

## **PROBLEM STATEMENT**

### **PROBLEM DESCRIPTION:**

In today's modern world, although a lot of things have been modernized/digitalised, still most of the activities carried out by the retailers at a shop involves a lot of paperwork (or) they have to spend a lot of their time handling stocks and products.

### **PROBLEMS FACED CURRENTLY :**

#### **1. STOCK MANAGEMENT :**

In general, manual updation of inventory in some registers/notebooks may cause running out of stocks or to carry extra stocks. As a result of which, if an item's stock gets over, its sale is paused until a new one arrives after ordering. And carrying of extra stocks may not be sold for a long period of time.

#### **2. SALES PATTERN:**

Generally, if the sales pattern of a product is not known, the retailer will not know exactly the number of products to be ordered each time.

#### **3. ITEMS MANAGEMENT:**

Manual updation of stocks and inventory for a large list of products is time consuming and also many errors occur if everything is done manually in a notebook/register.

### **PROPOSED SOLUTION:**

A web application is designed to address the above mentioned issues with the following functionalities:

- 1) The web application will ask retailers to create their accounts by providing essential details. Retailers can access their accounts by logging into the application.
- 2) Retailers can add products since it consumes less amount of time than manual entry.
- 3) Once retailers successfully log in to the application they can update their inventory details, also users will be able to add new stock by submitting essential details related to the stock. They can view details of the current inventory.
- 4) An alert is sent automatically by the inventory management system if the stock left count reaches a threshold value and as soon as the alert is received, the stocks required are ordered and as a result pausing of sale is avoided.
- 5) A simple E-commerce web page is developed to check the stock management.
- 6) We can order the new products from a particular retailer.

## ARCHITECTURE:

