

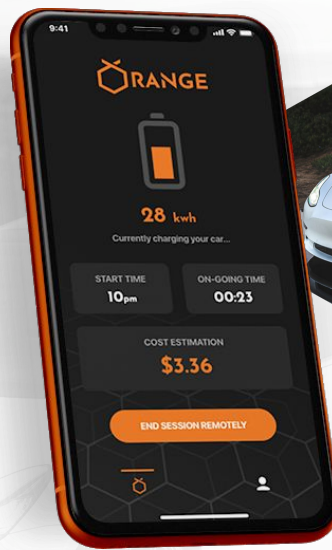
Case Study

Mobile app for electromobility industry

San Francisco, CA

Orange

Charging an electric vehicle, reimagined.



Project Overview

We, at DevsData LLC, have created an app for **property owners to provide their renters with a simple vehicle charging solution**. We could decrease the cost of EV ownership by creating an organization that installs charging points where people live and therefore providing more people with a reliable place to charge. We have noticed that all of the previous solutions were costly, difficult to install, and too complicated for many housing types and situations.

The challenge

Electric vehicles are becoming a serious option for people who previously did not think they could own an electric car. This means that more and more people need to **charge their vehicles at home, while about 46% of them live in an apartment or multi-unit dwelling**. Of course, a property owner needed to approve of the installation of an outlet in a place their tenants parked to charge. This, in turn, led to problems with electrical installations, panel capacity, and monitoring of the energy used.

Main problems electric car owners encountered:



85%

perceived lack of charging stations



83%

considered cost of cars and ownership too high



74%

felt uncertain over expected duration of charge



The solution

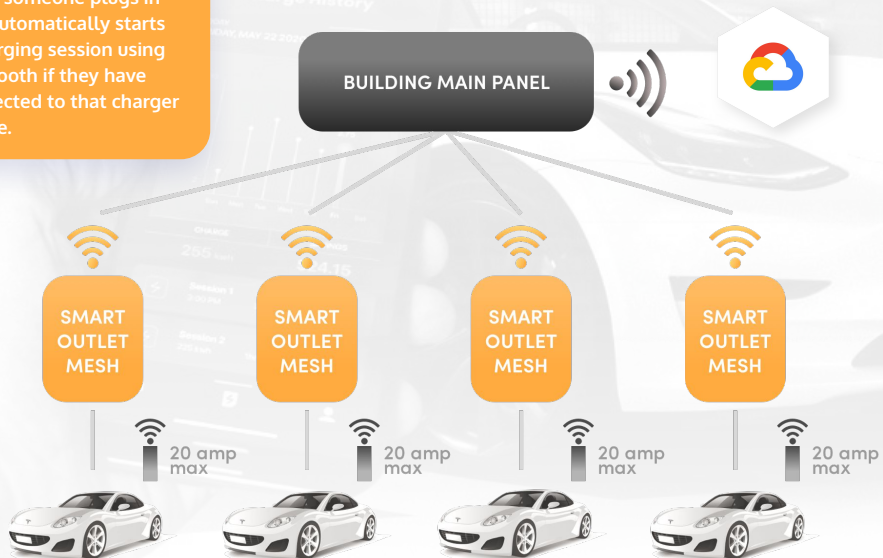
DevsData has created an opportunity for property owners to take advantage of the current panel capacity by offering to charge their tenants and transfer the funds between tenants and the property owner. The solution was paired with services to help to install and maintain the charging infrastructure along with navigating the government incentives being rolled out to install more charging opportunities.

How Does It Work?

Property owners who have installed and set up the outlets are the owners of the charging station. They create a profile that connects their bank account to our backend payment system and digitally signs a payment agreement. The login to the system was secured by JWT Token and Hash Password, with 256-bit Encryption.

Next, tenants/users download the app and set up the account that allows them to log into the property owner's network and start a charging session on a charger. At this point they see the energy consumed and the cost of that charge. Each month they are charged for the energy they used + our fee.

The ideal experience is when the app knows when someone plugs in and automatically starts a charging session using Bluetooth if they have connected to that charger before.



