Software Requirements Specification Document

School Library Stock Management

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1.0 Introduction

1.1. Purpose

The purpose of this document is to present a detailed description of the School Library Stock Management System. It will explain the purpose and features of the system, the interfaces of the system, what the system will do, the constraints under which it must operate and how the system will react to external stimuli.

1.2. Scope of Project

The scope of this project includes:

1. User management

2. Managing incoming and outgoing products

3. Inventory management

4. Product inventory

5. Creating reports

2.0. Overall Description

2.1 User Needs

The School Library Stock Management System has three active actors.

2.1.1 Super admin:

- Needs to manage the information of other users of the system.
- Needs to view information of the incoming and outgoing of products, best selling products, and products that went out of stock.
- Needs to update their password to maintain security.
- Needs to view the products available in stock and be able to add a product or edit, and remove products from Stock.
- Needs to add products to the system, edit available product information as well as delete a product from the system. And view the products and filter through them to choose the products to add to an order, as well as being able to view orders and edit or remove an order.

2.1.2 Sales employee:

- Needs to view the products and filter through them to choose the products to add to an order
- Needs to be able to view orders and edit or remove an order.

2.1.3 Warehouse employee:

- Needs to view the products available in stock and be able to add a product or edit, and remove products from Stock.

2.2 Usage Scenarios

2.2.1 Scenario: A successful login

1. User executes the program, and the Login page appears.
2. User enters username and password and press login.
3. A successful login message appears.
4. User presses the ok button and the main page of the system appears.

2.2.2 Scenario: Successfully adding a product to stock

1. From the main page click on “stock management”, the stock management page appears.
2. Double click on a product from the product list, the product’s info appears on the left panel.
3. Set the quantity and click the “add” button, the product successfully appears in the “products in stock” list.

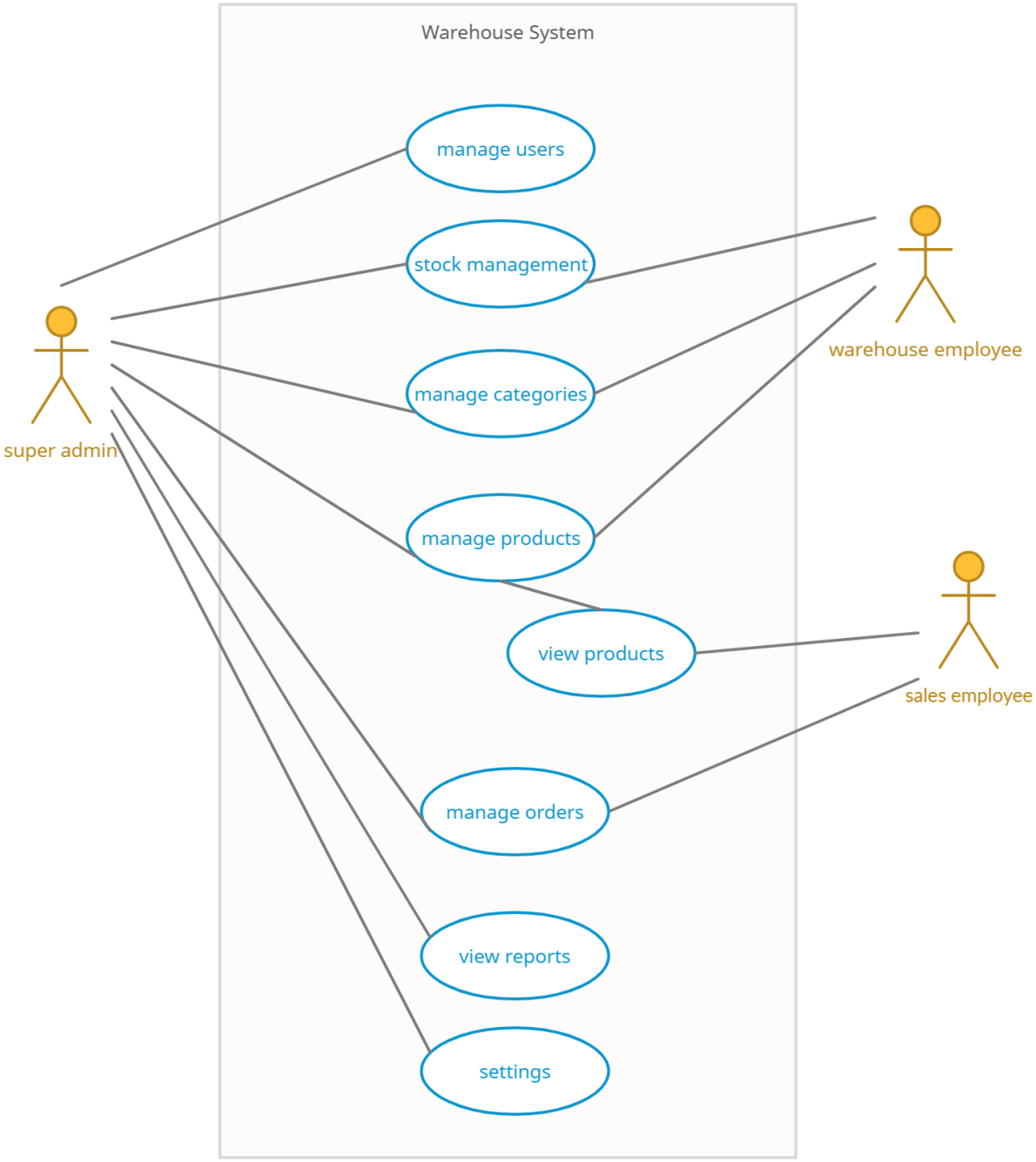
2.2.3 scenario: Editing the quantity of a specific product

1. From the main page click on “products”, the product page appears.
2. From the filter dropdown menu choose “name”.

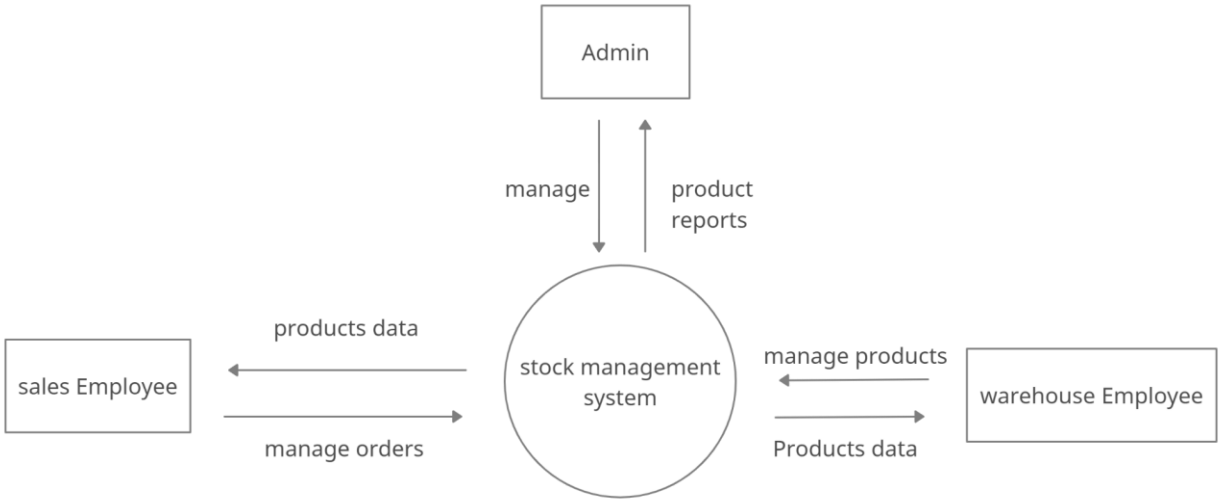
3. Type “Product 1” in the search field and click the “search” button, only “Product 1” will be shown in the products’ list.
4. Double click on “Product 1” from the list, the product’s information will appear in the left panel.
5. Edit the quantity and click the “edit” button, the product’s quantity will be updated in the products’ list.

