



Progress Report No. 5 Food Ordering Sytem	
Course Code: CpE201L	Program: Bachelor of Science in Computer Engineering
Course Title: Data Structure and Algorithm	Date Performed: October 10, 2025
Section: BSCpE 2A	Date Submitted: October 10, 2025
Name: Catahan, Joshua A. Directo, Hannah Thea B. Eulin, Ryan Bertrand B. Hermosura, Leigh B.	Instructor: Engr. Maria Rizette H. Sayo
1. Objectives	
<ul style="list-style-type: none">• To apply the linear data structure on our program.• Showcase the progress of our program.• Practice the fundamentals and implementation of back-end, front-end, as well as linear data structure.	
2. Discussion	
<p>In this program we use SQLAlchemy in the development of our backend. We also have 2 different front-end; one for the admin and one for the client/user. Our program have a feature log-in interface which if the admin log-in in the client log in interface, it's automatically goes for the admin interface. In the admin side, it has a feature of Add menu which is connected to our database. When the customer order a food, it will appear in the admin side, which follows the Queue linear data structure (FIFO), wherein the first customer who order the food will appear first before the other customer.</p> <p>Discuss here the relevant concepts of the activity in your own words.</p>	
3. Materials and Equipment	
<ul style="list-style-type: none">• Desktop/Device: It is important to have a device so you can program• Operating Sytem: Operating system are essential since you cannot use your device without it.• Python and HTML IDE: You may use Visual Studio Code• IP Address: This will be used to try your website.	
4. Procedure	
<ul style="list-style-type: none">• We use SQLAlchemy to store the order in our database, following the queue (FIFO).• We Add the feature to the Admin side to add, remove, and update their products.• Use a QUEUE (FIFO) to avoid the customer to wait longer even they are the first to order. This compromise the data handling and organizing the data to our	



program.

- Import program to develop our backend for customer order and product updating, removing, adding of the admin.

```
from flask import Flask, request, jsonify
from flask_sqlalchemy import SQLAlchemy
from flask_cors import CORS
from werkzeug.security import generate_password_hash, check_password_hash
import json
import jwt
import datetime
from functools import wraps
from flask import render_template
import os
from dotenv import load_dotenv
import re
from flask import send_file
```

5. Output



11:28 AM 9.8 K/s 40%

gly.ngrok-free.dev + 13

KainMami

Welcome to KainMami

Your favorite meals, delivered fast!

Sign In

Username

Password

Sign In

Don't have an account? [Register here](#)

Figure 1.0 Log-in Interface in website



UNIVERSITY OF CALOOCAN CITY
COLLEGE OF ENGINEERING
Phase 8A Package 11, Block 199, German Village, barangay 176 Bagong
Silang, Caloocan City, 1428



6. Conclusion

In conclusion, the program we added will be a great help in organizing and handling the data, especially for the admin and the customer. It features adding, removing, updating the product on the admin side. This will make their product to be more organized in the customer choosing the product/food they will buy.