Software Requirements Specification
For the
Project
“EtaCO”

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1. Introduction

1.1 Purpose :

The Purpose of this website is to enable the users(Employees of ShopCo, a large retail company) to create the invoice for the items being purchased by the customers.For this, the users have to first register in this website, only then they can create the invoice/bills for the items being bought. Besides, creating an Invoice, this website also allows to create new products, adding them in inventory and also viewing them, adding the new cashier and viewing his/her details.

1.2 Product Scope :

The purpose of this website is to ease the invoice creation for the employees of ShopCO and to also create a convenient and easy-to-use method for them.The system is based on a database named “MongoDB” which stores the information about the different Users,Invoices and the Products which will allow to easily retrieve the required data within the website. Above all, we hope to provide a comfortable user experience along with the easy to use interface.

2. Overall Description

2.1 Product Perspective

This website stores the following information :
User Details :
It includes User’s FullName,Username,Email and Password.

Invoice Details :
It includes Invoice Number,Date of Invoice,Customer Name,Address,Serial Number,Product ID,Item Name,Quantity of Item,Price of Item and Total Amount.

Product Details :
It includes the Product Name,Product ID, Department,Brand Name and Category.

2.2 Product Features

Following are the **Features** of the Product :

- Login Functionality
- Logout functionality
- Registration Functionality
- Search Functionality
- Create Invoice Functionality
- Edit/Delete Invoice Functionality
- Add Cashier Functionality
- Add Product Functionality
- View Cashier Details Functionality
- View Products Functionality
- Order Product Functionality
- Inventory Functionality

2.3 Operating Environment

Operating environment for the system is as listed below.

- Client/server system
- Operating system: Windows/Mac/Linux
- Database:MongoDB
- Front End : HTML,CSS and JavaScript
- Back End : JavaScript and Node.js

3. System Features

The System Features cover both Functional and Non-Functional Requirements:

3.1 Functional Requirements

Following are the **Functional Requirements** for this web application :

S.NO	Module/Feature	Function
1	User Registration	It will allow the user to get registered in the website.
2	User Login	It will allow the user to log in into his/her account.
3	User Logout	It will allow the user to logout of his/her account.
4	Search	It will allow the user to search the products.
5	Create Invoice	It will allow the user to create an invoice.
6	Edit/Delete Invoice	It will allow the user to edit/ delete invoice.
7	View Invoice	It will allow the user to view the invoice.
8	Add Cashier	It will allow the user to add a cashier.
9	Add Product	It will allow the user to add a new product.
10	View Cashier Details	It will allow the user to view the cashier details.
11	View Products	It will allow the user to view the products.
12	View Inventory	It will allow the user to view the inventory.

3.2 Non-Functional Requirements

Following are the **Non-Functional Requirements** for this web application :

- The website should be secure.
- The website should be easy to maintain.
- The website should have a good response time.
- The website should be reliable.
- The website should be accessed by many users at a time.

4. Other Requirements

4.1 Appendix

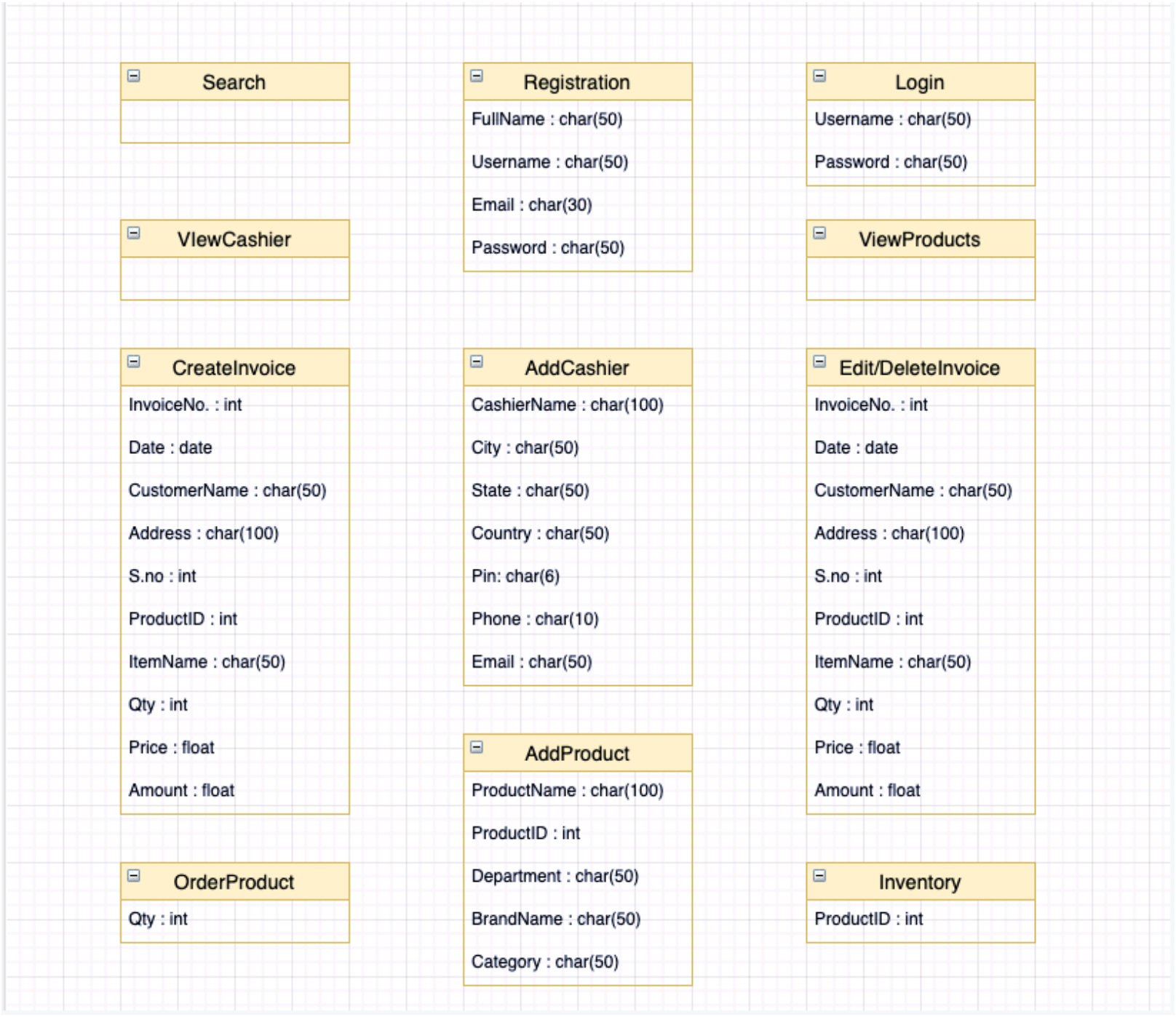
It includes the following diagrams :