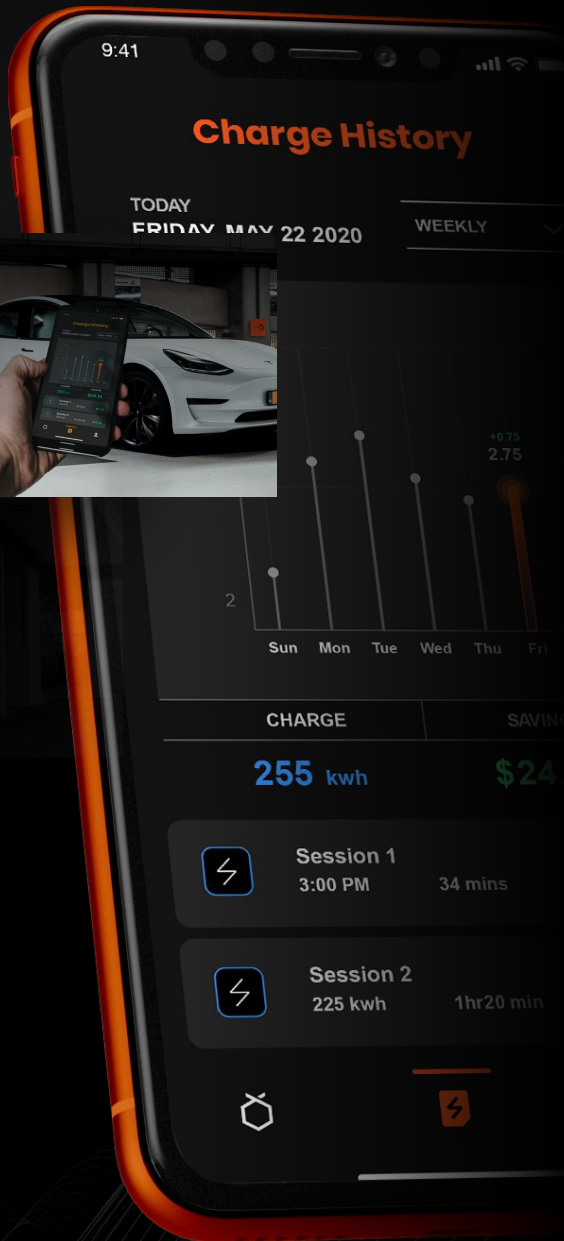
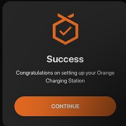
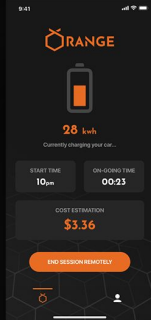
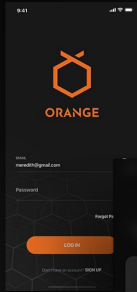
Modern Technology Tools and Frameworks

Various modern technologies have been used to build the the Orange platform. Thanks to Flutter and OpenAPI it's available on all devices.



and many more...





*"I interviewed about a dozen different firms. **DevsData LLC is truly exceptional – their backend developers are some of the best I've ever worked with.** I've worked with a lot of very well-qualified developers, locally in San Francisco, and remotely, **so that is not a compliment I offer lightly.** I appreciate their depth of knowledge and their ability to get things done quickly."*



Nicholas Johnson
Founder of Orange Charger,
ex-Tesla engineer

Click [here](#) to find out more.

DevsData LLC - a premium technology partner

- ✓ Worked with **premium & extremely demanding clients** before (hedge funds, fast-moving VC-backed startups).
- ✓ **100% client satisfaction** rate, 5.0/5.0 score on clutch.co.
- ✓ **Strong business & marketing** focus in addition to high engineering skills.
- ✓ **Extensive experience** in very recent technology tools, frameworks and languages for innovative software development.
- ✓ Ultra **transparent** way of work.

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Devs_Data

Let's talk!

Our skills, experience and battle-tested process allow us to scale your business with top-notch engineers.

Regardless of your tech stack and location.



Clutch

5.0/5.0 ★★★★★

Top Web & Mobile Developers

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