SMART INDIA HACKATHON 2024

TITLE PAGE

- **Problem Statement ID –** 1627
- **Problem Statement Title-** Drug Inventory and supply chain Tracking system
- **Theme-** MedTech / BioTech / HealthTech
- **PS Category-** Software
- **Team ID-**
- **Team Name (Registered on portal)-** Error 404

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IDEA TITLE

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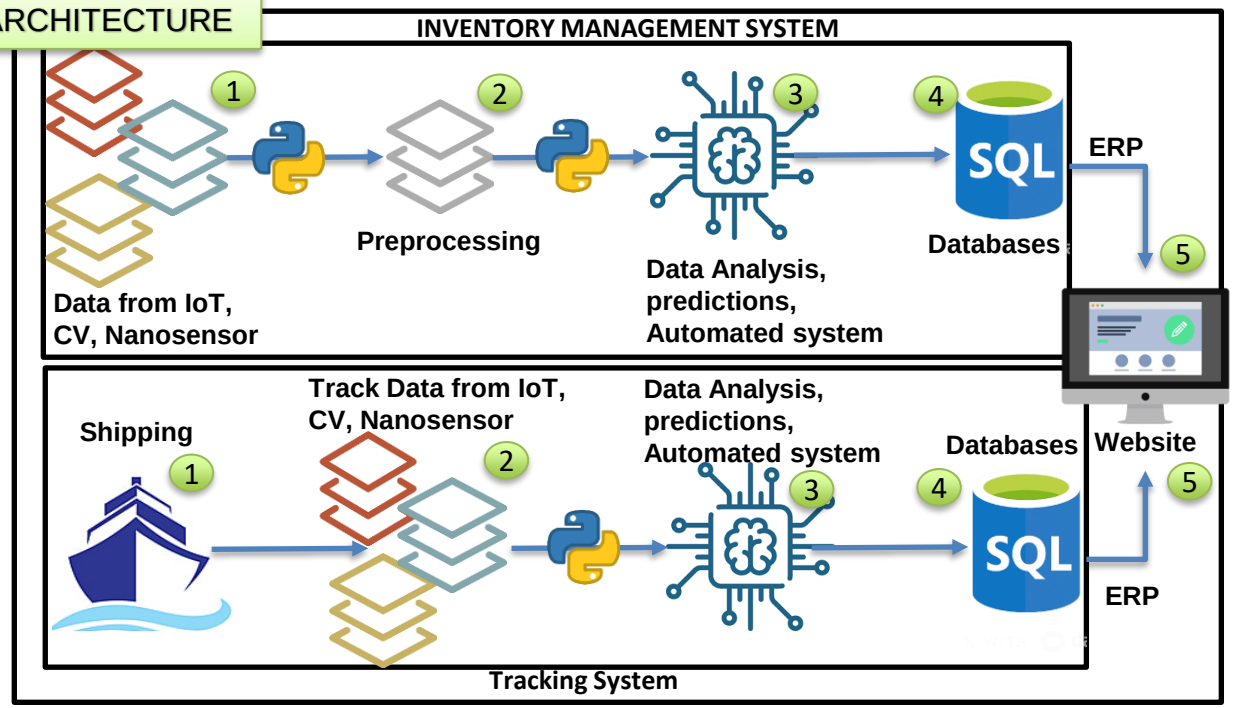
Problems: Supply Chain Disruption, Traceability Challenges, Quality Control Issues, Stockouts or Overstocking, Security assurance, High Costs.

Key Features

- **Real-Time Monitoring:** Using Computer Vision, IoT sensors, and Nano-Sensors to track products and security in real-time.
- **Product Planning:** Efficient production planning as per seasonal demands.
- **Quality Control:** Implementation of Quality checks and measures throughout the supply chain through computer vision.
- **Integration with ERP:** integration with SAP ERP for smoothly performing various operations.
- **Inventory Management:** This provides a tool for managing inventory, expiration dates, and stock availability.
- **User-friendly interface:** for navigation and interaction with the web.
- **ABC Analysis:** Categorization of product as per value and risks for more specific tracking and security measures.
- **Notification Alerts:** provide timely alerts for low stocks, expiration of products, quality issues, or a problematic situation.

ARCHITECTURE



- **24/7 Chatbot:** answers to queries, important features, drug catalog, and feedback mechanism
- **Data Security**: through Encryption and Multifactor Authentication
- **Integration of special features:** Integration of features like Computer vision, auto replenishments, etc. lowers the rate of wastage and automatic stock replacement.

