



Project of Softwear engineering  
(COS212)

***Online shopping***

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**Description:**

Online shopping

The customer can register to the system. he can login to the system anytime. he can browse items and select item to add it to the shopping cart. He can view his shopping cart. The customer can edit the final cart then submit the final cart for payment. The site's administrator can add, update and delete different items in the system.

**Actors:** The Customer, the System and the administrator

***Functional requirements:*****1- User Registration**

The customer can register to the system.

**2- User Login**

The customer can log in to the system anytime.

**3- Browse Items**

The customer can browse items.

**4- Shopping Cart :** The customer can select an item and add it to the shopping cart.

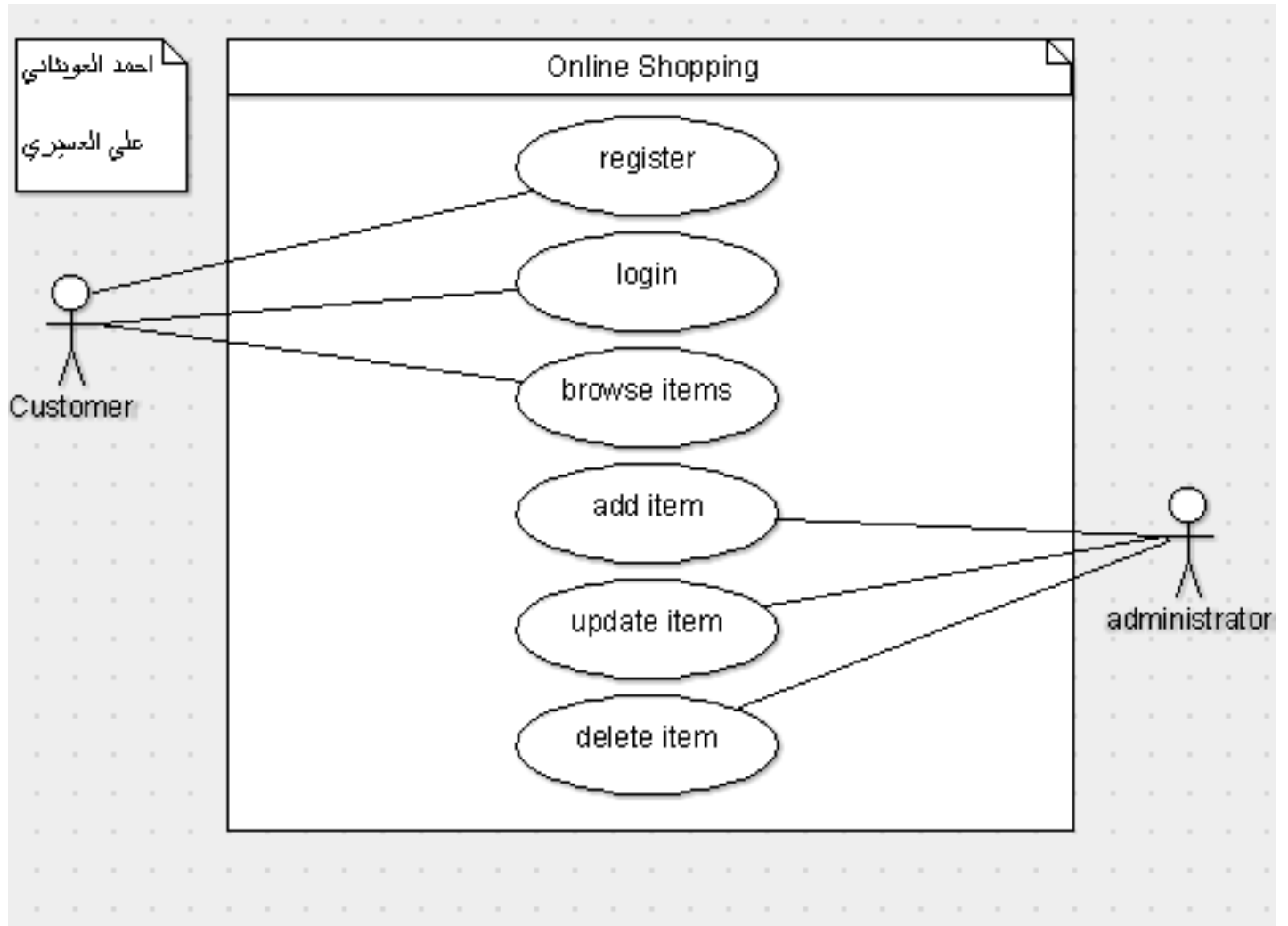
**5- Submit Cart for Payment**

The customer can submit the final cart for payment.

**6- Administrator Capabilities**

The administrator can add, update and delete different items in the system.

## Use case :



**Expanded Use Case:**

**1. User Registration**

Customer	System
Customer opens the registration page.	
Customer enters the required personal information.	
	System validates the information.
	System creates a new account in the database.
	System confirms the successful registration.

**Alternative:**

System rejects the registration because the information is incomplete.

## 2. User Login

Customer	System
Customer enters username and password.	
	System checks the login information.
	System accepts the login.
Customer gains access to the system.	

### Alternative:

System rejects login because username or password is incorrect.

### 3. Browse Items

Customer	System
Customer requests to browse items.	
	System retrieves item list from the database.
	System displays all available items.

**Alternative:**

System cannot retrieve items due to database error.

#### 4- Add item for admin

Administrator	System
Administrator selects "Add Item".	
Admin enters item information.	
	System validates the information.
	System adds the new item to the database.
	System confirms successful addition.

#### Alternative:

System requests re-entry if the information is incomplete.

## 5- Update item for admin

Administrator	System
Administrator selects "update Item".	
Admin enters update item information.	
	System validates the information.
	System updates the information item in the database.
	System confirms successful update.

### Alternative:

System requests re-entry if the information is incomplete.



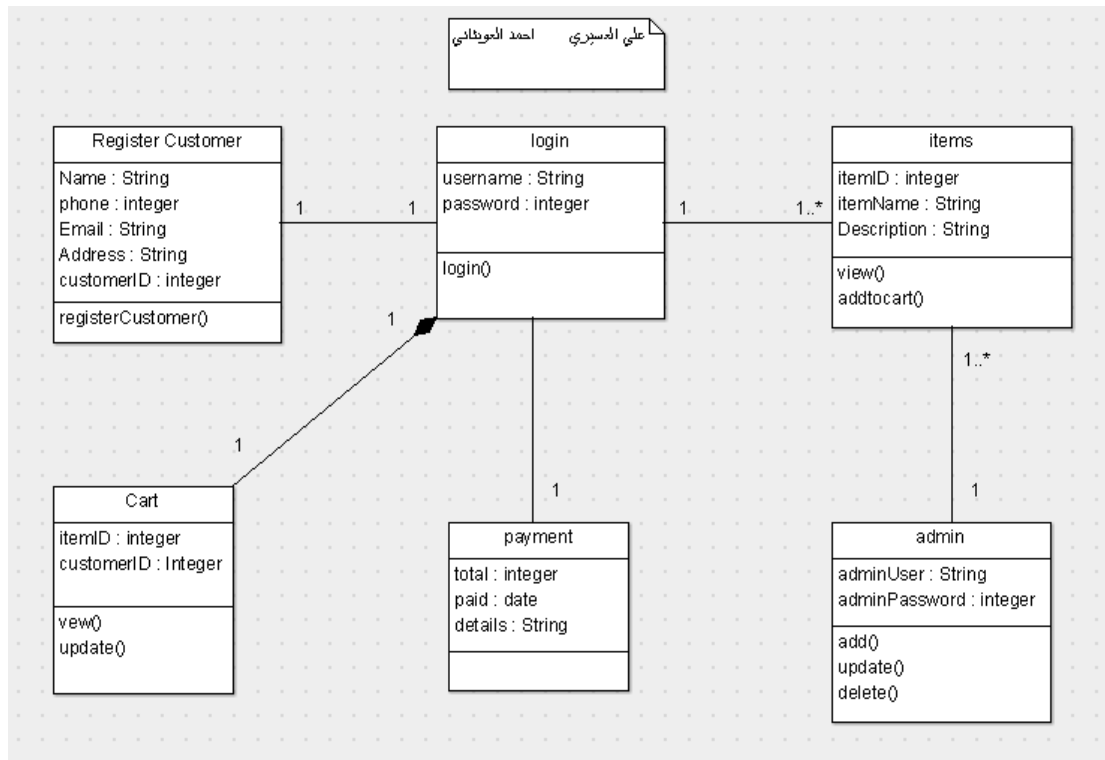
## 6- Delete item for admin

Administrator	System
Administrator selects "Delete Item".	
Administrator enters the item information to be deleted.	
	System validates the information.
	System delete the item from the database.
	System confirms successful deletion

### Alternative:

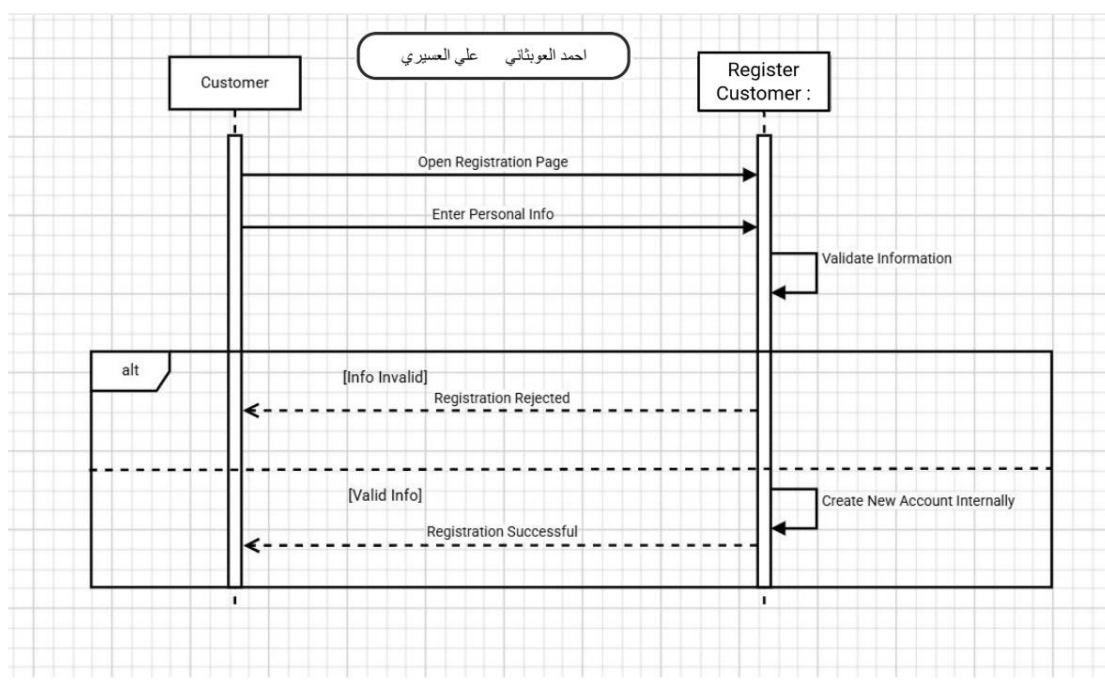
System requests re-entry if the information is incomplete.