2.3 Diagrams

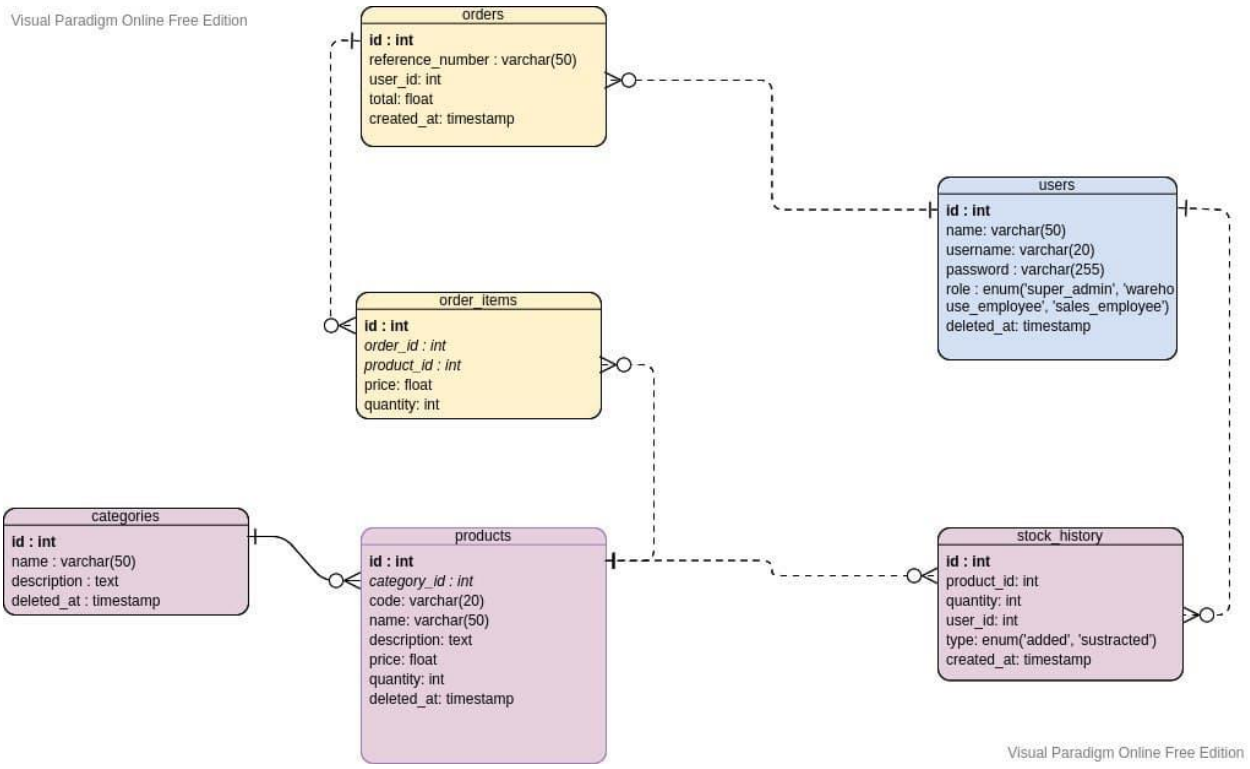
2.3.1 UseCase Diagram



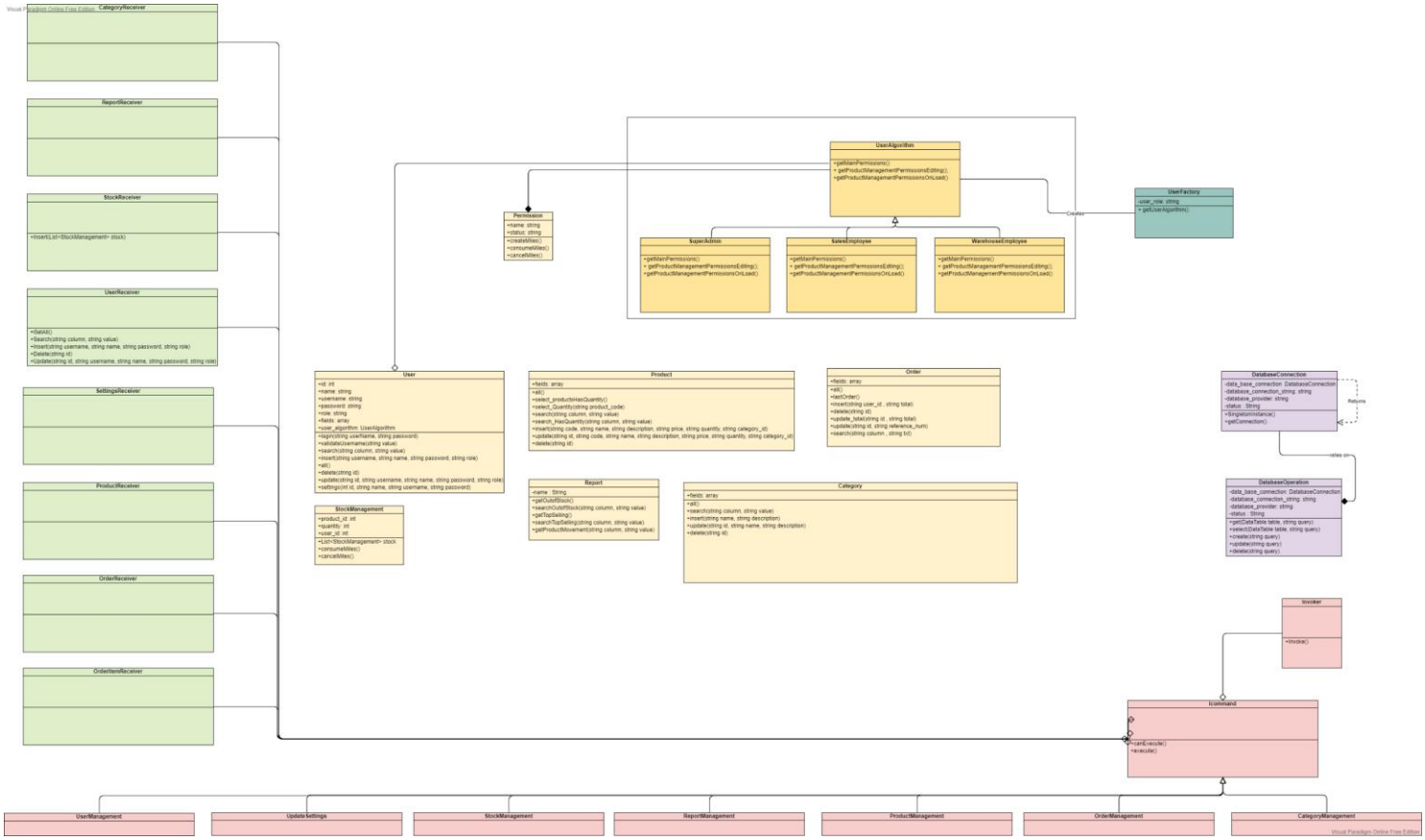
2.3.2 Context Diagram



2.3.3 ERD Schema



2.3.3 Class Diagram



3.0. System Features and requirements

3.1 Functional Requirements

The main purpose of functional requirements is to define all the activities or operations that take place in the system.

1. The System holds the details of all Product Stocks held in the ware-house.

2. The System monitors incoming and outgoing products.

3. It allows super admin to login to the system and view information of the incoming and outgoing of products, best selling products, and products that went out of stock.

4. It also allows super admin to view the products available in stock and be able to add a product or edit, and remove products from Stock.

5. Also, super admin is allowed to add products to the system, edit available product information as well as delete a product from the system. And view the products and filter through them to choose the products to add to an order, as well as being able to view orders and edit or remove an order.