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TECHNICAL APPROACH FEASIBILITY AND VIABILITY

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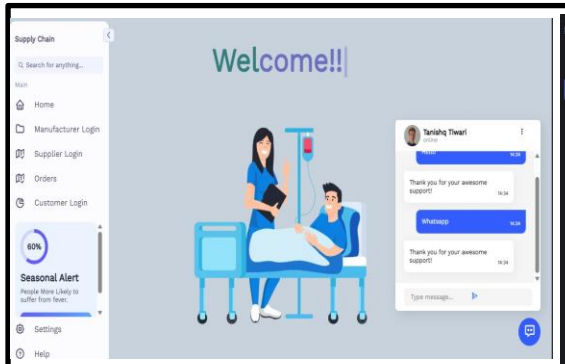
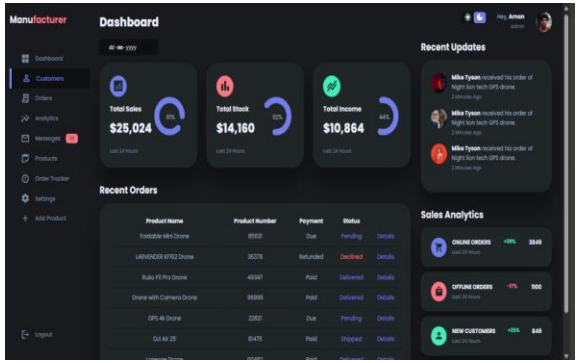
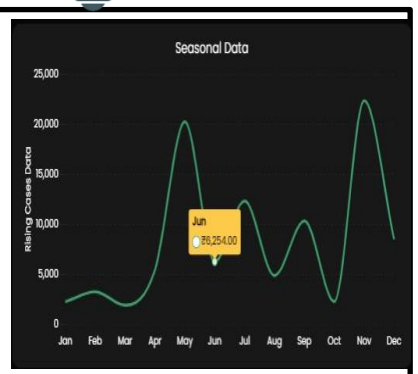
- **Feasibility and Viability:**
- ✓ **Technological Feasibility**: It leverages technologies like IoT, Computer Vision, and Nanosensors.
- ✓ **Market Need:** There is a strong need for inventory management and a smooth supply chain, to avoid wastage of products and supply products with security and assurance.
- ✓ **Financial Feasibility:** wastage of product is less due to the auto-replenishment system and provides sustainability.
- ✓ **Operational Feasibility:** The system's user-friendly interface makes it easy to use.
- ✓ **Data Privacy**: multifactor authentication and encryption keeps the data safe and reliable







	Machine Learning	SOS Alerts	Orders Chatbot	Inventory, Tracking
Front Page	✓	✗	✓	✗
Manufacturer Log	✓	✓	✓	✓
Retailers, Hosp	✓	✓	✓	✓

Technologies Used: Python, JavaScript, Tailwind CSS, HTML, SAP ERP System, MySQL, Sketch

GitHub Repo link: https://github.com/OmShinde3156/ERROR-404

USP CASES:

- ➢ Enhanced Control Over Inventory and Tracking system
- ➢ Reduces Labor Costs and minimizes waste of product.
- ➢ Assurance of Quality and Safety
- ➢ Implementation of Innovative Technology

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IMPACT AND BENEFITS, REFERENCES

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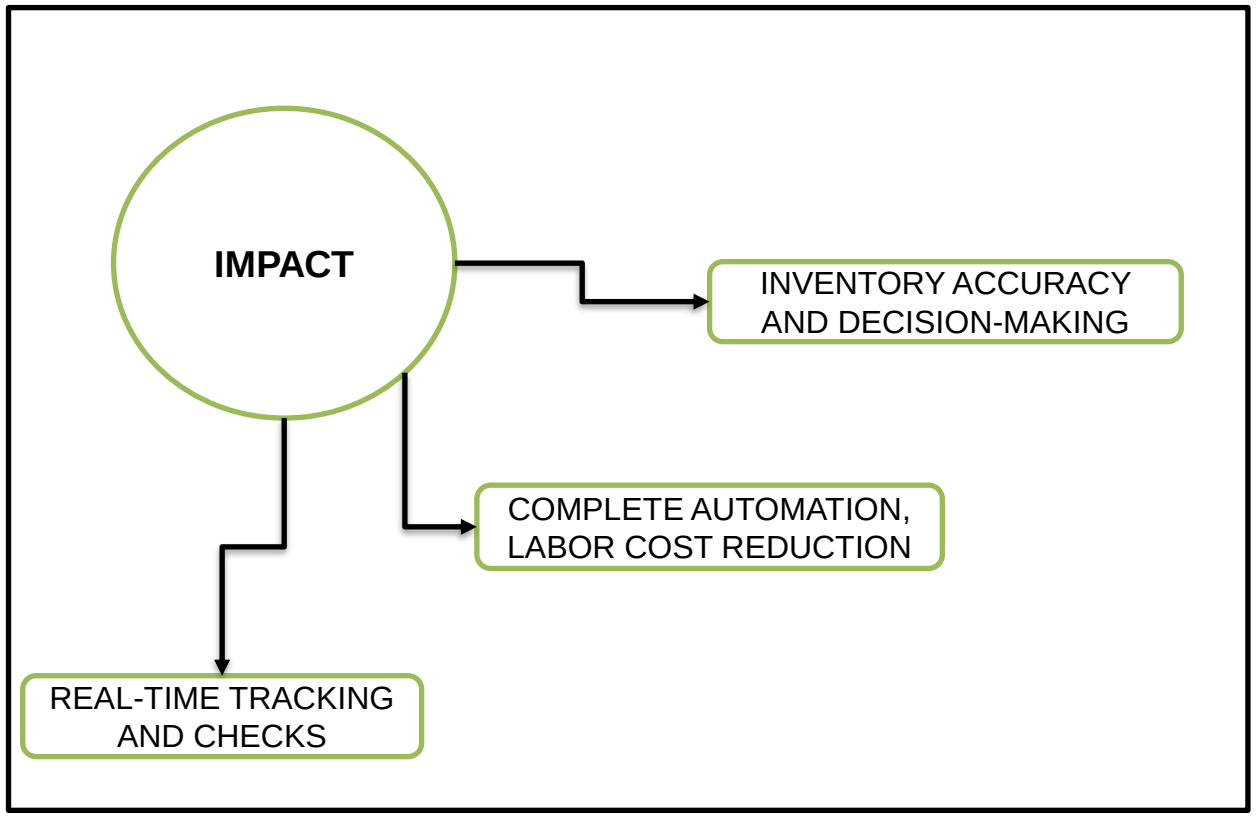

