

# TEST CASES – FDAA – GROUP 5

## - Test case 1: Process the order

- + Customer can add multiple items to their orders
- + Customer can view their carts and edit the items
- + When check out to the payment, they can choose between DINE-IN/TAKEWAY and pay by CARD/ ONLINE
- + After payment, they will receive a confirmation and an automatically-generated OrderID. The current status will be NEW
- + The Staff will login and Display new Orders, View the details of a particular Order and Process an Order
- + After being processed, the Staff can see the status updated as READY\_TO\_PICKUP

```
-----  
WELCOME TO THE FOMS APPLICATION  
-----
```

Please choose your login option:

1. Customer
2. Staff
3. Quit

Enter your choice: 1

```
-----  
CUSTOMER LOGIN  
-----
```

Please choose your current branch:

1. NTU
2. JP
3. JE
4. Return to Start

Enter your preferred choice: 1

WELCOME TO NTU!

Please choose your option as a customer:

1. View Order Status
2. Make a new Order
3. Go back

Enter your choice: 2

Please choose your action:

1. Go to Menu
2. Go to Cart

3. Checkout to make payment

4. Go Back

Enter your choice: 1

---MENU---

ID	Name	Price	Category
Description			
fries	FRIES	3,20	SIDE
Cut Potato			
set	3PC set meal	9,90	SET_MEAL
3 pieces of chicken			
nugget	chicken nugget	6,60	SIDE
Some pieces of mashed chicken			
coke	coke	2,50	DRINK
black water			
pepsi	pepsi	2,10	DRINK
brown water with gas			

Please choose your action:

1. Add item to the cart

2. Go back

Enter your choice: 1

---Add item to cart---

Enter Item ID: fries

Enter quantity: 1

Item added successfully!

Please choose your action:

1. Go to Menu

2. Go to Cart

3. Checkout to make payment

4. Go Back

Enter your choice: 1

---MENU---

ID	Name	Price	Category
Description			
fries	FRIES	3,20	SIDE
Cut Potato			
set	3PC set meal	9,90	SET_MEAL
3 pieces of chicken			
nugget	chicken nugget	6,60	SIDE
Some pieces of mashed chicken			

coke	coke	2,50	DRINK
black water			
pepsi	pepsi	2,10	DRINK
brown water with gas			

Please choose your action:

1. Add item to the cart
2. Go back

Enter your choice: 1

---Add item to cart---

Enter Item ID: set

Enter quantity: 2

Item added successfully!

Please choose your action:

1. Go to Menu
2. Go to Cart
3. Checkout to make payment
4. Go Back

Enter your choice: 2

---CART---

Cart Items:

Item ID: fries

Name: FRIES

Price: \$3.2

Category: SIDE

Quantity: 1

Item ID: set

Name: 3PC set meal

Price: \$9.9

Category: SET\_MEAL

Quantity: 2

Total Price: 23.0

Please enter your action:

1. Edit the item in Cart
2. Remove the item from Cart
3. Clear Cart
4. Go Back

```
1
---Edit Item from the cart---
Enter Item ID: set
Enter new Quantity: 10

Please choose your action:
1. Go to Menu
2. Go to Cart
3. Checkout to make payment
4. Go Back
Enter your choice: 3

Please choose your dining option:
1. Dine In
2. Takeaway
Enter your choice: 1
Please proceed to payment:
Available Payment Methods:
online
card
Please enter the method:
online
Payment Successful
Successful payment
Order ID: 26043
-----
Item has been successfully Ordered:
FRIES
3PC set meal
-----
Order Status:    NEW
Dining Option:   DINE_IN
Payment Mode:    online

-----
WELCOME TO THE FOMS APPLICATION
-----

Please choose your login option:
1. Customer
2. Staff
3. Quit
Enter your choice: 2
```

Enter ID: kumarB  
Enter Password: password  
Login successful.

-----  
STAFF LOGIN  
-----

Choose your action:  
1. Display new Orders  
2. View the details of a particular Order  
3. Process an Order  
4. Change your Password  
5. Return to Start

Enter your choice: 1  
---Display new Orders---  
Order ID: 26043

-----  
Item has been successfully Ordered:  
FRIES  
3PC set meal  
-----

Order Status: NEW  
Dining Option: DINE\_IN  
Payment Mode: online

-----  
STAFF LOGIN  
-----

Choose your action:  
1. Display new Orders  
2. View the details of a particular Order  
3. Process an Order  
4. Change your Password  
5. Return to Start

Enter your choice: 2  
---View the details of a particular Order---  
Enter the Order ID: 26043  
Order ID: 26043

-----  
Item has been successfully Ordered:  
FRIES  
3PC set meal  
-----

Order Status: NEW  
Dining Option: DINE\_IN  
Payment Mode: online

-----  
STAFF LOGIN  
-----

Choose your action:

1. Display new Orders
2. View the details of a particular Order
3. Process an Order
4. Change your Password
5. Return to Start

Enter your choice: 3

---Process Order---

Enter the Order ID: 26043

Order ID 26043 has been processed successfully.

