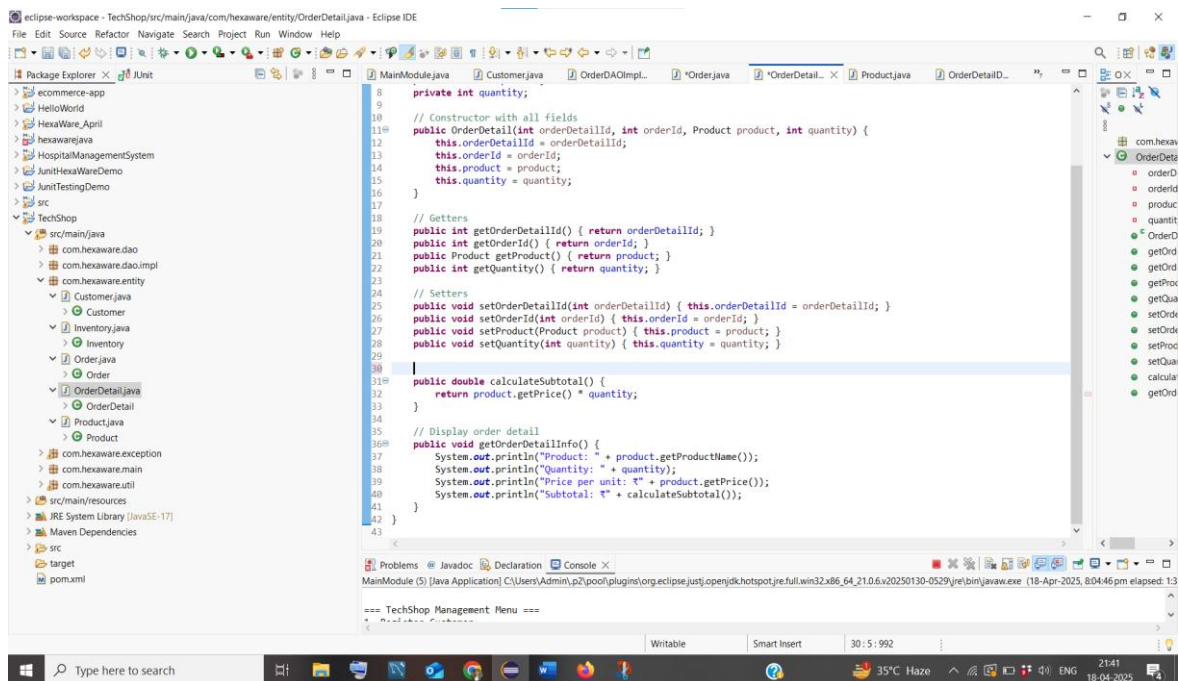
- **Product (getter & setter)**



- **Order (getter & setter)**



• Orderdetails (getter & setter)