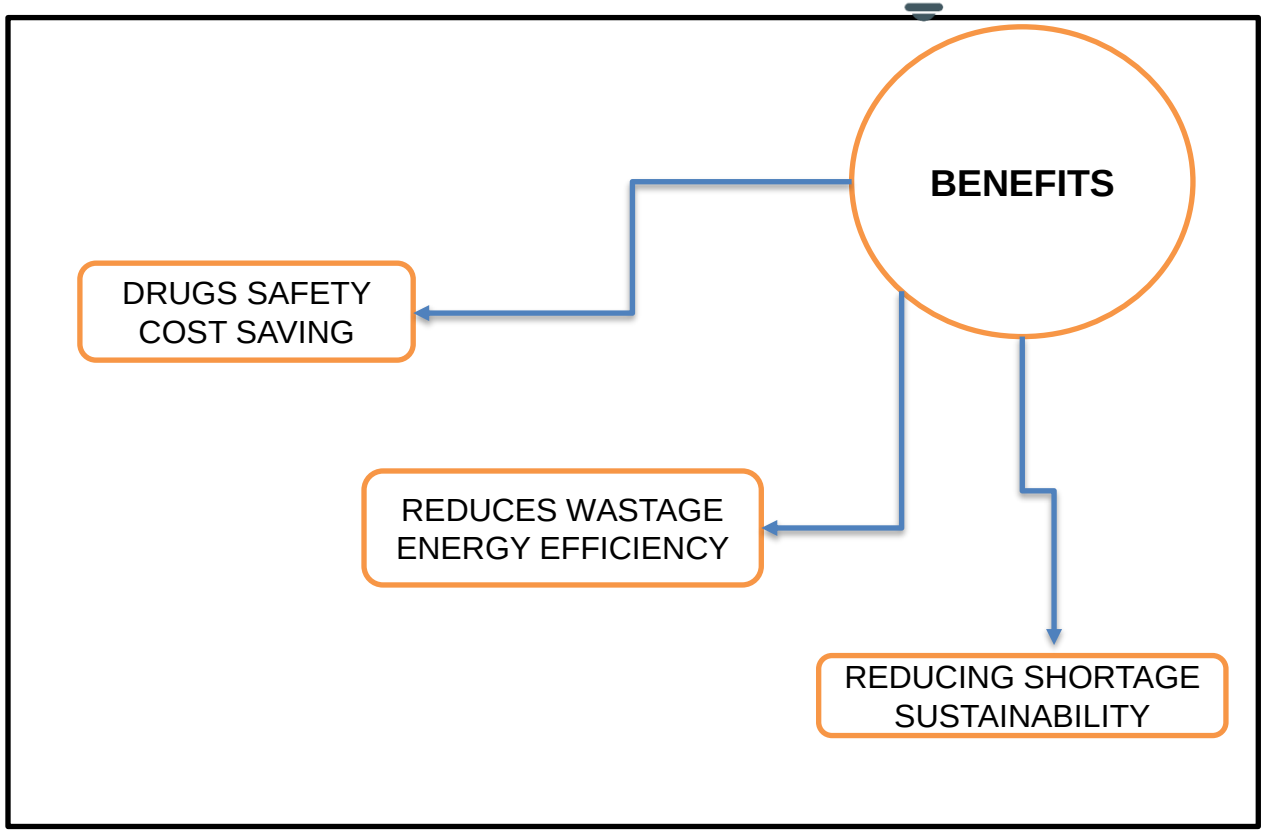

REFERENCES: