

Ecommerce Appliction Mini Project By Using Python

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import csv

products={}

orders={}

def export_orders_to_csv():

    filename="orders.csv"

    file=open(filename,mode='w',newline='')

    writer=csv.writer(file)

    writer.writerow(["Customer Name","Product Name","Quantity","Total Amount"])

    for cname,orders_list in orders.items():

        for order in orders_list:

            writer.writerow([cname,order["product"],order["qty"],order["total"]])

def add_products():

    pid=input("Enter product ID:")

    if pid in products:

        print("Product already exists")

    else:

        name=input("Enter the Product Name:")

        price=float(input("Enter Price:"))

        stock=int(input("Enter Stock Quantity:"))

        products[pid]={"name":name,"price":price,"stock":stock}

        print(products)

def view_products():

    if not products:
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    print("No products available")

else:

    print("Available Products:")

    for pid,details in products.items():

        print(f"ID:{pid},Name:{details['name']},Price:{details['price']},Stock:{details['stock']}")

def place_order():

    pid=input("Enter product Id to buy")

    if pid in products:

        quantity=int(input("Enter Quantity:"))

        if 0<quantity<=products[pid]["stock"]:

            cname=input("Enter your name:")

            total=quantity*products[pid]["price"]

            products[pid]["stock"]-=quantity

            if cname not in orders:

                orders[cname]=[]

            orders[cname].append({

                "product":products[pid]["name"],

                "qty":quantity,

                "total":total

            })

            print(f"order placed! Total:{total}")

        else:

            print("Insufficient Stock or invalid Quantity")

    else:

        print("Product Not Found")
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def view_orders():

    if not orders:

        print("No orders placed")

    else:

        for cname,orders_list in orders.items():

            print(f"\n Orders for {cname}:")

            for order in orders_list:

                print(f"-{order['product']}X{order['qty']}={order['total']}")

def menu():

    while True:

        print("\n E-commerce Application")

        print("1.Add Products")

        print("2.View Products")

        print("3.Place Order")

        print("4.View Orders")

        print("5.Export Orders to csv")

        choice=input("Choose an option(1-3):")

        if choice=="1":

            add_products()

        elif choice=="2":

            view_products()

        elif choice=="3":

            place_order()

        elif choice=="4":

            view_orders()
```

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elif choice=="5":  
    export_orders_to_csv()  
menu()
```