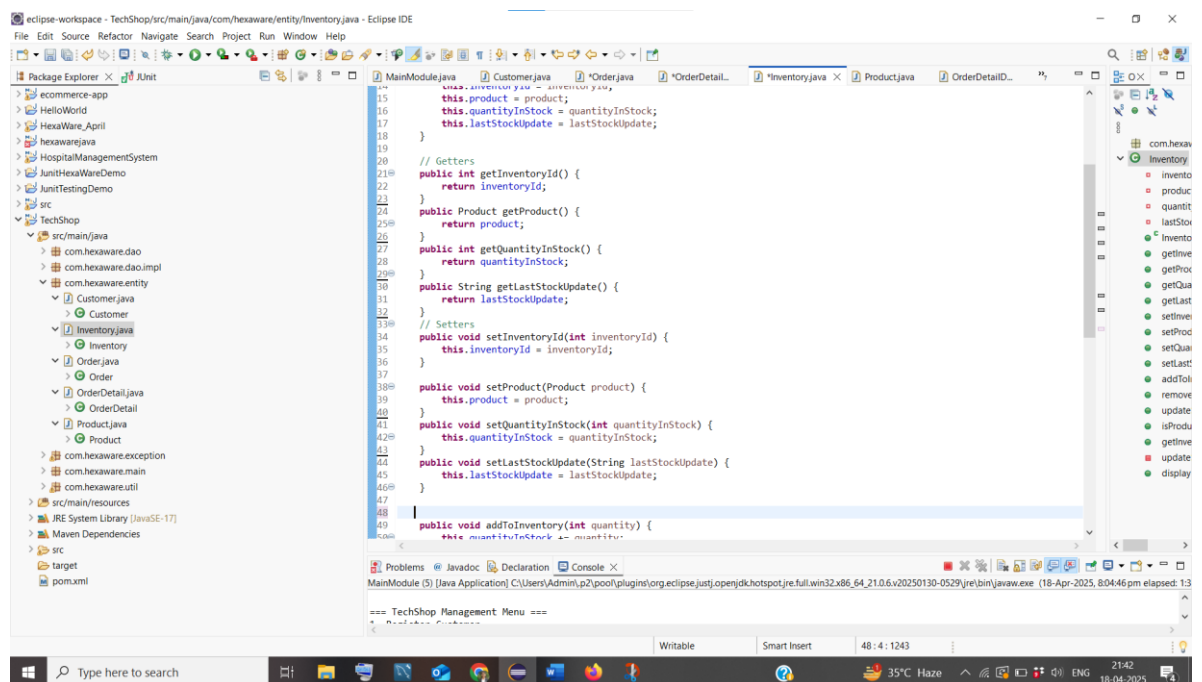


```

8 private int quantity;
9
10 // Constructor with all fields
11 public OrderDetail(int orderDetailId, int orderId, Product product, int quantity) {
12     this.orderDetailId = orderDetailId;
13     this.orderId = orderId;
14     this.product = product;
15     this.quantity = quantity;
16 }
17
18 // Getters
19 public int getOrderDetailId() { return orderDetailId; }
20 public int getOrderId() { return orderId; }
21 public Product getProduct() { return product; }
22 public int getQuantity() { return quantity; }
23
24 // Setters
25 public void setOrderDetailId(int orderDetailId) { this.orderDetailId = orderDetailId; }
26 public void setOrderId(int orderId) { this.orderId = orderId; }
27 public void setProduct(Product product) { this.product = product; }
28 public void setQuantity(int quantity) { this.quantity = quantity; }
29
30
31 public double calculateSubtotal() {
32     return product.getPrice() * quantity;
33 }
34
35 // Display order detail
36 public void getOrderDetailInfo() {
37     System.out.println("Product: " + product.getProductname());
38     System.out.println("Quantity: " + quantity);
39     System.out.println("Price per unit: ₹" + product.getPrice());
40     System.out.println("Subtotal: ₹" + calculateSubtotal());
41 }
42
43

```

• Inventory (getter & setter)

