**Online Medical Store**

Need to prepare a console application for online medical store management.

* The application should allow to do below process.
* The main menu contains the following options.

1. **User Registration**
2. **User Login**
3. **Exit**

## User Registration:

1. Get the below details from the user to create a new user account.
   1. Username
   2. Age
   3. City
   4. Phone Number
   5. Balance
2. Once the new user account is created and show the user ID **“Your ID is UID1001”**.

## User Login:

On selection of the “User Login” option from the main menu,

1. Ask for the “User ID” of the user. Check the “User ID” in the user list.
2. If the user ID does not exist means, show “Invalid User ID. Please enter a valid one”.
3. If “User ID” exists, then show the below sub menu
   1. **Show medicine list.**
   2. **Purchase medicine.**
   3. **Modify purchase.**
   4. **Cancel purchase.**
   5. **Show purchase history.**
   6. **Recharge Wallet.**
   7. **Show Wallet Balance**
   8. **Exit**
4. **Show Medicine List:**

Show the list of available medicine details in the store by traversing the medicine details list.

1. **Purchase Medicine:**
2. Show the List of medicine details by traversing the medicine details list.
3. Ask the user to select the medicine using MedicineID.
4. Ask the number of counts of that medicine he wants to buy.
5. Check the Medicine list whether the **MedicineID** was available. If it is available, then   
   1. check the asked count is available. If it is available, then
   2. Check the medicine was not expired. If it is expired or not available, then show the user “Medicine is not available”.
   3. If the medicine is not expired, then check User has enough balance to purchase that medicine.
6. Reduce the number of **AvailableCount** of that medicine in **MedicineDetails**.
7. Deduct the total amount from user’s balance amount.
8. If all the conditions specified in step 4 are true then calculate the total amount of purchased medicines, **OrderDate** is Now, Put **OrderStatus** as “Purchased” and create object for **OrderDetails** class and add it to the list.
9. Finally show the message **“Medicine was purchased successfully”.**
10. **Modify Purchase**
    1. Show the order details of current logged in user to pick a order detail by using OrderID and whose status is **“Purchased”.** Check whether the purchase details is present. If yes then,
    2. Ensure the order ID is available and ask the user to enter the new quantity of the medicine. Calculate the order price and update in the order price.
    3. Calculate the total price of order and update in purchase details entry.
    4. Show order modified successfully.
11. **Cancel Purchase**
12. Show the order details of the currently logged in user whose order status is **“Purchased”.**
13. Get the **OrderID** information from the user and check the **OrderID** present in the list and check its **OrderStatus** is Purchased.
14. If the **OrderID** matches increase the count of that Medicine in the medicine details, Return the amount to the user. Change the Status of the order to “Cancelled”.
15. Show the user that the **“OrderID XXX was cancelled successfully”.**
16. **Show Purchase History**

Show the purchased history of the current logged in user by traversing the **OrderDetails** list.

1. **Recharge Wallet**

Get the amount to be recharged from the current logged in user and update the balance information on his property.

1. **Show Wallet Balance**

Display the user balance amount.

1. **Exit**

Exit from the submenu and go to the main menu.

## Classes:

**PersonalDetails class:**

Properties:

* Name
* Age
* City
* PhoneNumber

**Interface** IWallet:

Properties:

1. WalletBalance

Methods:

1. Wallet Recharge
2. Deduct Balance

**UserDetails class: inherit PersonalDetails, IWallet**

Properties:

1. UserID (Auto Increment – UID1001)
2. WalletBalance

Methods:

1. Wallet Recharge
2. Deduct Balance

**MedicineDetails class:**

Properties:

* 1. MedicineID (MD100)
  2. MedicineName
  3. AvailableCount
  4. Price
  5. DateOfExpiry

**OrderDetails class:**

Properties:

1. OrderID (Auto increment - OID2001)
2. UserID
3. MedicineID
4. MedicineCount
5. TotalPrice
6. OrderDate
7. OrderStatus {Enum – Purchased, Cancelled}

Default Details:

Create default details of **UserDetails** using the following information.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **UserID** | **UserName** | **Age** | **City** | **Phone Number** | **Balance** |
| UID1001 | Ravi | 33 | Theni | 9877774440 | 400 |
| UID1002 | Baskaran | 33 | Chennai | 8847757470 | 500 |

Create default details of **MedicineDetails** using the following information.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **MedicineID** | **MedicineName** | **Available Count** | **Price** | **DateOfExpiry** |
| MD101 | Paracitamol | 40 | 5 | 30/06/2024 |
| MD102 | Calpol | 10 | 5 | 30/05/2024 |
| MD103 | Gelucil | 3 | 40 | 30/04/2023 |
| MD104 | Metrogel | 5 | 50 | 30/12/2024 |
| MD105 | Povidin Iodin | 10 | 50 | 30/10/2024 |

Create default details of **OrderDetails** using the following information.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **OrderID** | **UserID** | **MedicineID** | **MedicineCount** | **TotalPrice** | **OrderDate** | **OrderStatus** |
| OID2001 | UID1001 | MD101 | 3 | 15 | 13/11/2022 | Purchased |
| OID2002 | UID1001 | MD102 | 2 | 10 | 13/11/2022 | Cancelled |
| OID2003 | UID1001 | MD104 | 2 | 100 | 13/11/2022 | Purchased |
| OID2004 | UID1002 | MD103 | 3 | 120 | 15/11/2022 | Cancelled |
| OID2005 | UID1002 | MD105 | 5 | 250 | 15/11/2022 | Purchased |
| OID2006 | UID1002 | MD102 | 3 | 15 | 15/11/2022 | Purchased |