**ORANGE**

# Charging an electric vehicle, reimagined.

[/} Devs_Data

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# Project Overview

DevsData LLC created a solution for property owners to offer renters a simple vehicle charging solution. By creating an organization that installs charging points where people live, we could decrease the cost of ownership by creating a reliable place to charge for more people. We observed that the current solutions were costly, difficult to install, and complicated for many housing types and situations.

## THE CHALLENGE

Electric vehicles were becoming a serious option for more people who previously did not think they could own an electric car. This meant that more and more people needed to charge their vehicles at home and about 46% of these people rented/lived in an apartment or multi-unit dwelling. Of course, a property owner needed to approve installing an outlet where they parked to charge. This, in turn, led to problems with electrical installations, panel capacity, and monitoring of energy used.
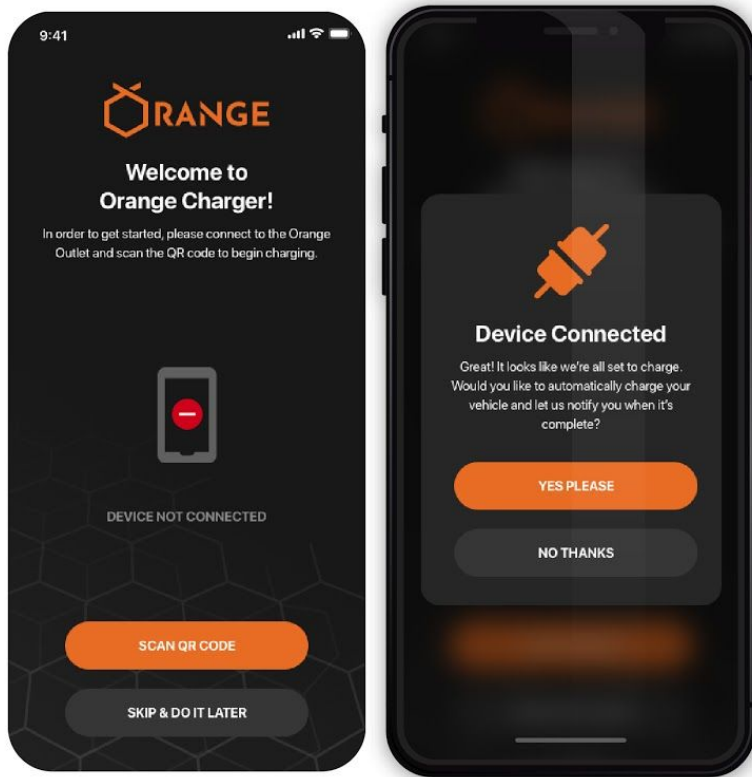
**85%**
A perceived lack of charging stations

**83%**
High cost of cars and ownership
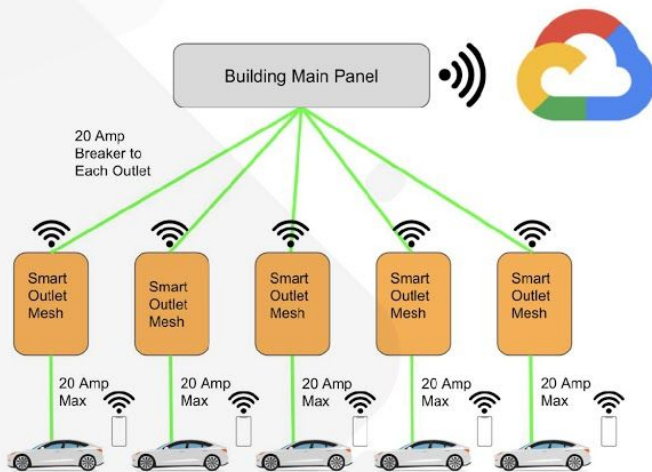
**74%**
Uncertainty over duration of charge