-----  
STAFF LOGIN  
-----

Choose your action:

1. Display new Orders
2. View the details of a particular Order
3. Process an Order
4. Change your Password
5. Return to Start

Enter your choice: 2

---View the details of a particular Order---

Enter the Order ID: 26043

Order ID: 26043

-----  
Item has been successfully Ordered:

FRIES

3PC set meal

-----  
Order Status:    READY\_TO\_PICKUP

Dining Option:   DINE\_IN

Payment Mode:    online

-----  
STAFF LOGIN  
-----

Choose your action:

1. Display new Orders
2. View the details of a particular Order
3. Process an Order
4. Change your Password
5. Return to Start

Enter your choice: 5

Returning to the start

-----  
WELCOME TO THE FOMS APPLICATION  
-----

Please choose your login option:

1. Customer
2. Staff
3. Quit

Enter your choice: 3

**- Test case 2: Process the order and pick up**

- + The Customer will create an order and receive a confirmation with an automatically-generated OrderID. The status is NEW
- + The Staff will login to process the orders
- + The Customer can login to see the updated status as READY\_TO\_PICKUP. The Customer chose to pick up the order
- + The Staff login view the status of that order using the OrderID as PICKED\_UP

```
-----  
WELCOME TO THE FOMS APPLICATION  
-----
```

Please choose your login option:

1. Customer
2. Staff
3. Quit

Enter your choice: 1

```
-----  
CUSTOMER LOGIN  
-----
```

Please choose your current branch:

1. NTU
2. JP
3. JE
4. Return to Start

Enter your preferred choice: 1

WELCOME TO NTU!

Please choose your option as a customer:

1. View Order Status
2. Make a new Order
3. Go back

Enter your choice: 2

Please choose your action:

1. Go to Menu
2. Go to Cart
3. Checkout to make payment
4. Go Back

Enter your choice: 1

---MENU---

ID	Name	Price	Category
Description			



fries	FRIES	3,20	SIDE
Cut Potato			
set	3PC set meal	9,90	SET_MEAL
3 pieces of chicken			
nugget	chicken nugget	6,60	SIDE
Some pieces of mashed chicken			
coke	coke	2,50	DRINK
black water			
pepsi	pepsi	2,10	DRINK
brown water with gas			

Please choose your action:

1. Add item to the cart
2. Go back

Enter your choice: 1

---Add item to cart---

Enter Item ID: fries

Enter quantity: 1

Item added successfully!

Please choose your action:

1. Go to Menu
2. Go to Cart
3. Checkout to make payment
4. Go Back

Enter your choice: 3

Please choose your dining option:

1. Dine In
2. Takeaway

Enter your choice: 2

Please proceed to payment:

Available Payment Methods:

online

card

Please enter the method:

online

Payment Successful

Successful payment

Order ID: 18236

-----

Item has been successfully Ordered:

FRIES

```
-----  
Order Status:    NEW  
Dining Option:  TAKEAWAY  
Payment Mode:   online
```

```
-----  
WELCOME TO THE FOMS APPLICATION  
-----
```

Please choose your login option:

1. Customer
2. Staff
3. Quit

Enter your choice: 2

Enter ID: kumarB

Enter Password: password

Login successful.

```
-----  
STAFF LOGIN  
-----
```

Choose your action:

1. Display new Orders
2. View the details of a particular Order
3. Process an Order
4. Change your Password
5. Return to Start

Enter your choice: 3

---Process Order---

Enter the Order ID: 18236

Order ID 18236 has been processed successfully.

```
-----  
STAFF LOGIN  
-----
```

Choose your action:

1. Display new Orders
2. View the details of a particular Order
3. Process an Order
4. Change your Password
5. Return to Start

Enter your choice: 5

Returning to the start

```
-----  
WELCOME TO THE FOMS APPLICATION  
-----
```

Please choose your login option:

1. Customer
2. Staff
3. Quit

Enter your choice: 1

-----

CUSTOMER LOGIN

-----

Please choose your current branch:

1. NTU
2. JP
3. JE
4. Return to Start

Enter your preferred choice: 1

WELCOME TO NTU!

Please choose your option as a customer:

1. View Order Status
2. Make a new Order
3. Go back

Enter your choice: 1

List of Orders:

NEW:

READY TO PICK UP:

18236

Do you want to pick up your order?

1. Yes
2. No

Enter your choice: 1

Enter order ID: 18236

Pick up successfully!

-----

WELCOME TO THE FOMS APPLICATION

-----

Please choose your login option:

1. Customer
2. Staff
3. Quit

Enter your choice: 2

Enter ID: kumarB  
Enter Password: password  
Login successful.

