Project Description:

The project involves the implementation of two tables: one for customers and another for orders. The customers' table contains details such as a generated ID and name, and additional customizable fields like email addresses and contact numbers. The orders table is linked to the customers table through a Customer ID, which acts as a primary key. This project can be utilized as a customer and order database for a retail service or a similar application.

Web App Functionality:

The web app facilitates the management of the relationship between customers and orders. It provides administrative access for editing and making necessary changes. Access controls are implemented, allowing the administrator to specify which users can access specific tables. This functionality proves useful in scenarios where efficient management of customer and order data is paramount.

Need for Two Tables:

The web application requires at least two tables to establish a relational database. This relationship is akin to a login and password page, connecting multiple tables through a primary key attribute. In this case, the two tables (customers and orders) are interconnected by the Customer ID, serving as a key component for maintaining data integrity and coherence. Having two tables allows for a more structured and efficient representation of the relationship between customers and their associated orders.

Database and Access Method Decisions:

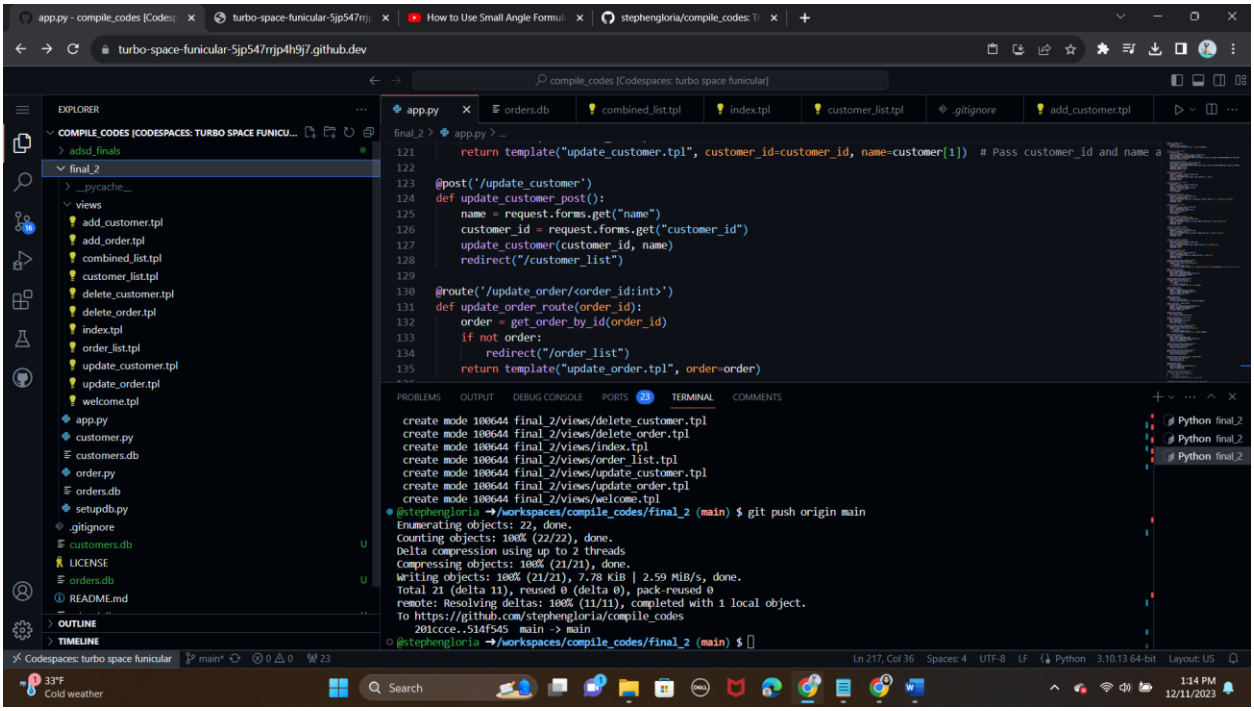
The decision to choose the database was based on the assignment's criteria, emphasizing CRUD activities and the use of two tables. The choice of a customers and orders database was intentional, aiming for simplicity and relevance to everyday online experiences. This structure enables a straightforward demonstration of CRUD operations. The access method was designed to align with the project's requirements, allowing the administrator to control and define access privileges. This decision was made to ensure secure and tailored access to the tables based on specific user roles. shopping or selling. This made me choose the database idea overall.

Provide your source code for the project, clearly indicating the location of the code – 3

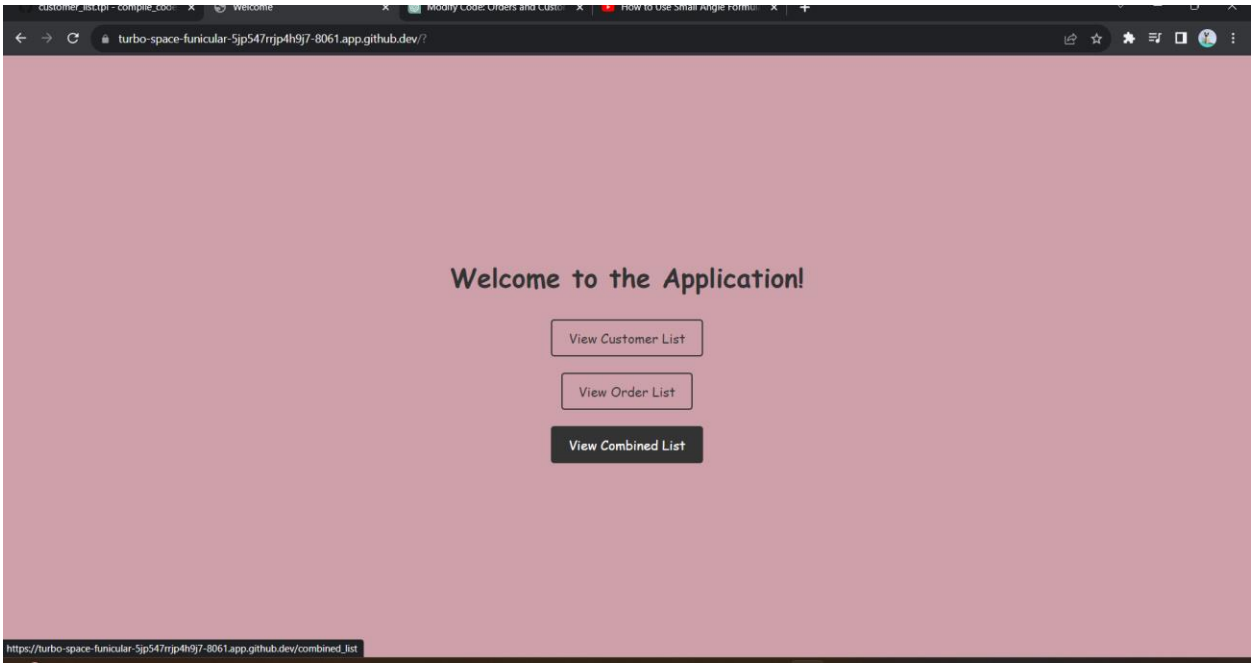
- The source code for the project is from:
    - https://github.com/gregdelozier/advanced-database
    - https://github.com/gregdelozier/advanced-database/tree/main/beta
- Provide a link to the repository containing the code:
    - **The GITHUB LINK**: https://github.com/stephengloria/compile_codes

- Following is the embedded screenshots for the web application running and performing CRUD activities.

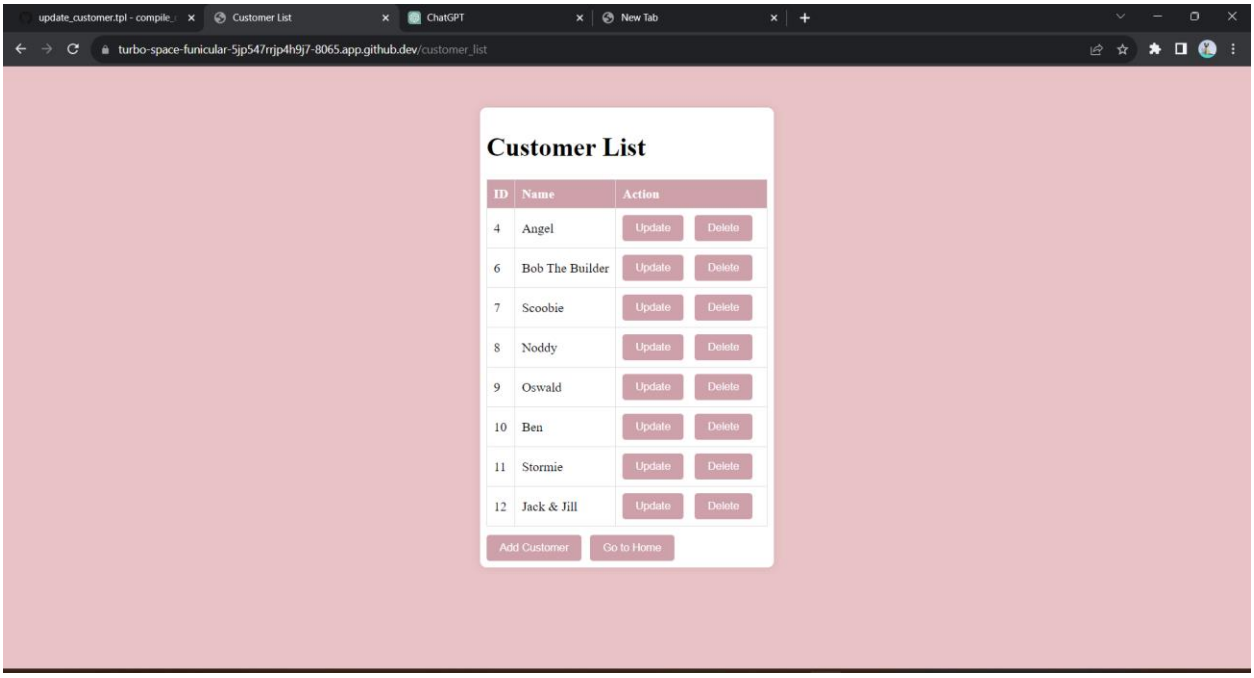
This is a screenshot of the code running and to show the connecting of app.py



