

TAP & TAKE

Project proposal

PROG 24178

Group Name: AL

Professor: Paul Bonenfant

Hamnah Atif - File I/O developer

Xiaoyu Liang - UX developer

Table of Contents

Introduction	1
Targeted Audiences.....	1
Sketches.....	2
UML Diagram	8
OOP Choices.....	8
Structure of Data.....	8

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

A sketch of a login screen layout. It features a light green rectangular box at the top containing the text "Resturant Name". Below this box, the text "Customer ID (Phone number)" is displayed, followed by a horizontal pink line. Under the line, the text "Password" is shown. At the bottom of the sketch, there are two stacked light green rectangular buttons. The top button contains the text "Log in", and the bottom button contains the text "Create an account".

First Page: Login Screen

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

Create an account

Customer ID (Phone number)

Password

Name

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.



My Account

Customer Name
Welcome!

ID:XXXXXXXX

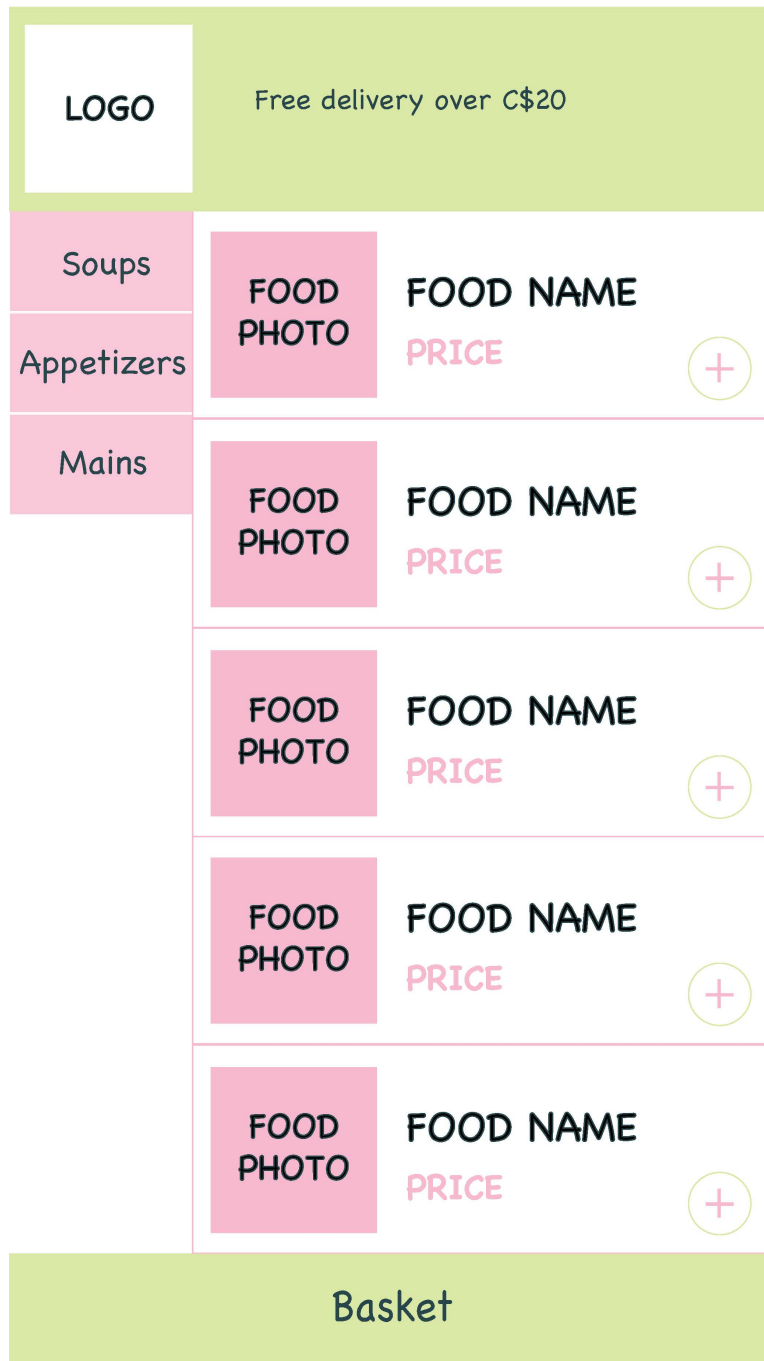
My information

New order


Order History

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.