## Class Diagram:

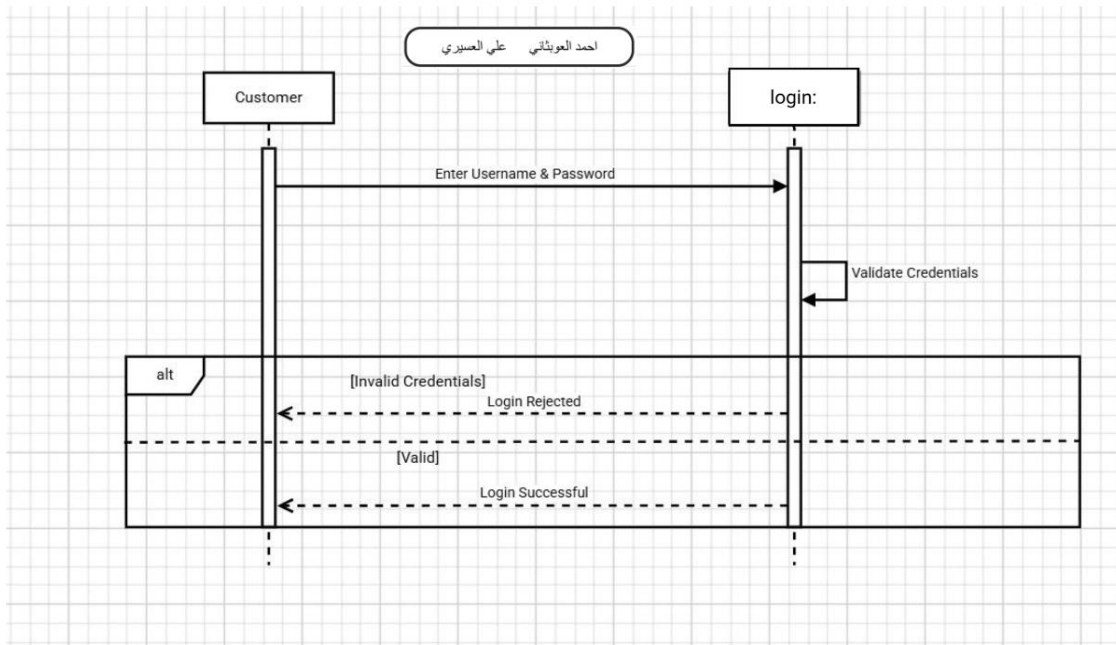


## Sequence Diagram:

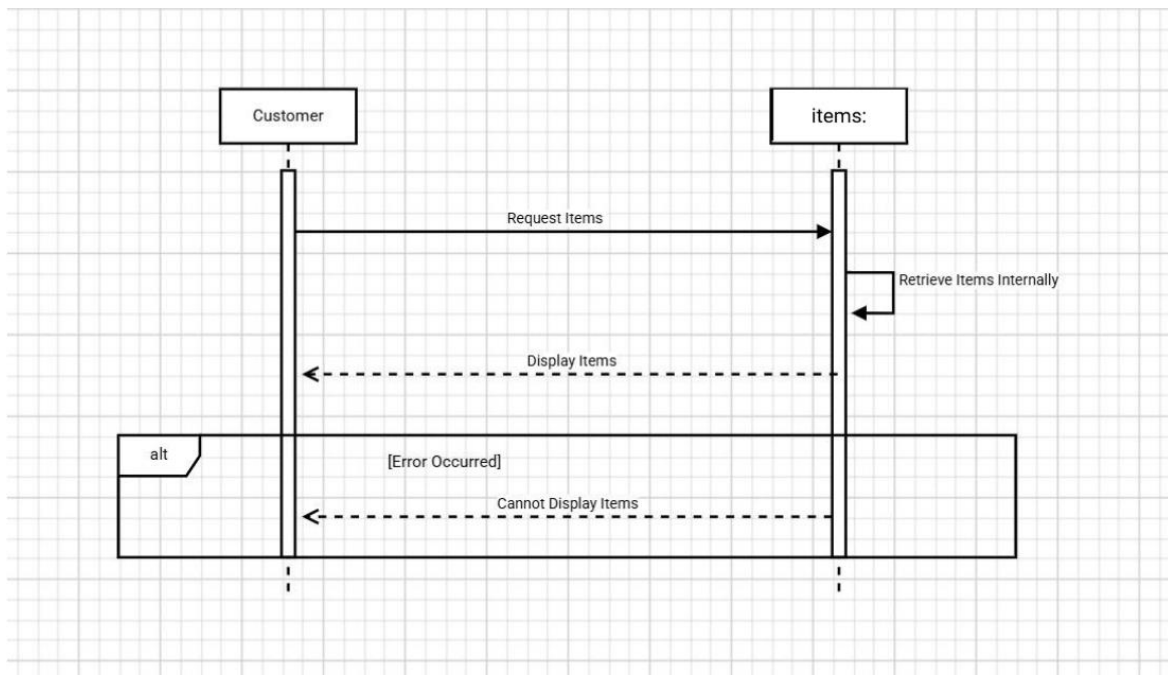
### 1-User Registration



