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#Creating a shopping application using python
global_username=None
class Shopping_App:
    def __init__(self,login_database,items_database):
        self.database=login_database
        self.item=items_database
        self.cart_items=[]
        self.payment_options=["Net Banking", "PayPal", "UPI", "Debit
Card"]

    def welcome(self):
        print("Welcome to the Demo Marketplace")

    def login(self):
        print("=====Login Page=====")
        user=input("Enter username:")
        global global_username
        global_username=user
        if user not in self.database:
            print("Invalid Username")
        else:
            password=input("Enter password:")
            if password==self.database[user]:
                print("Login Successful")
                return True
            else:
                print("Invalid Password")
                return False

    def browse(self):
        print("Available Items present are:")
        for key in self.item:
            print(f"- {key}")

    def add_to_cart(self):
        print("Available brand are:")
        for key,value in self.item.items():
            print(f"- {key}:{value}")

        while True:
            add_item=input("Enter item to add into cart or enter done to
exit:")
            if add_item=='done' or add_item=='DONE' or add_item== 'Done':
                break;
            elif add_item in self.item:
                self.cart_items.append(add_item)
                print("Item Added")
            else:
                print("Item not present")
        print("Items added in your cart are:",self.cart_items)

    def make_payment(self):
        print("Choose Payment options:")
        print(self.payment_options)
        print("1 for NetBanking")
        print("2 for UPI")
        print("3 for Debit Card")
        print("4 for Paypal")
        print("5 for Exit")

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        user_input=int(input("Please Choose"))
        if user_input >4:
            print("Bye,Have a Nice Day")
        else:
            print("You will be shortly redirected to the portal for
Unified Payment Interface to make a payment of Rs. 2000")
            print("Your order is successfully placed:$")
            print("Bye,Have a Nice Day")

    def add_to_Catalog(self):
        name=input("Enter name of Item to be added:")
        if name in self.item:
            print("Item already exist")
        else:
            sr=input("Enter Srno of Item:")
            brand=input("Enter Brand of Item:")
            code=input("Enter Code of Item:")
            price=input("Enter Price of Item:")

            self.item[name]=[sr,brand,code,price]
            print("New Item added in Catalog")
            self.browse()

    def del_from_Catalog(self):
        name=input("Enter name of Item to be deleted:")
        if name not in self.item:
            print("Item does not exist in Catalog")
        else:
            del self.item[name]
            print("Item deleted from Catalog")

            self.browse()

database={'admin':'admin@123','user':'user@123'}
items={'Boots':[1,'Nike','001',4000],
       'Coats':[2,'Polo','002',10000],
       'Jackets':[3,'Cantabil','003',6000],
       'Caps':[4,'Addidas','004',1500]}
session1=Shopping_App(database,items)
session1.welcome()
if session1.login():
    if global_username == 'admin':
        print("You Logged in as Administrator")
        admin_input=1
        while admin_input < 4 and admin_input > 0:
            print("Choose below options")
            print("1 For Browsing")
            print("2 for Adding item to Item Catalog")
            print("3 for Deleting item from cart")
            print("Any Other Key to Exit")
            admin_input= int(input("Enter your Choice:"))
            if admin_input==1:
                session1.browse()
            elif admin_input==2:
                session1.add_to_Catalog()
            elif admin_input==3:
                session1.del_from_Catalog()
            else:

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        print("Bye, Have a Nice day ahead")

else:
    user_input=1
    while user_input < 4 and user_input>0:
        print("Choose below options")
        print("1 for Browse")
        print("2 for Add to cart")
        print("3 for Make Payment")
        print("Any Other Key to Exit")
        user_input= int(input("Enter your Choice:"))
        if user_input==1:
            session1.browse()
        elif user_input==2:
            session1.add_to_cart()
        elif user_input==3:
            session1.make_payment()
        else:
            print("Bye, Have a Nice day ahead")
else:
    print("Invalid Credentials, Bye")
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