-----  
STAFF LOGIN  
-----

Choose your action:  
1. Display new Orders  
2. View the details of a particular Order  
3. Process an Order  
4. Change your Password  
5. Return to Start  
Enter your choice: 1  
---Display new Orders---

-----  
STAFF LOGIN  
-----

Choose your action:  
1. Display new Orders  
2. View the details of a particular Order  
3. Process an Order  
4. Change your Password  
5. Return to Start  
Enter your choice: 2  
---View the details of a particular Order---  
Enter the Order ID: 18236  
Order ID: 18236  
-----

Item has been successfully Ordered:  
FRIES  
-----

Order Status: PICKED\_UP  
Dining Option: TAKEAWAY  
Payment Mode: online  
-----

-----  
STAFF LOGIN  
-----

Choose your action:  
1. Display new Orders  
2. View the details of a particular Order  
3. Process an Order  
4. Change your Password  
5. Return to Start  
Enter your choice: 5

Returning to the start

-----  
WELCOME TO THE FOMS APPLICATION  
-----

Please choose your login option:

1. Customer
2. Staff
3. Quit

Enter your choice: 3

**- Test case 3: Manager's Action (Add, Edit and Remove Items)**

```
-----  
WELCOME TO THE FOMS APPLICATION  
-----  
Please choose your login option:  
1. Customer  
2. Staff  
3. Quit  
Enter your choice: 2  
  
Enter ID: Alexei  
Enter Password: password  
Login successful.  
  
-----  
MANAGER LOGIN  
-----  
Choose your action:  
1. Display new Orders  
2. View the details of a particular Order  
3. Process Order  
4. Change Password  
5. Display the Staff List  
6. Add a new menu item  
7. Update a menu item  
8. Remove a menu item  
9. Return to Start  
Enter your choice: 6  
Enter the new item in the following format:  
ItemId,Name,Price,Category,Description  
wing,BBQ Wing,5,SIDE,Chicken wings  
wing has been successfully added to the menu  
  
-----  
MANAGER LOGIN  
-----  
Choose your action:  
1. Display new Orders  
2. View the details of a particular Order  
3. Process Order  
4. Change Password  
5. Display the Staff List  
6. Add a new menu item  
7. Update a menu item
```

8. Remove a menu item

9. Return to Start

Enter your choice: 7

---MENU---

ID	Name	Price
Category	Description	
fries	FRIES	3.2
SIDE	Cut Potato	
set	3PC set meal	9.9
SET_MEAL	3 pieces of chicken	
nugget	chicken nugget	6.6
SIDE	Some pieces of mashed chicken	
coke	coke	2.5
DRINK	black water	
pepsi	pepsi	2.1
DRINK	brown water with gas	
wing	BBQ Wing	5.0
SIDE	Chicken wings	

Select Item ID: wing

What do you want to update regarding the item ?

1. ID
2. Name
3. Price
4. Description
5. Cancel

3

Enter a new Price:

7

Price has been updated

-----  
MANAGER LOGIN  
-----

Choose your action:

1. Display new Orders
2. View the details of a particular Order
3. Process Order
4. Change Password
5. Display the Staff List
6. Add a new menu item
7. Update a menu item
8. Remove a menu item
9. Return to Start

Enter your choice: 8

---MENU---

ID	Name	Description	Price
Category			
fries	FRIES		3.2
SIDE	Cut Potato		
set	3PC set meal		9.9
SET_MEAL		3 pieces of chicken	
nugget	chicken nugget		6.6
SIDE	Some pieces of mashed chicken		
coke	coke		2.5
DRINK	black water		
pepsi	pepsi		2.1
DRINK	brown water with gas		
wing	BBQ Wing		7.0
SIDE	Chicken wings		
Select Item ID: wing			
wing	BBQ Wing		7.0
SIDE	Chicken wings		
Confirm remove?			
1. Yes			
2. No			
1			
Item has been removed			
-----			
MANAGER LOGIN			
-----			
Choose your action:			
1. Display new Orders			
2. View the details of a particular Order			
3. Process Order			
4. Change Password			
5. Display the Staff List			
6. Add a new menu item			
7. Update a menu item			
8. Remove a menu item			
9. Return to Start			
Enter your choice: 9			
Returning to the start			
-----			
WELCOME TO THE FOMS APPLICATION			
-----			
Please choose your login option:			
1. Customer			
2. Staff			
3. Quit			