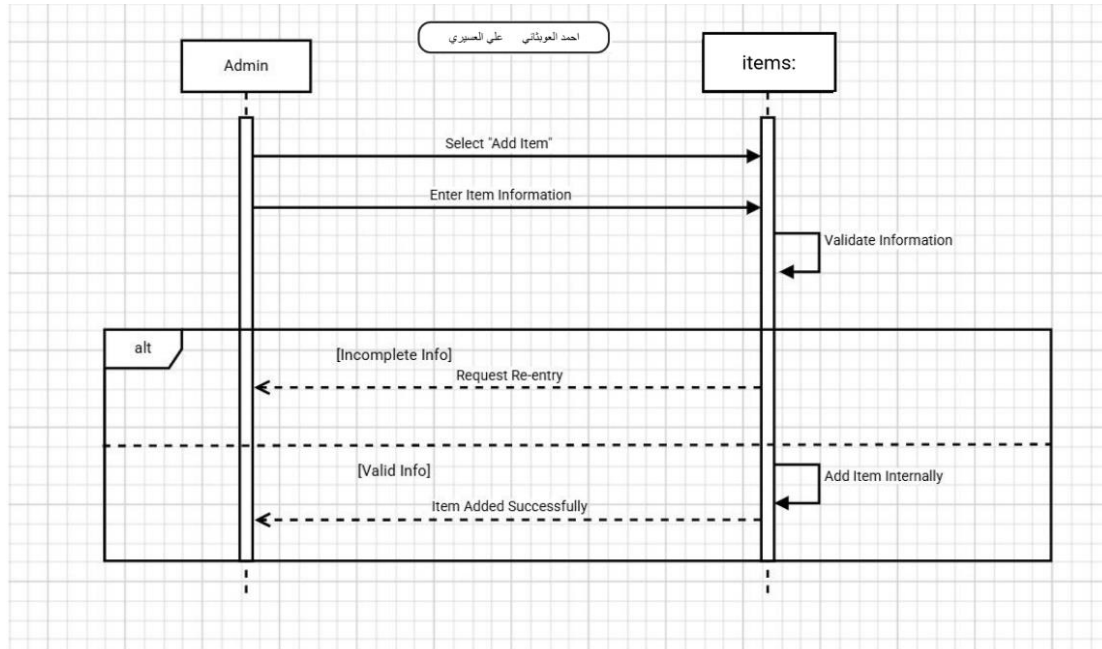
## 2- User Login



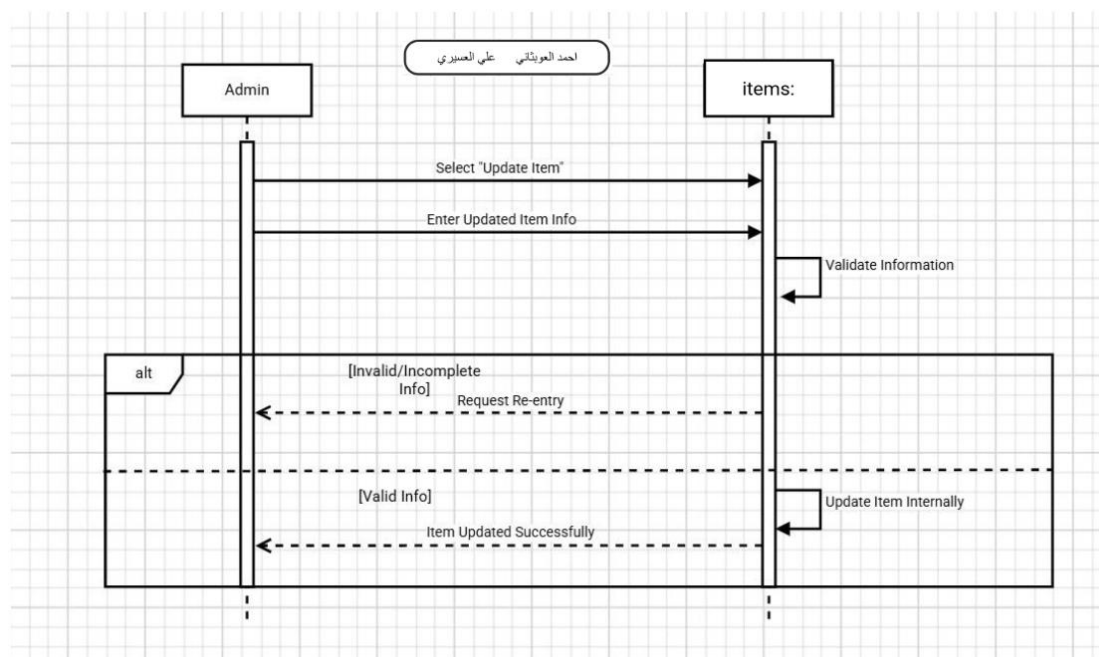
## 3- Browse Items



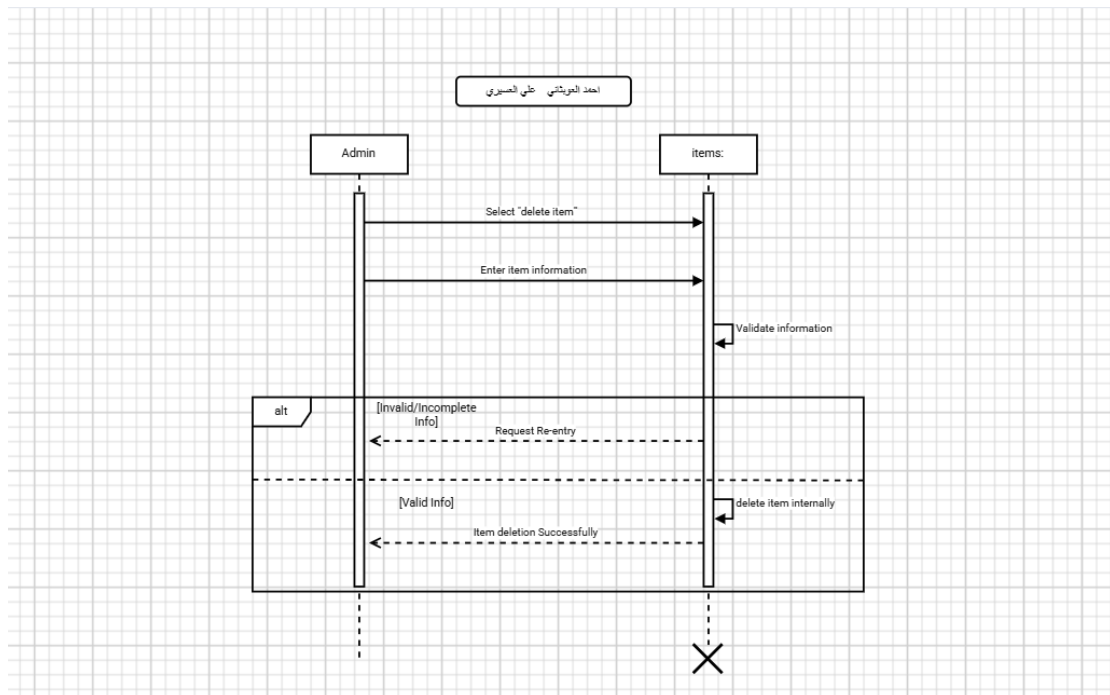
## 4- Add Item for admin



## 5- Update item for admin



## 6- Delete item for admin



## State machine for class [ Login ] :

