OOSD Lab Assignment 2- Use case Modeling

Team members:
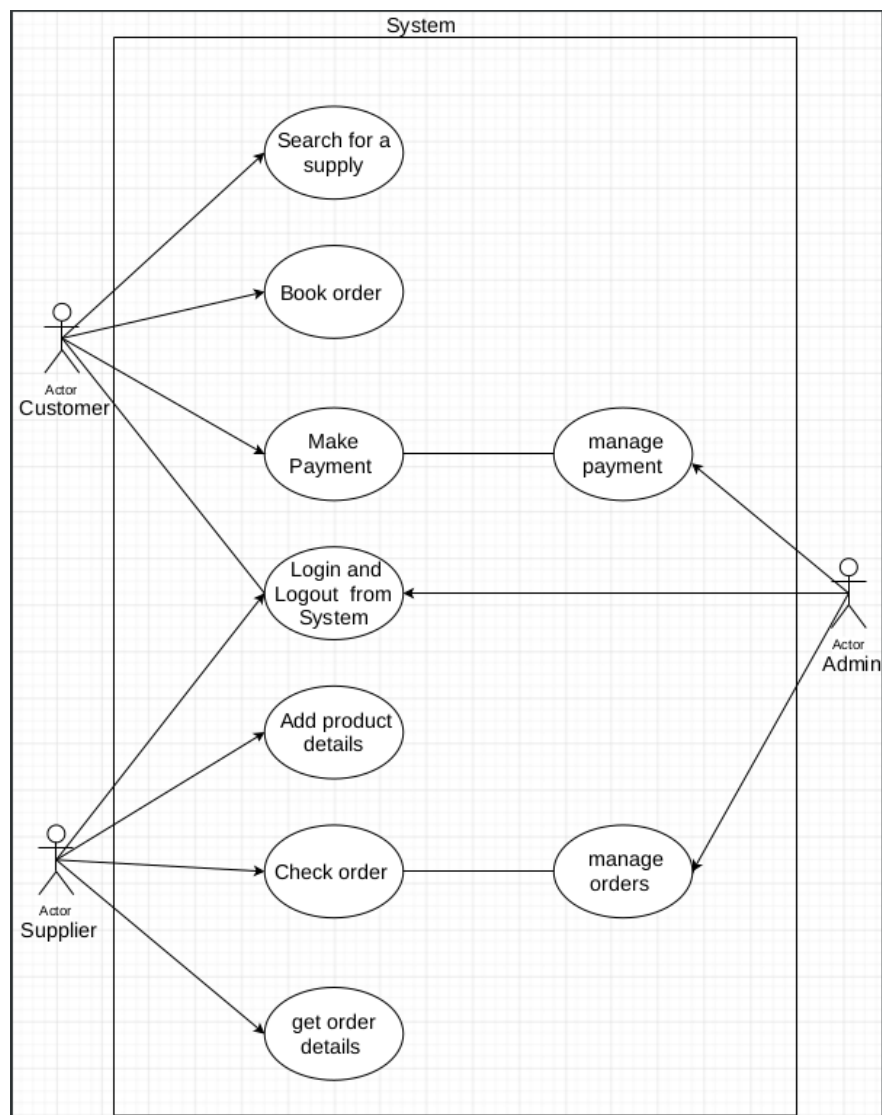
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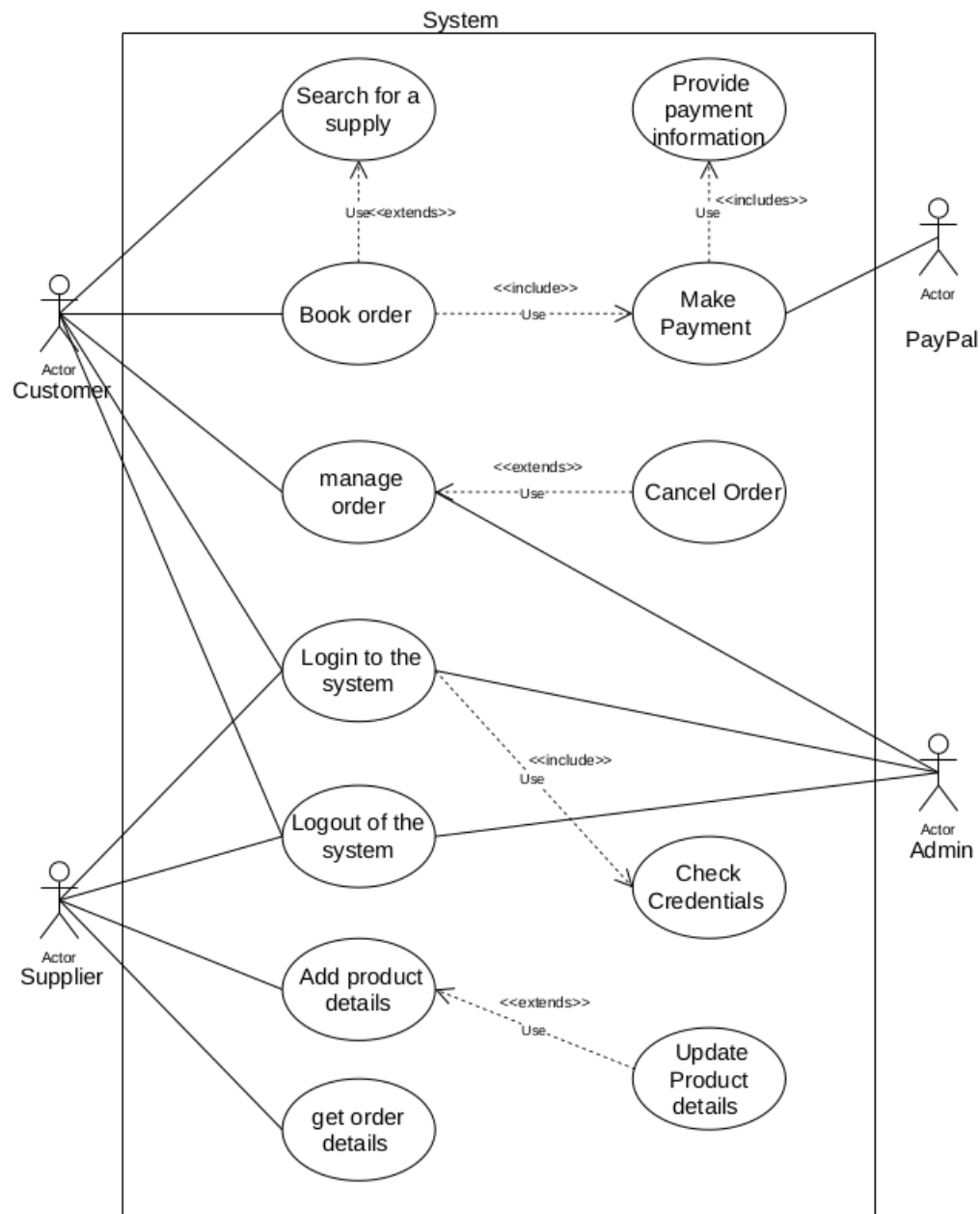Mihir Supekar, 331031
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Basic Use case diagram :

