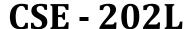
University of Asia Pacific

Department of Computer Science & Engineering

Spring 2024



Object Oriented Programming I Lab

Section: C - 1



Project No.

01

Title of the Project: Online Medical Pharmacy Management System

Group members: 02

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1. Class Diagram

1. InvalidOrderException class

<u>PACKAGE</u>				
med.lib				
CLASS				
InvalidOrderException				
<u>METHOD</u>				
InvalidOrderException (String orderID)				

2. InvalidItemException class

<u>PACKAGE</u>					
med.lib					
CLASS					
InvalidItemException					
METHOD					
InvalidItemException (String itemID)					

3. Item Class

PACKAGE

med.lib

ABSTRACT CLASS

(Item)

name: (String)
id: (String)
-manufacturer: (String)
unitPrice: (double)
quantity: (int)

METHOD

Item(name: String, manufacturer: String, unitPrice: double, quantity: int)

addPrefixCodeToId(prefix: String): void

getName(): String

setName(name: String): void

getManufacturer(): String

setManufacturer(manufacturer: String): void

getUnitPrice(): double

setUnitPrice(unitPrice: double): void

getId(): String

getQuantity(): int

increaseQuantity(increasedAmt: int): void decreaseQuantity(decreasedAmt: int): boolean

toString(): String
getBill(): double

4. Order Class

PACKAGE

med.lib

CLASS

(Order)

orderId: (String)
itemId: (String)
orderBy: (String)
quantity: (int)
status: (String)
orderDate: (LocalDate)

METHOD

deliveryDate: (LocalDate)

Order(itemId: String, orderBy: String, quantity: int)

getStatus(): String

setStatus(status: String): void

getItemId(): String

getOrderBy(): String

completeOrder(): void

getOrderId(): String

getQuantity(): int

toString(): String

5. Medical Accessory Class

PACKAGE

med.lib

CLASS

$(Medical Accessory)\ Extends\ Item$

modelNo: String hasDiscount: boolean

METHOD

MedicalAccessory(name: String, manufacturer: String, modelNo: String, unitPrice: double, quantity: int)

getModelNo(): String

hasDiscount(): boolean

setDiscount(hasDiscount: boolean): void

toString(): String

getBill(): double

6. MedPharma Class

PACKAGE

med.lib

CLASS

(MedPharma)

name: (String)
items: ArrayList<Item>
requestedItems: ArrayList<Order>
inpStre: (ObjectInputStream)
outStre: (ObjectOutputStream)

METHOD

MedPharma(name: String)

getName(): String

findItem(id: String): Item

findOrder(orderId: String): Order

findItems(name: String, manufacturer: String, dose: double, unit: String, unitPrice: double, expirationDate: String): ArrayList<Medicine>

findExpiredMeds(): ArrayList<Medicine>

findItems(name: String, manufacturer: String, modelNo: String, unitPrice: double):

ArrayList<MedicalAccessory>

findItems(name: String, manufacturer: String):
ArrayList<Item>

addItem(name: String, manufacturer: String, dose: double, unit: String, unitPrice: double, quantity: int, expirationDate: String): String

addItem(name: String, manufacturer: String, modelNo: String, unitPrice: double, quantity: int): String

|acceptOrderRequest(orderId: String): Boolean

orderItem(medId: String, customerContact: String, quantity: int): String

getMyOrder(customerContact: String): ArrayList<Order>

getNewOrders(): ArrayList<Order>

7. Medicine Class

PACKAGE

med.lib

CLASS

(Medicine)

dose: (double)

unit: (String)

expirationDate: (LocalDate)

METHOD

+ Medicine(name: String, manufacturer: String, dose: double, unit: String, unitPrice: double, quantity: int, expirationDate: LocalDate)

Medicine(name: String, manufacturer: String, dose: double, unit: String, unitPrice: double, quantity: int, expirationDate:String)

getDose(): double

getUnit(): String

getExpirationDate() : LocalDate

hasExpired(): boolean

toString(): String

2. BLOCK DIAGRAM

1. Employee Menu

LOGIN

- → Enter ID (Label)
- → Enter Your ID To Login (Text Field)
- → Exit / Login (Button)

ADD ITEMS (RB)

- → Medicine / Accessory (RB)
- → Name / Manufacturer / Unit Price / Quantity / Model Number / Unit / Dose (Text Field)
- → Expiration Date / Day / Month / Year (Label)
- → DD / MM / YY (Text Field)
- → Add / Login / Menu (Button)

VIEW AND ACCEPT ORDER (RB)

- → View New Orders (Button)
- → Tree View (Details)
- → Order ID (Text Field)
- → Accept Order / Login / Menu (Button)

<u>SEARCH ITEMS (RB)</u>

- → Medicine / Accessory / Both (RB)
- → Name / Manufacturer / Unit Price / Model Number / Unit / Dose (Text Field)
- → Expiration Date / Day / Month / Year (Label)
- → DD / MM / YY (Text Field)
- → Search (Button)
- → Tree View (Details)
- → Login / Menu (Button)

GET EXPIRED MEDICINES (RB)

- → Expired Medicines (Button)
- → Table View (Name, Manufacturer, Unit Price, Dose, Unit, Quantity, Expiration Date)
- → Login / Menu (Button)

