



Test Automation Creation for Vaisala's viewLinc Web-Based Application

Vaisala is a global leader in environmental and industrial measurement. Building on 78 years of experience, Vaisala contributes to a better quality of life by providing a comprehensive range of innovative observation and measurement products and services for chosen weather-related and industrial markets. Headquartered in Finland, Vaisala employs approximately 1,600 professionals worldwide and is listed on the NASDAQ OMX Helsinki stock exchange.

The lives of millions of people all around the world are touched daily by the work they do and the technologies they create. Vaisala's products and services provide their customers with the means to influence and better understand their environment. Curiosity, the desire to meet challenges and an extraordinary ability to innovate are at Vaisala's core.

Vaisala

Industry	Location	Employees
Environmental	Vancouver, BC	>1600

Highlights

- Automated the regression test suite to minimize the effort required in each test pass.
- Developed a robust framework that would enable the addition and removal of test scenarios.
- Created a process to fetch test data from an external file that could be changed any time.

The Need

Vaisala was running manual tests to identify defects in their frequently changing viewLinc web-based application. It was a resource intensive and costly exercise for them every time there was a new release. They were looking to automate the regression test suite to minimize the effort required in each test pass while ensuring adequate test coverage.

Key Challenges

- Automate the regression test suite to minimize the effort required in each test pass while ensuring adequate test coverage.
- Develop a robust framework that would enable the addition and removal of test scenarios with minimal changes at the code level.
- Create a process to fetch test data from an external file that could be changed any time without having to modify existing scripts.

could in turn be emailed to all the stakeholders automatically after test execution.

The Result

The result of the project was a maintainable test automation suite that reduced Vaisala's test cycles significantly while increasing their test coverage. Vaisala saw a return on investment on the automation process within four releases through reduced effort in manual testing while increasing confidence in the stability of their solution.

How Optimus Helped

1. In order to help Vaisala meet their testing needs Optimus needed to first ramp up on the requirements and create a high level plan breaking down the functionality to be tested in detail.
2. We proposed a hybrid framework, which would take the advantage of our data driven and keyword driven framework. We developed the framework in Java with all the test scenarios, test data and keywords defined in an Excel workbook. The configuration and property files were created externally so that any change in the user interface elements would not involve changes in the code.
3. We created positive and negative test scenarios with robust test data to obtain maximum coverage. The testing effort was distributed across different modules of the application by functionality and priority on the basis of business criticality.
4. Test results were reported in HTML files, which

About Optimus Information

Headquartered in Vancouver, Canada with delivery centers in Canada and India, we work as a trusted partner to medium and large businesses to solve their software and technology challenges. With a team of 150+ people Optimus Information provides global organizations with scalable, flexible and cost efficient solutions. **Optimus Information provides global reach with a local presence.**

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