Mobility Solution:Boon for Logistics Efficiency & Operational Transparency.

Mobile Apps developed by Spadeworx help optimizing carrier fleet utilization, pre-delivery inspection, and provide real time delivery status to customers.

One of the largest transporter, inspectors and shippers of light-vehicles in both the US and Canada, Company provides full range of automotive transportation and logistics services to OEMs, remarketers, fleets, auctions, and dealers in the US and Canada. largest inspectors and shippers of vehicles across the United States.

The Business Case

Carrier fleet usage optimization system: Everyday Company delivers more than 1000+ vehicles from terminals available across USA. Company was interested in to

1. Every vehicleis inspected at terminals and driver carry inspection report for the vehicles which are part of the load before they are delivered.
2. Company wanted to provide value to their customers by providing real time information of the concerning vehicle load, exception reporting, dispatch and delivery and promotes efficient control and tracking of customer vehicle inventories.
3. Company in order to reduce cost of operations, wanted to monitor and optimize routes, carrier utilization and fuel efficiency by utilizing GPS locator system and Fuel Tracker.
4. Company while planning route wish to allow gas stations and hotel facility added for

Spadeworx was chosen because of:

1. Spadework's strong knowledge base on cloud and Azure database
2. Highly technical team available at Spadeworx to create android application and support

Solution

3. Experience in integrating azure mobile data with android apps
4. Expertise in creating highly intuitive UI for android apps
5. Matured processes for application development and delivery

Spadeworx with onsite offshore development model and technical team comprising of Sr. Business Analyst, Solution Architect, android developers, Sr. UI Developers and Testers using UCSE patented technology, successfully delivered the solution. This solution facilitates inspection of vehicles by driver before delivery, storing inspection and exception data in cloud, route planning with Gas and Hotel facility, storing Delivery data and tracking fuel and mileage data.

Overview

Project Goals

1. Optimize Carrier fleet utilization
2. Create Pre delivery Inspection report before dispatch.
3. Dashboard for delivery status

Solution

Spadeworx developed Carrier fleet usage optimization system is using Android SDK and Azure cloud based mobile application. Android apps on Tablets allow storing exceptions and damages, pickup report and delivery note in real time basis. Company and Dealers can view the delivery status using dashboard. Company use GPS data for mileage, fuel efficiency and route planning

Benefits

- Cloud based secured and real time data
- Optimal utilization carrier fleet
- Pre delivery and in-delivery inspection increases effective delivery and reduces claims

Salient Features

Android App for Carrier fleet usage optimization system is using Azure database on cloud to save real time data for carrier fleet as well as vehicles ready for delivery. The system feature includes:

1. Plan Route: Company delivery office user; on the basis of delivery schedule, delivery location, number of vehicles for delivery, available carrier and fuel efficiency details decides on route planned with gas station and hotel locations using google services.
2. Creating Load: This feature allows grouping of the vehicles for delivery for the route planned. The load had carrier vehicle number, delivery vehicle details and delivery address details.
3. Pre Loading Inspection: This feature allows driver and terminal inspector to inspect vehicles for delivery. Driver inspect every vehicle for any damages, take photographs and prepare pickup inspection report
4. On the Road: System can provide the mileage carrier can travel with available fuel, nearest Gas station and hotel facility, change in route facility.
5. Delivery of vehicles: Driver along with dealer can inspect vehicles before accepting delivery. Driver and dealer can sign delivery acceptance note and store on cloud.
6. Optimal Carrier fleet utilization: Company tracks all the carrier location using GPS and fuel efficiency using Fuel tracker. This helps company to optimally plan the routes on the basis of fuel efficiency. Company also uses this data for fleet maintenance and removing aging carriers.
7. Status Dashboard: All dealers can log in to cloud to understand delivery status including individual vehicle inspection report, location of carrier on real time basis

Technical Highlights

- Very intuitive UI with impressive dashboard components
- Highly optimized Azure and windows services to fetch data from Company's logistic database
- Vehicle images are stored as Blob data on cloud
- Instant data display on dashboard for drivers

The key technologies used were:

- Azure Cloud Database
- GPS and Fuel Tracker System
- MS SQL 2008 staging database
- Android SDK

End-user satisfaction and customer delight

SpadeWorx Software Services

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