2. Customer Menu

LOGIN

- → Enter ID (Label)
- → Enter Your ID To Login (Text Field)
- → Exit / Login (Button)

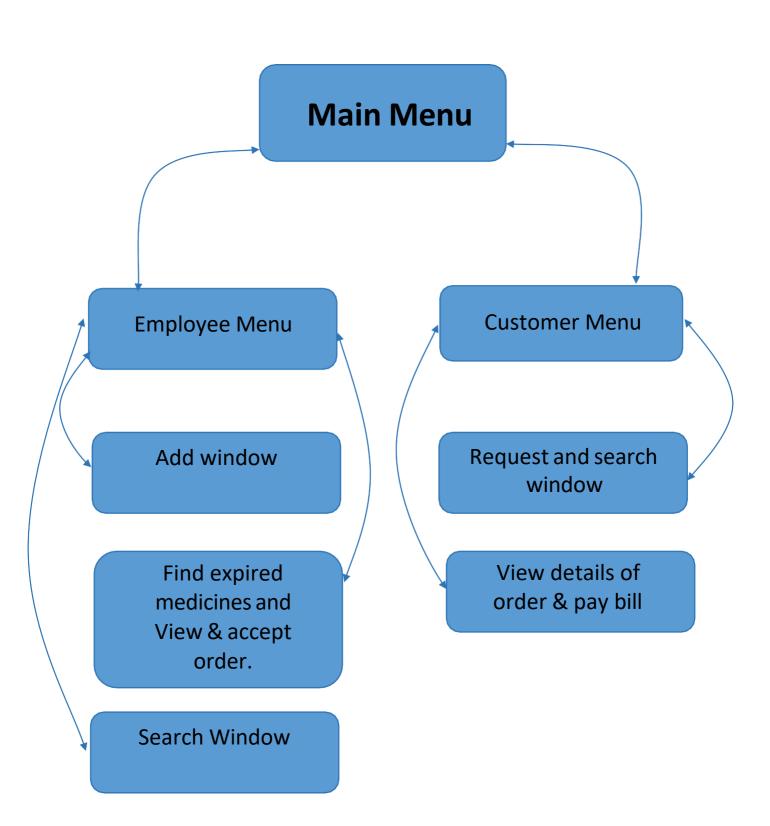
SEARCH ITEMS AND REQUEST ORDER (RB)

- → For Searching (Label)
- → Name / Manufacturer (Text Field)
- → Product Details (Label)
- → Tree View (Details)
- → For Ordering (Label)
- → Product ID / Contact Number / Quantity (Text Field)
- → Search / Order / Login / Menu (Button)

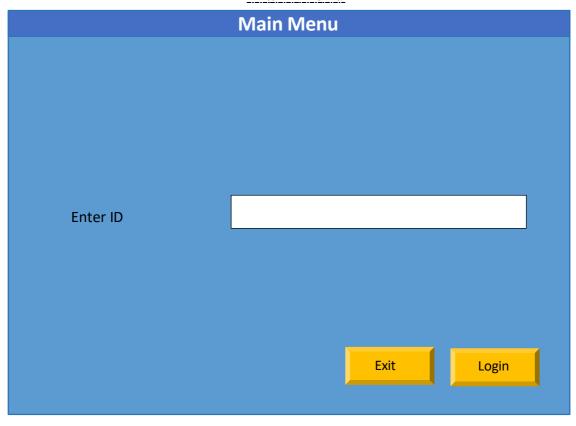
VIEW DETAILS OF YOUR ORDER AND PAY BILL (RB)

- → For Searching (Label)
- → Contact (Text Field)
- → Pay Bill (Label)
- → Order ID (Text Field)
- → For Order Details (Label)
- → Tree View (Details)
- → Search / Pay / Login / Menu (Button)

3. GUI Diagram

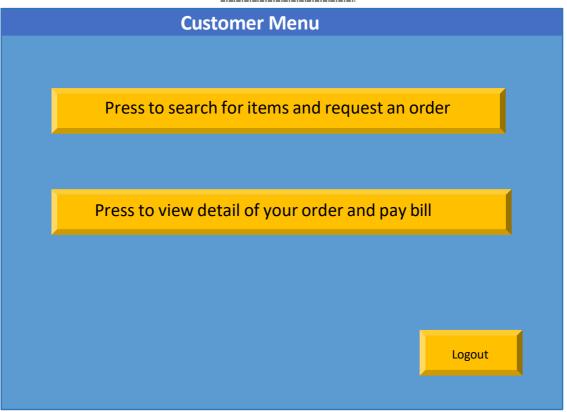


Main Menu

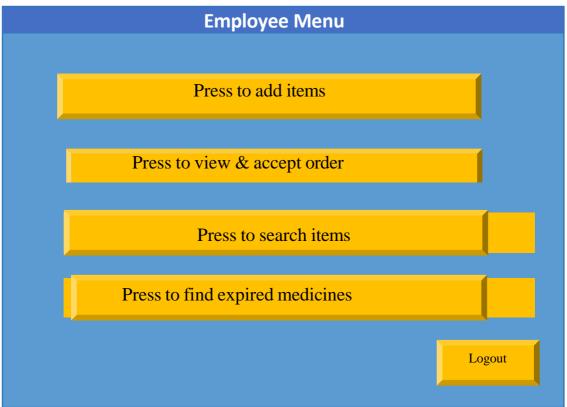


For id= "E", the employee menu will open and for id= "C", customer menu will open.