Enter your choice: 3

#### - Test case 4: Manager's Actions on orders

```
/usr/bin/env /Library/Java/JavaVirtualMachines/temurin-
21.jdk/Contents/Home/bin/java -
XX:+ShowCodeDetailsInExceptionMessages -cp
/Users/ngocnguyen/Downloads/FOMS/bin operation.FOMSApp
(base) ngocnguyen@MacBook-Pro-cua-Nguyen FOMS % /usr/bin/env
/Library/Java/JavaVirtualMachines/temurin-
21.jdk/Contents/Home/bin/java -XX:+ShowCodeDetailsInEx
ceptionMessages -cp /Users/ngocnguyen/Downloads/FOMS/bin
operation.FOMSApp
-----
WELCOME TO THE FOMS APPLICATION
-----
Please choose your login option:
1. Customer
2. Staff
3. Quit
Enter your choice: 1

-----
CUSTOMER LOGIN
-----
Please choose your current branch:
1. NTU
2. JP
3. JE
4. Return to Start
Enter your preferred choice: 1

WELCOME TO NTU!

Please choose your option as a customer:
1. View Order Status
2. Make a new Order
3. Go back
Enter your choice: 2

Please choose your action:
1. Go to Menu
2. Go to Cart
3. Checkout to make payment
4. Go Back
Enter your choice: 1

---MENU---
```

ID	Name	Price	Category
Description			
fries	FRIES	3,20	SIDE
Cut Potato			
set	3PC set meal	9,90	SET_MEAL
3 pieces of chicken			
nugget	chicken nugget	6,60	SIDE
Some pieces of mashed chicken			
coke	coke	2,50	DRINK
black water			
pepsi	pepsi	2,10	DRINK
brown water with gas			

Please choose your action:

1. Add item to the cart
2. Go back

Enter your choice: 1

---Add item to cart---

Enter Item ID: fries

Enter quantity: 1

Item added successfully!

Please choose your action:

1. Go to Menu
2. Go to Cart
3. Checkout to make payment
4. Go Back

Enter your choice: 3

Please choose your dining option:

1. Dine In
2. Takeaway

Enter your choice: 1

Please proceed to payment:

Available Payment Methods:

online

card

Please enter the method:

online

Payment Successful

Successful payment

Order ID: 17301

-----

Item has been successfully Ordered:

FRIES

-----

Order Status: NEW

Dining Option: DINE\_IN

Payment Mode: online

-----

WELCOME TO THE FOMS APPLICATION

-----

Please choose your login option:

1. Customer

2. Staff

3. Quit

Enter your choice: 2

Enter ID: Alexei

Enter Password: password

Login successful.

-----

MANAGER LOGIN

-----

Choose your action:

1. Display new Orders

2. View the details of a particular Order

3. Process Order

4. Change Password

5. Display the Staff List

6. Add a new menu item

7. Update a menu item

8. Remove a menu item

9. Return to Start

Enter your choice: 5

Name: Kumar Blackmore, Age 32, Gender: MALE

Name: Elon Musk, Age 55, Gender: MALE

-----

MANAGER LOGIN

-----

Choose your action:

1. Display new Orders

2. View the details of a particular Order

3. Process Order

4. Change Password

5. Display the Staff List

6. Add a new menu item

```
7. Update a menu item
8. Remove a menu item
9. Return to Start
Enter your choice: 1
---Display new Orders---
Order ID: 17301
-----
Item has been successfully Ordered:
FRIES
-----
Order Status:    NEW
Dining Option:   DINE_IN
Payment Mode:    online

-----
MANAGER LOGIN
-----
Choose your action:
1. Display new Orders
2. View the details of a particular Order
3. Process Order
4. Change Password
5. Display the Staff List
6. Add a new menu item
7. Update a menu item
8. Remove a menu item
9. Return to Start
Enter your choice: 2
---View the details of a particular Order---
Enter the Order ID: 17301
Order ID: 17301
-----
Item has been successfully Ordered:
FRIES
-----
Order Status:    NEW
Dining Option:   DINE_IN
Payment Mode:    online

-----
MANAGER LOGIN
-----
Choose your action:
1. Display new Orders
2. View the details of a particular Order
3. Process Order
4. Change Password
```

```
5. Display the Staff List
6. Add a new menu item
7. Update a menu item
8. Remove a menu item
9. Return to Start
Enter your choice: 3
---Process Order---
Enter the Order ID: 17301
Order ID 17301 has been processed successfully.
```

```
-----
MANAGER LOGIN
-----
```

```
Choose your action:
1. Display new Orders
2. View the details of a particular Order
3. Process Order
4. Change Password
5. Display the Staff List
6. Add a new menu item
7. Update a menu item
8. Remove a menu item
9. Return to Start
Enter your choice: 9
Returning to the start
```

```
-----
WELCOME TO THE FOMS APPLICATION
-----
```

```
Please choose your login option:
1. Customer
2. Staff
3. Quit
Enter your choice: 1
```

```
-----
CUSTOMER LOGIN
-----
```

```
Please choose your current branch:
1. NTU
2. JP
3. JE
4. Return to Start
Enter your preferred choice: 1
```

```
WELCOME TO NTU!
```

Please choose your option as a customer:

1. View Order Status
2. Make a new Order
3. Go back

Enter your choice: 1

List of Orders:

NEW:

READY TO PICK UP:

17301

Do you want to pick up your order?

