




P R O J E C T

P R O P O S A L



TEAM DETAILS

- The Shield
 - Y.M.Achila Dilshan Yapa
 - achiladilshan224455@gmail.com
 - 0704885042
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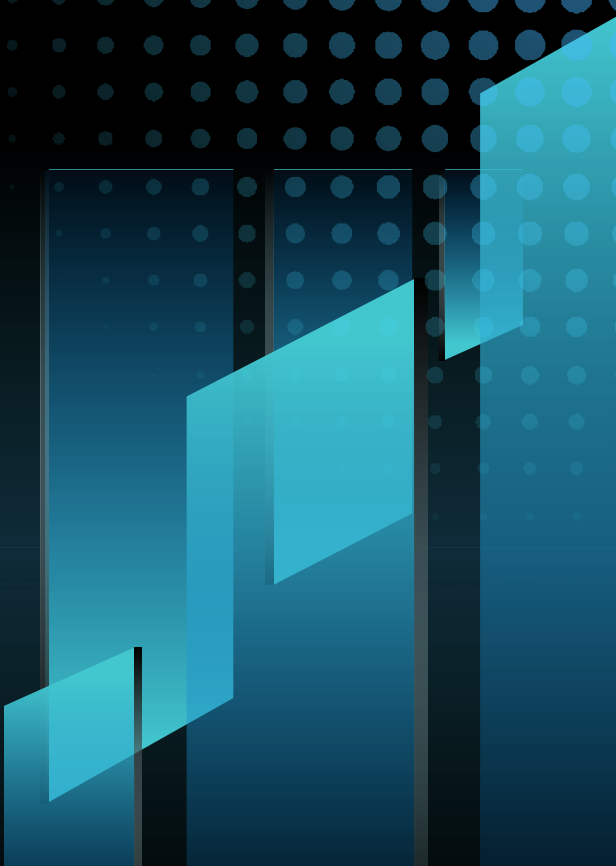
PROJECT DETAILS

OptiFlow: Factory and Shop Inventory & Management
System



PROJECT OVERVIEW

Our project aims to develop a web-based inventory and management system that helps factories and shops efficiently handle their product storage, track stock levels, manage employee salaries, and monitor attendance. This system will reduce errors, save time, and improve overall business operations.



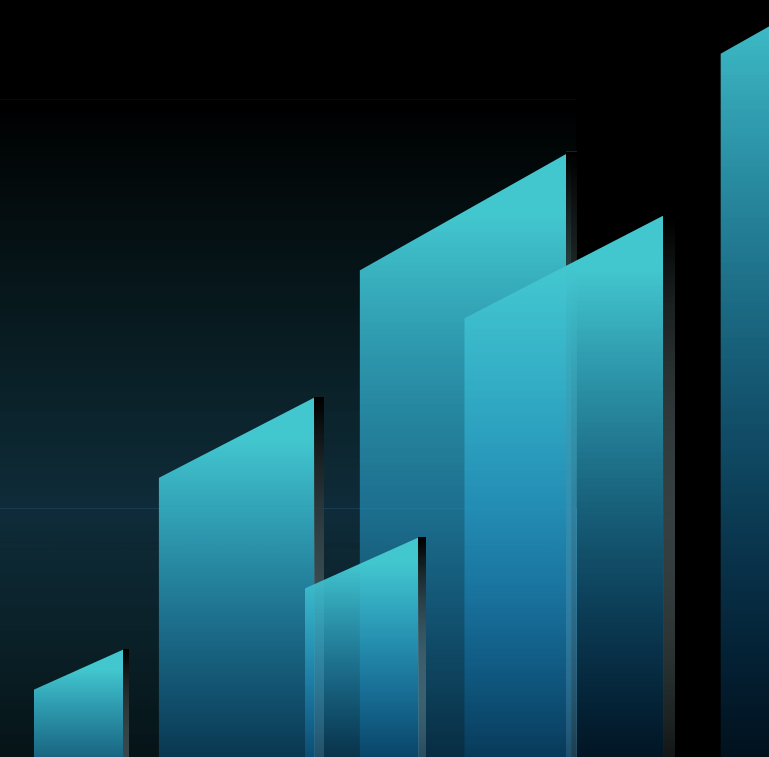
PROBLEM STATEMENT



Many small and medium-sized businesses struggle with manual inventory tracking, employee management, and financial calculations, leading to inefficiencies, errors, and lost revenue.



PROPOSED SOLUTION

- Our solution is a web-based application that allows businesses to:
 - Store and manage inventory
 - Monitor stock movement (in/out tracking)
 - Track employee attendance and salaries
 - Generate reports for better decision-making
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KEY FEATURES

Intuitive dashboard for inventory and employee management

Real-time stock tracking with alerts for low stock levels

Automated payroll system for employee salaries

Role-based access for admins, managers, and employees

Data analytics and reporting for business insights



TECHNOLOGY STACK

Frontend: React.js

Backend: Node.js

Database: MongoDB

Hosting: AWS / Firebase / DigitalOcean

Payment Integration (if applicable): Stripe / PayPal API



INNOVATION

Uses AI-driven analytics for demand forecasting 

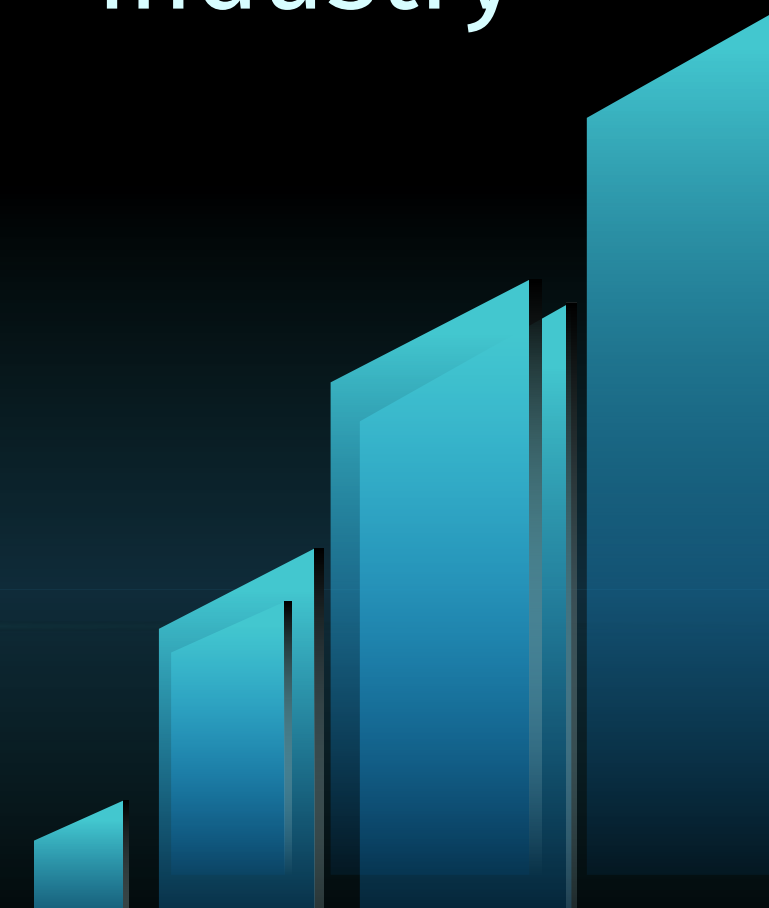
Integrates with barcode scanners for faster stock updates

Supports multi-branch management for large businesses



FEASIBILITY ANALYSIS


With the availability of open-source tools, cloud platforms, and APIs, we believe this project can be developed within the allocated timeframe and budget while meeting industry standards.





IMPACT ASSESSMENT

By implementing this system, businesses can:


- Reduce manual errors and save time
 - Improve financial tracking with automated reports
 - Enhance employee productivity with better management tools
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ADDITIONAL INFORMATION

A survey of 50 local business owners showed that 80% struggle with manual inventory tracking.

Competitor analysis indicates that similar commercial solutions are expensive, making our project a cost-effective alternative.





THANK YOU