 My basket

Customer Name

Phone No.

FOOD PHOTO

FOOD NAME

—

 1

+

 Unit Price

FOOD PHOTO

FOOD NAME

—

 1

+

 Unit Price

FOOD PHOTO


FOOD NAME

—

 1

+


 Unit Price

 C\$18
Delivery fee C\$5

Order

Fifth page: Order Screen

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

 **Order Information**

Customer Name

Phone No.

Order Time: 2017-02-14

16:43:45

Total quantity: 5

Total price: C\$78

Food Name

Quantiy × Unit Price

Food Name

Quantiy × Unit Price

Food Name

Quantiy × Unit Price

Food Name

Quantiy × Unit Price

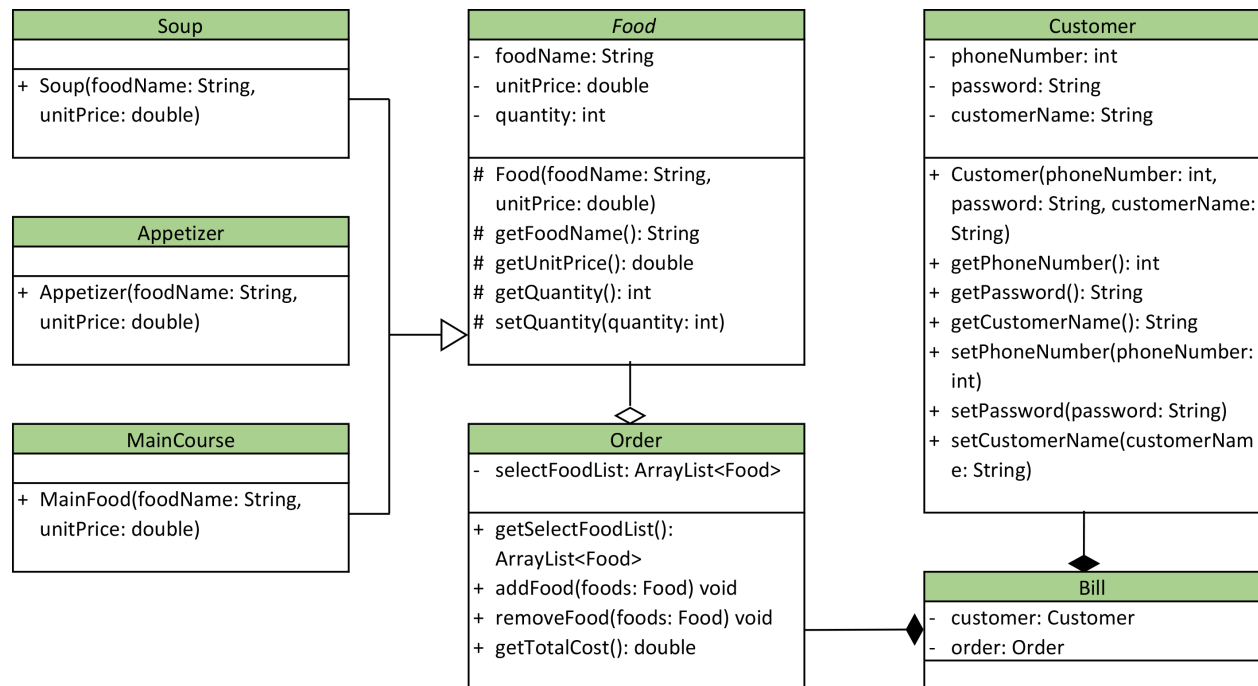
Food Name

Quantiy × Unit Price

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.