

Bakery Software Proposal

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REQUIREMENTS SPECIFICATION

Use Case 1: Enter Order of Two Items for New Customer

1. User selects "Add Order".
2. System prompts user to select customer from list.*
3. User selects "Add a new customer" from the drop-down menu.
4. System prompts user to enter the customer's last name.
5. User enters client's name and clicks "OK".
6. System prompts user to enter the customer's address.
7. User enters client's address and clicks "OK".
8. System prompts user to enter the customer's city
9. User enters client's city and clicks "OK".
10. System prompts user to select the customer's state.
11. User selects customer's state from the drop-down menu and clicks "OK".
12. System prompts user to enter the customer's zip code.
13. User enters client's zip code and clicks "OK".
14. System prompts user to enter the order pick-up date from a series of drop down menus.
15. User selects the order pick-up date and clicks "OK".
16. System prompts user to select the item to add to the order.
17. User selects the item from a drop-down menu and selects "OK".
18. System prompts user to enter the quantity of the item.
19. User enters the quantity and selects "OK".
20. System asks user if they would like to add another item.
21. User selects "Yes".
22. User selects the item from a drop-down menu and selects "OK".
23. System prompts user to enter the quantity of the item.
24. User enters the quantity and selects "OK".
25. System asks user if they would like to add another item.
26. User selects "No".
27. System asks user if the client is paying for this item now.
28. User selects "Yes" or "No".
29. System returns to start screen and prints the order receipt to the console.

*Note: The previous use case asked user to search for client by phone number. This was changed due to the file given by the client which did not include phone numbers. The addition of the pick-up date was added based on the client's specifications as well.

Use Case 2: Enter Order of Two Items for Existing Customer

1. User selects "Add Order".
2. System prompts user to select customer from list.*
3. User selects the existing customer from a drop-down menu and selects "OK".
4. System prompts user to enter the order pick-up date from a series of drop down menus.
5. User selects the order pick-up date and clicks "OK".
6. System prompts user to select the item to add to the order.
7. User selects the item from a drop-down menu and selects "OK".
8. System prompts user to enter the quantity of the item.
9. User enters the quantity and selects "OK".
10. System asks user if they would like to add another item.
11. User selects "Yes".
12. User selects the item from a drop-down menu and selects "OK".
13. System prompts user to enter the quantity of the item.
14. User enters the quantity and selects "OK".
15. System asks user if they would like to add another item.
16. User selects "No".
17. System asks user if the client is paying for this item now.
18. User selects "Yes" or "No".
19. System returns to start screen and prints the order receipt to the console.

Use Case 3: View* Client's Information (includes viewing loyalty card balance)

1. User selects "Show Customer Information"
2. User selects the customer from the drop-down and clicks "OK".
3. The system shows the user the selected customer's information.
4. The user selects "OK".
5. The system returns to the start screen.

*Note: Editing a client's information has been made a separate step for GUI simplicity. A user can edit a client's information by selecting "Edit Customer".

Use Case 4: Add an Item for Sale

1. User selects "Add Item" under item management.

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2. System prompts for item name.
 3. User enters item name and selects submit.
 4. System prompts user for the item category.
 5. User selects the item category from the drop-down menu and selects "OK".
 6. System prompts user for item price.
 7. User enters the price and selects "OK".
 8. System returns to start screen.

*Note: Categories were added due to new specification by the client.

Use Case 5: Viewing All Items and Their Prices Without Placing an Order

1. User selects "Printed Reports" under "Bakery Management"
2. System prompts for the report type.
3. User selects "Items for Sale" and clicks "OK".
4. System prints list of all items and their prices to the console and returns to start screen.

Use Case 6: Viewing All Orders for A Customer

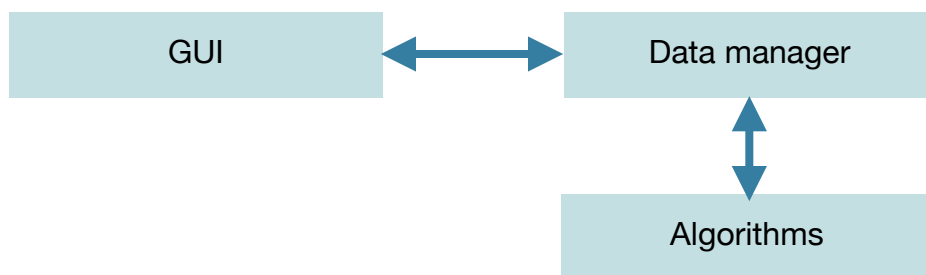
1. User selects "Printed Reports" under "Bakery Management"
2. System prompts for the report type.
3. User selects "Orders By Customer".
4. User selects the customer from the drop-down menu and clicks "OK".
5. System shows user clients orders.
6. User clicks done.
7. System returns to start screen.

