

**Project Name : Food Ordering App**

You have to design a Food Ordering app for a restaurant.

The application will have a log-in for admin and users.

**Admin will have the following functionalities:**

1. Add new food items. Food Item will have the following details:
2. FoodID //It should be generated automatically by the application.
3. Name
4. Quantity. For eg, 100ml, 250gm, 4pieces etc
5. Price
6. Discount
7. Stock. Amount left in stock in the restaurant.
8. Edit food items using FoodID.
9. View the list of all food items.
10. Remove a food item from the menu using FoodID.

**The user will have the following functionalities:**

1. Register on the application. Following to be entered for registration:
2. Full Name
3. Phone Number
4. Email
5. Address
6. Password
7. Log in to the application
8. The user will see 3 options:
9. Place New Order
10. Order History
11. Update Profile
12. Place New Order: The user can place a new order at the restaurant.
13. Show list of food. The list item should as follows:

1. Tandoori Chicken (4 pieces) [INR 240]
2. Vegan Burger (1 Piece) [INR 320]
3. Truffle Cake (500gm) [INR 900]
14. Users should be able to select food by entering an array of numbers. For example, if the user wants to order Vegan Burger and Truffle Cake they should enter [2, 3]
15. Once the items are selected user should see the list of all the items selected. The user will also get an option to place an order.
16. Order History should show a list of all the previous orders
17. Update Profile: the user should be able to update their profile.

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### **Solution:**

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### **Imported Libraries**

- 1. csv---**to write the user Registration data into a CSV file created as userdata.csv
- 2. pandas----**to read and verify data for login information after registration and to show inventory and order history to the user
- 3. Datetime-----**to mention order booking date to user
- 4. random and math-----**to auto generate food\_id while adding food items to the inventory

### **Working Procedure:**

First we created 3 py files for admin, user and main to switch between user and admin

## **USER MODULE:**

### **For Registration of user:**

- first I created a function register\_new\_user():
- then used pandas to get the list of user names created already so that there should be no duplicates in the user name since user names are unique

- So I checked for the user name created by user and checked with the list of user names already created the showed an error if the username is already in the list of usernames
- if user name not present in list of usernames then collected all information as per the given guidelines and wrote it into a csv file named userdata.csv

#### **For Login of User:**

- used pandas to read the userdata.csv file and to fetch username entered by user and the corresponding password to verify login
- Showed error message if user entered wrong username or password
- After successful login of user, I showed the user menu with the options mentioned in the guidelines
- Created user\_menu() function which shows the menu to user as per the menu in guidelines

which contains:

1. Place New Order
2. Order History
3. Update Profile

#### **Place New Order:**

- I created inventory.csv file to show user the list of items present in the inventory
- Showed the user the inventory.csv by using pandas data frame
- After showing the inventory to user asked user to select the food item using food id present in the inventory
- Once the food item is selected by user and asked for the quantity required
- Once food item and quantity is selected by user, then again pushed command to confirm the order
- Then created orders.csv file to write the order history of the user into the csv file using csv module with reference to the user name
- And used data and time module to write the date of the booking order

#### **Order History:**

- Once the order is booked by user
- Used pandas to filter the orders booked by user with reference of username (so made username Global to write the user\_name with reference to the order)

#### **Update Profile:**

- Since userdata.csv is already created
- To update profile I appended all the user data into a temporary list by running for loop expect the user logged in
- So asked user to update profile and appended the updated information into the temporary list and write the temporary list again into userdata.csv file using csv module

## **ADMIN MODULE:**

### **For Admin Login:**

- Created set of Admin user id's and password in dictionary data type to authenticate the Admin
- Once Admin is logged in showed Admin menu which includes:

1. view Inventory
2. add Items to inventory
3. Edit Item in Inventory
4. delete Items in Inventory

### **Add items to inventory:**

- First created inventory.csv file to write and read the number of items in the inventory
- Created function called add\_to\_inventory():
- Used csv module to write the inventory provided by Admin writing it into inventory.csv file
- To generate food id used math and random module
- Taken the information from the Admin to add the item into the inventory using csv module
- Running while loop to add items until admin says no to add items to inventory

### **Edit Item in Inventory:**

- First showed the inventory items to Admin using pandas data frame
- Asked Admin to Enter the Food Id which is to be edited
- Asked the new details of input which is to be edited
- Appended into the temporary list including the new edited items
- Write the temp list into inventory.csv file using csv module

### **delete Items in Inventory:**

- First showed the inventory using pandas data frame
- Created function called delete\_item():
- Asked Admin to Enter the Food id which is to be deleted
- Using For loop appended all the food items into a temporary list except the food id entered by Admin
- And write the appended list into the same inventory.csv except the food id entered by Admin

## **MAIN MODULE:**

- Imported both user and Admin module to the Main Module in order to switch between both
- Main module is simple its like the main screen for user and Admin to select the option
- Weather to login as Admin or User
- Once the input is given by user or admin
- Then the key is linked to different functions created in user and Admin modules

The output of my project is uploaded to drive and the video link is provided below kindly check

Link---> [Output Link Press here](#)

-----**THANK YOU**-----