Customer Menu



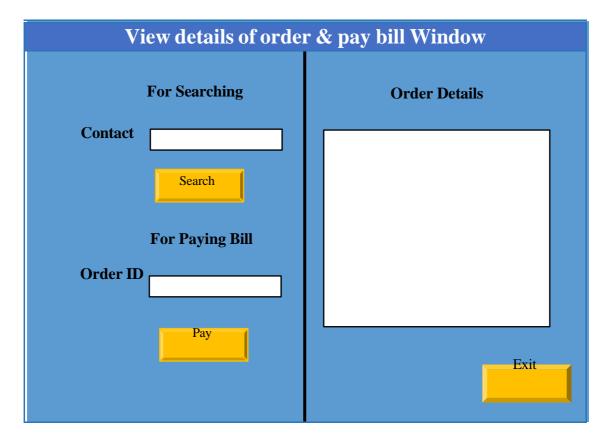
Employee Menu



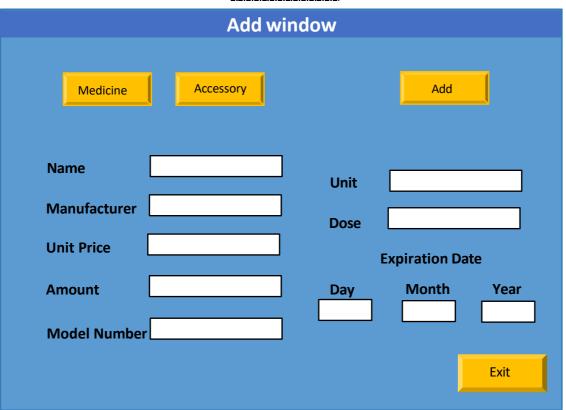
Request and Search Window



View details of order & pay bill Window

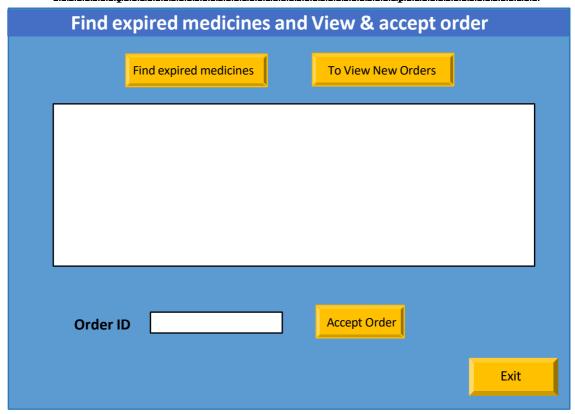


Add window

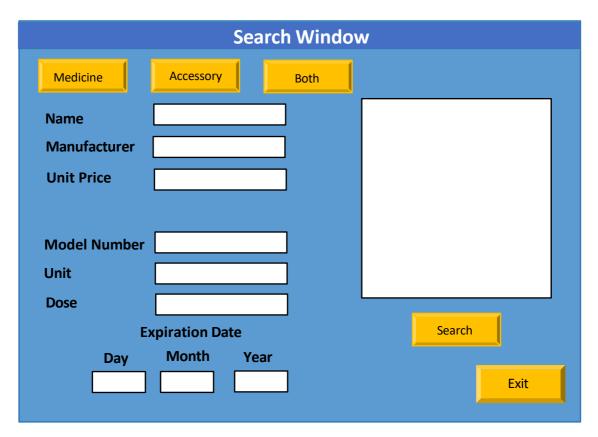


Text Fields will be deactivated according to the options selected.

Find expired medicines and View & accept order Window

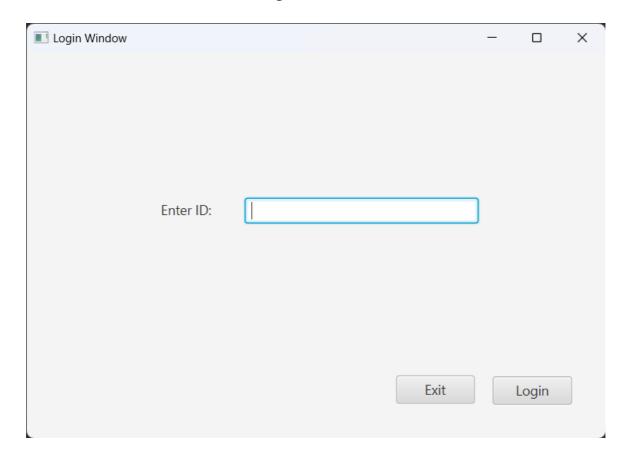


Search Window

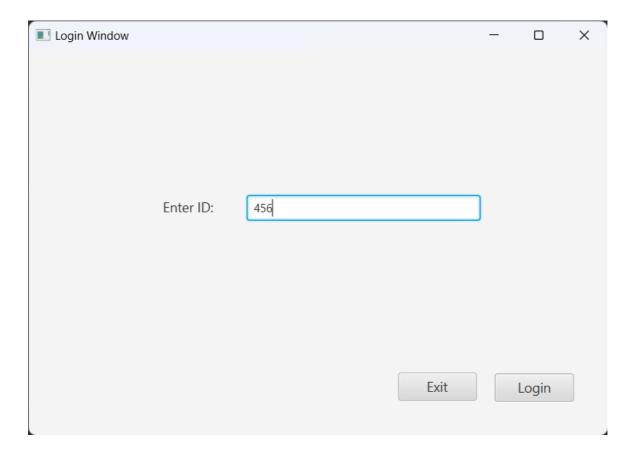


4. OUTPUTS

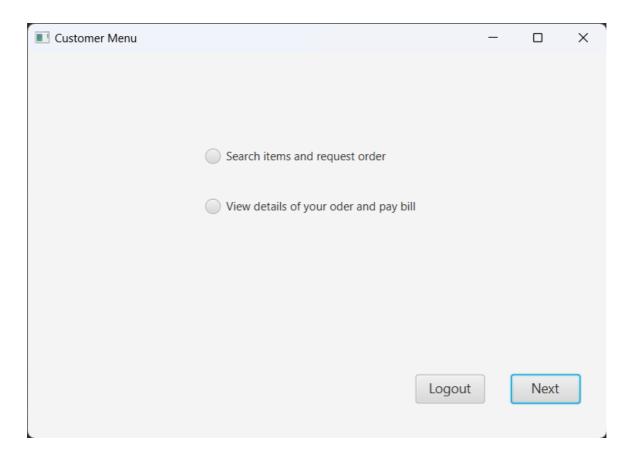
Logic Window



1. Customer Login Window

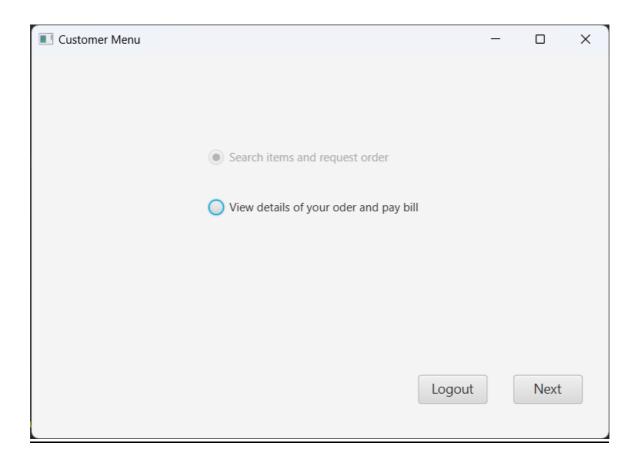


2. Customer Menu

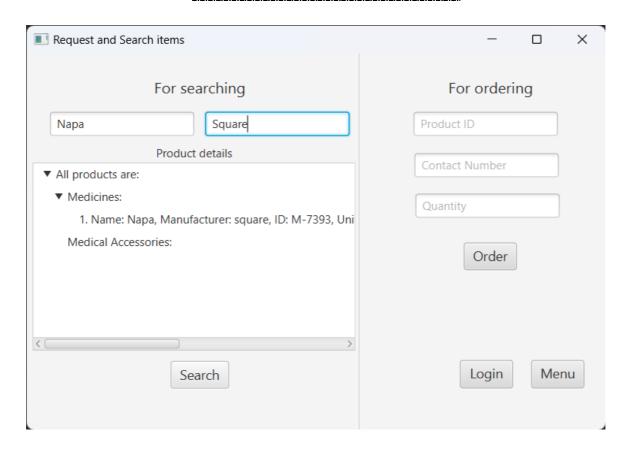


1. Customer Medicine Task

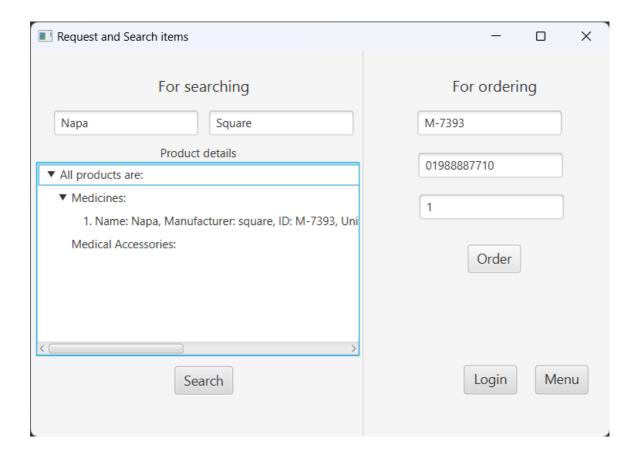
Search Items & Request Order



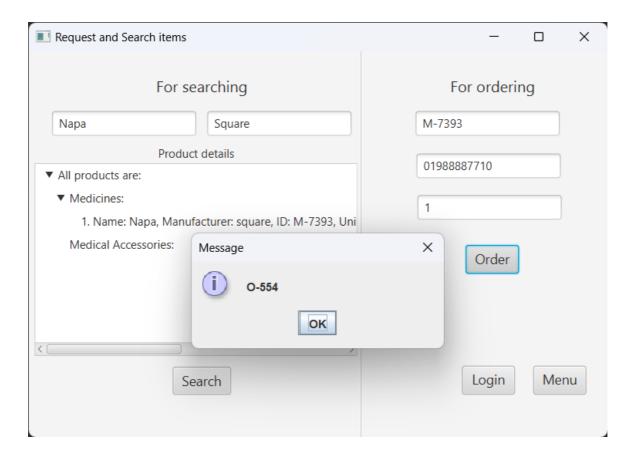
1. Customer Search For Medicine



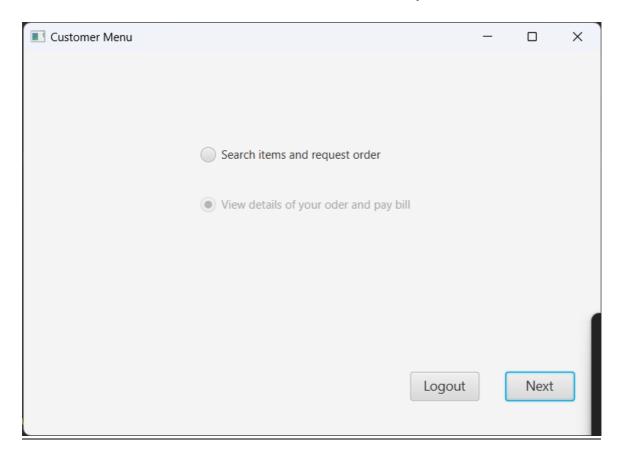
2. Customer Order



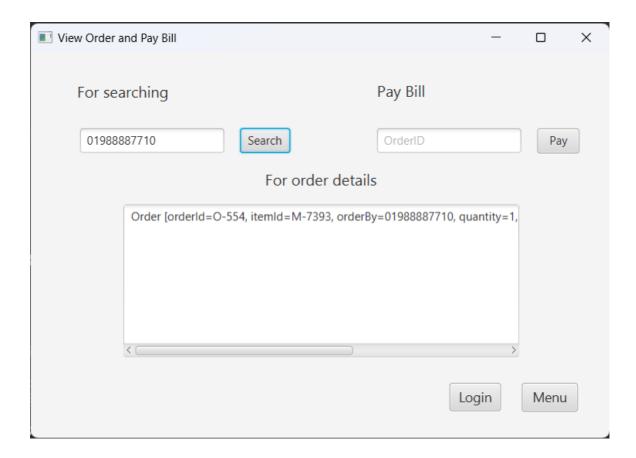
3. Customer Order ID



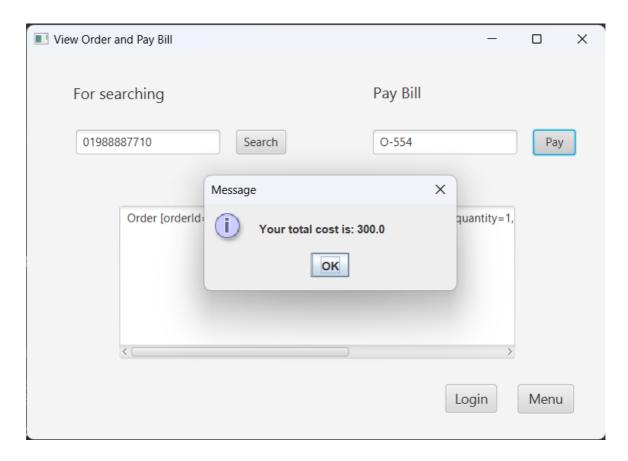
View Details Of Your Oder & Pay Bill



4. Customer Order Search

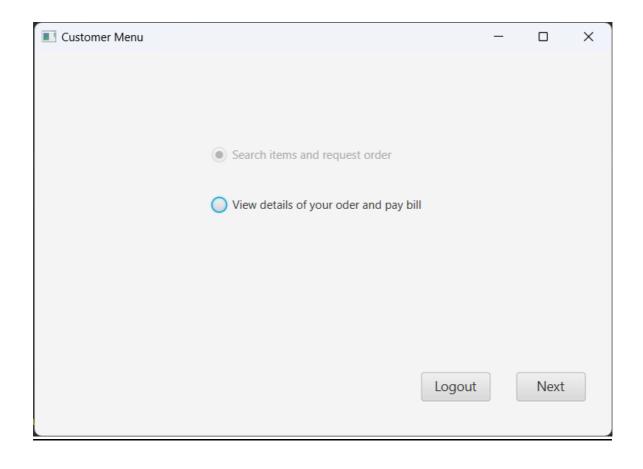


5. Customer Pay Bill & Medicine Cost

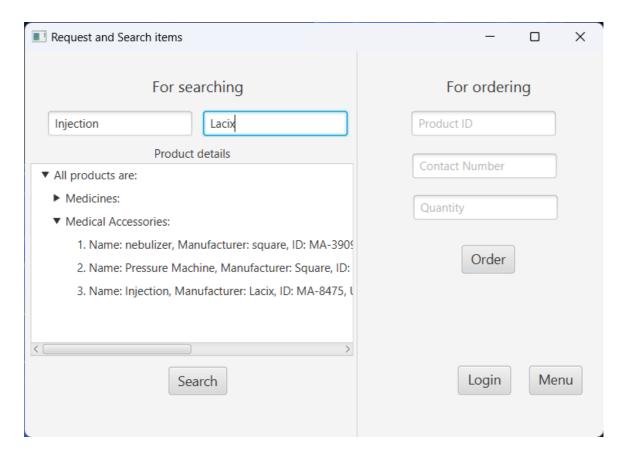


2. Customer Medicine Accessory Task

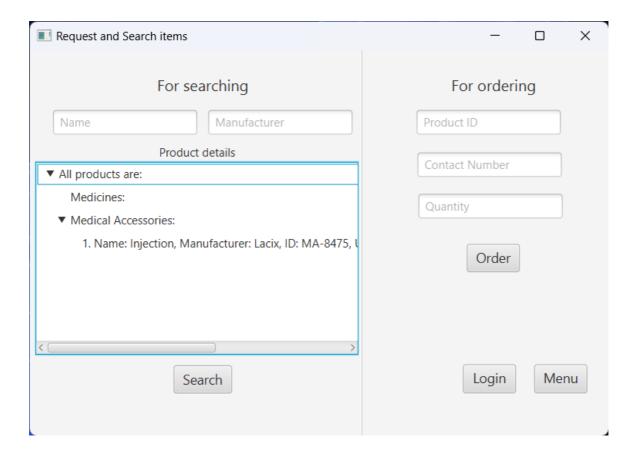
Search Items & Request Order



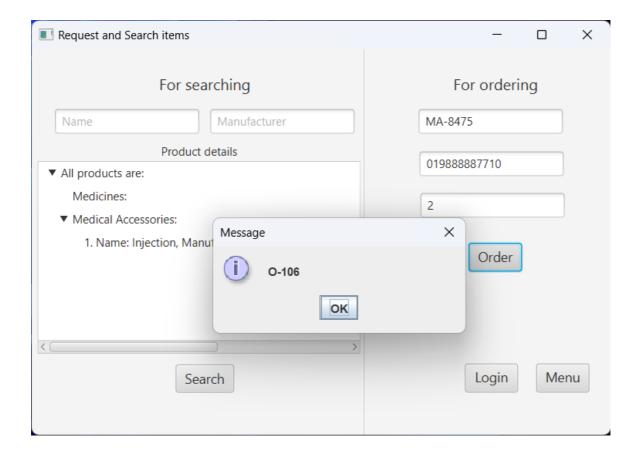
1. Customer Search For Medicine Accessory



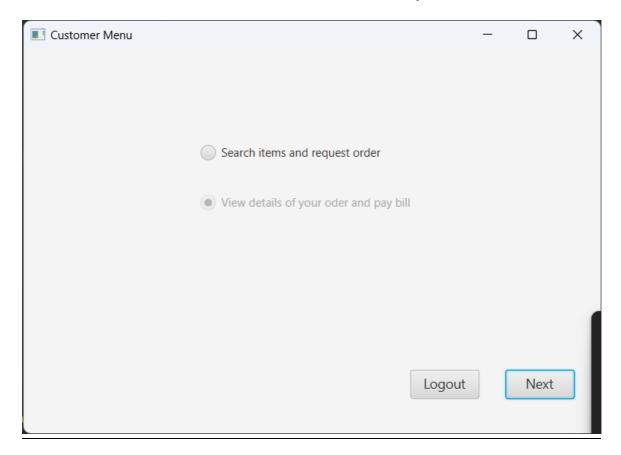
2. Customer Search Found



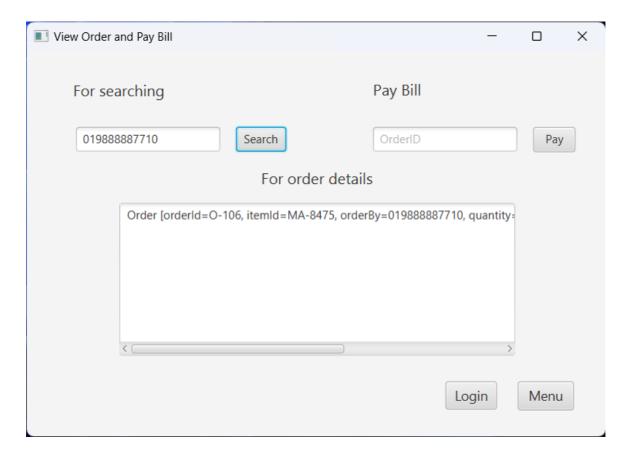
3. <u>Customer Order ID</u>



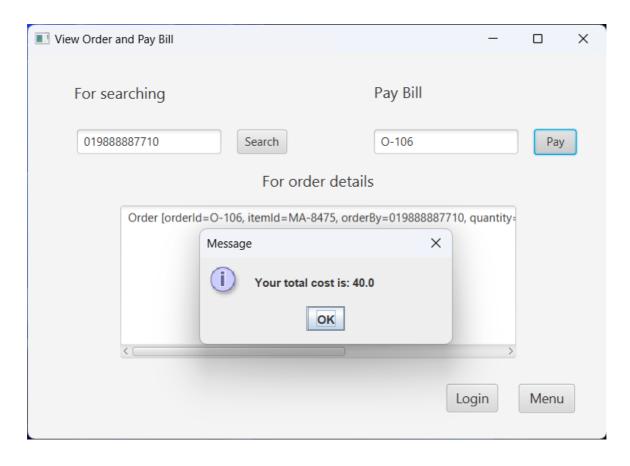
View Details Of Your Oder & Pay Bill



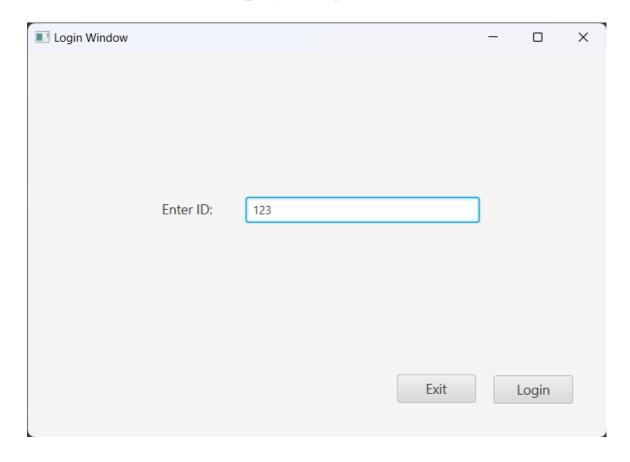
4. Customer Order Search



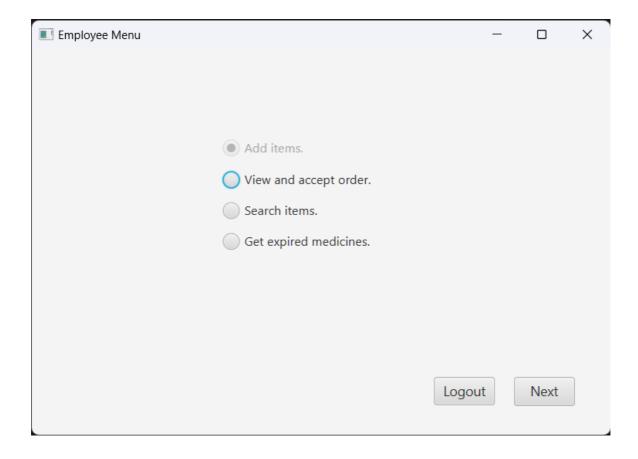
5. Customer Pay Bill & MA Cost



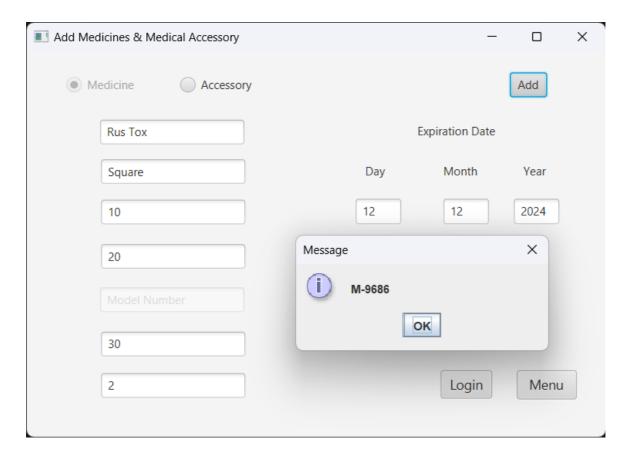
1. Employee Login Window



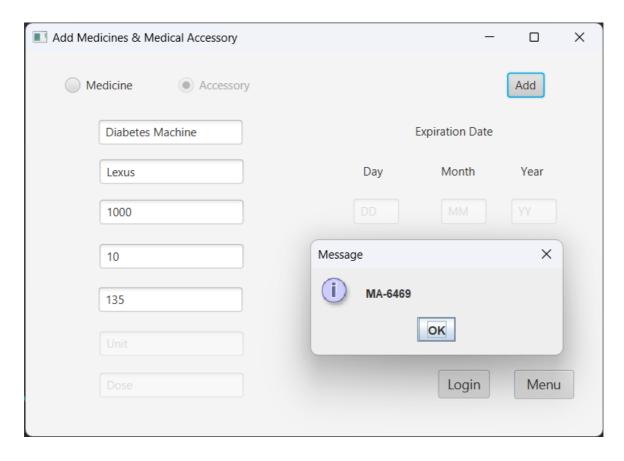
2. Add Items Options



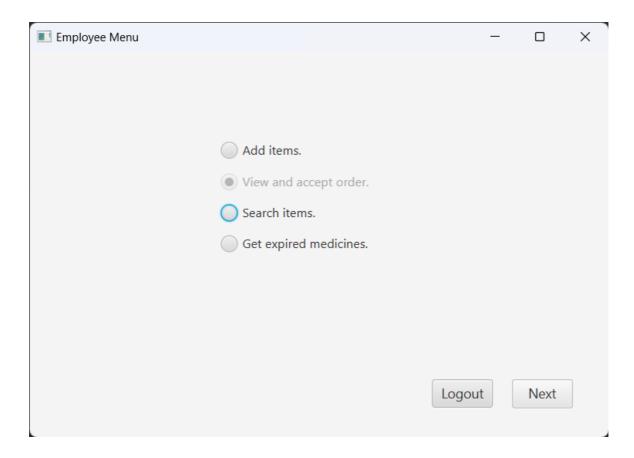
3. Employee Medicine & Exp Date Add



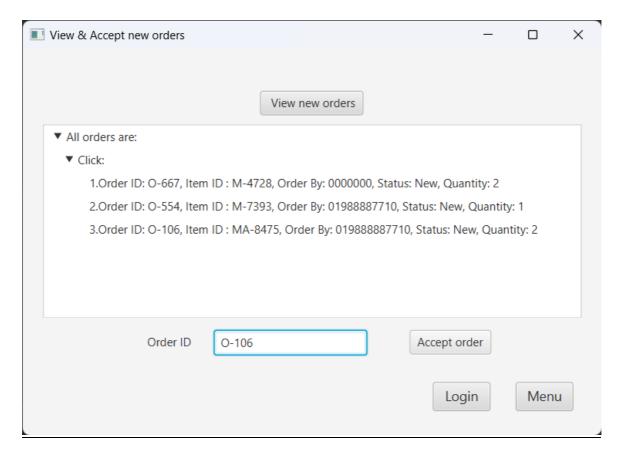
