WSB Merito Chorzów

## Programowanie obiektowe. Zadanie 4. E-sklep

[Document subtitle]

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Link na git: https://github.com/cistakovu00/E-sklep-

ProgramowanieObiektowe.git

Jako projekt do wdrożenia wybraliśmy system zarządzania e-sklepem. Aby zrealizować to zadanie, dodaliśmy następujące klasy i metody do nich:

Product, DiscountProduct, Cart, Customer oraz enum MenuChoices.

```
12 references
public class Product

{
    [JsonProperty]
    2 references
    private int ProductId { get; set; }
    [JsonProperty]
    2 references
    private string Name { get; set; }
    [JsonProperty]
    2 references
    private decimal Price { get; set; }

    2 references
    public Product(int productId, string name, decimal price)...

1 reference
    public int GetProductId()...

1 reference
    public string GetName()...

2 references
    public decimal GetPrice()...
}
```

```
5 references
public class Cart
{
    public List<Product> Products = new List<Product>();

    private static string JsonFileName = "cart.json";

1 reference
    public void AddProduct(Product product)...

1 reference
    public void DisplayCart()...

2 references
    public decimal CalculateTotal()...

4 references
    public static List<Product> DeserializeFromJson()...

1 reference
    public void SerializeToJson(List<Product> productList)...
}
```

```
public enum MenuChoices
{
    Exit = θ,
    AddProduct = 1,
    DisplayCart = 2,
    CalculateTotal = 3,
    PlaceOrder = 4,
    SaveCustomer = 5,
}
```

```
pace Rozetka
                  Oreferences
internal class Program
10
11
                        private static Cart cart = new Cart();
                        static void Main(string[] args)
                              Console.Mrite("Enter your name: ");
string customerName = Console.ReadLine();
Customer customer = new Customer(1, customerName);
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                              while (true)
                                   Console.WriteLine("Menu:");
Console.WriteLine("1. Add Product to Cart");
Console.WriteLine("2. Display Cart");
Console.WriteLine("3. Calculate Total");
Console.WriteLine("4. Place Order");
Console.WriteLine("4. Place Order");
Console.WriteLine("6. Exit");
                                    string choice = Console.ReadLine();
                                     if (Enum.TryParse(choice, out MenuChoices menuChoice))
32
33
                                           switch (menuChoice)
                                                  case MenuChoices.AddProduct:
                                                         AddNewProduct();
                                                  break;
case MenuChoices.DisplayCart:
cart.DisplayCart();
                                                  break;
case MenuChoices.CalculateTotal:
CalculatingTotal();
41
42
                                                 break;
case MenuChoices.PlaceOrder:
customer.PlaceOrder();
                                                  break;
case MenuChoices.SaveCustomer:
                                                        customer.SerializeToJson(customer);
                                                  break;
case MenuChoices.Exit:
49
50
                                                        return;
                                           Console.WriteLine("Invalid choice. Please try again.");
                        1 reference
private static void CalculatingTotal()
68
65
                       1 reference private static void AddNewProduct()...
```

Dodaliśmy również możliwość zapisywania klienta. Gdy użytkownik wybierze opcję Zapisz klienta w menu, klient zostanie zapisany w pliku json o nazwie Customername.json.

Przykład takiego pliku:

```
Ali.json* → X Program.cs
Schema: <No Schema Selected>
              "CustomerId": 1,
              "Name": "Ali",
              "Cart": {
                "Products": [
                    "ProductId": 4112,
                    "Name": "Samsung Galaxy Fold 3",
                    "Price": 3999.99
                    "ProductId": 21233,
                    "Name": "Iphone 12",
    13
                    "Price": 1999.99
                  },
    17
                    "ProductId": 21233,
                    "Name": "Monitor Benq K12",
                    "Price": 800.0
                    "ProductId": 345,
                    "Name": "sadasd",
                    "Price": 123.0
    24
                ĺ
     28 ®
```