Project Title:

Inventory & Order Management System

Details:

This project will provide a way to manage inventory of products and process orders to a business. It will also provide a user-friendly interface to the customers to place orders, browse available products, sort them from cheapest to most expensive or from most expensive to cheapest, view prices, stock etc.

Functional Requirements

This application has two sets of functional requirements for its two types of users. One is the admin and the other is the customer:

As an admin:

- I should be able to add a new product to the system.
- I should be able to list all products.
- I should be able to get all the product details.
- I should be able to update the product details.
- I should be able to safely exit the system.

As a customer:

- I should be able to view all the available products along with their details.
- I should be able to sort the products from cheapest to most expensive.
- I should be able to sort the products from most expensive to cheapest.
- I should be able to safely exit the system.

Wireframes

Login:

```
********************************************************************************
*                  Smart Inventory & Order Management System                  *
********************************************************************************

Login Menu >
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1. As an admin.
2. As a customer.

Enter your choice: |
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Admin Screen:

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*                     Smart Inventory & Order Management System               *
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Admin Menu >
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1. Add products.
2. List All products.
3. Check product details.
4. Update product details.
5. Process orders.

Enter your choice: 2
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Add products:

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Enter product name: Apple
Enter product price: $2.00
Enter number of items in stock: 69
```

List all products:

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Following are all the available products:

Apple
Banana
Mango
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Product details:

```
Product details:

Name: Apple
Price: $2
Stock: 69
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Name: Banana
Price: $5
Stock: 56
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Name: Mango
Price: $4.5
Stock: 45
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```

Update details:

```
Product details:

Name: Apple
Price: $2
Stock: 69
_____
Name: Banana
Price: $5
Stock: 56

_____
Name: Mango
Price: $4.5
Stock: 45
_____
```

Customer Menu:

```
************************************************************************************
*                    Smart Inventory & Order Management System                    *
************************************************************************************

Customer Menu >
_____
1. List All products along with the details.
2. Sort all products from cheapest to most expensive.
3. Sort all products from most expensive to cheapest.
4. Place an order.
5. Exit
Enter your choice: |
```

List:

```
Product details:

Name: Apple
Price: $2
Stock: 69
_____
Name: Banana
Price: $5
Stock: 56

_____
Name: Mango
Price: $4.5
Stock: 45
_____
```

Sort cheapest to expensive:

```
Enter your choice: 2
1. Mango
2. Banana
3. Apple
```

Sort expensive to cheapest:

```
Enter your choice: 3
1. Apple
2. Banana
3. Mango
```

Place order:

```
Enter the product you want to buy:
1. Apple
2. Banana
3. Mango

Enter your choice: 2
Enter number of items: 69
Out of stock!
```