List of Functional and Non-Functional Requirements

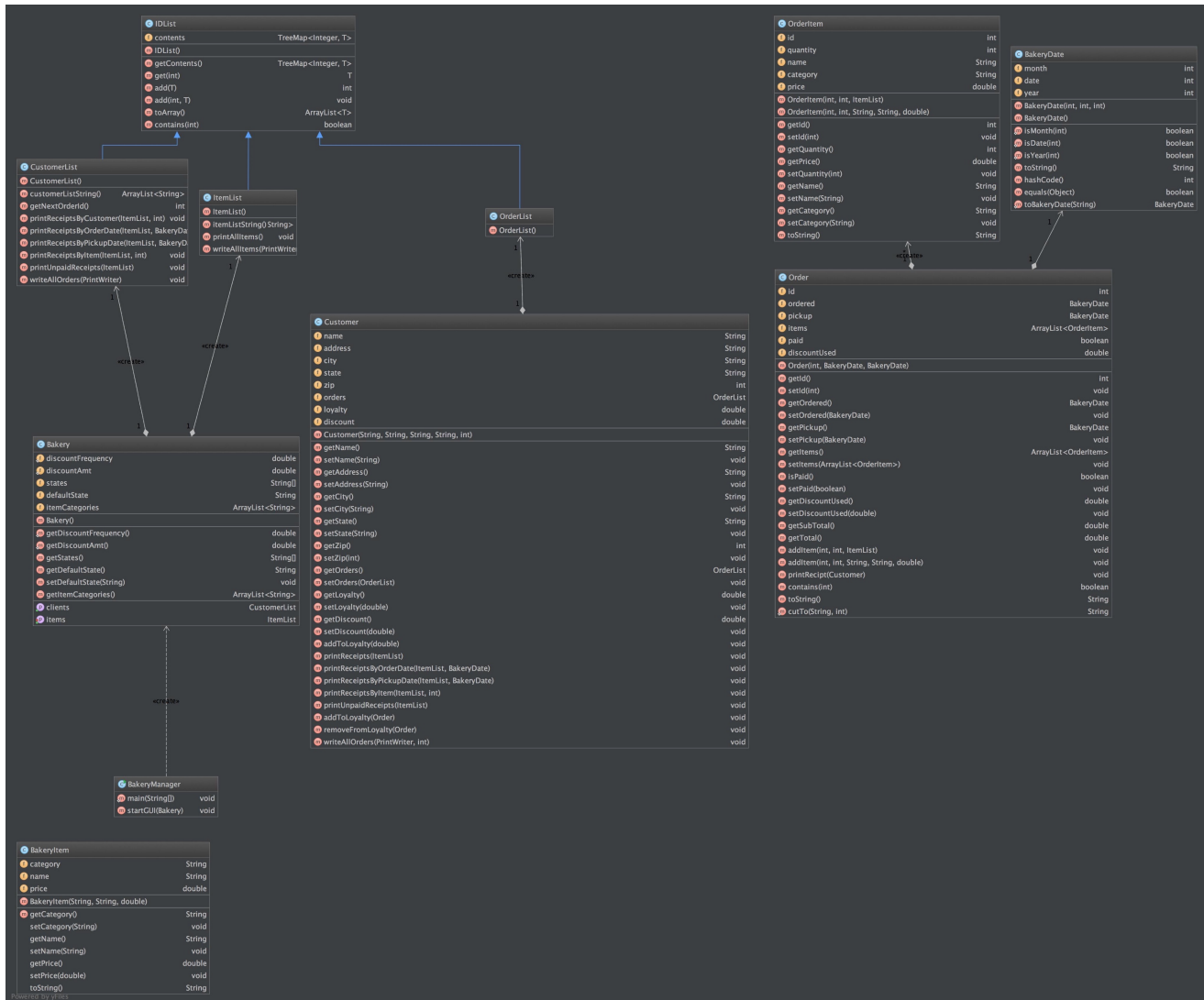
- The system shall allow the user to enter orders for existing customers by selecting them from a menu.
- The system shall allow the user to enter orders for non-existing customers by prompting the user for the customer's information when the customer does not appear in the drop down.
- The system shall allow the user to enter orders for an unlimited number of items.
- The system shall allow the user to select the item being sold from a list and automatically update the price to that of the item.
- The system shall automatically update the client's royalty card balance when an order is placed and automatically apply any royalty card discounts to the order total.