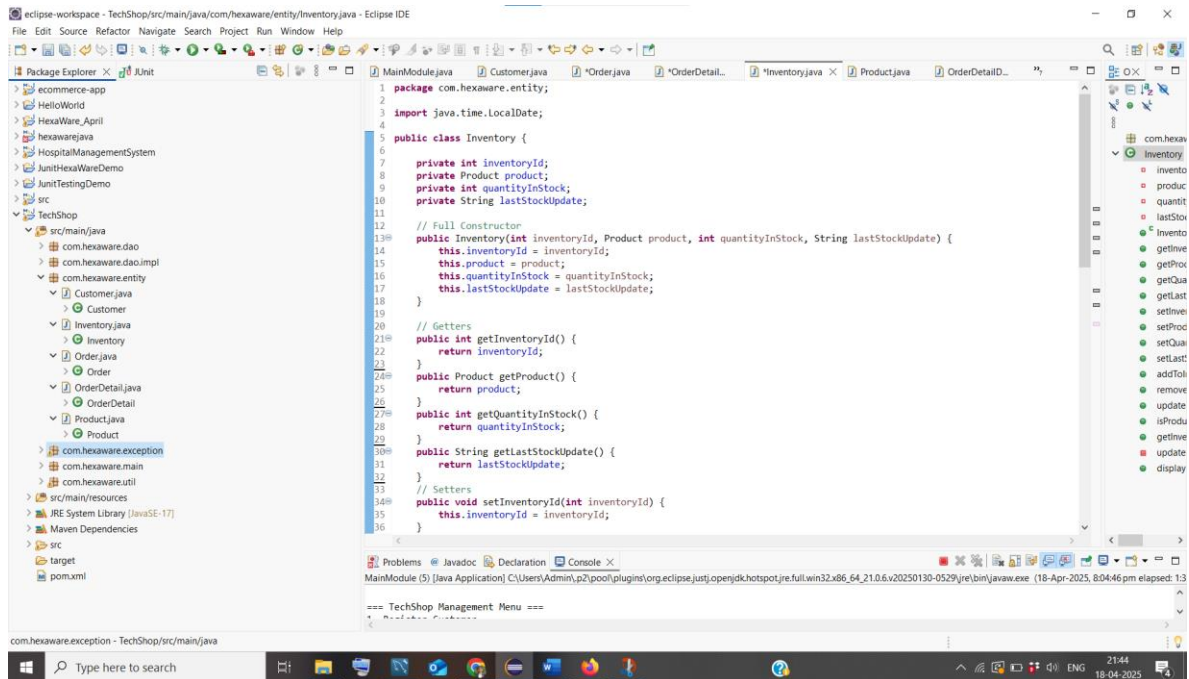


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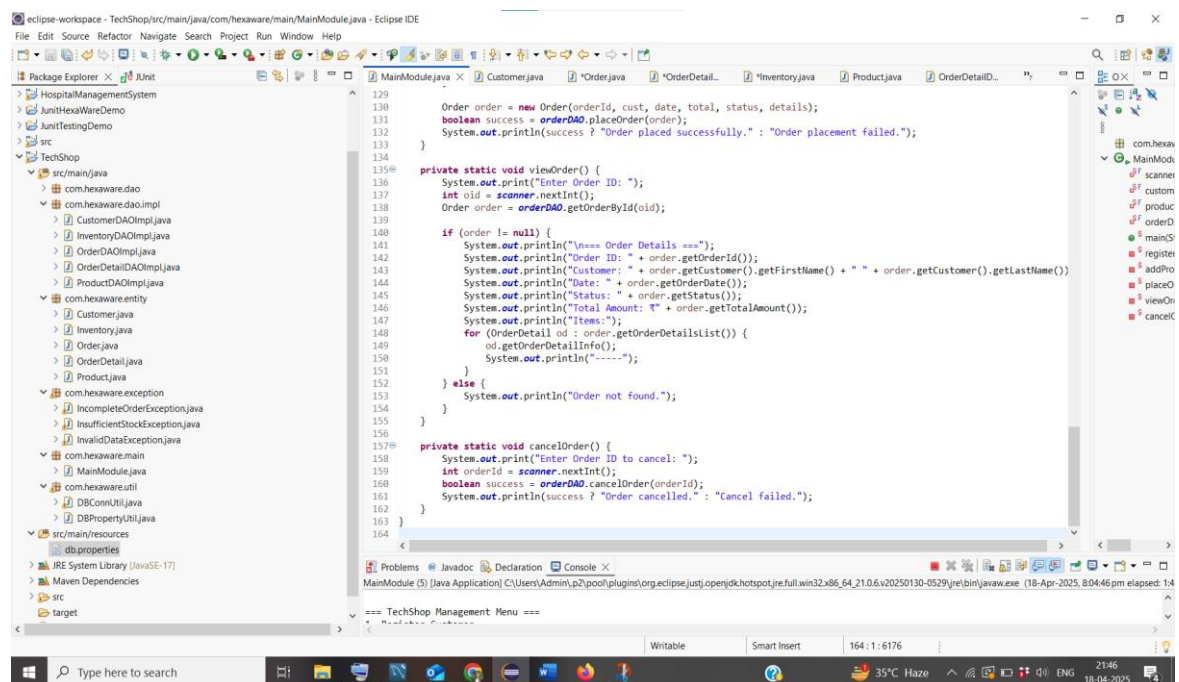
15 private int quantityInStock;
16 private String lastStockUpdate;
17
18 // Constructor
19 public Inventory(int inventoryId, Product product, int quantityInStock, String lastStockUpdate) {
20     this.inventoryId = inventoryId;
21     this.product = product;
22     this.quantityInStock = quantityInStock;
23     this.lastStockUpdate = lastStockUpdate;
24 }
25
26 // Getters
27 public int getInventoryId() { return inventoryId; }
28 public Product getProduct() { return product; }
29 public int getQuantityInStock() { return quantityInStock; }
