

# **INVENTORY MANAGEMENT SYSTEM: FOR SMALL BUSINESSES**

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# PROBLEM STATEMENT

Small businesses such as grocery stores, pharmacies, and retail shops often rely on manual methods or basic spreadsheets to track inventory. This leads to challenges such as:

- Inaccurate stock levels due to human error in manual entries.
- Frequent stock outs or overstocking, causing either lost sales or wasted resources.
- Time-consuming reporting, as business owners must prepare invoices and summaries manually.

# OUR SOLUTION

## **Reorder Alerts:**

Set threshold levels for products. When stock falls below, the system sends automated alerts or generates purchase orders so businesses never run out of popular items

## **Reporting and Analytics:**

Generate inventory reports and sales analytics for decision-making. Dashboard visualizations of stock status, top-selling products, and reorder forecasts help plan business needs.

## **Barcode Scanning Integration:**

Use barcode scanners or mobile camera as barcode readers to speed up adding and updating inventory. This reduces manual entry errors and accelerates checkout and stock count.

# TECH STACK

- **Frontend:** React – Interactive dashboard for users
- **Backend:** Node.js + Express – Handles reports & APIs
- **Database:** MongoDB – Stores reports & user data

# USP AND IMPACT

- **Unique Selling Proposition (USP):**

- Unlike generic inventory tools, this system combines real-time stock tracking, automated reorder alerts, barcode integration, and analytics in one lightweight, scalable platform designed specifically for small business needs.
- Its simplicity, affordability, and automation give owners enterprise-grade efficiency without the complexity of big ERP systems.

- **Impact:**

- Reduces losses from stockouts/overstocking.
- Saves time & effort by automating manual inventory and reporting tasks
- Improves decision-making with sales trends and demand insights.

# CONCLUSION

The **Inventory Management System** empowers small businesses to operate more efficiently, save costs, and make data-driven decisions. By blending automation with usability, it transforms inventory control from a manual burden into a strategic business advantage.

# **QNA SESSION**

**THANK  
YOU**