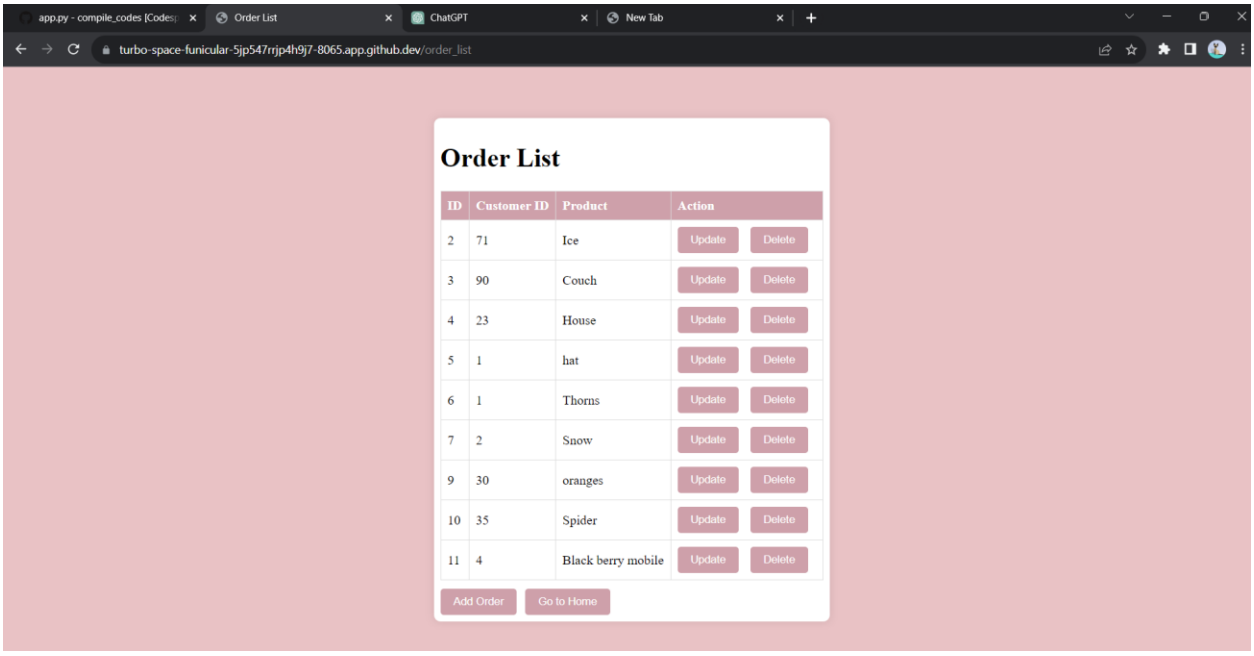
The Welcome Page



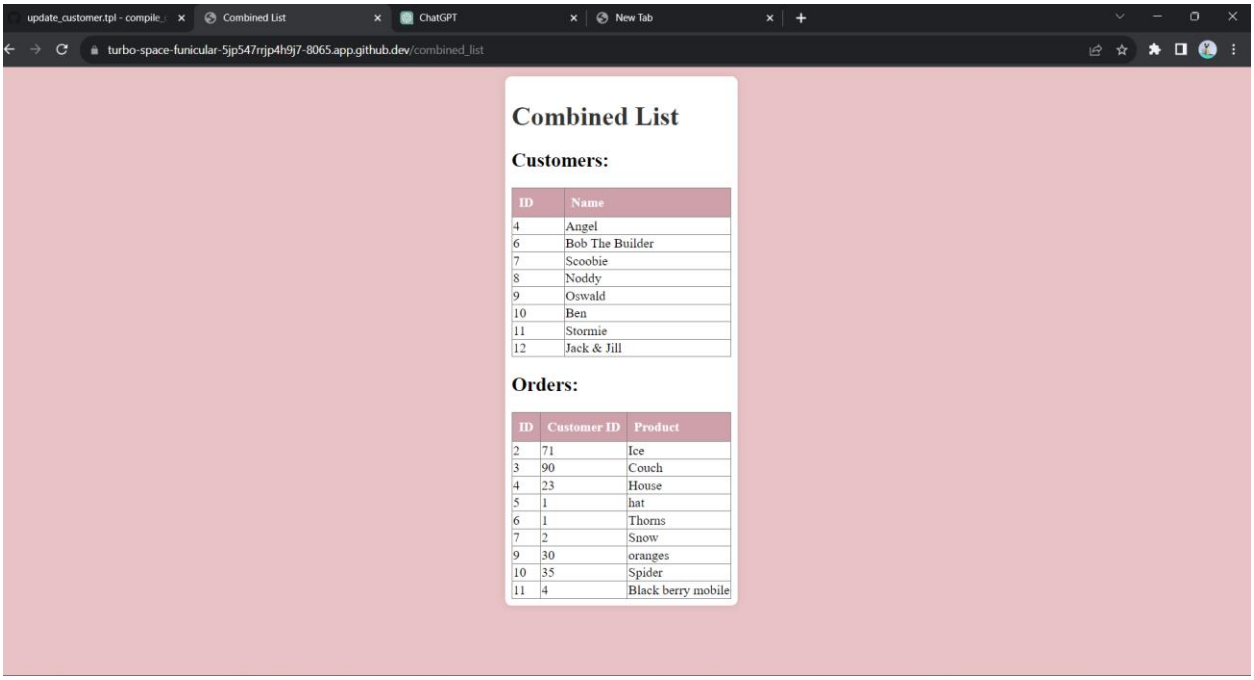
CUSTOMERS LIST