1. Yes
2. No

Enter your choice: 1

Enter order ID: 17301

Pick up successfully!

-----  
WELCOME TO THE FOMS APPLICATION  
-----

Please choose your login option:

1. Customer
2. Staff
3. Quit

Enter your choice: 3

(base) ngocnguyen@MacBook-Pro-cua-Nguyen FOMS %

**- Test case 5: Admin can close an existing branch**

```
-----  
WELCOME TO THE FOMS APPLICATION  
-----  
Please choose your login option:  
1. Customer  
2. Staff  
3. Quit  
Enter your choice: 2  
  
Enter ID: boss  
Enter Password: password  
Login successful.  
  
-----  
ADMIN LOGIN  
-----  
Choose your action:  
1. Display the Staff List  
2. Add, Edit or Remove Staff Accounts  
3. Promote Staff  
4. Transfer Staff/Manager  
5. Add/Remove Payment Method  
6. Open/Close Branch  
7. Add/Remove Branch  
8. Change Password  
9. Return to Start  
Enter your choice: 6  
Select branch:  
1. NTU  
2. JP  
3. JE  
4. Go Back  
3  
Branch: JE is OPEN.  
1. Close Branch  
2. Go Back  
1  
Branch: JE is now CLOSED.  
  
-----  
ADMIN LOGIN  
-----  
Choose your action:
```



```
1. Display the Staff List
2. Add, Edit or Remove Staff Accounts
3. Promote Staff
4. Transfer Staff/Manager
5. Add/Remove Payment Method
6. Open/Close Branch
7. Add/Remove Branch
8. Change Password
9. Return to Start
Enter your choice: 9
Returning to the Start page
```

```
-----
WELCOME TO THE FOMS APPLICATION
-----
```

```
Please choose your login option:
1. Customer
2. Staff
3. Quit
Enter your choice: 1
```

```
-----
CUSTOMER LOGIN
-----
```

```
Please choose your current branch:
1. NTU
2. JP
4. Return to Start
Enter your preferred choice: 4
```

```
-----
WELCOME TO THE FOMS APPLICATION
-----
```

```
Please choose your login option:
1. Customer
2. Staff
3. Quit
Enter your choice: 3
```

```
(base) ngocnguyen@MacBook-Pro-cua-Nguyen FOMS %
```

**- Test case 6: Admin's action**

- + Display staff list with some filters
- + Promote a staff to manager
- + Transfer that staff to a new branch
- + Show the staff list with filters

```
-----  
WELCOME TO THE FOMS APPLICATION  
-----
```

Please choose your login option:

1. Customer
2. Staff
3. Quit

Enter your choice: 2

Enter ID: boss

Enter Password: password

Login successful.

```
-----  
ADMIN LOGIN  
-----
```

Choose your action:

1. Display the Staff List
2. Add, Edit or Remove Staff Accounts
3. Promote Staff
4. Transfer Staff/Manager
5. Add/Remove Payment Method
6. Open/Close Branch
7. Add/Remove Branch
8. Change Password
9. Return to Start

Enter your choice: 3

Name: Kumar Blackmore, Login Id: kumarB, Age: 32, Gender: MALE,  
Role: S, Branch: NTU

Name: Mary lee, Login Id: MaryL, Age: 44, Gender: FEMALE, Role:  
S, Branch: JE

Name: Justin Loh, Login Id: JustinL, Age: 49, Gender: MALE,  
Role: S, Branch: JP

Name: Elon Musk, Login Id: ElonM, Age: 55, Gender: MALE, Role:  
S, Branch: NTU

Enter Login Id of the Staff you wish to promote: kumarB

Manager has been successfully added: Kumar Blackmore

Kumar Blackmore promoted to Manager

-----  
ADMIN LOGIN  
-----

Choose your action:

1. Display the Staff List
2. Add, Edit or Remove Staff Accounts
3. Promote Staff
4. Transfer Staff/Manager
5. Add/Remove Payment Method
6. Open/Close Branch
7. Add/Remove Branch
8. Change Password
9. Return to Start

Enter your choice: 4

Name: Alexei, Login Id: Alexei, Age: 25, Gender: MALE, Role: M,  
Branch: NTU

Name: Tom Chan, Login Id: TomC, Age: 56, Gender: MALE, Role: M,  
Branch: JP

Name: Alica Ang, Login Id: AlicaA, Age: 27, Gender: FEMALE,  
Role: M, Branch: JE

Name: Mary lee, Login Id: MaryL, Age: 44, Gender: FEMALE, Role:  
S, Branch: JE

Name: Justin Loh, Login Id: JustinL, Age: 49, Gender: MALE,  
Role: S, Branch: JP

Name: Boss, Login Id: boss, Age: 62, Gender: FEMALE, Role: A,  
Branch: boss

Name: Elon Musk, Login Id: ElonM, Age: 55, Gender: MALE, Role:  
S, Branch: NTU

Name: Kumar Blackmore, Login Id: kumarB, Age: 32, Gender: MALE,  
Role: M, Branch: NTU

