TAP & TAKE

Project proposal

PROG 24178
Group Name: AL
Professor: Paul Bonenfant
Hamnah Atif - File I/O developer
Xiaoyu Liang - UX developer

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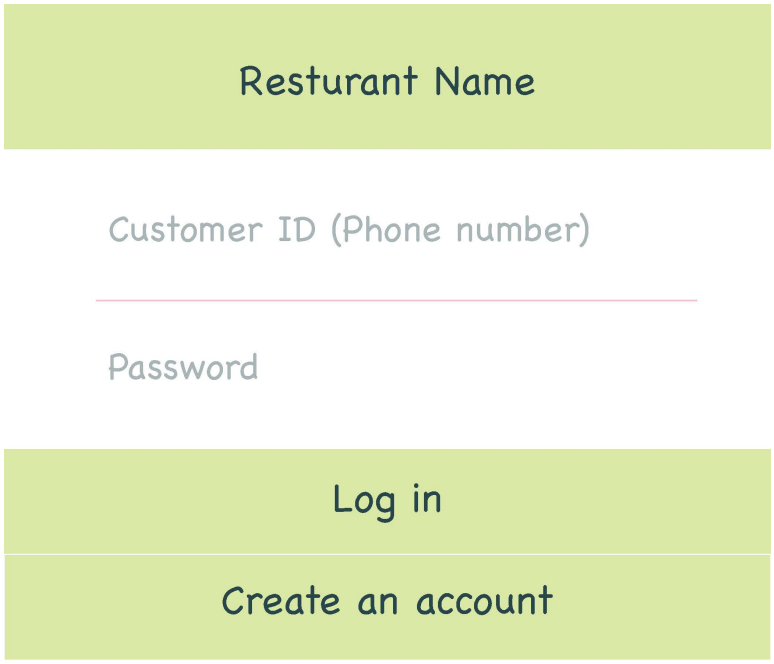
Introduction

Our application is going to be an online food restaurant. With the help of latest technology and Java FX, we will be helping people to save their precious time. Instead of standing in long lines waiting for food for hours, customers will be able to order food online at their ease and can pick it up within few minutes.

Targeted Audiences

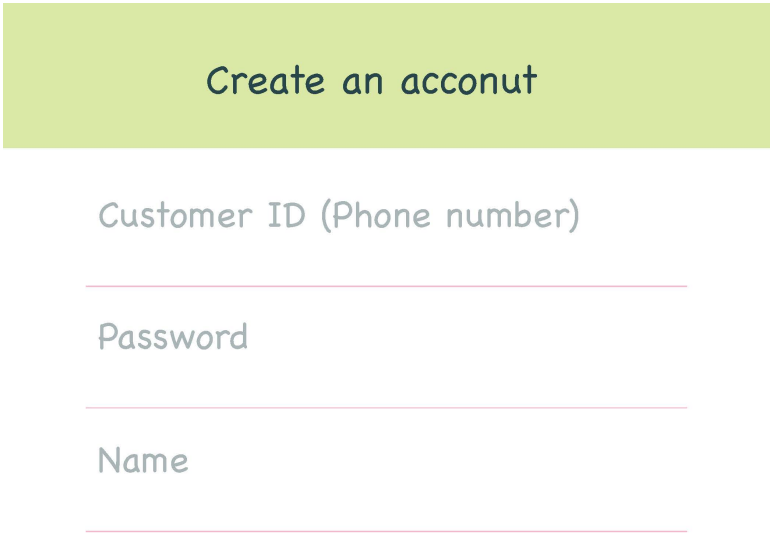
Our main targeted audience typically would be students and working peoples. This is because generally students and working people tend to have very minimal time in which they have to eat and do other important things. Otherwise, in general, anyone residing in Oakville can be the user of our application. It can be community members, seniors, etc.

Sketches



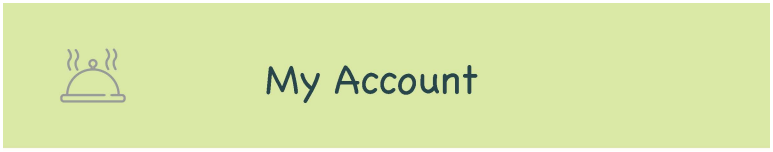
First Page: Login Screen

This is a login screen for customers that have already registered in our system before.



