

Python CS500 Final Project (Pizza Store App)

Folder information:

- Submissions have one **Data_layer** folder in which all the class files.
- Second folder is **Design**, in that you can find all the diagram draw.io, PDF and PNG files.
- Other **JSON** files you can see in the submission are the data files of the project.

Running Instruction:

- In the **Data_layer** you can find the '**pizzaApp.py**', first run that file and you can access all the flow of the app from that file.
- Make sure all **JSON** files are there before running the app, because everytime if you do some change in the any item it will affect the json files
- If you find any issue to run the program please connect to me

Test Case:

1. First the you can see the main menu

```
○ ypatel/Documents/Python/SFBU/pizza_app/Project/Data_layer/pizzaApp.py

===!! SFBU Pizza system !!===

=====SFBU Pizza Store=====
1. Ingredient Management
2. SideDish Management
3. Recipe Management
4. Pizza Management
5. Order Management
6. Exit
Please select you choice:
```

2. According to the selected choice you can get other menus for the particular flow like if you select the 1 then you can get the first menu as per below SS

```
○ ypatel/Documents/Python/SFBU/pizza_app/Project/Data_layer/pizzaApp.py

===!! SFBU Pizza system !!===

=====SFBU Pizza Store=====
1. Ingredient Management
2. SideDish Management
3. Recipe Management
4. Pizza Management
5. Order Management
6. Exit
Please select you choice: 1

=== Ingredient Management ===
1. Get list of Ingredient
2. Search Ingredient by name
3. Add New Ingredient
4. Add Ingredient quantity
5. Remove Ingredient quantity
6. Delete Ingredient
7. Exit for Ingredient menu
Please select you choice: █
```

3. Now if we want to see the list of Ingredients the you have to select 1 and you will get the result like

```
=== Ingredient Management ===
1. Get list of Ingredient
2. Search Ingredient by name
3. Add New Ingredient
4. Add Ingredient quantity
5. Remove Ingredient quantity
6. Delete Ingredient
7. Exit for Ingredient menu
Please select you choice: 1

Ingredient Inventory Details

Pepperoni: 50 peas
Hum: 50 peas
Bacon: 50 peas
Mushroom: 50 peas
Onion: 50 peas
Black Olives: 50 pack
Tomato Slices: 50 peas
Extra Cheese: 50 peas
Pineapple: 50 pack(10 peas)
test: 100 testUnit
```

4. Now if we want to see the serach the Ingredients by the name you have to select 2 and you will get the result like this

```
=== Ingredient Management ===
1. Get list of Ingredient
2. Search Ingredient by name
3. Add New Ingredient
4. Add Ingredient quantity
5. Remove Ingredient quantity
6. Delete Ingredient
7. Exit for Ingredient menu
Please select you choice: 2
Please enter name of ingredient: Pepperoni

name: Pepperoni, Quantity: 50, Unit: peas, Reorder Level: 5, Category: toping
```

5. Now if we want to add the new Ingredients then you have to select 3 and you will get the result like this

```
=== Ingredient Management ===
1. Get list of Ingredient
2. Search Ingredient by name
3. Add New Ingredient
4. Add Ingredient quantity
5. Remove Ingredient quantity
6. Delete Ingredient
7. Exit for Ingredient menu
Please select you choice: 3
Please enter name of ingredient: Milk
Please enter quantity of ingredient: 50
Please enter unit of ingredient: liter
Please enter reorder level of ingredient: 5
Select the category of the Ingredient:
A. base
B. toping
Please select you choice: a

Ingredient added successfully
```

6. Now if we select 2 from the main menu then you will get the menu for side dish menu

```
===!! SFBU Pizza system !!===

=====SFBU Pizza Store=====
1. Ingredient Management
2. SideDish Management
3. Recipe Management
4. Pizza Management
5. Order Management
6. Exit
Please select your choice: 2

=== SideDish Management ===
1. Get list of SideDish
2. Search SideDish by name
3. Add New SideDish
4. Add SideDish quantity
5. Remove SideDish quantity
6. Delete SideDish
7. Exit for SideDish menu
Please select your choice: █
```

7. Same as the ingredient if you select 1 then you will get the list of side dishes

Side Dish Inventory Details

```
Caesar Salad(50): $10
Tossed Salad(50): $10
Assistant Pop(50): $10
Assistant Juice(50): $10
Water(50): $10
Cookies(50): $10
Cookies1(150): $10
```