Enhanced Use case diagram:

Use case specifications:

1.Login into the account :

Use case: Login
Id:UC1

Actors:
    1. User (Buyer and seller)
    2. Admin

Preconditions: Users must be registered.

Flow of events:
    1. System opens "Login page"
    2. User enters login id and password
    3. <<include>>(Check credentials)
    4. The system displays the Main Form and the use case ends.

Postconditions: There are no postconditions associated with this use case.

2. Check Credentials:

Use Case: Check Credentials
ID : UC 2

Actors:
    1. User (Customer/ Supplier)
    2. System

Preconditions: User should enter the login details

Flow of Events:
    1. System accepts the login details
    2. System searches the database for these login details

3. If the login credentials are correct
    3.1 System loads the user's profile .
4. Else
    4 .1 While the user enters correct credentials reload the login page.

Postcondition: There are no postconditions associated with this use case.

3. Search for a Supply:

Use Case : Search for a Supply
ID: UC 3

Actors:
    1. Customer
    2. System

Preconditions: Customer should be logged into his account

Flow of events:
    1. Use case starts when customer clicks on search icon
    2. Customer types the name of specific product
    3. System searches the name into its database
    4. If available then system displays the product
    5. If user wants to order the supply
        5.1 <Book an Order>

Postconditions:The customer can see the product searched

4. Book an Order:

Use case: Book an Order
ID: UC 4

Actors:
    1. Customer
    2. System

Precondition: 1. Customer should be logged into his account

2. Customers should select a specific product.

Events:
    1. Customer specifies quantity of product to be ordered
    2. System checks if a given quantity is available.
    3. System provides billing details
    4. <<include>>(Make Payment)
    5. System updates the payment log and the database

Postcondition:User gets a notification that the order has been placed

5. Get order details:

Use case : Get order details
ID : UC 5

Actors:
    1. Supplier
    2. System

Precondition: 1. Supplier should be logged into the system

Flow of events:
    1. Supplier selects the Get order details option
    2. System searches the database for all the customer who have placed an order from this specific supplier
    3. System displays all of these orders
    4. Supplier enter the order ID
    5. System opens the order details

Postcondition: There are no postconditions associated with this use case.

6. Make Payment:

Use Case: Make Payment
ID: UC6

Actors: Customer
Precondition: Actor should have confirmed the order

Flow of events:
    1. Actor clicks on Make Payment
    2. System displays different payment options
    3. Actor selects preferred Payment option
    4. system redirects to Payment Gateway
    5. <<include>>(provide payment information)

Postconditions: Actor successfully makes the Payment

7. Provide Payment Information

ID: UC7

Actors:
    1. Customer
    2. Paypal

Precondition:
    1. Customer should be logged into the system.
    2. Customer should have completed payment.

Flow of events:
    1. Paypal accepts the request to provide payment information
    2. Paypal searches the database for the payment
    3. If the payment details are found
        3.1 Display the payment information
    4. Else
        4.1 Paypal notifies that no such payment details were found.

Postcondition: There are no postconditions associated with this use case.

8. Add Product Details

Use case: Add Product Details
ID: UC8

Actors:
    1.   Supplier
    2.   System

Precondition: 1.   Supplier should be logged into the system

Events:
    1.   Supplier chooses the option Add product /Update product details
    2.   if supplier selects update product details
       2.1 <Update product details>
    3.   Else
       3.1 Supplier specifies product details
       3.2 System accepts the product details and adds to the database
       3.3 System notifies supplier that product is added

Postcondition: Supplier gets notified that the product has been added

9. Update product details:

Use Case: update product details
ID : UC 9

Actors:
    1.   Supplier
    2.   System

Precondition:
    1.   Supplier should be logged into the system
    2.   Suppliers should have added product details

Flow of events:
    1.   Supplier selects the product to be updated
    2.   System displays that product's details to be updated
    3.   Supplier updates the details(price, photos, information) as required
    4.   System accepts the updated details and updates the database accordingly

Postcondition: Supplier gets notified that the product details have been updated.

10. Manage Orders:

Use case : Manage Orders
ID : UC10

Actors:
   1. Customer
   2. System

Precondition: 1. Customer should be logged into the system

Flow of events:
   1. Customer selects "Manage orders"
   2. System displays orders history of the customer.
   3. Customer selects a specific order by selecting order ID
   4. System displays the order details and option to cancel order
   5. If customer selects cancel order
     5.1 <Cancel Order>

Postcondition: There are no postconditions associated with this use case.

11. Cancel Order

Use Case: Cancel Order
ID : UC 11

Actors:
   1. Customer
   2. System

Precondition:
   1. Customer should be logged into the system
   2. Customer should have made an order

Flow of events
   1. Customer selects "Cancel order " from the specific order details.
   2. System confirms again that the order is to be cancelled
   3. System asks the reason for cancelling the order
   4. Customer specifies the reason
   5. System updates the database with new order details.

Postcondition: System notifies the customer that the order has been cancelled.

12. Log out

Use case: Log out
ID : UC 12
Actors :   1. User (customer/supplier)   2. System
Precondition: 1. Actor should be logged into the system
Flow of events: 1. User Selects the Log out option   2. System confirms whether the User wants to log out   3. User Confirms to log out   4. System saves user details in database and logs out of the system
Postcondition: There are no postconditions associated with this use case.