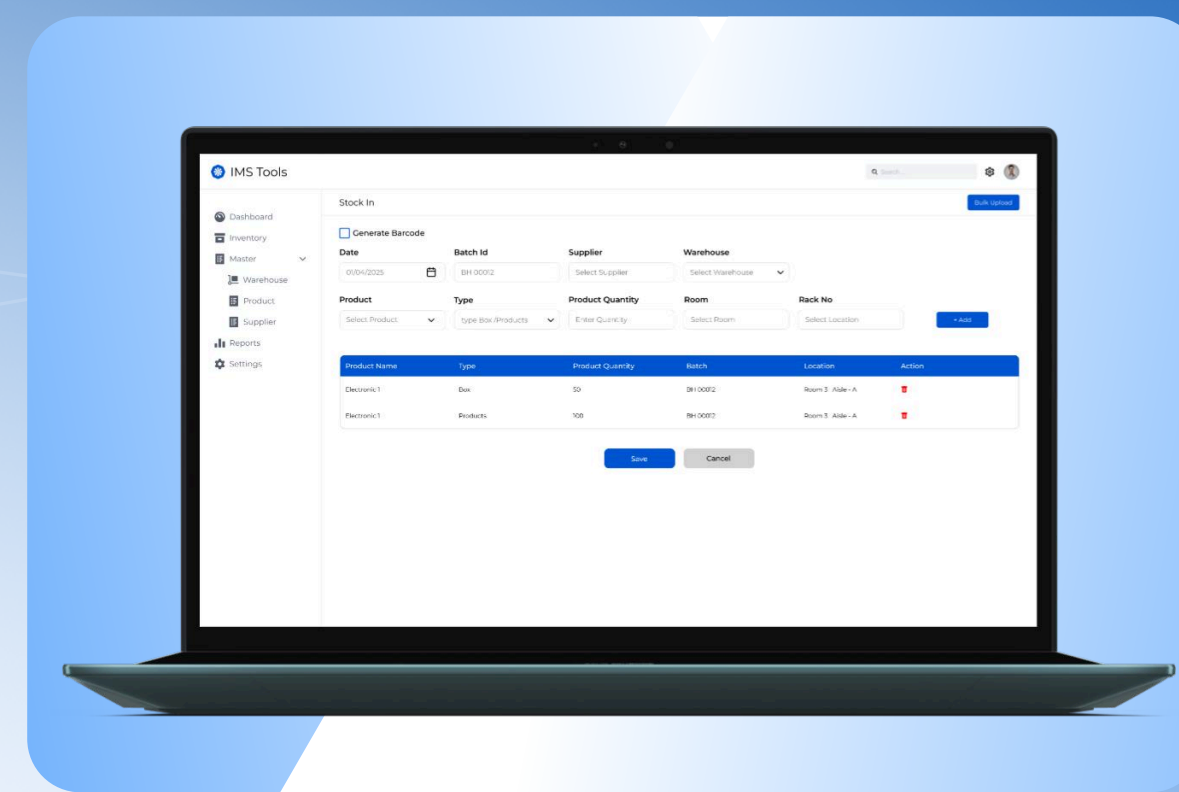
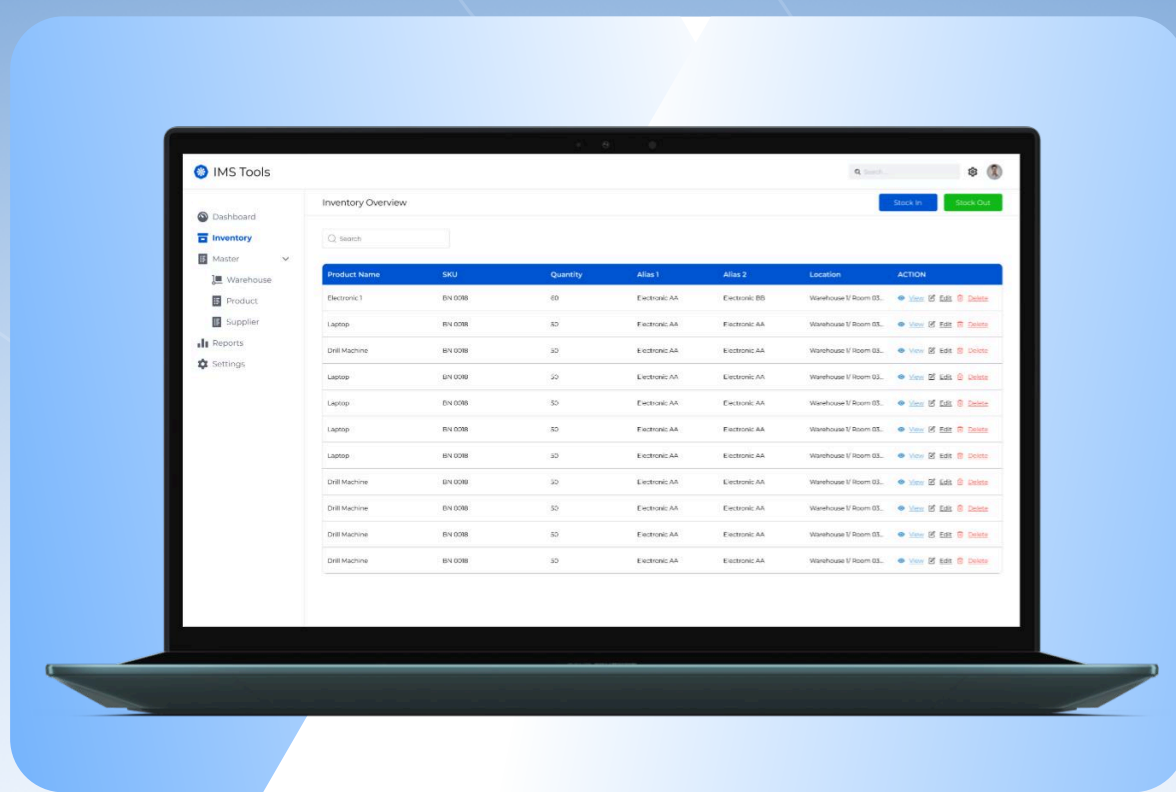
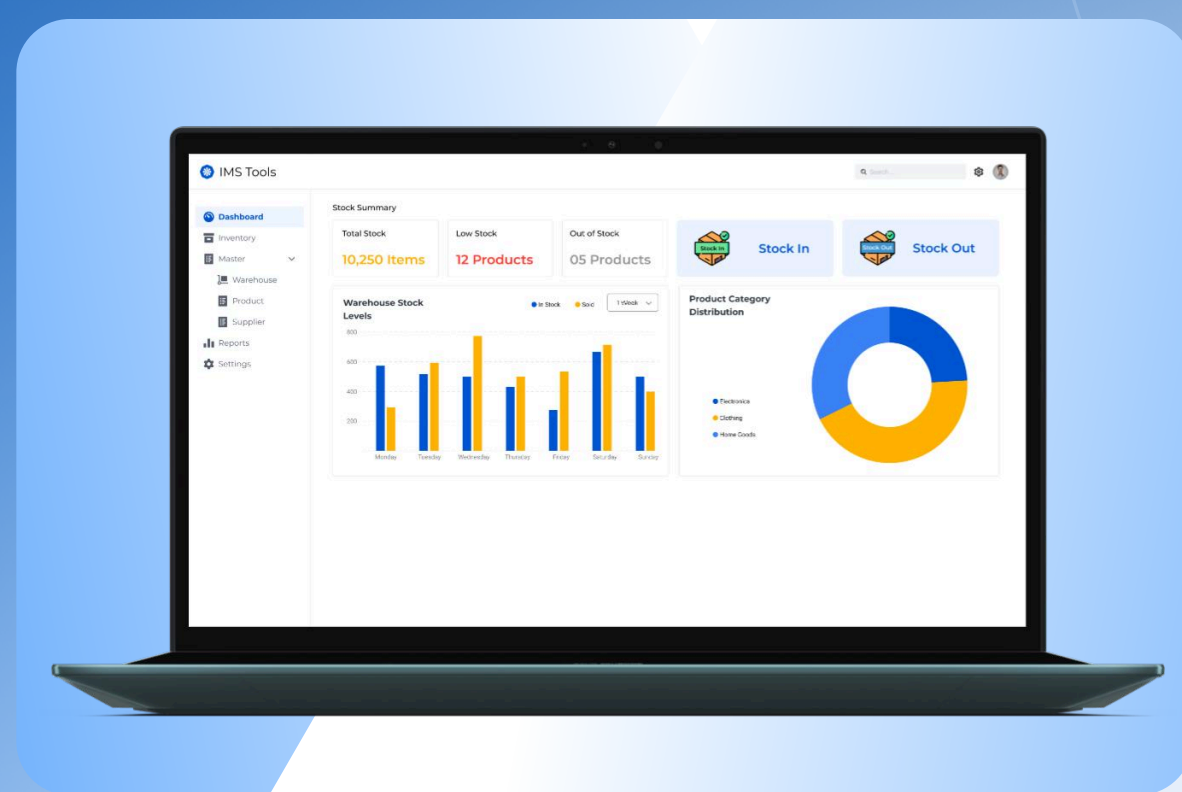


Smart Inventory Management Platform for Modern Warehouse Operations

A centralized inventory management solution that streamlines product management, warehouse organization, barcode tracking, stock movement, supplier management, and real-time inventory visibility through an intuitive enterprise platform.

Discuss your project →

View relevant work ↓



CLIENT TYPE

Logistics Enterprise

TIMELINE

6 Months

PLATFORMS

Web & Mobile PWA

SCALE

50+ Warehouses

USERS

1,200+ Active

CORE TECH

React & Node.js

The Business Challenge

Legacy systems were creating silos, leading to 15% stock variance and delayed fulfillment cycles. The objective was a unified digital ecosystem.



Stock Blindness

Inability to track inventory across multiple geographic locations in real-time led to overstocking of low-demand items.



Manual Bottlenecks

Paper-based stock-in and stock-out procedures resulted in significant human error and data latency.



Lack of Insights

No predictive capability for procurement, forcing reactive decision-making based on outdated spreadsheets.

Digital Inventory Lifecycle

1

Procurement

Automated PO generation and supplier sync.

2

Stock In

Barcode-scanned quality checks and binning.

3

Storage

Optimized spatial allocation and aging alerts.

4

Stock Out

FIFO-based picking and automated dispatch.

5

Reporting

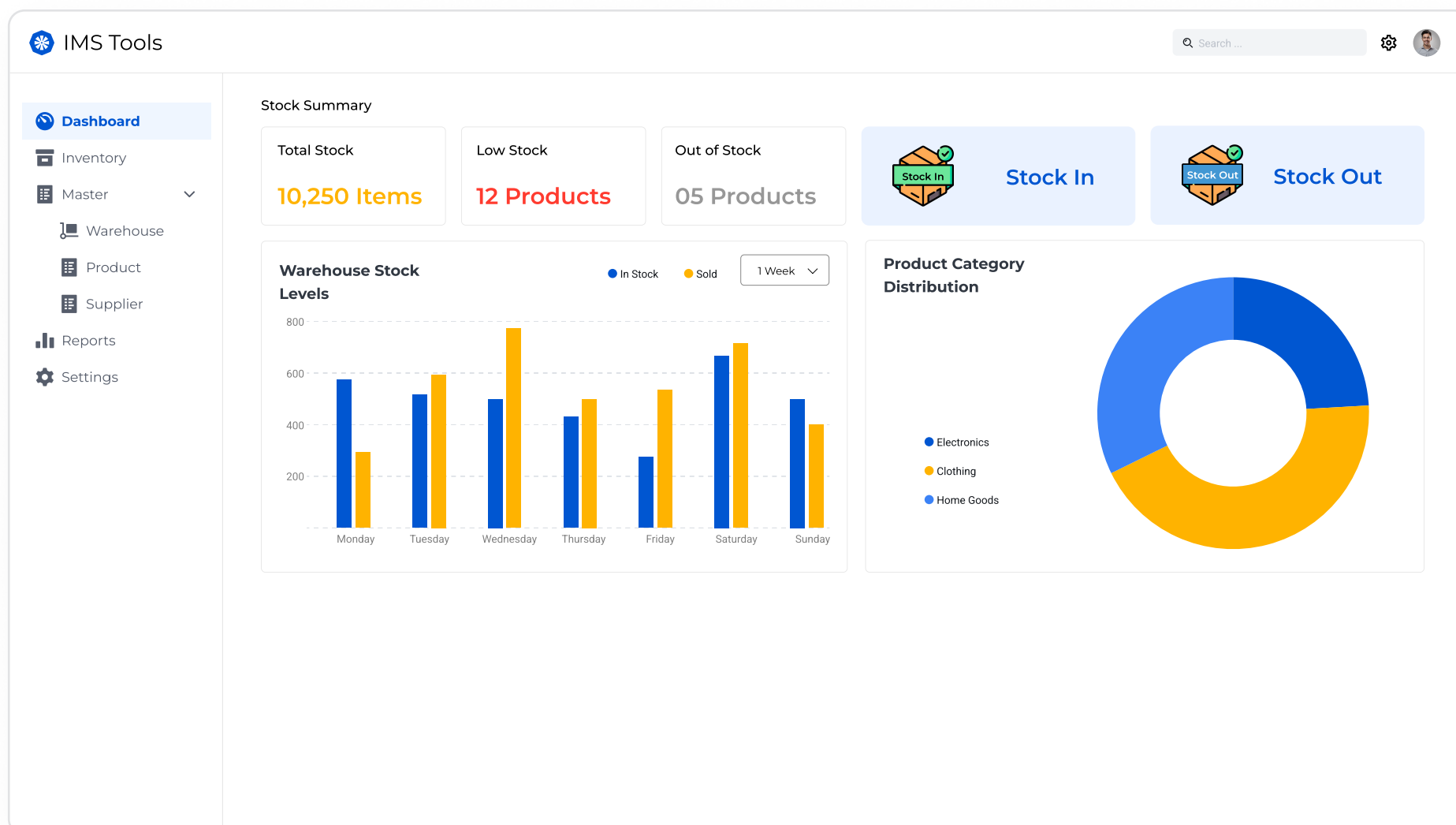
Real-time KPI visualization and auditing.

MODULE 01

Intelligent Command Center

A bird's-eye view of global inventory health. The dashboard utilizes high-density data visualizations to surface critical stock alerts, fulfillment rates, and warehouse efficiency scores.

- ✓ Real-time stock status across 50+ locations.
- ✓ Predictive stock-out risk assessment.
- ✓ Custom KPI widgets for operational leads.



Inventory Overview							
Product Name	SKU	Quantity	Alias 1	Alias 2	Location	ACTION	
Electronic 1	EN-001	50	Electronic AA	Electronic BB	Warehouse V Room GL	View	Delete
Laptop	LN-001	50	Electronic AA	Electronic AA	Warehouse V Room GL	View	Delete
Dell Machine	DN-001	50	Electronic AA	Electronic AA	Warehouse V Room GL	View	Delete
Laptop	LN-001	50	Electronic AA	Electronic AA	Warehouse V Room GL	View	Delete
Laptop	LN-001	50	Electronic AA	Electronic AA	Warehouse V Room GL	View	Delete
Laptop	LN-001	50	Electronic AA	Electronic AA	Warehouse V Room GL	View	Delete
Laptop	LN-001	50	Electronic AA	Electronic AA	Warehouse V Room GL	View	Delete
Dell Machine	DN-001	50	Electronic AA	Electronic AA	Warehouse V Room GL	View	Delete
Dell Machine	DN-001	50	Electronic AA	Electronic AA	Warehouse V Room GL	View	Delete
Dell Machine	DN-001	50	Electronic AA	Electronic AA	Warehouse V Room GL	View	Delete
Dell Machine	DN-001	50	Electronic AA	Electronic AA	Warehouse V Room GL	View	Delete
Dell Machine	DN-001	50	Electronic AA	Electronic AA	Warehouse V Room GL	View	Delete

MODULE 02

Unified Product Catalog

Standardizing the SKU database across all departments. Features advanced categorization, barcode management, and multi-unit support (kg, units, pallets).

- ✓ Bulk SKU import and export capabilities.
- ✓ Dynamic attribute mapping for varied inventory.

MODULE 03

Location & Binning Logic

Mapping physical warehouse space to digital coordinates. The system enables precise binning, ensuring warehouse staff know exactly where to go for every item.

- ✓ Hierarchical location mapping (Zone > Rack > Bin).
- ✓ Capacity tracking for specialized storage zones.

Generate Barcode	
Date	Batch Id
Supplier	Warehouse
Product	Type
Product Quantity	Room
Select Product	Select Room
Select Location	Back No
Add	
Product Name	
Type	
Product Quantity	
Search	
Location	
Action	
Electronic 1	
Bin	
100	
BH-0002	
Room 3 Aisle A	
Electronic 1	
Products	
100	
BH-0002	
Room 3 Aisle A	
Save	
Cancel	

Architecture of Performance

A robust tech stack designed for high availability, low-latency mobile interactions, and enterprise security.

FRONTEND

React 18 / Tailwind

BACKEND

Node.js / Express

DATABASE

PostgreSQL / Redis

CLOUD

AWS / Docker

Quantifiable Business Impact

Post-implementation results measured after 12 months of operation.

99.8%

Inventory Accuracy

Up from 85% prior to IMS Tools implementation through barcode-validated entry.

35%

Faster Fulfillment

Reduction in 'Order-to-Ship' cycle time via automated picking logic.

22%

Opex Savings

Direct cost reduction in storage waste and over-procurement errors.

Ready to optimize your supply chain?

Let's discuss how a custom IMS solution can scale your operations and drive efficiency.

Schedule a Demo

Download PDF Deck