8. You can search the dish by the name as well as you can add new dishes by giving proper choice as well if you want to add some more quantity then you can do that as will see the below screenshot for that

```
Water(50): $10
Cookies(50): $10
Cookies1(150): $10

=== SideDish Management ===
1. Get list of SideDish
2. Search SideDish by name
3. Add New SideDish
4. Add SideDish quantity
5. Remove SideDish quantity
6. Delete SideDish
7. Exit for SideDish menu
Please select your choice: 4
Please enter name of sideDish: Cookies
Please enter new added quantity of ingredient: 10

SideDish quantity added successfully

=== SideDish Management ===
1. Get list of SideDish
2. Search SideDish by name
3. Add New SideDish
4. Add SideDish quantity
5. Remove SideDish quantity
6. Delete SideDish
7. Exit for SideDish menu
Please select your choice: 2
Please enter name of sideDish: Cookies
Name: Cookies, Quantity: 60, Price: 10, Reorder level: 2, Description: Cookies Description, Category: desserts
=== SideDish Management ===
```

9. Same previous flow you can remove the quantity as well and you can delete the dish from the inventory

Side Dish Inventory Details

```
Caesar Salad(50): $10
Tossed Salad(50): $10
Assistant Pop(50): $10
Assistant Juice(50): $10
Water(50): $10
Cookies(50): $10
Cookies1(150): $10
```

10. By selecting the 3 from the main menu you will get the menu to manage the recipe of the pizza.

```
=====SFBU Pizza Store=====
1. Ingredient Management
2. SideDish Management
3. Recipe Management
4. Pizza Management
5. Order Management
6. Exit
Please select you choice: 3
```

```
=== Recipe Management ===
1. Get list of Recipes
2. Search Recipe by name
3. Add New Recipe
4. Delete Recipe
5. Update the Recipe
6. Exit for Recipe menu
Please select you choice: █
```

11. By selecting the 1 from the recipe menu you will get the list of recipe with the ingredients.

```
=== Recipe Management ===
1. Get list of Recipes
2. Search Recipe by name
3. Add New Recipe
4. Delete Recipe
5. Update the Recipe
6. Exit for Recipe menu
Please select you choice: 1
```

Recipe Inventory Details

```
Recipe name: test1, Ingredients: {'Pepperoni': 4, 'Hum': 4}
Recipe name: test4, Ingredients: {'Onion': 15, 'Black Olives': 3}
Recipe name: test3, Ingredients: {'Mushroom': 4, 'Onion': 5}
```

12. You can add update and delete the recipe fby selecting proper choice.

```
=== Recipe Management ===
1. Get list of Recipes
2. Search Recipe by name
3. Add New Recipe
4. Delete Recipe
5. Update the Recipe
6. Exit for Recipe menu
Please select you choice: 3
Please enter name of Recipe: test100
Ingredient list :

Ingredient Inventory Details

Pepperoni: 50 peas
Hum: 50 peas
Bacon: 50 peas
Mushroom: 50 peas
Onion: 50 peas
Black Olives: 50 pack
Tomato Slices: 50 peas
Extra Cheese: 50 peas
Pineapple: 50 pack(10 peas)
test: 100 testUnit
Milk: 50 liter
Please enter the name of the ingredient : hum
Please enter the quantity of the ingredient for the test100 : 10
Do you want add the Ingredient in the recipe? [Y/N]: y
Ingredient list :

Ingredient Inventory Details

Pepperoni: 50 peas
Hum: 50 peas
Bacon: 50 peas
Mushroom: 50 peas
Onion: 50 peas
Black Olives: 50 pack
Tomato Slices: 50 peas
Extra Cheese: 50 peas
Pineapple: 50 pack(10 peas)
test: 100 testUnit
Milk: 50 liter
Please enter the name of the ingredient : bacon
Please enter the quantity of the ingredient for the test100 : 20
Do you want add the Ingredient in the recipe? [Y/N]: n

Recipe added successfully
```

```
=== Recipe Management ===
1. Get list of Recipes
2. Search Recipe by name
3. Add New Recipe
4. Delete Recipe
5. Update the Recipe
6. Exit for Recipe menu
Please select you choice: 2
Please enter name of recipe: test100
Recipe name: test100, Ingredients: {'Hum': 10, 'Bacon': 20}
```

```
=== Recipe Management ===
1. Get list of Recipes
2. Search Recipe by name
3. Add New Recipe
4. Delete Recipe
5. Update the Recipe
6. Exit for Recipe menu
Please select you choice: 4
Please enter name of recipe: test100

Recipe deleted added successfully

=== Recipe Management ===
1. Get list of Recipes
2. Search Recipe by name
3. Add New Recipe
4. Delete Recipe
5. Update the Recipe
6. Exit for Recipe menu
Please select you choice: 1

Recipe Inventory Details

Recipe name: test1, Ingredients: {'Pepperoni': 4, 'Hum': 4}
Recipe name: test4, Ingredients: {'Onion': 15, 'Black Olives': 3}
Recipe name: test3, Ingredients: {'Mushroom': 4, 'Onion': 5}
```

14. When you add new recipe it will show you the list of the ingredients to add in the recipe and after add the name it will check the given name is there or not then ask for the quantity of the selected ingredient and then program add the ingredient in the recipe with the given quantity and then ask that second ingredient if you want to add the you have to write the y and same same process will run here.

15. Here I did not check for the remaining quantity of the inventory when user try to add the quantity for the ingredient in the recipe

16. By selecting the 4 from the main menu you will get the menu to manage pizza

```
=== Pizza Management ===
1. Get list of Pizza
2. Search Pizza by name
3. Add New Pizza
4. Delete Pizza
5. Exit for Pizza menu
Please select your choice: █
```

```
=== Pizza Management ===
1. Get list of Pizza
2. Search Pizza by name
3. Add New Pizza
4. Delete Pizza
5. Exit for Pizza menu
Please select your choice: 1
/nPizza Inventory Data
Pizza list: [
{ Name: Vegetarian, Description: Mushrooms, Olives, Onion, Peppers, Tomato, Price: 15.5, Size: Small, Recipe: test1, Category: vegetarian },
{ Name: Vegetarian2, Description: Olives, Onion, Peppers, Tomato, Price: 20.5, Size: Medium, Recipe: test2, Category: vegetarian },
{ Name: Vegetarian3, Description: Onion, Peppers, Tomato, Price: 25.5, Size: Large, Recipe: test2, Category: vegetarian }]
```

```
=== Pizza Management ===
1. Get list of Pizza
2. Search Pizza by name
3. Add New Pizza
4. Delete Pizza
5. Exit for Pizza menu
Please select your choice: 3
Please enter name of Pizza: test
Please enter description of pizza: test description
Please enter basePrice of pizza: 20
Select the size of the Pizza:
A. Small
B. Medium
C. Large
D. Extra_Large
Please select your choice: a
Recipe: ['test1', 'test4', 'test3']

Please enter name of Recipe: test4
Select the category of the Pizza:
A. meat lovers
B. specialty
C. vegetarian
Please select your choice: b
```

Asked details to add new pizza in the inventory

```
=== Pizza Management ===
1. Get list of Pizza
2. Search Pizza by name
3. Add New Pizza
4. Delete Pizza
5. Exit for Pizza menu
Please select your choice: 2
Please enter name of Pizza: test
Name: test, Description: test description, Price: 20.0, Size: Small, Recipe: test4, Category: specialty
```

Result

17. On the 5th number you can get the final order menu where you can list the order and add and delete the order as well as we can search the order by customer name and order Id.

```
=====SFBU Pizza Store=====
1. Ingredient Management
2. SideDish Management
3. Recipe Management
4. Pizza Management
5. Order Management
6. Exit
Please select you choice: 5

=== Order Management ===
1. Get list of Order
2. Search Order by name
3. Search Order by order Id
4. Add New Order
5. Delete Order
6. Exit for Order menu
Please select you choice: █
```

17. By selecting 1 you can able to see the list of order with all the details including list of Pizza and list of side dish followed by total bill price.

```
=== Order Management ===
1. Get list of Order
2. Search Order by name
3. Search Order by order Id
4. Add New Order
5. Delete Order
6. Exit for Order menu
Please select you choice: 1

Orders Details
Orders : [
{
  Order ID: 101
  Order Delivery date: 12/31/2023
  Order Delivery time: 11:59 PM
  Customer's Name: test101
  Customer's Email: t101@gmail.comm
  Customer's Phone Number: 123456789
  Compony: C_test101
  Order Pizza:
    { Name: Vegetarian(Small), Description: Mushrooms, Olives, Onion, Peppers, Tomato } * Quantity: 1 -> Price: 15.5
  Order Side Dishes:
    Name: Caesar Salad * Quantity: 3 -> Price: 30
  Total price: 45.5
},
{
  Order ID: 102
  Order Delivery date: 12/23/2023
  Order Delivery time: 11:12 AM
  Customer's Name: test
  Customer's Email: test
  Customer's Phone Number: test
  Compony: test
  Order Pizza:
    { Name: Vegetarian(Small), Description: Mushrooms, Olives, Onion, Peppers, Tomato } * Quantity: 1 -> Price: 15.5
  Order Side Dishes:
    Name: Cookies1 * Quantity: 10 -> Price: 100
  Total price: 115.5
}]
```

18. Here total Price is calculated by the pizza * quantity where the pizza price is different for each size os, when user create the order I am asking that select the size of the pizza and then it will store for that rder and and as per that customer can able to see the price.

