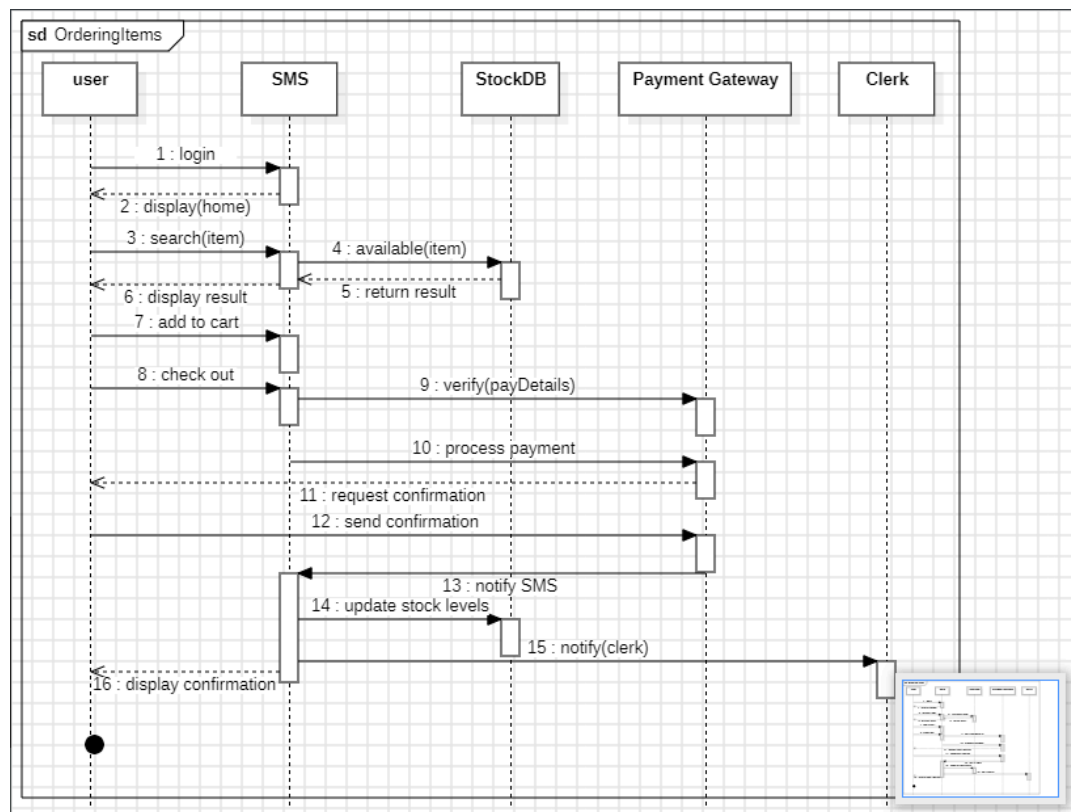## 4.6 Sequence Diagram

Scenario used:

1. Guest logs into the Stock Maintenance System.
2. Guest searches for available items and selects a product.
3. The System verifies the availability of the selected item in the Stock Database.
4. System displays the item availability status to the Guest.
5. Guest confirms the item details and proceeds to checkout.
6. System verifies the payment details through the Payment Gateway.
7. Payment Gateway confirms the payment status.
8. System processes the payment and confirms the payment to the Guest.
9. System updates the Stock Database to reflect the purchase.
10. System notifies the Store Clerk of the successful transaction.
11. System displays the purchase confirmation to the Guest.
12. Guest logs out of the system. SIMPLE SEQUENCE DIAGRAM BELOW

ADVANCED

sd OrderingItems

| user | SMS | StockDB | Payment Gateway | Clerk |

1 : login

2 : display(home)

3 : search(item)

4 : available(item)

5 : return result

6 : display result

7 : add to cart

8 : check out

9 : verify(payDetails)

10 : process payment

11 : request confirmation

12 : send confirmation

13 : notify SMS

14 : update stock levels

15 : notify(clerk)

16 : display confirmation