6. The system allows the Sales employee to login to the system and view the products and filter through them to choose the products to add to an order, as well as being able to view orders and edit or remove an order.

7. The system allows the Warehouse employee to login to the system and be able to add a product or edit, and remove products from Stock.

8. It allows the super admin to view the list of users and be able to add a user or edit ,and remove users from the database.

9. The system allows super admin to manage the information of other users of the system.

10. It allows super admin to generate Product Movement details reports.

11. It allows super admin to generate outwards detailed reports.

12. It allows super admin to generate Top Selling details reports.

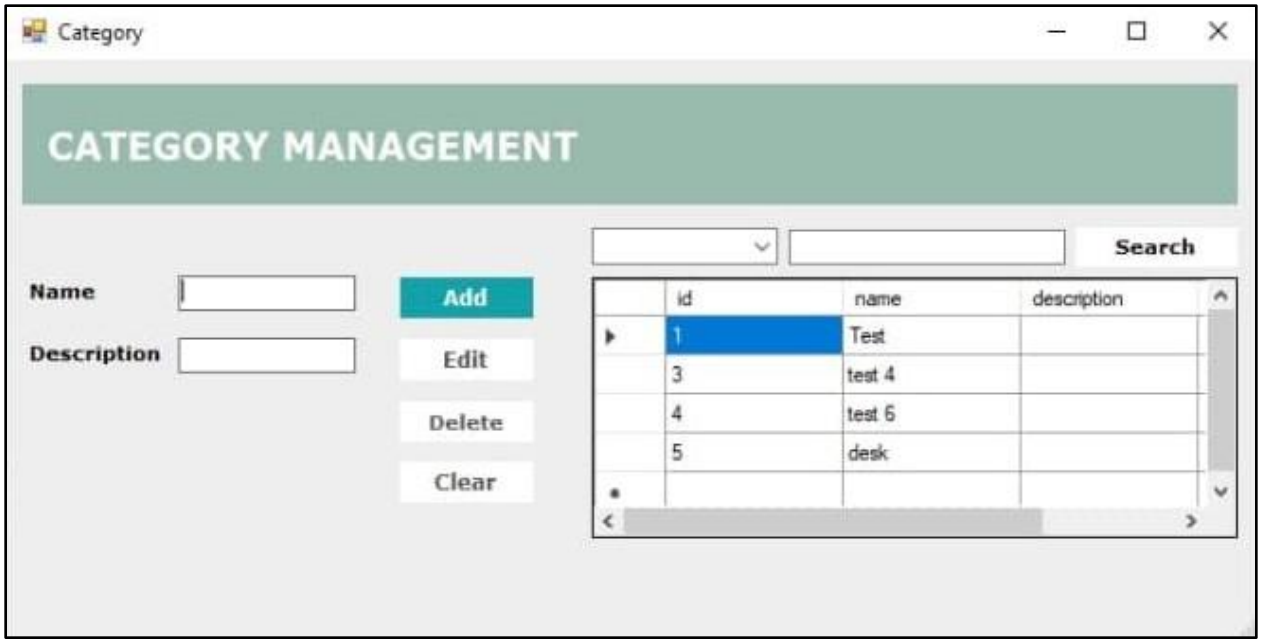
13. It allows any user to logout when he wants to leave the system.