A. **Class Diagram :** It consists of a set of classes and it represents the state of an object of the class.

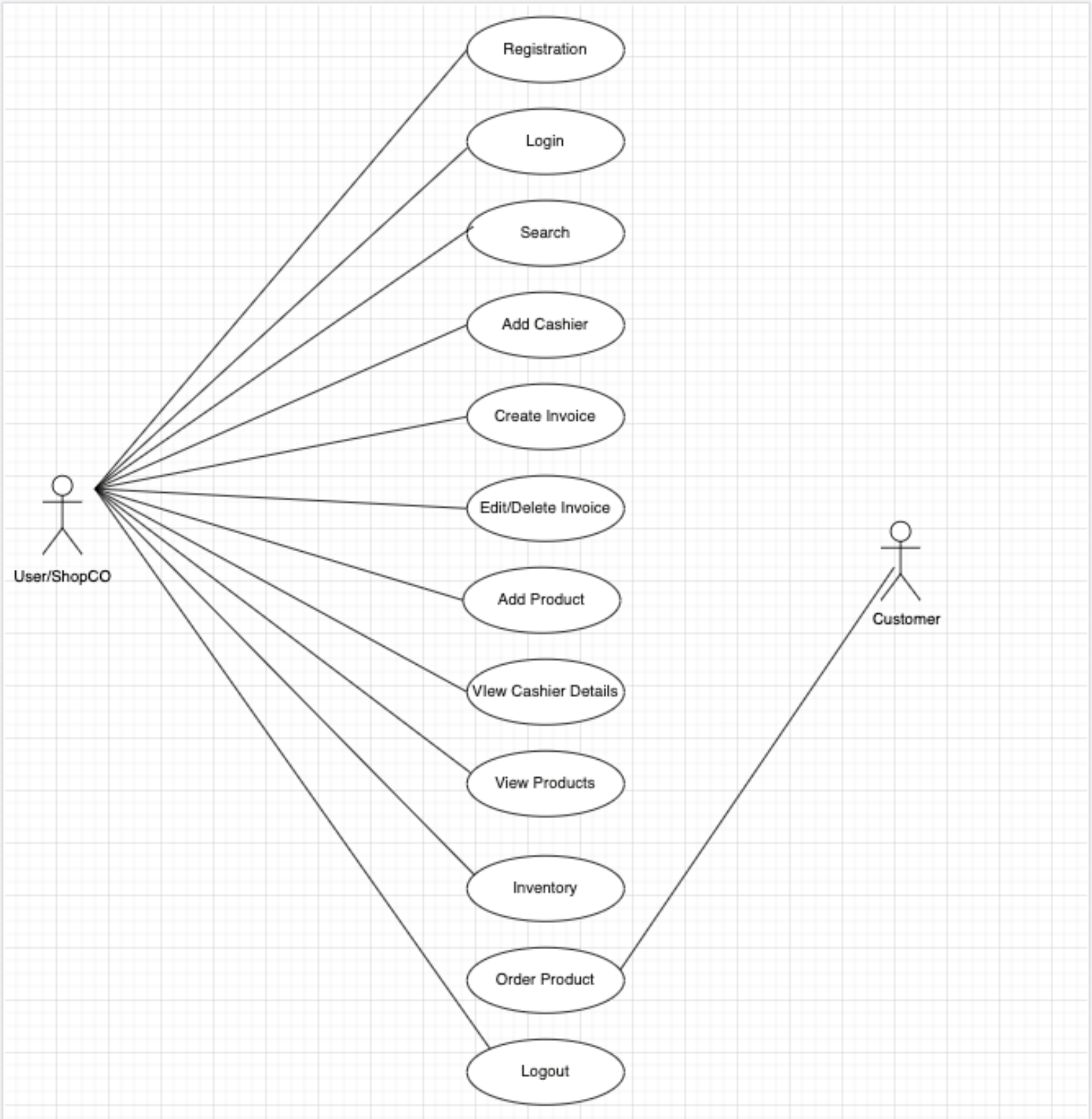
B. **Use Case Diagram :** It is basically the interaction between the users and the functional requirements/modules/features of the product/system/website.

C. **Sequence Diagram :** A sequence diagram is a type of interaction diagram because it describes how and in what order—a group of objects works together.

Class Diagram



Use Case Diagram



Sequence Diagram