



# Uniots SmART City– Case Study

Test Software Functionality and Hardware Devices in Real Time and as One System

## The Challenge:

*Ensure stable functionality of the web platform in every browser and location*

A “SmART City” is a project presented by Uniots to modernize urban lightning infrastructure.

The communication between existing hardware and software is carried out by a web platform – an online platform that can be managed in every browser, device and location.

“As a Start up we are limited in human and financial resources to setup E2E Testing.”, says the Senior Software Engineer Petro Gordiiievich. “However, using Uniots web platform must guarantee that all complex operations work flawlessly.”

Before shifting to testup.io, it was extremely time consuming and required highly qualified personnel to write unit tests and scripts, to test manually hardware devices in real time and to support all testing life cycles, especially during active CI/CD phase.

### About the company

Uniots is a Ukrainian innovative company that creates technological solutions that connect infrastructure in the city into a single smart system and help to use it efficiently.

### Number of Employees

10

### Industry

Wireless data transmission

### testup.io was used for

Implementation of e2e testing of hardware and software as entire system

### ROI

Increase test coverage of system under test from 50% to 90%

## The Solution:

*Implement testup.io to ensure full test coverage and optimize the quality management process.*

Testup.io provided a quick, easy and affordable solution to improve stability and the quality of the web platform. "We recorded with testup.io a lot of tests in a short time to cover all scenarios that ensures correct state of complex dependencies of the entire system. Software functionality and hardware devices are tested in real time as one system." says Petro.

Tests are designed for each lightning scenario. They can be executed simultaneously, by schedule and as many times as needed.

Testup.io provides recordings of test executions so the monitoring becomes more convenient. From any location and device users can compare recorded data with expected data (for ex. power consumption, connected devices, power consumption, supply voltage, etc.)

## The Impact:

*Stable system functionality and easier communication with the customers as a result of reliable E2E testing*

With the implemented solution from testup.io, Uniot company benefits in different areas.

Developers don't have to write lots of unit test. They get visual reports of the executions that are easy to analyze.

Managers save time on executing E2E tests and are able to concentrate on business development and marketing. Recordings of test executions are also used for presentations. Meetings went smother, more reliable and efficient. The visualization of the entire process became a key to successful sales.