30 public String getLastStockUpdate() { return lastStockUpdate; }
31
32 // Setters
33 public void setInventoryId(int inventoryId) { this.inventoryId = inventoryId; }
34 public void setProduct(Product product) { this.product = product; }
35 public void setQuantityInStock(int quantityInStock) { this.quantityInStock = quantityInStock; }
36 public void setLastStockUpdate(String lastStockUpdate) { this.lastStockUpdate = lastStockUpdate; }
37
38
39 public void addToInventory(int quantity) {
40     this.quantityInStock += quantity;
41 }
42

```

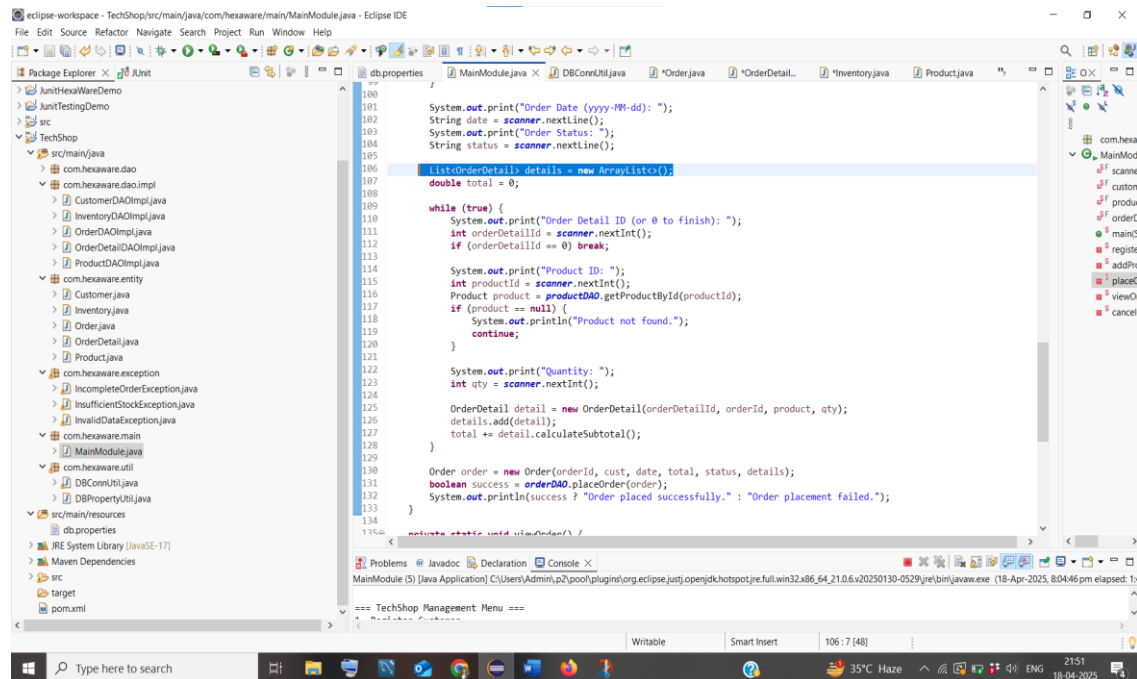

Task 4: Composition



Task 5: Exceptions handling

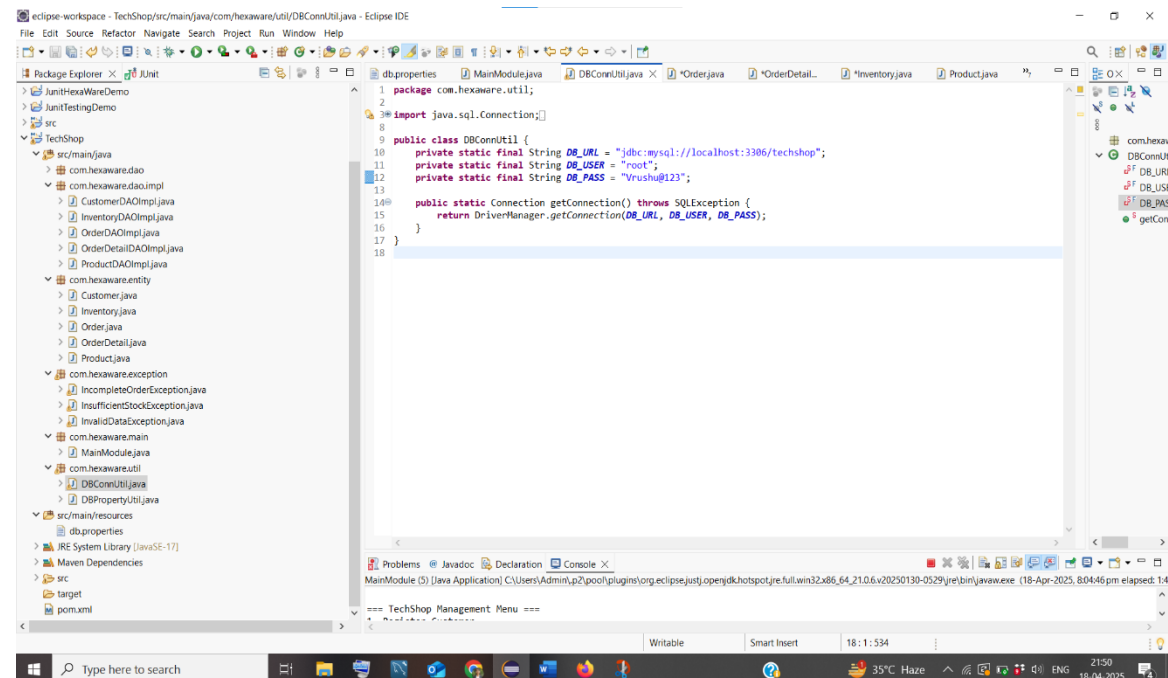


Task 6: Collections



