# Custom Program Plan

Name: Alison Dwyne Gonzales Abuan

Student ID: 102777652

1. Provide a summary of your program, maybe write up a paragraph or two to describe what does it do? What are some of the key features etc.

Customer menu and billing is the main concept of the project. Like one’s used at self-service kiosks, the system is customer focused allowing self-service with minimal human interaction apart from payment. To make it user friendly to those that are not IT-literate, a GUI is implemented for ease of access. Additionally, customizability is a key objective with this project. It should be a fluid system that allows changes to things such as menu items allowing users to have choices. The restaurants theme of this project is focused on western menus such as main dishes, burgers, sides and drinks

Main features are as follows:

* User-friendly and modern GUI using GTK library
* Easy implementation
* Customizability of menu items (such as additions and comments)
* Efficient and Dynamic system
* Automatic bill creation

1. Drawing a picture of what you want it to look like, sketch the first few interfaces that will be shown when the program is run. A screenshot of a computer screen

   Description automatically generated
2. List and describe some of the main data types:

|  |  |  |  |
| --- | --- | --- | --- |
| Field Name | Data Type | Description | Example of value |
| Total Price | Float | The total price of food | 15.00RM |
| Individual Price | Float | Pricing of individual food | Burger: 7.50 RM |
| Food Name | Char | Names of food | “Burger” |
| Customize | Int | Depending on the food, they will have individual customizations | If a burger has cheese, the cheese could be customized from 1 cheese to 3 (Of course the price will adjust accordingly) |

1. Describe the main functions and procedures. Have enough that you can start to see how the program will continue to develop as you progress. (eg: initialize, draw, update etc)

|  |  |
| --- | --- |
| Function /Procedure/Method | Description |
| Intialize | Initializing the window and starting the state for GUI |
| Update | In the case of events such as selection, the program and more importantly the GUI needs to update the screen and display with the changes |
| Total price | Total all the item pricing and display in Currency |
| Create txt file | Create a txt file using variables such as items ordered and Total price to create an itemized receipt that can be read by other applications |