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# INVENTORY MANAGEMENT SYSTEM

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## ➤ Requirement Analysis:

### • Functional Requirements:

The main purpose of functional requirements within the requirement specification document is to define all the activities or operations that take place in the system. These are derived through interactions with the users of the system.

#### a) Manage Users:

- It allows admin to manage users, hold their details, authenticate these users at the time of login and accordingly provide different options.

#### b) Manage Stock:

- It holds the details of all the product stock and the system allows the admin to log into the system and enter inwards entries related to the stock.
- It also allows User(s) and Admin to view the list of inward and outward entries.

#### c) Order Details:

- Admin and user(s) are accessible to view the order details.

#### d) Customer Details:

- System holds the records of customer. In case of new customer, the customer will register.
- Admin and user(s) are accessible to view the customer details.

#### e) Supplier Details:

- The system also holds supplier details, which are accessible to admin and user(s).

#### f) Generate Invoice:

- When customer make an order then it checks stock that product is available or not, if it's available then order is confirm and generate invoice, else order is either discard or modify then It again checks stock and follow same steps mentioned above.

### • Non-Functional Requirements:

Non-Functional Requirements (NFRs) define system attributes such as security, reliability, performance, maintainability, scalability, and usability. Also known as “System Qualities”

#### a) Response time:

- System will appear description and price of a required item(s) within 1 seconds.
- On successful login, the system must respond with Admin's/User's account status or (in the case of invalid attempt entered) an “Invalid Password, Login Failed” message within 1 seconds.

#### b) Ease of use:

- The system must be user friendly, with easy to understand menu, instructions etc.
- Minimal learning time for commands.

#### c) Operating platform:

- The system should operate on Microsoft Windows 7, 10 etc.
- The system should be able to run effectively on a PC with a minimum 1.6 GHz processor and 1 GB Ram

#### d) Interface:

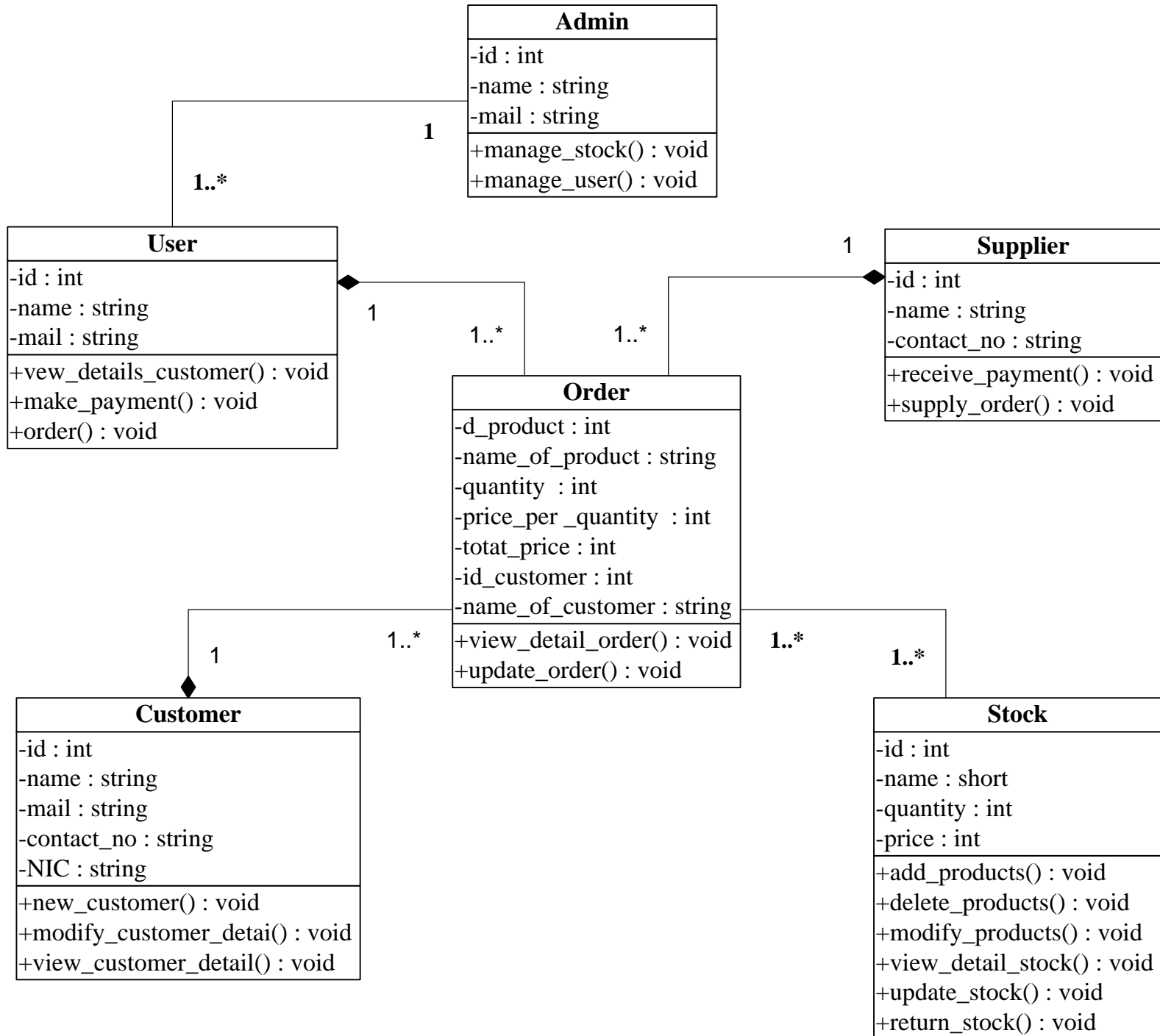
- The GUI of the system should include windows, dialog boxes, menus, buttons and on screen instructions etc.
- Upon successful completion of an operation (for example a creation of a new customer record) a message highlighting the success or failure of the operation should be displayed.

#### e) Privacy and Security:

- Customer's personal information is only accessible by a limited number of user(s) /admin(s) who have special access rights to use the systems, and are required to keep the information confidential.

## ➤ UML Diagrams:

### ❖ CLASS DIAGRAM



## ❖ USE-CASE DIAGRAM

