

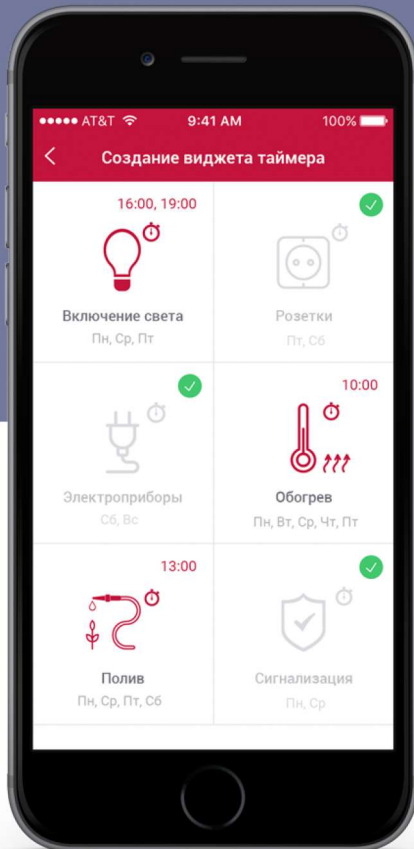
Smart Home Automation System in cooperation with Nero Electronics

Case study

Cooperation partner

NERO

Belarusian company specializing in producing hi-fi electronic devices for operation of motorized roller shutters, blinds, gates, garage doors as well as light, ventilation, and further electrical appliances.



Project goal

The main objective was the development of control system for home automation. The key target group is represented by suburban private houses and small businesses owners (cafes, studios, etc.).



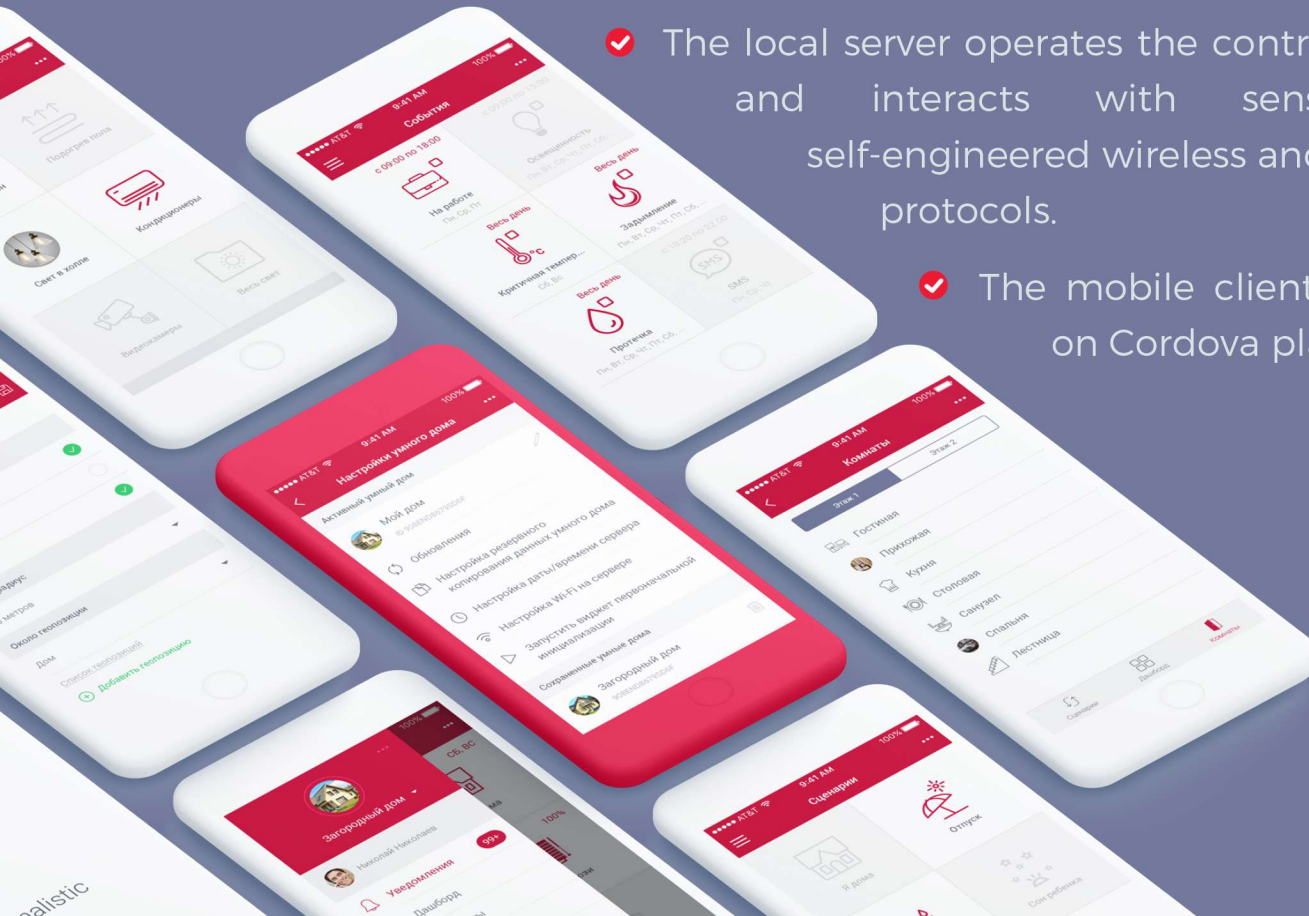
Duration
18 months



Development team
5 software engineers

System structure

- ✓ The system consists of a local server based on ARM core that is controlled by operation system Linux. The software solution is developed using C++, NodeJS, Java, and Go.
- ✓ Furthermore, the development team used cloud-based technologies and servers provided by Amazon.
- ✓ The local server operates the control devices and interacts with sensors via self-engineered wireless and Z-WAVE protocols.
- ✓ The mobile client is based on Cordova platform.



Project results

Qulix team developed a system that allows controlling lights, shutters, blinds, and garage doors using a mobile application. Besides, it enables to collect data from temperature, water leak and motion sensors, as well as security cameras. It is also possible to create device control scenarios, schedule, and determine fleets of devices.

Tools and Technologies

Linuxnode.js

Java

go

amazonZ-WAVE

APACHE CORDOVA™

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