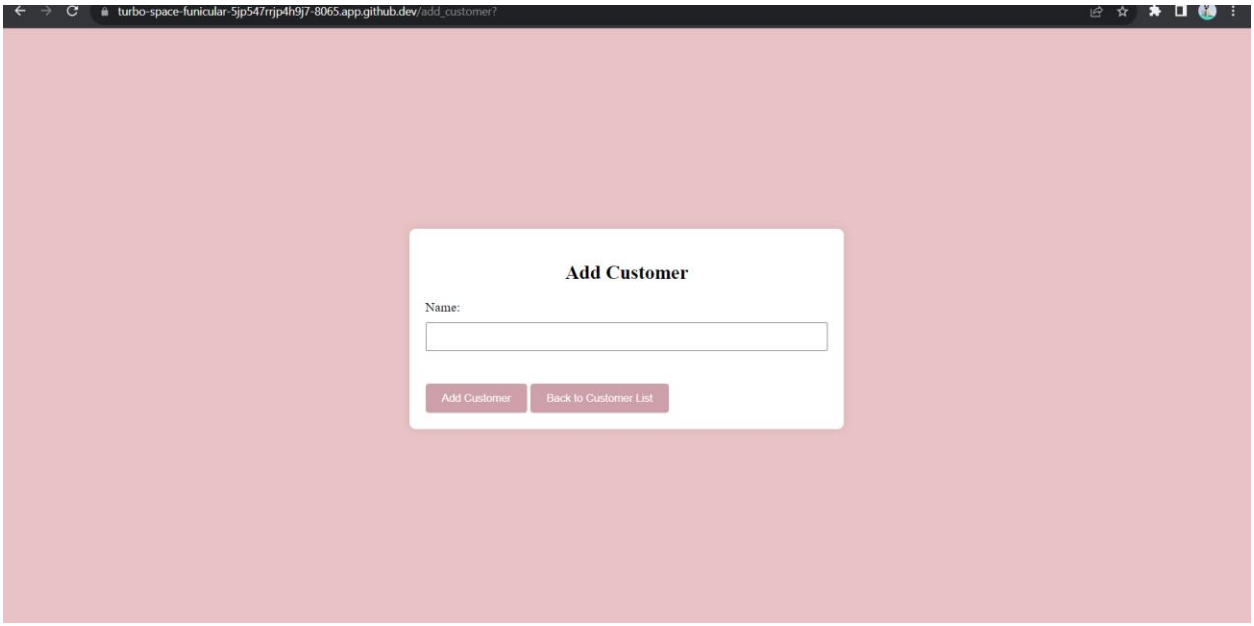
ORDER LIST-



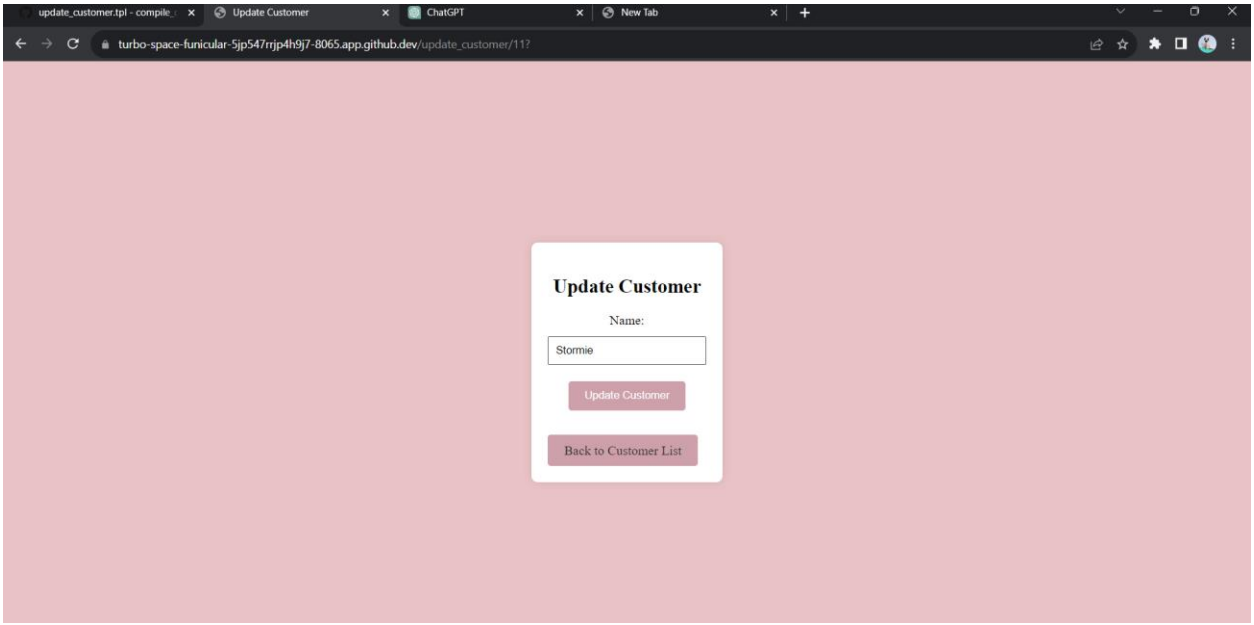
COMBINED LIST- SHOWING THE 2 TABLES