19. Also we give the option to the user to customize their own pizza ans for that when you select the option ot add new order so in that proceess it will ask you that do you want to add cutom pizza and then you can add the custom pizza. For more detials see the bellow screenshort.

```
4. Add New Order
5. Delete Order
6. Exit for Order menu
Please select you choice: 4
Enter customer name : test
Enter customer email : test
Enter customer phone number : test
Enter customer compony name : tset
Enter order delivery date (MM/DD/YYYY): 12/31/2023
Enter order delivery time (HH:MM AM): 11:12 AM
SideDishes : ['Caesar Salad', 'Tossed Salad', 'Assistant Pop', 'Assistant Juice', 'Water', 'Cookies', 'Cookies1']

Please enter name of SideDish: Assistant Juice
Please enter the quantity of the side dish for the Assistant Juice : 2
Do you want to add other the side dish in the order? [Y/N]: n
1) Name: Vegetarian, Size: Small, Description: Mushrooms, Olives, Onion, Peppers, Tomato -> Price: $15.5
2) Name: Vegetarian2, Size: Medium, Description: Olives, Onion, Peppers, Tomato -> Price: $20.5
3) Name: Vegetarian3, Size: Large, Description: Onion, Peppers, Tomato -> Price: $25.5
4) Name: test, Size: Small, Description: test description -> Price: $20.0
Please select the pizza from above list (1 to 4): 1
Select the size of the Pizza:
A. Small
B. Medium
C. Large
D. Extra_Large
Please select you choice: a
Enter the quantity of the pizza : 1
Do you want to add other the pizza in the order? [Y/N]: n
Do you want to add custom pizza in the order? [Y/N]: y
Please enter name of Pizza: test
Please enter description of pizza: testtest
Select the size of the Pizza:
A. Small
B. Medium
C. Large
D. Extra_Large
Please select you choice: a
Recipe: ['test1', 'test4', 'test3']

Please enter name of Recipe: test1
Select the category of the Pizza:
A. meat lovers
B. specialty
C. vegetarian
Please select you choice: b
Enter the quantity of the pizza : 1
Do you want to add other the pizza in the order? [Y/N]: n

!! Order added successfully !!
```

It will not ask to add price because by default I added \$20 for custome pizza

Chek the next Page to see the order list with this new custom order.

20. Above Added custom pizza order which you can see in the order list.

```
Orders Details
Orders : [
{
  Order ID: 101
  Order Delivery date: 12/31/2023
  Order Delivery time: 11:59 PM
  Customer's Name: test101
  Customer's Email: t101@gmail.com
  Customer's Phone Number: 123456789
  Compony: C_test101
  Order Pizza:
    { Name: Vegetarian(Small), Description: Mushrooms, Olives, Onion, Peppers, Tomato } * Quantity: 1 -> Price: 15.5
  Order Side Dishes:
    Name: Caesar Salad * Quantity: 3 -> Price: 30
  Total price: 45.5
},
{
  Order ID: 102
  Order Delivery date: 12/23/2023
  Order Delivery time: 11:12 AM
  Customer's Name: test
  Customer's Email: test
  Customer's Phone Number: test
  Compony: test
  Order Pizza:
    { Name: Vegetarian(Small), Description: Mushrooms, Olives, Onion, Peppers, Tomato } * Quantity: 1 -> Price: 15.5
  Order Side Dishes:
    Name: Cookies1 * Quantity: 10 -> Price: 100
  Total price: 115.5
},
{
  Order ID: 103
  Order Delivery date: 12/31/2023
  Order Delivery time: 11:12 AM
  Customer's Name: test
  Customer's Email: test
  Customer's Phone Number: test
  Compony: tset
  Order Pizza:
    { Name: Vegetarian(Small), Description: Mushrooms, Olives, Onion, Peppers, Tomato } * Quantity: 1 -> Price: 15.5
    { Name: test(Small), Description: testtest } * Quantity: 1 -> Price: 20.0
  Order Side Dishes:
    Name: Assistant Juice * Quantity: 2 -> Price: 20
  Total price: 55.5
}]
```

Thank you