



COS Project in Core Java

(Cake Ordering System)

Note : Here are some specific task ideas for a live bakery shop project using **Core Java (J2SE)**:

Task 1: Cake Ordering System

Create a Cake class with attributes such as name, price, and description.
Create a CakeOrder class with attributes such as cake, quantity, and totalPrice.
Implement a method to calculate the total price of an order based on the quantity of cakes ordered.
Implement a method to display the order details, including the cake name, quantity, and total price.

Task 2: Inventory Management System

Create an Ingredient class with attributes such as name, quantity, and unitPrice.
Create a BakedGood class with attributes such as name, price, and ingredients (a list of Ingredient objects).
Implement a method to calculate the total cost of ingredients for a baked good.
Implement a method to update the inventory levels of ingredients when a baked good is sold.

Task 3: Point of Sale (POS) System

Create a Transaction class with attributes such as date, amount, and paymentType.
Create a Payment class with attributes such as paymentType and amount.
Implement a method to process a payment and update the transaction amount.
Implement a method to generate a receipt for a transaction.

Task 4: Customer Management System

Create a Customer class with attributes such as name, email, and phone.
Implement a method to add a new customer to the system.
Implement a method to retrieve a customer's details based on their email or phone number.

Task 5: Order Management System

Create an Order class with attributes such as customer, date, and status.
Implement a method to create a new order and assign it to a customer.
Implement a method to update the status of an order (e.g. from "pending" to "delivered").

Task 6: Reporting System

Implement a method to generate a report of daily sales, including the total amount sold and the number of transactions.

Implement a method to generate a report of top-selling baked goods, including the name and quantity sold.

These tasks cover various aspects of a bakery shop's operations, including ordering, inventory management, payment processing, customer management, order management, and reporting.

By completing these tasks, you can develop a comprehensive Java-based system for a live bakery shop.

Congratulations! You have successfully completed the tasks.

As a next step, please share your **personal details** with us by **sending an email** to the corresponding **batch email ID assigned to you**:

If you are in **Batch N01**, please email: **N01@thekiranacademy.com**

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