**Use case template**

Doughnuts Shop

ID and name UC-1: Order Doughnuts

Primary actor Client

Secondary actors Doughnuts Shop’s Displaying System

Description A client accesses the Doughnuts Shop’s Displaying System (the website), views the menu, selects the doughnuts, and places the order for a meal to be picked at the register or delivered to a specified location within a specified 3 km radius.

Trigger A Client indicates that he wants to order some doughnuts.

Preconditions

PRE-1. The client is registered in the data base.

PRE-2. The client logs in.

Postconditions

POST-1. Doughnuts order is stored in COS with a status of "Accepted."

POST-2. Inventory of available food items is updated to reflect items in this order.

Normal flow

1.0 Order a Single Meal

1. Client asks to view menu.

2. COS displays menu of available doughnuts and the offers.

3. The Client selects one or more doughnuts from the menu.

4. The Client is informed that the order has been registered.

5. COS displays ordered menu items, individual prices, and total price, delivery charge.

6. COS displays the option to add additional doughnuts to conform to the offers and get discounts

7. Client either confirms the order or requests to add doughnuts to conform to the offers.

8. COS displays available average delivery time.

9. Client specifies the delivery location.

10. Client specifies payment method.

11. COS confirms acceptance of the order.

12. COS stores the order, sends the order (number and types of doughnuts) information to Doughnuts Shop Inventory System, and updates available delivery times.

Alternative flows

Exceptions

1.0.E1 Current time is after today’s order cutoff time

1. COS informs the Client that it’s too late to place an order for today.

2a. If the Client cancels the meal ordering process, then COS terminates use case.

2b. Else if the Client requests to save as the order as a draft, then COS restarts use case.

1.0 E2 Current time is near today’s order cutoff time.

1. COS informs the Client that it’s almost too late to place an order for today. The Client will be charged 30% more.

2a. If the Client cancels the meal ordering process, then COS terminates use case.

2b. Else if the Client requests to save as the order as a draft, then COS restarts use case.

1.0.E3 Delivery location is too far away.

1. COS informs the Client that its location is not close enough.

2a. If Client cancels the ordering process, then COS terminates use case.

2b. Else if Client requests to pick the order at the shop, then continue with normal flow, but skip steps 8 and 9.

3c. Else if Client requests to have the order delivered at the location, then charge amount per kilometer.

1.1.E1 Insufficient inventory to fulfill the order

1. COS informs Client of the maximum number and types of doughnuts he can order, based on current available inventory.

2a. If Client modifies number of meals ordered, then return to step 4 of normal flow.

2b. Else if Client cancels the meal ordering process, then COS terminates use case.