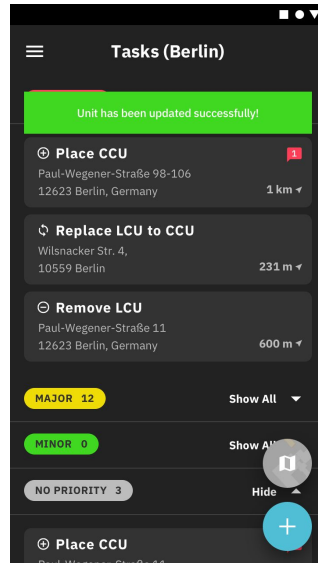
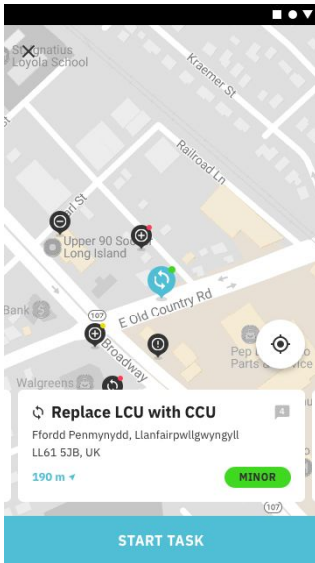


NOVALUME is an international company that develops and manufactures advanced energy-efficient LED lighting solutions.



Challenge

- A high current, high load solution was to be created to control 2m lamps all over the world.
- A fully designed server architecture.
- Collect and store vast amounts of metric data.
- A plugin system to connect multiple device vendors.
- The system requires a mobile application for the devices installation process.

Solution

A mobile application is used for tasks management and new device installation, which includes the following steps:

- device scanning (QR-code or NFC)
- location setting
- properties information filling
- light profile uploading

It is integrated into the system that allows visualizing the entire street light installation and monitoring its operation. It can also evaluate the consumption and intensity of the light emitted from the luminaire, individually or in groups.

Tools and technologies

- Android SDK
- Dagger 2
- RxJava
- Retrofit
- NFC
- Camera API
- Firebase Cloud Messaging
- Firebase ML Kit
- Google Places
- Google Maps

Scope of work

- Mobile app development
- Decision on the technical stack
- Architecture engineering
- User interface/User experience (UI/UX) design
- Front-end/back-end development
- Requirements elaboration
- Quality assurance

Results

- A fully working mobile application developed by one engineer in 6 months

