# INVENTORY MANAGEMENT SYSTEM

Muhammad Waqas Abdul Latif
Shahryar Ahmed Shahed Ahmed
Ayesha Saleem
Syeda Fatima Rida
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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. Since the Requirements Specification is a comprehensive document

#### 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 stock manager to log into the system and enter their inwards entries related to their stock.
- It also allows them to view the list of inward and outward entries.

#### c) Order Details:

- It also allows admin and user(s) to view the list of order details, which are accessible to admin and user(s).

#### d) Customer Details:

- System holds the records of customer, In case of new customer the customer is registered, which are accessible to admin and user(s).

#### 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 its check 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 again check 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. They serve as constraints or restrictions on the design of the system across the different backlogs. Also known as "System Qualities"

### a) Response time:

- When recording the sale of an item, the description and price will appear within 5 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 5 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:

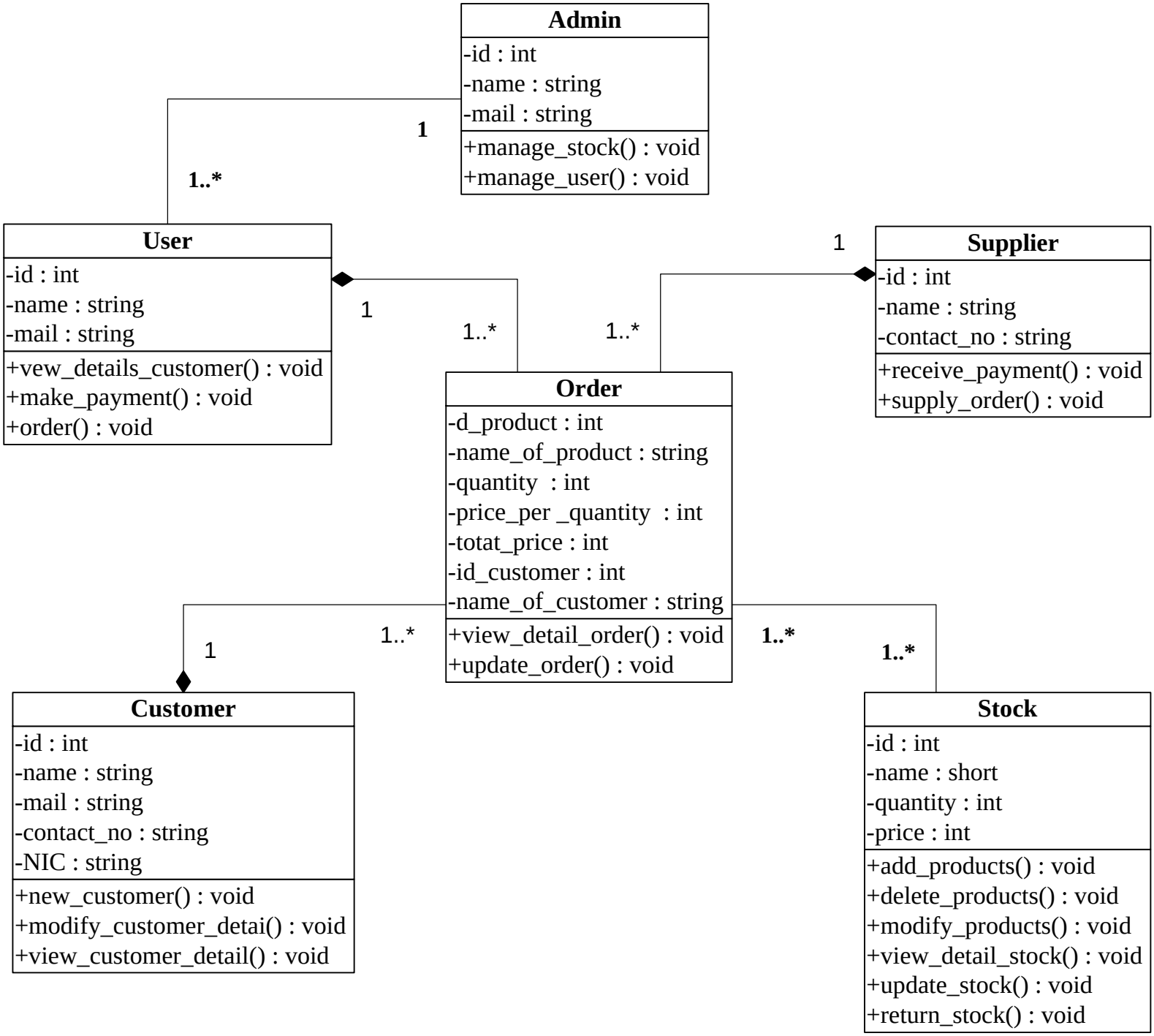
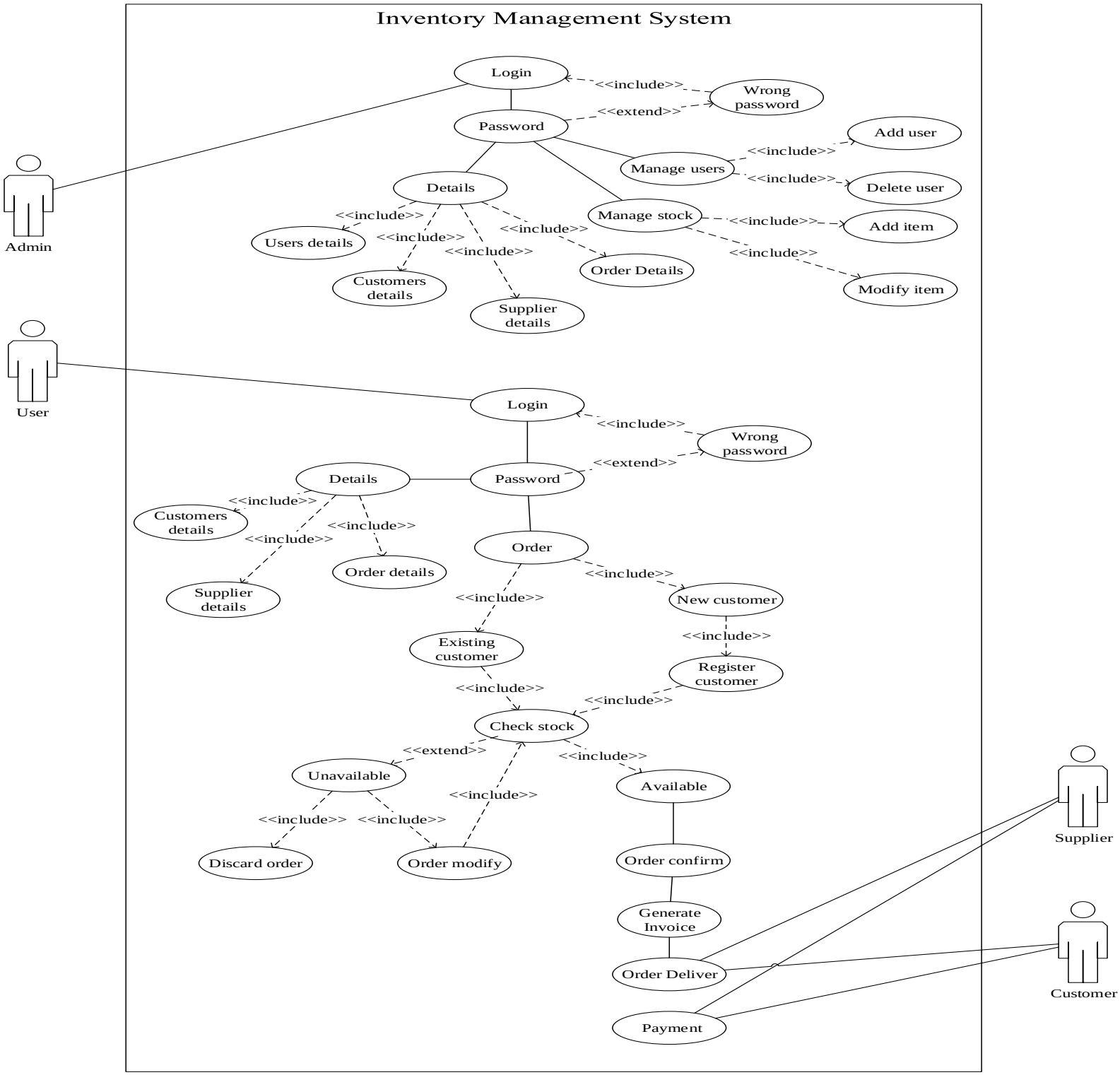
- The GUI of the system should include windows, dialog boxes, menus, buttons and on screen instructions etc.
- Upon successful completion of an operation (for example a creation of a new customer record) a message highlighting the success or failure of the operation should be displayed.

### e) Privacy and Security:

- Customer's personal information is contained behind server and 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