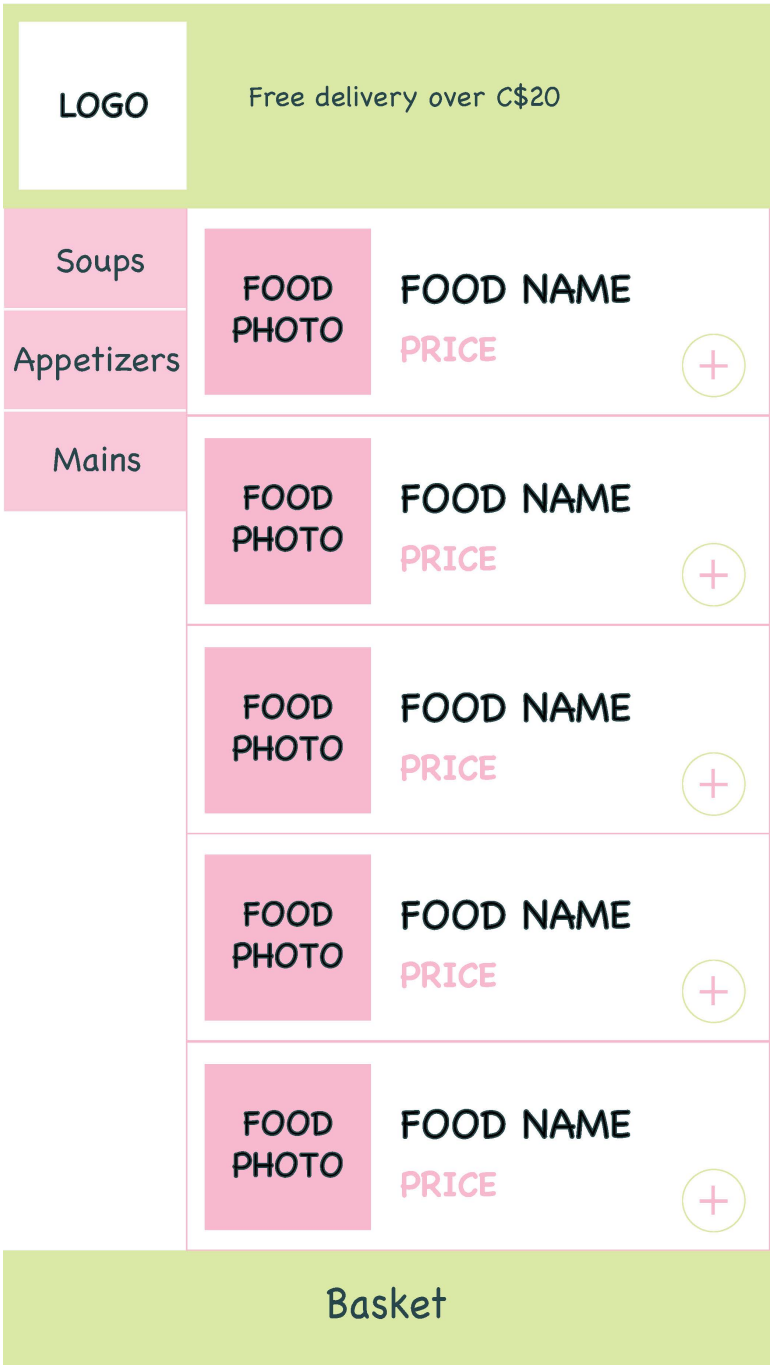
Second page: Create an Account Screen

The second screen is for users who do not have an account, the screen will bring them to this registration page.



