# Inventory and Order Management System

**CATEGORY :** Web Application

## PURPOSE :

This Inventory and Order Management System provides a platform for manufacturing Industries to keep details about all production, raw materials , and sales. It will help the marketing team to manage their customer deals with less complications and efforts.

## SCOPE :

The scope of this application is to make the system paperless and systematic for the manufacturing industry. This application digitizes the manual day-to-day tasks performed at the industries like production reports, sales reports, stock update & daily order dispatch.

## INTRODUCTION :

It is a web application which fulfills the day-to-day requirement of Manufacturing Industries.This application aims at providing an efficient interface to the industry for managing their product inventory based on each item sold/produced. We can easily track the orders made by customers.

### Existing System :

Present system is a traditional manual system where all things are managed on paper.

- ❖ Existing system maintains ledgers & books to store the information like suppliers details, deliveries and returns of items in all godowns, customer details as well as employee details.
- ❖ In the Existing system the marketing team that creates orders from the shopkeepers/wholesalers uses a phone call to create/give orders to the factory that need to be dispatched.

This existing system has many shortcomings which may be reduced by digitization like :

- Extra manual hours needed to generate required reports.
- Searching and sharing for particular records is very hectic.
- It is tedious to manage historical data which needs much space to keep all the previous year papers, books.

- Daily transactions are to be entered into books immediately on a day to day basis to avoid conflicts which is very difficult.

## Proposed System :

We propose to develop software for Manufacturing Industries to manage their inventory (stocks) and help their marketing team with a simple and friendly way to create orders.

- ❖ The Inventory will be updated according to daily production, sales, consumption of raw materials. he inventory
- ❖ The new ordering system will allow salespeople to create orders using the software, the created orders that need to be dispatched will be reflected at the admin side.

All the inventory, order and employees details will be kept on the database.

The System has following modules :

- **Admin Registration** : Admin (Industry person) can login to check, update details.
- **Admin Dashboard** : Contains production details , sales details.
- **Admin Rights** : Admin will be able to add/update/view products , approve a new employee, confirm the created orders.
- **Customer Details** : Salespersons/Admin can check their sales report and details of customers.
- **Employee Registration / Login** : Existing employees (Salesperson) can login or new employees can register themselves and wait for approval from admin.
- **New Order** : Salesperson can place new orders with quantity and customer details.
- **New Customer** : New customers can be registered by salespersons.
- **Salesperson Profile** : Industry side people can check the detailed profile of every employee.
- **Dispatched Order** : All the dispatched order details can be checked by the admin/salesperson.

## ADVANTAGES FOR ADMINISTRATION:

- **Effective Communication:** Communication between administrator and seller becomes more transparent and clear.
- **Cost Saving** : A lot of saving is done by not travelling to the office and doing all the work virtually & paperless.

- **Time Saving** : No need to check files to track which products are present or not , all can be done by single click

## ADVANTAGES FOR EMPLOYEES :

- **Cost Saving :** A lot of saving is done by not travelling to the office and do all work virtually with paperless work.
- **Time Saving :** No need to make a call/message for updating or placing order or to check status.
- **Transparency :** There will be no any chance of mistake as all data are stored and updated

## FUNCTIONAL REQUIREMENTS :

The application will have 2 interfaces - one for Admin that will be used by the manufacturing unit office and other for the employee's of the industry.

- Users (employee or admin) must have a valid User ID and password to login or register.-
Admin :-
- Admin can view employees, sales and production details.
- Admin can add a new launched product and new raw material used,
- Admin can update the stock quantity of a manufactured product via dropdown selection.
- Admin can update the incoming raw material via dropdown selection.
- Admins can approve new registered Salespeople.
- Admin can add / update suppliers .
- Admin can confirm the created order and dispatch with tracking number.

- Employee :-

- Employees can view his/her Profile and reports.
- Employees can add a new customer for the company.
- Employees can create orders for the customers.
- Employees can see the order status and the customer's detail and order history.
- Employees can add the details of the payment collected by them.
- Employees can give feedback to the industry regarding products in demand, out of stock or any suggestion for the betterment.

- All the calculations and data storage will be automatic and in real time.

## NON FUNCTIONAL REQUIREMENTS :

- Provide security of administration data  .
- 24x7 availability of the application.
- User friendly and efficient UI to boost user performance.
- Employees can only login after the approval of registration from the admin.
- Simple and effective application so that a person with basic computer knowledge can also use it.

## SOFTWARE TOOLS

- Database Server: MySQL
- Client: Any web browser
- Server Environment : NodeJS
- Deployment: Heroku
- Framework: ReactJS , ExpressJS