

We have successfully completed over 150 projects in 65+ countries across the globe. The majority of our clients reside in the United States, Canada and the European Union.

## Logistics and Supply Chain Management Application

A warehouse and transportation management system for third-party logistics (3PL) companies that provide supply chain and logistics operations to another company.

The system helps to arrange all issues related to shipments aggregation, inventory management and timely delivery to the destination point.



### Business Challenge

The modern supply chain and logistics process became complex and the client required a full-cycle system that would improve customer service and ensure goods delivery on time and at least possible cost. The supply chain management system should be designed to make the transportation and logistics process transparent and simple. It should provide an in-time control of packages conditions and integration with 3rd party applications for order processing and inventory management, warehouse and transportation management.

The customer requested XB Software to develop an easy-to-use logistics app that would speed up cargo processing, provide real time information on freight tracking, remove paper work and replace bunches of paper documents with electronic data, and finally reduce mistakes caused by invalid/omitted information. Sharing TMS and WMS information in real time should be one of the key features for this supply chain management application.

Test Account		Find Vendors										
		Account:	Vendor Name	Address	Contact Name	Phone Number	EIN					
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Task Manager		14787	JD SALES INC									
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### Solution

XB Software took part in the software development for the logistics and supply chain management system.

The system was required to be created in accordance with the latest and innovative IT and design trends that why XB Software team selected Webix JavaScript UI library as the framework of the future logistics management application. Furthermore, Webix was used to implement the system dashboards.

The application has Webix tree view, tab bar and other components, DHTMLX scheduler and JSON on the back-end. The server side was developed using REST technology. We used JavaScript scheduler for scheduling goods delivery and shipments aggregation.

On the stage of order processing and inventory management the team of developers integrated software for a barcode scanner and geolocation tracking software tool.

As soon as the goods are in the hands of a 3PL company, the sender can track them on the online map and get information about the current goods location and estimated time to receive them. Tracking of goods is based on the GPS technology.

XB Software team implemented a WMS and a TMS to collect and analyze data. On the stage of warehouse management we implemented a system for inbound/outbound goods processing, cargo snapshots to record damages, storage optimization, cross-docking enablement and warehouse KPI reports generation.

The added feature to make cargo snapshots allowed any user with a mobile phone to make a photo of shipment damage, upload it to the system and comment it, so that any other user could generate a report with this photo and damage details attached.

The created logistics management system included document management, load planning, shipping compliance management, claims management, carrier performance reporting, GPS tracking.

The system allows seamless data transfer between WMS and TMS and integrates tools of 3rd party companies.

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### Applied Technologies



Duration		Estimated man-hours	
12+ months		10.000+	
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### Result

XB Software effective work resulted into a powerful cloud-based logistics and supply chain management application built in full compliance with customer needs.

The system makes cargo transportation process simple, transparent and reduces time for documents processing. It also boosts operational efficiency and improves customer service.

The logistics and supply chain management system provides cross-browser support and works both on desktop and mobile devices.

### Customer

A multinational team with the head office in New York, USA that provides solutions to effectively handle the challenges in the logistics and cargo industries.

### Thanks for watching!

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