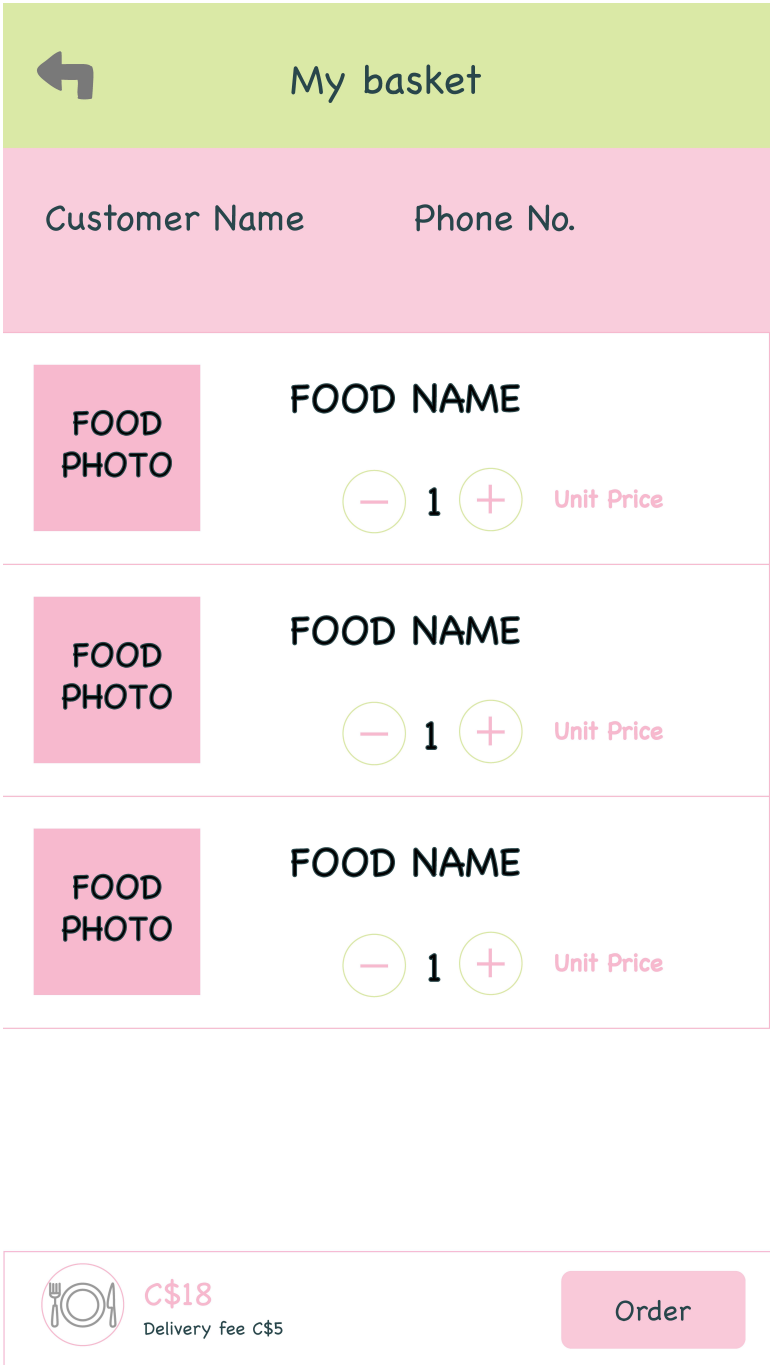
Third page: My Account Screen

The third screen will have three buttons, view account information, place a new order and view the history.



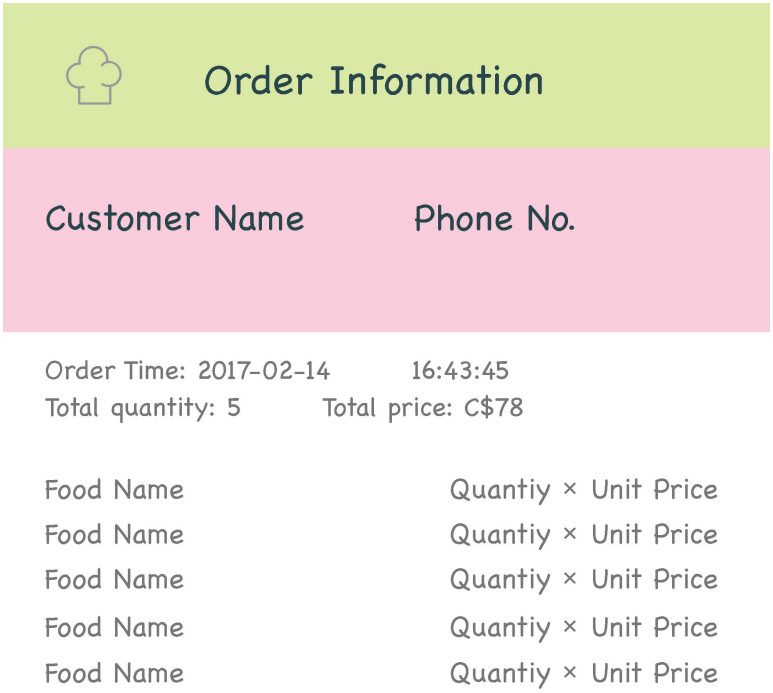
Fourth page: Menu Screen

The fourth screen will list the menu with prices. Plus button will take the user to next screen, to place an order.



