Project Design Phase-I
Solution Architecture

Date	04 October 2022
Team ID	PNT2022TMID40335
Project Name	Inventory Management System for Retailers
Maximum Marks	4 Marks

Solution Architecture:

- There was no an efficient solution available in the many companies during these days. Every process was based on paperwork, human fault rate was high, the process and the tracing the inventory losses were not possible, and there were no efficient logging systems.
- After the computer age, every process is started to be integrated into electronic environment. And now we have qualified technology to implement new solutions to these problems.
- Software based systems bring the advantages of having the most efficient control with less effort and employees. These developments provide new solutions for also inventory management systems.

Example - Solution Architecture Diagram:

```
┌─────────────────────────┐
│       System user       │
└─────────────────────────┘
             │
             ▼
┌─────────────────────────┐
│  Purchase / Sales Orders │
└─────────────────────────┘
             │
             ▼
┌─────────────────────────┐
│     Inventory / Stock   │
│       Management        │
└─────────────────────────┘
             │
             ▼
┌─────────────────────────┐
│         Reports         │
└─────────────────────────┘
             │
             ▼
        ╭─────────╮
        │         │
        │ Database│
        │         │
        ╰─────────╯
```
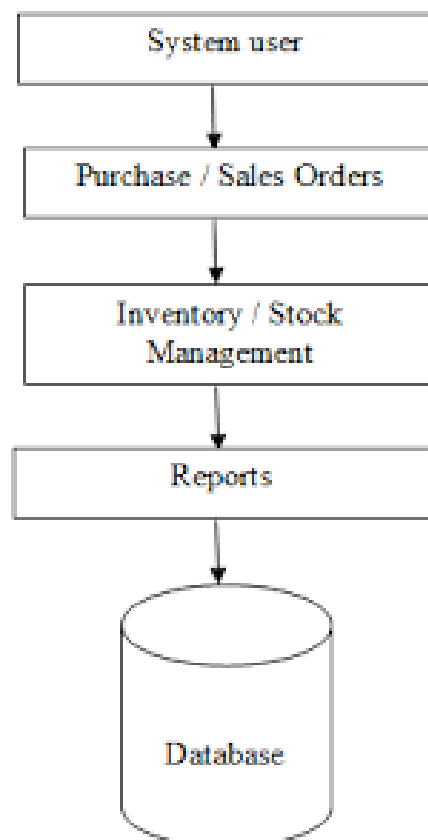
Main use cases of the inventory.

Inventory system

View availability

Order products

Delivery control

Update product quantity information

Make an invoice

View location information

Change product's location

Foreman

Customer

Sales person

Warehouse worker

Truck driver

Forklift driver