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Final Project Write Up

**Business Problem**

There are several different ways to order food online in today’s world, many of those allow the user to order food from many different restaurants on the same application. The issue with this is that there is no way for the users to compare items from each of these different restaurants. This system means that the only way for a user to accurately compare the different restaurants, he/she/they would have to try every restaurant or compare menu details by looking up each menu one by one. I believe that this lack of clarity is a major oversight by these companies and users would benefit greatly by being able to compare individual items across all restaurants in the system.

**Executive Summary**

The plan is to create a fast-food ordering system like door dash or uber eats, but with some upgrades to the user’s ability to search for items. My application will allow for the user to search for a given item, and they will receive the price, calories, and quality of that item across all restaurants as well as all the combos that contain that item.

**Technical Specs**

Source Files:

* connect.py:
  + Allows the user to connect to the database that includes all the pre-loaded restaurant, customer, and manager information.
* operations.py:
  + Contains all the database operations that are utilized in the app.
  + Operations include database population, printing of tables, manipulation of tables, queries, and other operations specific to the application homepage.
  + Connects to connect.py
* app.py:
  + Main homepage and functionality of the app
  + Connects to operations.py
  + Root User Menu:
    - Show tables
    - Get total orders/earnings by restaurant
    - Get total items ordered across all restaurants
    - Create new restaurant
    - Create new manager
  + Manager Menu: \*all functions relate to manager’s assigned restaurant
    - Get items ordered
    - Get combos ordered
    - Show total earnings
    - Show customers who placed an order
    - Add new item
    - Add new combo
  + Customer Menu: \*Note all new users are defaulted to customer
    - Start new order
    - View past orders
    - Check rewards points
    - Find specific item across all restaurants
    - Get combo details

Link to Database Info:

* <https://lucid.app/lucidchart/0256bbab-f735-4455-baee-837933beda9d/edit?invitationId=inv_0a230fbe-35ab-43a7-89d8-25a2c7b06d10>

Usage:

* For a user to run the program, they need access to the terminal and the files. They need to just then run the app.py file and follow all the given prompts.