# Shopping_App

October 15, 2024

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# Dictonary to save credentials of users
users = {
     "user1": {
          "usertype":"user",
          "password":"1234567",
          "cart":[]
     },
     "user2": {
          "usertype":"user",
          "password":"1234567",
          "cart":[]
     },
     "admin":{
          "usertype":"admin",
          "password":"1234567"
     }
}

# Dictonary of category
category={"1": "Footwear", "2": "Clothing","3": "Electronics"}

# Dictonary of product
product1={"id":"1","name":"sports shoes","catId":"1", "price":"1800"}
product2={"id":"2","name":"sneakers","catId":"1", "price":"800"}
product3={"id":"3","name":"t-shirt","catId":"2", "price":"1000"}
product4={"id":"4","name":"smartphones","catId":"3", "price":"40000"}
products=[product1, product2, product3, product4]

name=""

# Function to view all category
def viewCat():
    print("\nCategory are as follows:")
    for index, item in category.items():
        print(index,". ",item)

# Function to view product of selected category
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def catlog():
     choice = input("\nSelect the categories from following \n 1. Footwears \n␣
 ↪2. Clothing \n 3. Electronic \n Enter your choice: ")
     if(int(choice) < 4):
      print("\n Product from "+ category[str(choice)]+" are: \n\n")
      for index, item in enumerate(products):
          if(products[index]["catId"]== choice):
            print("-----------------------------")
            print("Product Id: "+(products[index]["id"]))
            print("Product Name: "+(products[index]["name"]))
            print("Product Price: "+(products[index]["price"]))
            print("-----------------------------")
     else:
        print("Invalid choice")

     userMenu()

# Function to view all product
def viewProduct():
        for index, item in enumerate(products):
          print("\n\n-----------------------------")
          print("Product Id: "+(products[index]["id"]))
          print("Product Name: "+(products[index]["name"]))
          print("Product Price: "+(products[index]["price"]))
        print("-----------------------------")

# Function to view all items in cart of logged in user
def viewCart():
    item=len(users[name]["cart"])
    if(item == 0):
       print("\n You have 0 item in cart \n")
    else:
       print("\n You have "+ str(item) +" items in cart \n")
       for i in users[name]["cart"]:
           print("Category "+category[i["catId"]]+" | Product Name␣
 ↪"+i["name"]+" Product Price "+i["price"])
    userMenu()

# Function to add item to cart
def addToCart():
     pId = input("Enter the product id: ")
     quantity= input("Enter the quantity: ")
     item=None
     for i in products:
         if(i["id"]==pId):
             item=i
             print("Item to be added is"+ str(item))
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            break
    j=int(quantity)
    while j!=0:
        users[name]["cart"].append(item)
        j = j-1
    print("The item added successfully")
    addMore=input("\n Do you want to add more product? (Y/N): ")
    if(addMore == "Y"):
        addToCart()
    else:
        userMenu()

# Function to remove item/items from cart
def removeItem():
    if(len(users[name]['cart'])!=0):
     pId = input("Enter the product id: ")
     quantity= input("Enter the quantity: ")
     for i in products:
        if(i['id']==pId):
            print("Item to be removed is"+ str(i))
            break
     j=int(quantity)
     for user in users.values():
      if 'cart' in user:
       for cart in user['cart']:
           while j!=0:
               user['cart'].remove(cart)
               j=j-1
       print(users)
     print("The item removed successfully")
    else:
       print("Your cart is empty")
    userMenu()

# Function to calculate price of all the items and checkout by selection␣
 ↪particular mode of payment
def checkout():
    if(len(users[name]['cart'])!=0):
     item = users[name]["cart"]
     total = 0
     for i in item:
       total=total+int(i["price"])
     paymentMode=input("Please select payment mode from following: \n 1. UPI \n␣
 ↪2. PayPal \n 3. Netbanking \n 4. Debit Card \n 5. Credit Card \n Enter␣
 ↪choice: ")
      # Display a checkout message that is specific to the selected payment␣
 ↪option.
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        print("You will be shortly redirected to make a payment of Rs.", total)
        # Display a success message.
        print("Your payment has been successfully processed.")
    else:
        print("Your cart is empty")
    userMenu()

# Function to logout from account (user/admin)
def logout():
    global name
    name = ""
    print("\nyou have been logged out successfully")
    print("Visit us again soon!\n")
    return None