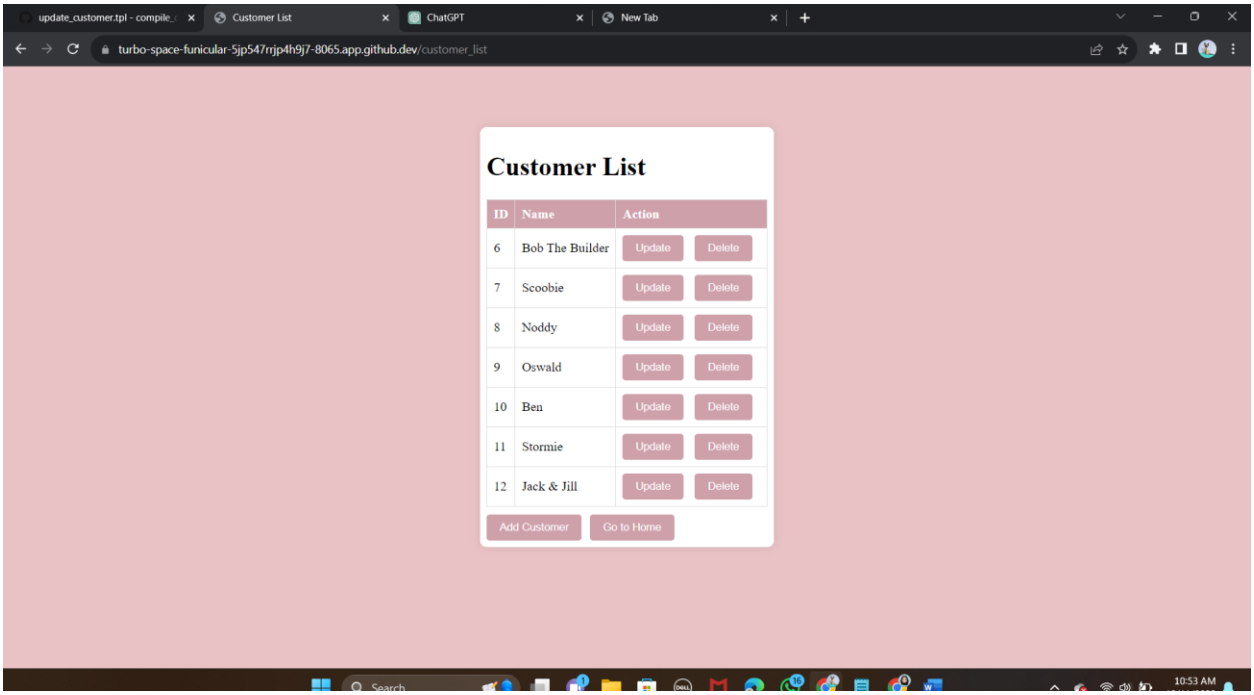
1(a) Add customer



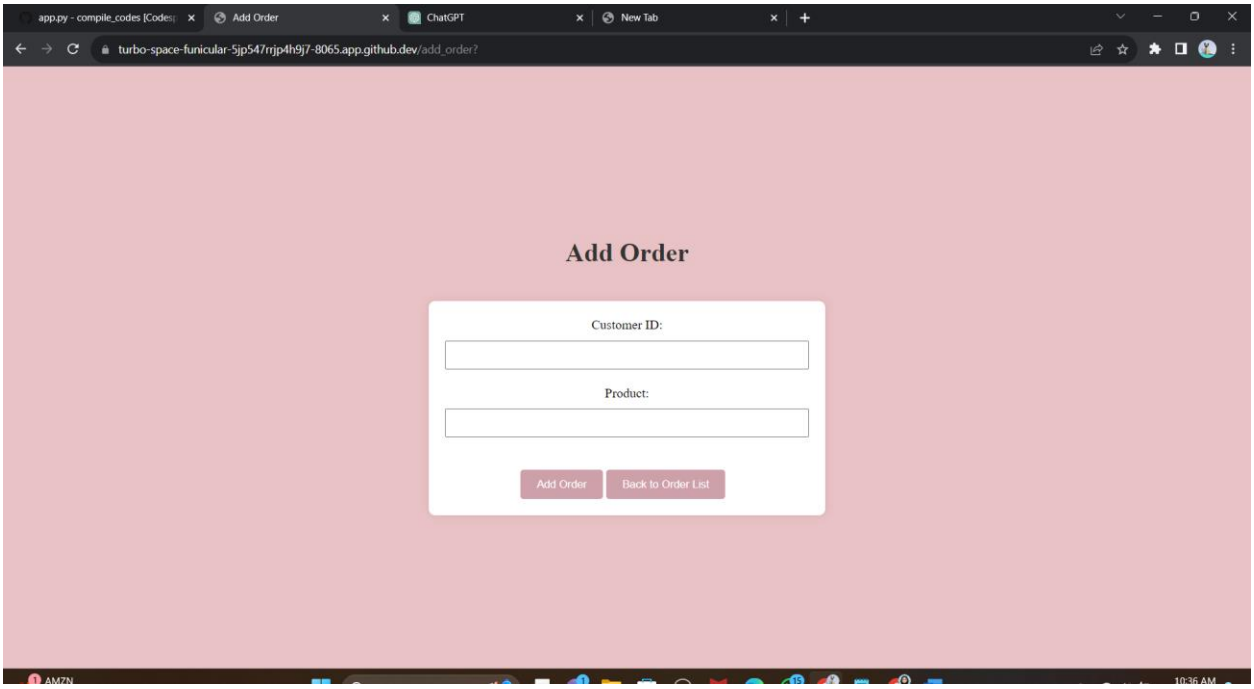
2(b) Update the customer



2 (c) Delete Customer – Deleted the customer Angel



2(a) Add Order



2 (b) Update Order