```
100  
101 System.out.print("Order Date (yyyy-MM-dd): ");  
102 String date = scanner.nextLine();  
103 System.out.print("Order Status: ");  
104 String status = scanner.nextLine();  
105  
106 List<OrderDetail> details = new ArrayList<>();  
107 double total = 0;  
108  
109 while (true) {  
110     System.out.print("Order Detail ID (or 0 to finish): ");  
111     int orderDetailId = scanner.nextInt();  
112     if (orderDetailId == 0) break;  
113  
114     System.out.print("Product ID: ");  
115     int productId = scanner.nextInt();  
116     Product product = productDAO.getProductById(productId);  
117     if (product == null) {  
118         System.out.println("Product not found.");  
119         continue;  
120     }  
121  
122     System.out.print("Quantity: ");  
123     int qty = scanner.nextInt();  
124  
125     OrderDetail detail = new OrderDetail(orderDetailId, orderId, product, qty);  
126     details.add(detail);  
127     total += detail.calculateSubtotal();  
128 }  
129  
130 Order order = new Order(orderId, cust, date, total, status, details);  
131 boolean success = orderDAO.placeOrder(order);  
132 System.out.println(success ? "Order placed successfully." : "Order placement failed.");  
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Task 7: Database Connectivity






```
1 package com.hexaware.util;  
2  
3 import java.sql.Connection;  
4  
5 public class DBConnUtil {  
6     private static final String DB_URL = "jdbc:mysql://localhost:3306/techshop";  
7     private static final String DB_USER = "root";  
8     private static final String DB_PASS = "Vrushu@123";  
9  
10    public static Connection getConnection() throws SQLException {  
11        return DriverManager.getConnection(DB_URL, DB_USER, DB_PASS);  
12    }  
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Project Output

- Register Customer

