## **Online Food Ordering System:**

• Create a program that simulates an online food ordering system. Users can browse restaurants, view menus, and place orders for delivery or pickup

## introduction:

- An online food ordering system allows your business to accept and manage orders placed online for delivery or takeaway.
- Customers browse a digital menu, either on an app or website and place and pay for their order online.
- Our online ordering system will help you transform your website into a money-making machine.
- No matter how much your business grows, you will always be able to take free unlimited orders with zero costs.
- Power your business with our free restaurant online ordering system & you'll never have to worry about fees or commissions.

```
In [1]: class Restaurant:
            def __init__(self, name, cuisine):
               self.name = name
                self.cuisine = cuisine
               self.menu = []
           def add item to menu(self, item):
               self.menu.append(item)
        class MenuItem:
           menu = {
               "pizza": 3.00,
               "nachos": 4.50,
               "popcorn": 6.00,
               "fries": 2.50,
               "chips": 1.00,
               "pretzel": 5.00,
               "soda": 3.00,
                "lemonade": 4.25
            def display menu(self):
               if not self.menu:
                   print("Menu is empty.")
                   return
               print("-----")
               for key, value in self.menu.items():
                   print(f"{key:10}:${value:.2f}")
               print("----")
            def get user order(self):
               cart = []
               while True:
                   food = input("Select an item (q to quit): ").lower()
                   if food == "q":
                       break
                   elif self.menu.get(food) is not None:
                       cart.append(food)
               return cart
```

```
class Order:
   def __init__(self, restaurant, items, delivery, address):
        self.restaurant = restaurant
        self.items = items
        self.delivery = delivery
        self.address = address
   def calculate total(self):
        total = 0
        for food in self.items:
            total += MenuItem.menu.get(food)
        return total
class OnlineFoodOrderingSystem:
   def init (self):
        self.restaurants = []
   def add restaurant(self, restaurant):
        self.restaurants.append(restaurant)
   def browse restaurants(self):
        print("Available Restaurants:")
        for i, restaurant in enumerate(self.restaurants):
            print(f"{i+1}. {restaurant.name}")
        selection = int(input("Select a restaurant: "))
        if 1 <= selection <= len(self.restaurants):</pre>
            return self.restaurants[selection - 1]
        else:
            print("Invalid selection.")
            return None
   def place order(self, restaurant, items, delivery):
        if delivery:
            address = input("Enter delivery address: ")
        else:
            address = ""
        order = Order(restaurant, items, delivery, address)
       total = order.calculate_total()
```

```
print("Order placed successfully!")
        print(f"Restaurant: {restaurant.name}")
        print("Items:")
        for item in items:
            print(f"- {item}: ${MenuItem.menu.get(item):.2f}")
        print(f"Delivery: {'Yes' if delivery else 'No'}")
        if delivery:
            print(f"Address: {address}")
        print(f"Total: ${total:.2f}")
# Creating restaurants and adding them to the system
system = OnlineFoodOrderingSystem()
restaurant1 = Restaurant("Restaurant A", "Italian")
restaurant1.add item to menu(MenuItem())
restaurant1.add item to menu(MenuItem())
system.add restaurant(restaurant1)
restaurant2 = Restaurant("Restaurant B", "Chinese")
restaurant2.add item to menu(MenuItem())
restaurant2.add item to menu(MenuItem())
system.add restaurant(restaurant2)
# Simulating user interaction
selected restaurant = system.browse restaurants()
if selected restaurant is not None:
    menu item = MenuItem()
    menu_item.display_menu() # Display menu only once
    print()
    selected items = menu item.get user order()
    delivery = True if input("Do you want delivery? (yes/no): ").lower() == "yes" else False
    system.place order(selected restaurant, selected items, delivery)
```

```
Available Restaurants:
1. Restaurant A
2. Restaurant B
Select a restaurant: 2
-----MENU-----
        :$3.00
pizza
nachos :$4.50
popcorn :$6.00
fries :$2.50
chips :$1.00
pretzel :$5.00
soda
        :$3.00
lemonade :$4.25
Select an item (q to quit): popcorn
Select an item (q to quit): pizza
Select an item (q to quit): chips
Select an item (q to quit): fries
Select an item (q to quit): q
Do you want delivery? (yes/no): yes
Enter delivery address: door no:4-23,bcom colony,dharmavaram,ananthapur,515671
Order placed successfully!
Restaurant: Restaurant B
Items:
- popcorn: $6.00
- pizza: $3.00
- chips: $1.00
- fries: $2.50
Delivery: Yes
Address: door no:4-23,bcom colony,dharmavaram,ananthapur,515671
Total: $12.50
```