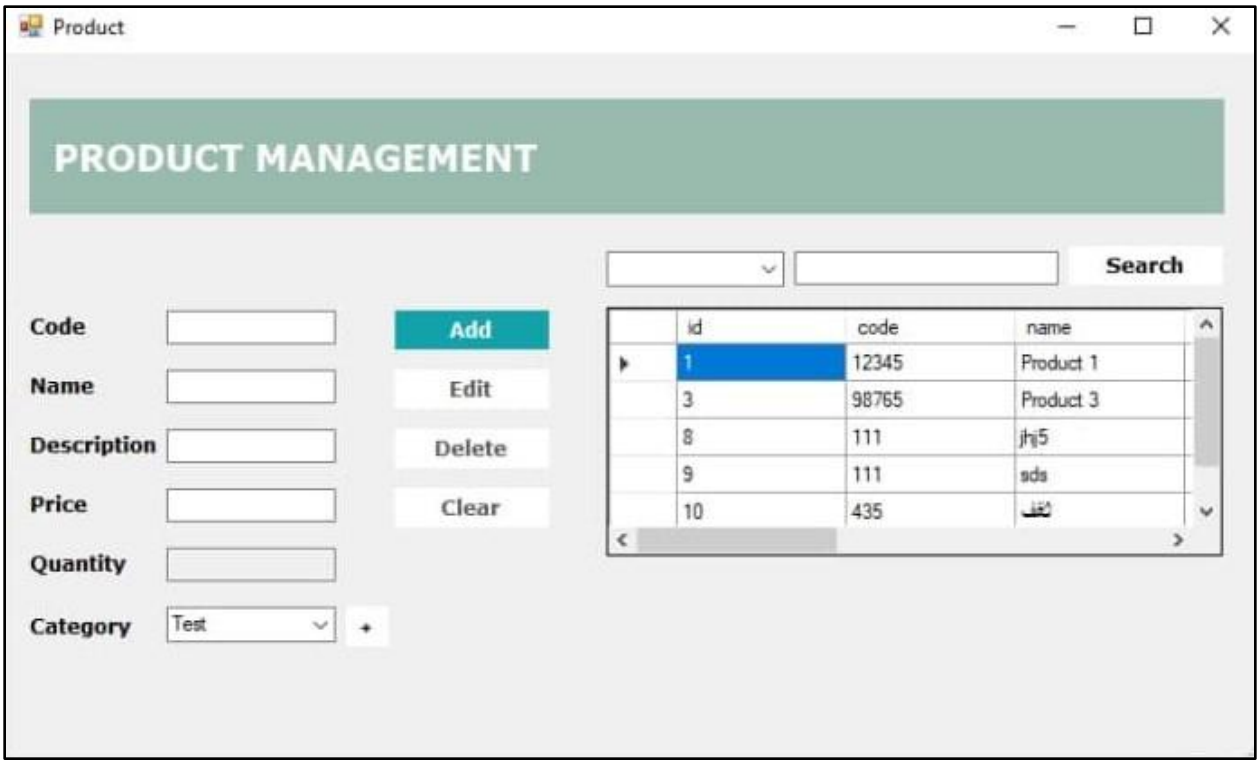
3.2 Nonfunctional Requirements

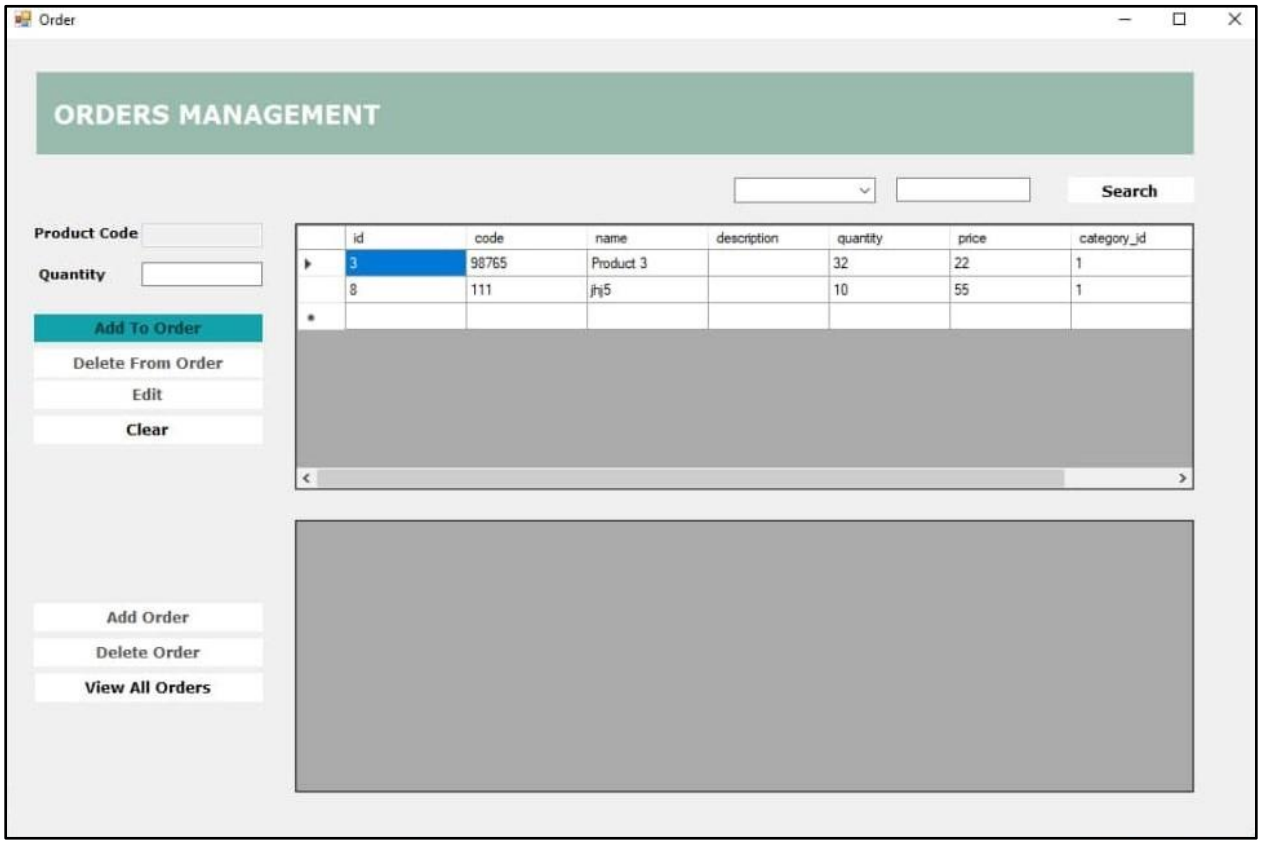
1. The system load time should not be more than two seconds for users.
2. Only the users with the role “super admin” can view the users’ information.
3. The system interface has to be user-friendly and easy to use.
4. Users can access the system all the time without fail.
5. Users can reach their goals quickly.