```
=== TechShop Management Menu ===
1. Register Customer
2. Add Product
3. Place Order
4. View Order by ID
5. Cancel Order
6. Exit
Enter choice: 1
Old Customer ID: 115
First Name: rayan
Last Name: roy
Email: rayan@gmail.com
Phone: 8529637412
Address: Mumbai
Order Counter: 1
Customer registered successfully.
```

Result Grid	 Filter Rows:	<input type="text"/>	Edit:	 Export/Import:	 Wrap Cell Content:	<input type="text"/>	
oldcustomerID	FirstName	LastName	Email	Phone	Address	OrderCount	orderCounter
105	Kiran	Singh	kiransingh@email.com	9632585621	Mumbai	1	0
106	David	Miller	david.miller@email.com	9519511594	Kolkata	1	0
107	Vismay	Wagh	vismaywagh@email.com	8888232321	Chennai	1	0
108	Farah	Moore	frarahmoore@email.com	7854442222	Chennai	1	0
109	Anjali	Sharma	anjali@email.com	7778889999	Mumbai	1	0
110	Vishal	Raj	vishalraj1@email.com	9991112222	Bangalore	1	0
111	Raj	Roy	rajroy@example.com	9638522589	Tamilnadu	0	0
112	vrushu	NULL	vru@gmail.com	2356897845	nagpur	NULL	0
113	joh	NULL	johleh@gmail.com	8954621321	Delhi	NULL	0
115	rayan	roy	rayan@gmail.com	8529637412	Mumbai	NULL	1

- Add Product

```
=== TechShop Management Menu ===
1. Register Customer
2. Add Product
3. Place Order
4. View Order by ID
5. Cancel Order
6. Exit
Enter choice: 2
Product ID: 13
Product Name: HP Laptop
Description: Latest Model
Price: 950000
Product added successfully.
```

Result Grid					Filter Rows:	Edit:	Export/Import:
	ProductID	ProductName	Description	Price			
	4	Headphones	Noise-canceling headphones	209.00			
	5	Smartwatch	Wearable fitness tracker	1540.00			
	6	Monitor	24-inch HD monitor	26400.00			
	7	Keyboard	Mechanical keyboard	880.00			
	8	Mouse	Wireless mouse	539.00			
	9	Printer	All-in-one printer	18700.00			
	10	External Hard Drive	1TB portable storage	1320.00			
	11	Earbuds	LatestModel	90000.00			
	12	Smartphone	Latest model smartphone	60000.00			
	13	HP Laptop	Latest Model	950000.00			
•	NULL	NULL	NULL	NULL			

- Place Order

```

=== TechShop Management Menu ===
1. Register Customer
2. Add Product
3. Place Order
4. View Order by ID
5. Cancel Order
6. Exit
Enter choice: 3
Order ID: 10011
Customer Old ID: 111
Order Date (yyyy-MM-dd): 2025-04-19
Order Status: shipped
Order Detail ID (or 0 to finish): 0
Order placed successfully.

```

Result Grid						Filter Rows:	Edit:	Export/Import:
	OrderID	CustomerID	OrderDate	TotalAmount	Status			
	10001	100	2024-04-01	209000.00	Shipped			
	10002	101	2024-04-02	363000.00	Shipped			
	10003	103	2024-04-03	2640000.00	Shipped			
	10004	104	2024-04-04	14630.00	Shipped			
	10005	105	2024-04-05	1309000.00	Shipped			
	10006	106	2024-04-06	14256000.00	Shipped			
	10007	107	2024-04-07	378400.00	Shipped			
	10008	108	2024-04-08	16170.00	Shipped			
	10009	109	2024-04-09	748000.00	Shipped			
...	10010	110	2024-04-10	852269	Shipped			
•	NULL	NULL	NULL	NULL	NULL			

- **View Order By ID**
- **Cancel Order**

```
=== TechShop Management Menu ===  
1. Register Customer  
2. Add Product  
3. Place Order  
4. View Order by ID  
5. Cancel Order  
6. Exit  
Enter choice: 4  
Enter Order ID: 100002  
Order not found.
```

```
=== TechShop Management Menu ===  
1. Register Customer  
2. Add Product  
3. Place Order  
4. View Order by ID  
5. Cancel Order  
6. Exit  
Enter choice: 5  
Enter Order ID to cancel: 100011  
Cancel failed.
```