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 shipment aggregation, inventory management and timely delivery to the destination point.

We have successfully completed over 200 projects in 65+ countries across the globe. The majority of our clients reside in the United States, Canada and the European Union.

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 the lowest possible cost. The supply chain management system should be designed to make the transportation and logistics process transparent and simple. It should provide on-time control of packages conditions and integration with third-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 paperwork 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 software.

Solution

XB Software took part in the software development for the.

The system was required to be created in accordance with the latest and innovative IT and design trends, which is why XB Software team selected Webix 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, DH HTMLX 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.

For the order processing and inventory management stage 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 GPS technology.

XB Software team implemented a WMS and a TMS to collect and analyze data.

For the warehouse management stage 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 take a photo of shipment damage, upload it to the system and comment on it, so that any other user could generate a report with this photo and damage details attached.

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

The system allows seamless data transfer between WMS and TMS and integrates with the tools of third party companies.

Applied Technologies

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Customer

Your questions and requests are always welcome!

Visit https://xbsoftware.com/

Contact Us

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