# Function to select option from user menu
def userMenu():

    choice = input("\n\n Select from following option \n 1. Catlog \n 2. View␣
 ↪Cart \n 3. Add item to cart \n 4. Remove item from cart \n 5. Checkout \n 6.␣
 ↪Logout \n Enter your choice: ")
    if(choice == "1"):
        catlog()
    elif(choice == "2"):
          viewCart()
    elif(choice == "3"):
        addToCart()
    elif(choice == "4"):
       removeItem()
    elif(choice == "5"):
        checkout()
    elif(choice == "6"):
        logout()
    else:
        print("Invalid choice")

# Function for user login
def userLogin():
    username = input("Enter username: ")
    password = input("Enter password: ")
    global name
    name =username

    if(users.get(username) is not None):
         if(users[username]["password"]==password):
              if(users[username]["usertype"]=="user"):
                print("\n\nWelcome "+ username.upper()+"!!!\n\n")
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                userMenu()
          else:
               print("\nInvalid credentials\n")
          return username
     else:
          print("\nInvalid credentials\n")
          return None

# Function to signup
def signUp():
     username=input("Enter username: ")
     password=input("Enter password: ")
     retype=input("Enter confirm password: ")
     global name
     name =username
     if(password == retype):
          print("\n\nWelcome to Shopping App\n\n")
          users.update(
               { username:{
                    "usertype": "user",
                    "password": password,
                     "cart":[]}
               }
            )
          userMenu()
          return username
     else:
          print("Password and Confirm Password does not match")
          return None

# Function for adding category
def addCategory():
    print()
    id = input("\n Enter category id: ")
    name= input("Enter Category name: ")
    category.update({id:name})
    viewCat()
    adminMenu()

# Function for removing category
def removeCategory():
    id = input("\n Enter category id: ")
    for i in products:
        if(i["id"] == id):
            products.remove(i)
    del category[id]
    viewCat()
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    adminMenu()

# Function for adding product to particular category
def addProduct():
    print()
    id = input("\n Enter product id: ")
    name= input("Enter product name: ")
    catId = input("\n Enter product category id: ")
    price= input("Enter product price: ")
    # Create a new product dictionary.
    new_product = {
        "name": name,
        "id": id,
        "price": price,
        "catID": catId,
    }
    # Add the new product to the list of products.
    products.append(new_product)
    print("The product has been added successfully!")
    viewProduct()
    adminMenu()

# Function to update product
def updateProduct():
    print()
    id = input("\n Enter product id: ")
    name= input("Enter product name: ")
    catId = input("\n Enter category id: ")
    price= input("Enter product price: ")
    for index, item in enumerate(products):
          if(products[index]["id"]== id):
            print("Update", item, "from products")
            products[index]["name"] = str(name)
            products[index]["catId"] = str(catId)
            products[index]["price"] = str(price)
    viewProduct()
    adminMenu()

# Function to remove product
def removeProduct():
    print()
    id = input("\n Enter product id: ")
    for i in products:
        if(i["id"] == id):
            print("Removed", i, "from products", id)
            products.remove(i)
    viewProduct()
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    adminMenu()

# Function to select option from admin menu
def adminMenu():
     choice = input("\n\n Select from following option \n 1. Add Category \n 2. Remove Category \n 3. Add Product \n 4. Update Product \n 5. Remove Product \n6. Logout \n Enter your choice: ")
     if(choice == "1"):
         addCategory()
     elif(choice == "2"):
         removeCategory()
     elif(choice == "3"):
          addProduct()
     elif(choice == "4"):
         updateProduct()
     elif(choice == "5"):
         removeProduct()
     elif(choice == "6"):
         logout()
     else:
         print("Invalid choice")

# Function for admin login
def adminLogin():
     username = input("Enter username: ")
     password = input("Enter password: ")
     global name
     name =username
     if(users.get(username) is not None):
          if(users[username]["password"]==password):
               if(users[username]["usertype"]=="admin"):
                 print("\n\nWelcome "+ username.upper()+"!!!\n\n")
                 adminMenu()
          else:
               print("\nInvalid credentials\n")
          return username
     else:
          print("\nInvalid credentials\n")
          return None

# Start point of complete application
def start():
    print("\n\nWelcome to the Demo Shopping Marketplace\n\n")
    loginType=input("Enter the type of login \n 1. User Login \n 2. Signup \n 3. Admin Login \n Enter your choice: ")
    if(int(loginType) == 1):
         userLogin()
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    elif (int(loginType)== 2):
         signUp()
    elif (int(loginType)== 3):
         adminLogin()
    else:
        print("Invalid choice")
start()
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