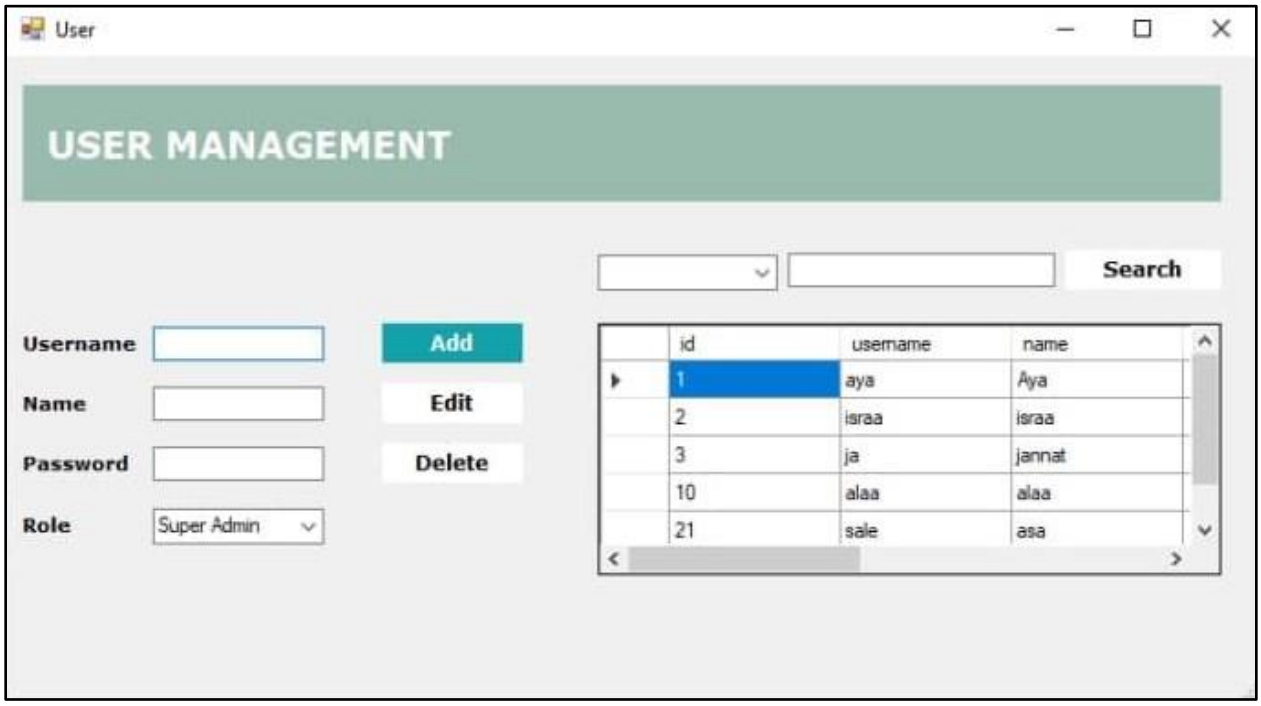
3.3 User Interfaces

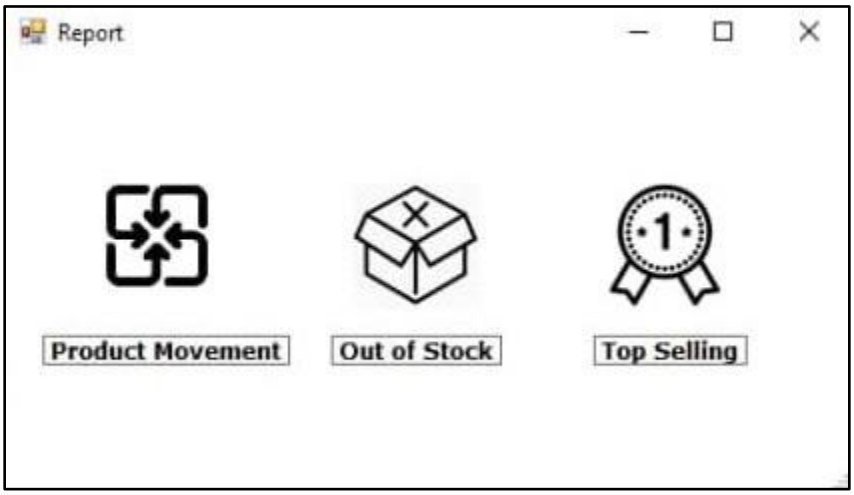
Dashboard
Users
Categories
Products
Stock Management
Reports
Orders
Logout
Settings

