

## Case Study

# Business Intelligence Analytics Solution Development

Data-driven Inventory Management in Logistics Industry



## PROJECT OVERVIEW

Our client, a leading player in warehouse services, sought to enhance their inventory management. Rishabh Software was tasked to develop a real-time inventory tracking system. The aim was to enable staff to efficiently manage inventory using a mobile solution integrated with their existing platform.

  
Capability  
Data Analytics

  
Industry  
Logistic & SCM

  
Country  
USA

## KEY FEATURES

The inventory management system developed integrates BI analytics, ensuring comprehensive data capture and visualization. Utilizing agile methodologies, the system offers scalability and flexibility. Key components include:

### ▶ Visualizations

Prioritizing essential KPIs, the system offers business growth analysis on yearly and monthly scales. Visual representations facilitate quick data interpretation, empowering stakeholders with actionable insights.

### ▶ Key Performance Indicators

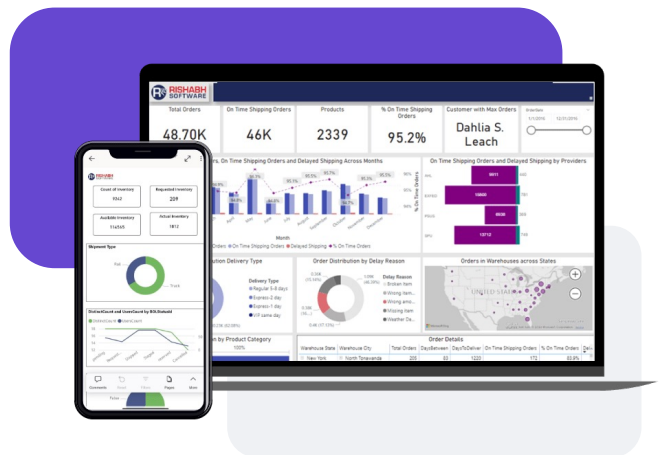
By leveraging sales data, the system effectively measures inventory value, defining precise KPIs for strategic alignment and decision-making.

### ▶ Real-time Dashboards

Incorporating inbound and outbound inventory dashboards, the system provides granular visibility. Users can customize KPIs to their needs, ensuring an enriched user experience.

### ▶ Permissions

Row Level Security (RLS) ensures data confidentiality by restricting access to dashboard reports, granting specific rights to Shipping Clients and Inventory Clients.



## CHALLENGES WITH EXISTING SYSTEM

- ▶ Difficulties in gauging product turnover rates.
- ▶ Challenges in tracking and managing day-to-day inventory levels in real-time.
- ▶ Limited business user access to crucial inventory data across departments.
- ▶ Manual report generation lacked consistency around recording and accuracy in calculations.

# SOLUTION

One of the primary challenges faced by the client was visualizing and measuring essential Key Performance Indicators (KPIs) related to their inventory management system in logistics. To address this, our team strategically identified and mapped specific KPIs for enhanced inventory management and informed business decision-making. These KPIs included:

- ▶ **Inventory Turnover Rate**  
Reflects inventory management efficiency.
- ▶ **Average Inventory**  
Tracks stock levels for strategic decision-making.
- ▶ **Sales Revenue**  
Measures total revenue for accurate financial insights.



- ▶ **Gross Margin by Product**  
Analyzes profitability to guide product management.
- ▶ **Gross Margin Percent**  
Evaluates financial health based on gross margin percentage.
- ▶ **Revenue per Unit**  
Measures average revenue generated per unit sold.

- ▶ **Cost per Unit**  
Tracks average cost per unit sold for cost management.
- ▶ **Stock to Sales Ratio**  
Tracks inventory levels and sales performance for demand forecasting.

## TECHNOLOGIES & TOOLS



# BENEFITS

100%

automation of inventory reporting

92%

surge in data availability

6.2%

increase in inventory turns

# PROJECT SNAPSHOTS



## ABOUT RISHABH SOFTWARE

We are a global provider of enterprise-grade web, mobile, cloud, and analytics solutions. As ISO 9001 and 27001 certified software development company, we have two decades of service excellence delivering 1000+ successful projects globally, including the USA, UK, Europe, Middle East, and Australia.

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