Enter Login Id of Staff/Manager to transfer: kumarB

Select branch to transfer to:

1. JP
2. JE
3. Go Back

2

Manager has been successfully added: Kumar Blackmore

Manager has been removed: Kumar Blackmore

Manager transferred to JE

-----  
ADMIN LOGIN  
-----

Choose your action:

1. Display the Staff List
2. Add, Edit or Remove Staff Accounts
3. Promote Staff

```
4. Transfer Staff/Manager
5. Add/Remove Payment Method
6. Open/Close Branch
7. Add/Remove Branch
8. Change Password
9. Return to Start
Enter your choice: 1
Name: Alexei, Login Id: Alexei, Age: 25, Gender: MALE, Role: M,
Branch: NTU
Name: Tom Chan, Login Id: TomC, Age: 56, Gender: MALE, Role: M,
Branch: JP
Name: Alica Ang, Login Id: AlicaA, Age: 27, Gender: FEMALE,
Role: M, Branch: JE
Name: Mary lee, Login Id: MaryL, Age: 44, Gender: FEMALE, Role:
S, Branch: JE
Name: Justin Loh, Login Id: JustinL, Age: 49, Gender: MALE,
Role: S, Branch: JP
Name: Boss, Login Id: boss, Age: 62, Gender: FEMALE, Role: A,
Branch: boss
Name: Elon Musk, Login Id: ElonM, Age: 55, Gender: MALE, Role:
S, Branch: NTU
Name: Kumar Blackmore, Login Id: kumarB, Age: 32, Gender: MALE,
Role: M, Branch: JE
Choose how you want to filter the staff list:
1. Role
2. Branch
3. Gender
4. Age
5. Go Back
1
Select the role you wish to categorize by:
1. Staff
2. Manager
3. Cancel
2
Name: Alexei, Login Id: Alexei, Age: 25, Gender: MALE, Role: M,
Branch: NTU
Name: Tom Chan, Login Id: TomC, Age: 56, Gender: MALE, Role: M,
Branch: JP
Name: Alica Ang, Login Id: AlicaA, Age: 27, Gender: FEMALE,
Role: M, Branch: JE
Name: Kumar Blackmore, Login Id: kumarB, Age: 32, Gender: MALE,
Role: M, Branch: JE
Choose how you want to filter the staff list:
1. Role
2. Branch
3. Gender
```

4. Age
5. Go Back

2

Select the branch you wish to categorize by:

1. NTU
2. JP
3. JE
4. Cancel

3

Name: Alica Ang, Login Id: AlicaA, Age: 27, Gender: FEMALE,  
Role: M, Branch: JE

Name: Mary lee, Login Id: MaryL, Age: 44, Gender: FEMALE, Role:  
S, Branch: JE

Name: Kumar Blackmore, Login Id: kumarB, Age: 32, Gender: MALE,  
Role: M, Branch: JE

Choose how you want to filter the staff list:

1. Role
2. Branch
3. Gender
4. Age
5. Go Back

5

-----

ADMIN LOGIN

-----

Choose your action:

1. Display the Staff List
2. Add, Edit or Remove Staff Accounts
3. Promote Staff
4. Transfer Staff/Manager
5. Add/Remove Payment Method
6. Open/Close Branch
7. Add/Remove Branch
8. Change Password
9. Return to Start

Enter your choice: 9

Returning to the Start page

-----

WELCOME TO THE FOMS APPLICATION

-----

Please choose your login option:

1. Customer
2. Staff
3. Quit

Enter your choice: 3

**- Test case 7: Error-handling (Wrong credentials)**

```
/usr/bin/env /Library/Java/JavaVirtualMachines/temurin-
21.jdk/Contents/Home/bin/java -
XX:+ShowCodeDetailsInExceptionMessages -cp
/Users/ngocnguyen/Downloads/FOMS/bin operation.FOMSApp
(base) ngocnguyen@MacBook-Pro-cua-Nguyen FOMS % /usr/bin/env
/Library/Java/JavaVirtualMachines/temurin-
21.jdk/Contents/Home/bin/java -XX:+ShowCodeDetailsInEx
ceptionMessages -cp /Users/ngocnguyen/Downloads/FOMS/bin
operation.FOMSApp
```

```
-----
WELCOME TO THE FOMS APPLICATION
-----
```

Please choose your login option:

1. Customer
2. Staff
3. Quit

Enter your choice: 2

Enter ID: bo

Unknown User! Please enter a different ID.

Login failed.

```
-----
WELCOME TO THE FOMS APPLICATION
-----
```

Please choose your login option:

1. Customer
2. Staff
3. Quit

Enter your choice: 2

Enter ID: boss

Enter Password: passwo

Incorrect password. 2 trial(s) left.

