UML CLASS DIAGRAM

Product

name: String quantity: int price: double sku: String

Product(name: String, quantity: int, price: double, sku: String) toString(): String

toFile(): String

InventoryManager

inventory: ArrayList<Product> (static) scanner: Scanner (static)

> main(String[] args): void addProduct(): void addProductFromFile(): void removeProduct(): void updateFile(): void viewInventory(): void editProduct(): void searchInventory(): void

User

Username Password

login(): void logout(): void

StoreOwner

recieveStockNotifs(): void generateSalesReport(): void

Customer

searchItems(): void addToCart(): void leaveReview(): void

UML SEQUENCE DIAGRAM

```
Customer → InventoryManager: searchInventory(query)
InventoryManager → InventoryManager: search inventory list
InventoryManager → Customer: display search results
```

- 1) Customer sends a searchInventory(query) request to the InventoryManager in order to search for the product asked by the customer.
- 2) The InventoryManager searches the inventory list.
- 3) The InventoryManager finds what the customer has asked for and sends this information back to the Customer, displaying the search results.