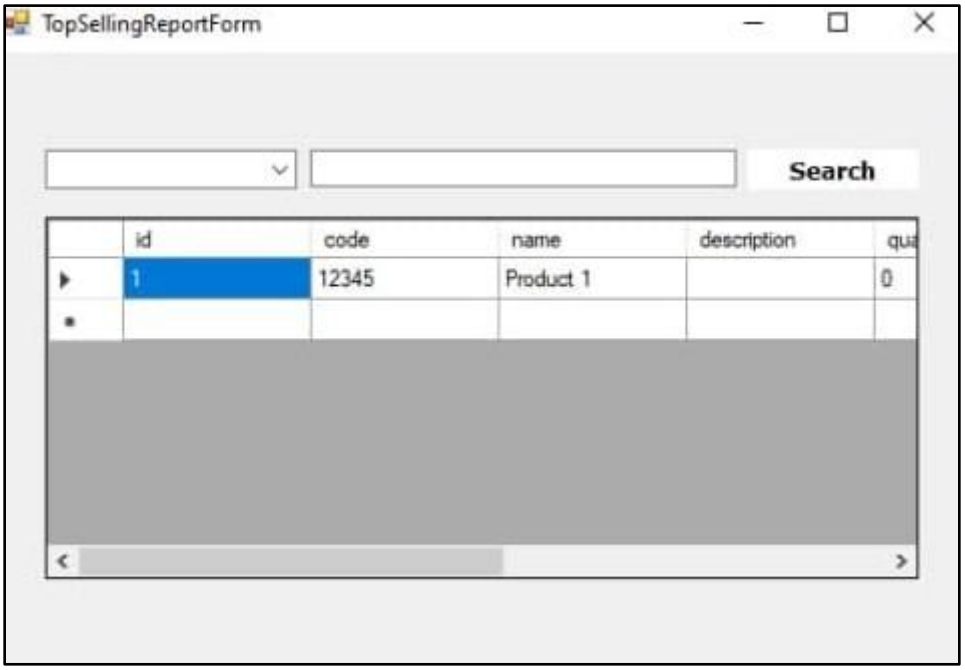

Category
CATEGORY MANAGEMENT
Search
Name
Description
Add
Edit
Delete
Clear
id
name
description
1
Test
3
test 4
4
test 6
5
desk

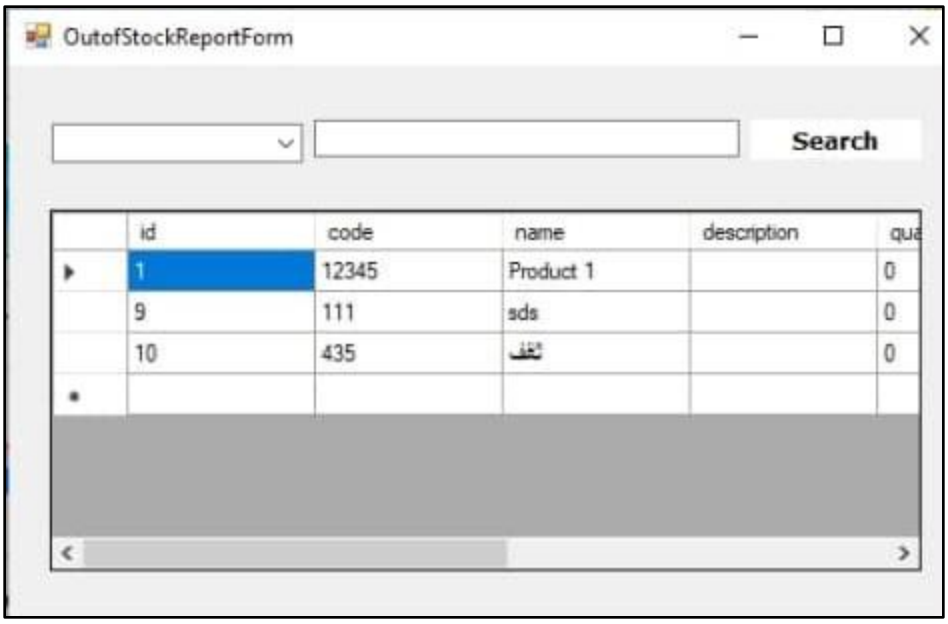

Product
PRODUCT MANAGEMENT
Search
Code
Name
Description
Price
Quantity
Category
Test
Add
Edit
Delete
Clear
id
code
name
1
12345
Product 1
3
98765
Product 3
8
111
jhj5
9
111
sds
10
435


Order
ORDERS MANAGEMENT
Search
Product Code
Quantity
Add To Order
Delete From Order
Edit
Clear
id
code
name
description
quantity
price
category_id
3
98765
Product 3
32
22
1
8
111
jhj5
10
55
1
Add Order
Delete Order
View All Orders


User
USER MANAGEMENT
Search
Username
Name
Password
Role
Super Admin
Add
Edit
Delete
id
username
name
1
aya
Aya
2
israa
israa
3
ja
jannat
10
alaa
alaa
21
sale
asa


Report
Product Movement
Out of Stock
Top Selling


TopSellingReportForm
Search
id
code
name
description
qua
1
12345
Product 1
0


OutofStockReportForm
Search
id
code
name
description
qua
1
12345
Product 1
0
9
111
sds
0
10
435
0

ProductMovementReportForm
Search