Enter Password: password

Login successful.

```
-----
ADMIN LOGIN
-----
```

Choose your action:

1. Display the Staff List
2. Add, Edit or Remove Staff Accounts
3. Promote Staff
4. Transfer Staff/Manager

5. Add/Remove Payment Method
6. Open/Close Branch
7. Add/Remove Branch
8. Change Password
9. Return to Start

Enter your choice: 9

Returning to the Start page

-----  
WELCOME TO THE FOMS APPLICATION  
-----

Please choose your login option:

1. Customer
2. Staff
3. Quit

Enter your choice: 3

(base) ngocnguyen@MacBook-Pro-cua-Nguyen FOMS %

**- Test 8: Error-handling for customers**

- + Customer cannot proceed an empty order
- + If they order an item twice, it will be combined as once

```
-----  
WELCOME TO THE FOMS APPLICATION  
-----
```

Please choose your login option:

1. Customer
2. Staff
3. Quit

Enter your choice: 1

```
-----  
CUSTOMER LOGIN  
-----
```

Please choose your current branch:

1. NTU
2. JP
3. JE
4. Return to Start

Enter your preferred choice: 1

WELCOME TO NTU!

Please choose your option as a customer:

1. View Order Status
2. Make a new Order
3. Go back

Enter your choice: 2

Please choose your action:

1. Go to Menu
2. Go to Cart
3. Checkout to make payment
4. Go Back

Enter your choice: 3

You have no item in your cart! Please try again.

Please choose your action:

1. Go to Menu
2. Go to Cart
3. Checkout to make payment
4. Go Back



Enter your choice: 1

---MENU---

ID	Name	Price	Category
Description			
fries	FRIES	3,20	SIDE
Cut Potato			
set	3PC set meal	9,90	SET_MEAL
3 pieces of chicken			
nugget	chicken nugget	6,60	SIDE
Some pieces of mashed chicken			
coke	coke	2,50	DRINK
black water			
pepsi	pepsi	2,10	DRINK
brown water with gas			

Please choose your action:

1. Add item to the cart
2. Go back

Enter your choice: 1

---Add item to cart---

Enter Item ID: fries

Enter quantity: 1

Item added successfully!

Please choose your action:

1. Go to Menu
2. Go to Cart
3. Checkout to make payment
4. Go Back

Enter your choice: 1

---MENU---

ID	Name	Price	Category
Description			
fries	FRIES	3,20	SIDE
Cut Potato			
set	3PC set meal	9,90	SET_MEAL
3 pieces of chicken			
nugget	chicken nugget	6,60	SIDE
Some pieces of mashed chicken			
coke	coke	2,50	DRINK
black water			

pepsi	pepsi	2,10	DRINK
brown water with gas			

Please choose your action:

1. Add item to the cart
2. Go back

Enter your choice: 1

---Add item to cart---

Enter Item ID: fries

Enter quantity: 1

Item added successfully!

Please choose your action:

1. Go to Menu
2. Go to Cart
3. Checkout to make payment
4. Go Back

Enter your choice: 3

Please choose your dining option:

1. Dine In
2. Takeaway

Enter your choice: 1

Please proceed to payment:

Available Payment Methods:

online

card

Please enter the method:

online

Payment Successful

Successful payment

Order ID: 74026

-----

Item has been successfully Ordered:

FRIES

-----

Order Status: NEW

Dining Option: DINE\_IN

Payment Mode: online

-----

WELCOME TO THE FOMS APPLICATION

-----

Please choose your login option:

1. Customer

2. Staff

3. Quit

Enter your choice: 3

**- Test case 9: Extensibility**

- + Add/ remove a new payment method
- + Add/ remove a new branch

```
/usr/bin/env /Library/Java/JavaVirtualMachines/temurin-
21.jdk/Contents/Home/bin/java -
XX:+ShowCodeDetailsInExceptionMessages -cp
/Users/ngocnguyen/Downloads/FOMS/bin operation.FOMSApp
(base) ngocnguyen@MacBook-Pro-cua-Nguyen FOMS % /usr/bin/env
/Library/Java/JavaVirtualMachines/temurin-
21.jdk/Contents/Home/bin/java -XX:+ShowCodeDetailsInEx
ceptionMessages -cp /Users/ngocnguyen/Downloads/FOMS/bin
operation.FOMSApp
-----
WELCOME TO THE FOMS APPLICATION
-----
Please choose your login option:
1. Customer
2. Staff
3. Quit
Enter your choice: 2

Enter ID: boss
Enter Password: password
Login successful.

-----
ADMIN LOGIN
-----
Choose your action:
1. Display the Staff List
2. Add, Edit or Remove Staff Accounts
3. Promote Staff
4. Transfer Staff/Manager
5. Add/Remove Payment Method
6. Open/Close Branch
7. Add/Remove Branch
8. Change Password
9. Return to Start
Enter your choice: 5
Add/ remove payment:
1. Add
2. Remove
3. Go Back
1
Please input your payment method you want to add:
```

cash

Payment method added!