Fifth page: Order Screen

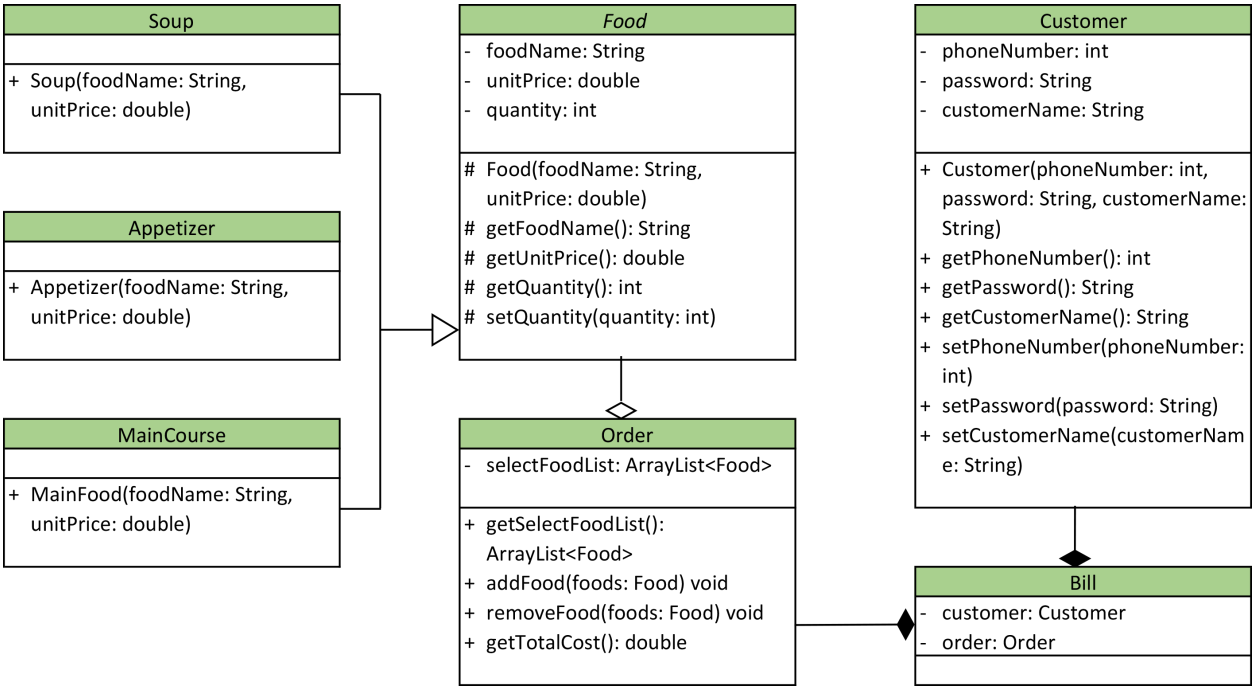
This screen will take confirm the order on and then will return back to the menu page.



Sixth page: Receipt Screen

This is the last screen which will display the receipt to the customer with their name, phone number, order list, quantity and total cost.

UML Diagram



OOP Choices

To build our application, we will use a Customer class to gather the customer's data. There will be an abstract class called Food which will further be acquired by three sub-classes: Soup, Appetizer, and MainCourse. There will be an Order class which will have an ArrayList of Food. In this application, there will be one aggregated relationships and two composition relationship.

- Order class has an aggregated relationship with Food class
- Customer class has a composition relationship with Bill class.
- Order class has a composition relationship with Bill class.

In one order, it can have different food. But in a bill, only one customer’s information can be showed on this bill and the bill only contains one order list.

Structure of Data

Our app will be reading and writing the structure of data in a CSV format. There will be two separate files for input and output of data structure. The input will be our food list that will be

saving in the file. The output will be our existing customer's information i.e. their name and phone number which will display on the receipt screen.