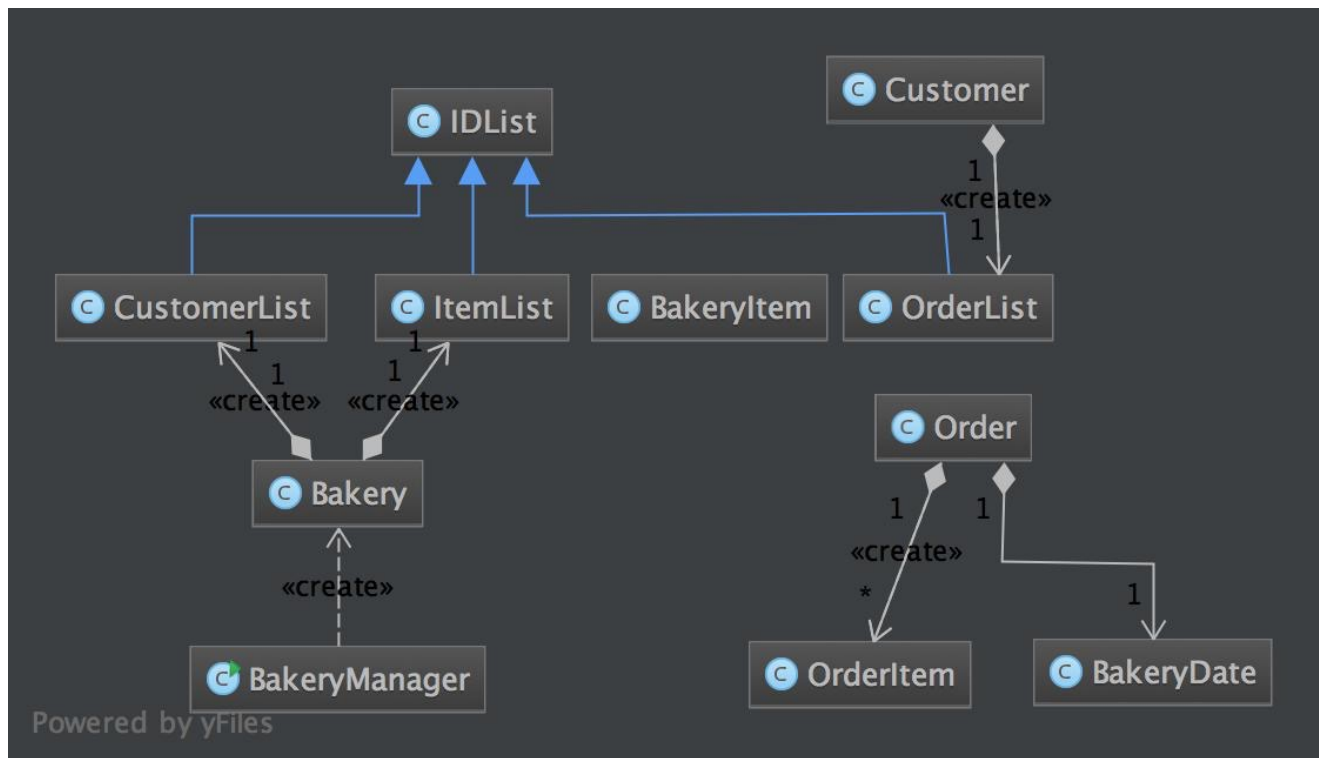
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- The system shall allow the user to enter additional items that the bakery sells.
 - The system shall allow the user to modify a client's information.
 - The system shall allow the user to view all of the bakery items and their prices without placing an order.
 - The system shall allow the user to view all of the orders for a particular user.
 - The system shall respond within a reasonable amount of time, such as ten seconds, when there are under 1,000 customers and 1,000 bakery items.
 - The system shall allow for the import of the current state in two files, in the same format as those provided by the bakery owner.

MODULE DEPENDENCY DIAGRAM



UML DIAGRAM





TEAM MEMBER CONTRIBUTIONS

Both team members, Brian Desnoyers and Lucas Magee, worked on the requirements and specifications together at the same time on the same computer.

They worked together on most of the implementation with Brian Desnoyers focusing mostly on the GUI design and black box testing and Lucas Magee working on additional documentation and white box testing.