-----

ADMIN LOGIN

-----

Choose your action:

1. Display the Staff List
2. Add, Edit or Remove Staff Accounts
3. Promote Staff
4. Transfer Staff/Manager
5. Add/Remove Payment Method
6. Open/Close Branch
7. Add/Remove Branch
8. Change Password
9. Return to Start

Enter your choice: 5

Add/ remove payment:

1. Add
2. Remove
3. Go Back

2

Please input your payment method you want to remove:

cash

List of payment methods now:

online

card

-----

ADMIN LOGIN

-----

Choose your action:

1. Display the Staff List
2. Add, Edit or Remove Staff Accounts
3. Promote Staff
4. Transfer Staff/Manager
5. Add/Remove Payment Method
6. Open/Close Branch
7. Add/Remove Branch
8. Change Password
9. Return to Start

Enter your choice: 7

Choose your action:

1. Add Branch
2. Remove Branch
3. Go Back

1

New branch added

Choose your action:

1. Add Branch
2. Remove Branch
3. Go Back

1

Branch already exists

Choose your action:

1. Add Branch
2. Remove Branch
3. Go Back

2

Select branch to remove:

1. NTU
2. JP
3. JE
4. Clementi
5. Go Back

4

Removing Clementi branch will also remove all items and accounts associated with it.

Please confirm to close this branch

1. Yes
2. No

1

Branch has been successfully removed

Choose your action:

1. Add Branch
2. Remove Branch
3. Go Back

3

-----

ADMIN LOGIN

-----

Choose your action:

1. Display the Staff List
2. Add, Edit or Remove Staff Accounts
3. Promote Staff
4. Transfer Staff/Manager
5. Add/Remove Payment Method
6. Open/Close Branch
7. Add/Remove Branch
8. Change Password
9. Return to Start

Enter your choice: 9

Returning to the Start page

-----  
WELCOME TO THE FOMS APPLICATION  
-----

Please choose your login option:

1. Customer
2. Staff
3. Quit

Enter your choice: 3

(base) ngocnguyen@MacBook-Pro-cua-Nguyen FOMS %

**- Test case 10: Login system and Data persistence**

When we changed the initial password to a new one and terminate, the new password is recorded in our .csv file.

```
(base) ngocnguyen@MacBook-Pro-cua-Nguyen FOMS %
```

```
-----  
WELCOME TO THE FOMS APPLICATION  
-----
```

Please choose your login option:

1. Customer
2. Staff
3. Quit

Enter your choice: 2

Enter ID: kumarB

Enter Password: password

Login successful.

```
-----  
STAFF LOGIN  
-----
```

Choose your action:

1. Display new Orders
2. View the details of a particular Order
3. Process an Order
4. Change your Password
5. Return to Start

Enter your choice: 4

---Change Password---

Enter Old Password:

password

Enter New Password:

Newpassword

Confirm New Password:

Newpassword

Password has been successfully changed

```
-----  
STAFF LOGIN  
-----
```

Choose your action:

1. Display new Orders
2. View the details of a particular Order
3. Process an Order
4. Change your Password



5. Return to Start  
Enter your choice: 5  
Returning to the start

-----  
WELCOME TO THE FOMS APPLICATION  
-----

Please choose your login option:

1. Customer
2. Staff
3. Quit

Enter your choice: 3

```
(base) ngocnguyen@MacBook-Pro-cua-Nguyen FOMS % cd
/Users/ngocnguyen/Downloads/FOMS ; /usr/bin/env
/Library/Java/JavaVirtualMachines/temurin-21.jdk/Contents/
Home/bin/java -XX:+ShowCodeDetailsInExceptionMessages -cp
/Users/ngocnguyen/Downloads/FOMS/bin operation.FOMSApp
```

-----  
WELCOME TO THE FOMS APPLICATION  
-----

Please choose your login option:

1. Customer
2. Staff
3. Quit

Enter your choice: 2

Enter ID: kuma  
Unknown User! Please enter a different ID.  
Login failed.

-----  
WELCOME TO THE FOMS APPLICATION  
-----

Please choose your login option:

1. Customer
2. Staff
3. Quit

Enter your choice: 2

Enter ID: kumarB  
Enter Password: password  
Incorrect password. 2 trial(s) left.  
Enter Password: Newpassword  
Login successful.

-----

## STAFF LOGIN

-----

Choose your action:

1. Display new Orders
2. View the details of a particular Order
3. Process an Order
4. Change your Password
5. Return to Start

Enter your choice: 5

Returning to the start

-----

WELCOME TO THE FOMS APPLICATION

-----

Please choose your login option:

1. Customer
2. Staff
3. Quit

Enter your choice: 3

(base) ngocnguyen@MacBook-Pro-cua-Nguyen FOMS %