PARTRUNNER

Boston based tech-logistics company focused on the last-mile of "big & bulky"

Developed Logistics and Transportation Product from scratch and expanded across multiple countries

Engagement Overview

Crownstack engaged with Partrunner since 2021 as an end-to-end Product Engineering partner since its inception, The scope included the entire backend, front-end, mobile application, design, DevOps and quality assurance of the platforms. We also developed a mobile version for iOS and Android.

About the Customer

Partrunner is a tech-logistics company focused on the last mile of "big & bulky". They connect companies to a network of hundreds of independent truckers via our mobile, web, and API applications. An organisation of experienced logistics professionals with a background in Construction, Trades and other Service businesses. They enable companies to tap into their fleet of hundreds of trucks with a click of a button.

Industry	Transportation and Logistics, Supply Chain, Distribution

Business Challenges

PartRunner wanted to expand its services across multiple countries, including the United States and Mexico but was restricted by its legacy software platform. They wanted a bunch of new features too in addition to mobile apps some of which are listed below:

- Multiple countries, languages, payment gateway accounts and currencies support
- Real-time driver and delivery matching algorithm that finds and assigns newly created deliveries to nearby drivers automatically
- Making the same software work as a SaaS for regular customers as well as a white-labelled for specific partner companies
- Allowing drivers to onboard having different partnership terms like fixed drivers, flexible schedule drivers, dispatch companies that provides drivers in bulk
- Creating multiple admin users having restricted access to data based on their role and privileges given to them
- Fully-automated customer invoicing system that supports billing on a daily, weekly, bi-weekly and monthly basis
- Stable mobile application on iOS and Android for drivers and customers that support advanced location tracking, real-time data syncing

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- Moving from one extensive monolith application into multiple separate applications that different development teams can work on simultaneously.
- Migrating customers and orders data from legacy database to new platform

Business Solution

- Crownstack helped PartRunner phase out the legacy application safely by creating a new one for them from scratch. We started with planning their databases after acquiring all the requirements, then architectured how the application should be distributed into multiple isolated smaller applications that different teams.
- With time we also introduced multiple microservices integration, using multiple databases of different types (Relational, NoSQL, Time series and Geospatial databases) for various functionalities.
- We plan new features months ahead, then develop and release them agilely, giving the team complete confidence and a sound vision of what's coming in the system.

Technology Stack

Manual Testing	Testrails
Frontend	AngularJs, HTML/CSS
Backend	Laravel, AWS, Google Firestore
Mobility	React Native
Workflow	JIRA, Slack, Github, Figma Designs

Business Outcome

- Customer and driver onboarding became a lot easier
- PartRunner successfully launched its platform in Mexico in Spanish language and has been driving successful sales since 2021
- We broke out of one significant monolith dependency and now using cloud-native services and event-driven architecture to achieve a distributed application architecture

Further Links

Learn More About Crownstack's Offerings
Learn More about Partrunner

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