# The Solution

DevsData's solution enabled property owners to take advantage of the current panel capacity to offer to charge to their tenants and broker the transfer of funds between tenants and the property owner. The solution was paired with services to help install and maintain the charging infrastructure along with help navigating the government incentives being rolled out to install more charging opportunities.
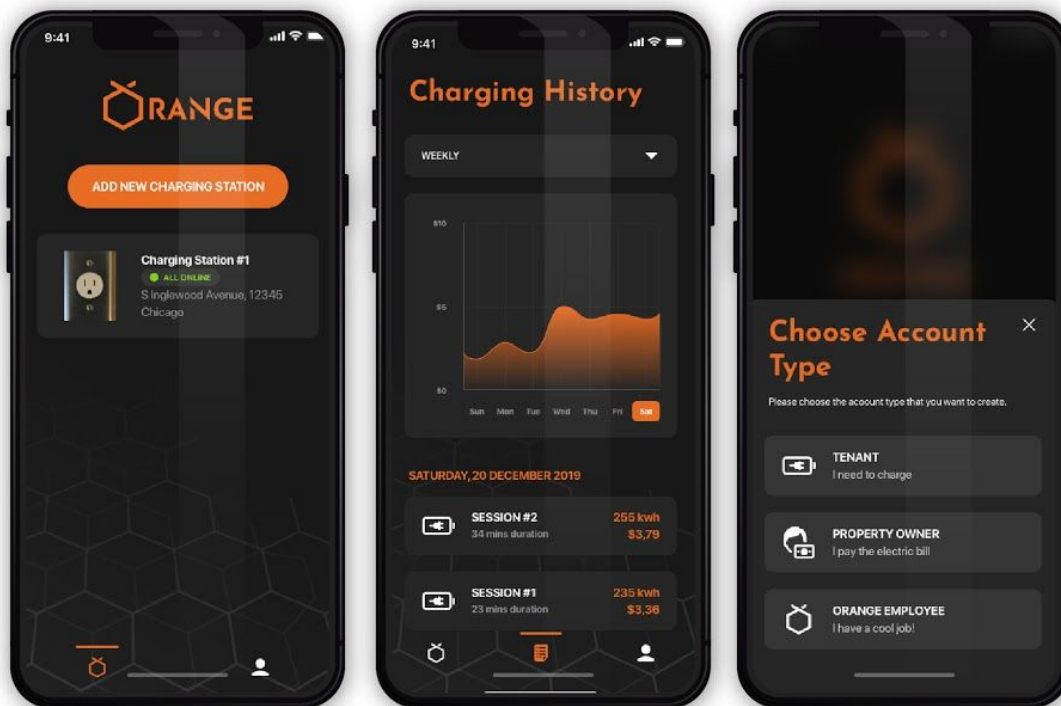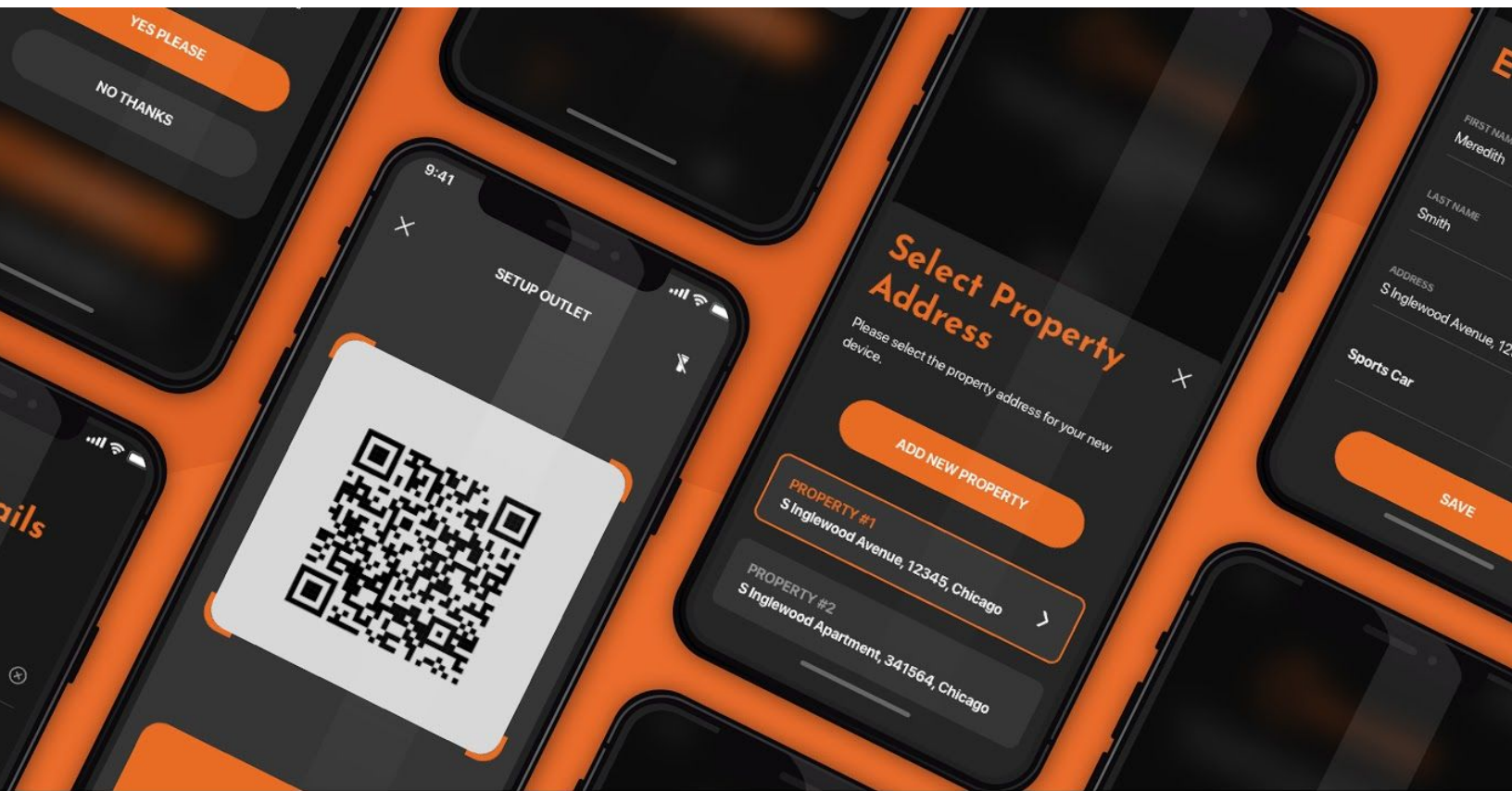
Property owners who set up and installed the outlets were tenants who owned EV's charge. They created an account that connected a bank account to our backend payment system and digitally signed a payment agreement. The login to the system was secured by JWT Token and Hash Password, with 256-bit Encryption.

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Next, Tenants/Users downloaded the app and set up an account that allowed them to log into a property owner's network and start a charging session on a charger. At this point, they saw the energy and cost of that charge. Each month they would be charged for the energy they used + our fee.



The ideal experience is one that knows when someone parks and plugs in and automatically starts a session through the Bluetooth signal if they have connected to that charger before.

# Technologies

Flutter · Node JS · TS · OPEN API INITIATIVE