4. Employee Medicine Accessory Add



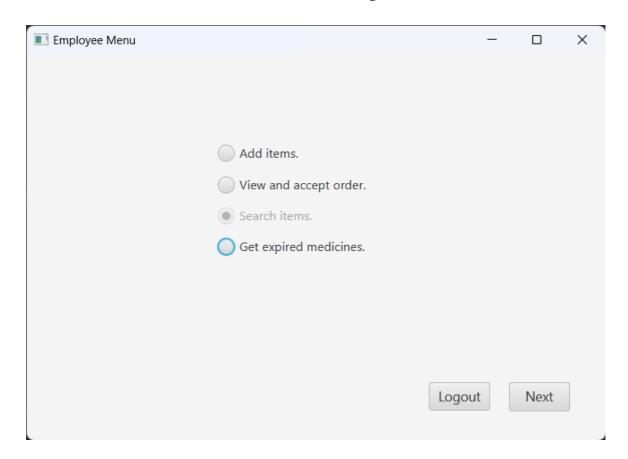
5. View & Accept Order Option



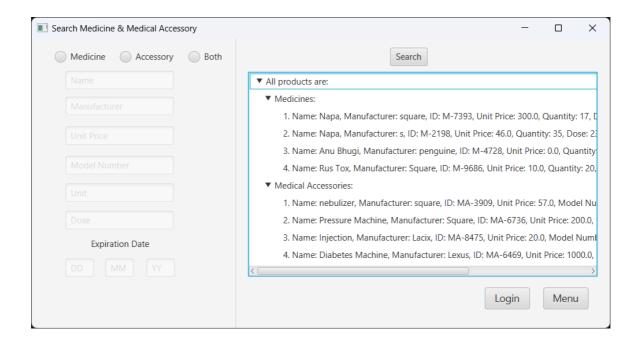
6. View & Order Accept



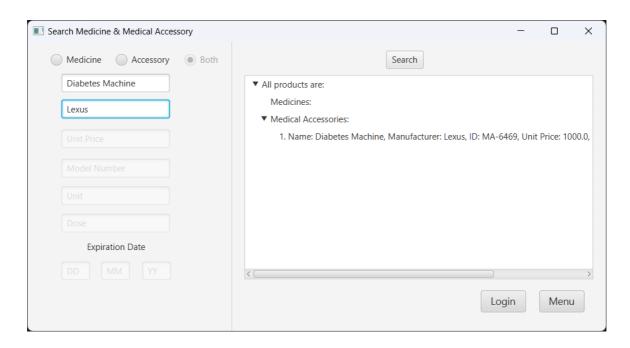
7. Search Items Option



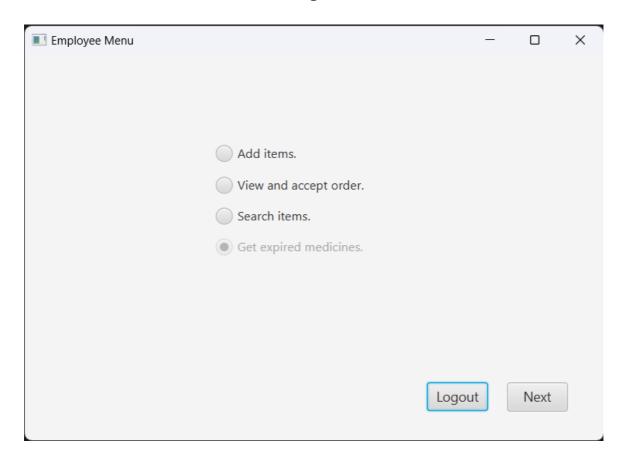
8. Search Items



9. Both Search items



10. Get Exp Medicine



11. Exp Medicine List

		Exp	ired Medicin	es		
Name	Manufacturer	Unit Price	Dose	Unit	Quantity	Expiration Date
Napa	square	300.0	10.0	2	17	2024-08-09
Napa	S	46.0	234.0	547	35	2024-12-09
Rus Tox	Square	10.0	2.0	30	20	2024-12-12
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