



Significantly Reduced Regression Testing Time for Dovel

Dovel empowers customer missions with innovative technology solutions. By applying proven software development methodologies combined with leading edge technologies and approaches, customers are provided solutions that will meet the needs of today and into the future.

Dovel has been instrumental in the design and implementation of some of the most mission critical and innovative systems in government today. They bring strong experience across the software development lifecycle as well as specialized experience in Health IT, Education, Grants Management, and Regulatory markets.

Dovel has been appraised at CMMI® Maturity Level 3, and its annual quality report receives accolades from industry leaders such as Capers Jones, who has listed Dovel in the category of “Companies That Utilize Best Practices” along with IBM, Amazon, Google, and Apple.

Challenge

Dovel has supported several projects within the federal government. One specific project required 936 man hours of regression testing time, and six testing resources were allocated towards this regression effort. Dovel delivered development, operations, maintenance, and enhancement support for this project and continues to provide ongoing regression testing on the system.

The project was a series of web-based applications integration into a single management systems servicing twenty (20) Federal agencies. Dovel, as a cutting-edge technology company, employed testers with a broad range of skill sets, but preferred and sought a solution that did not require such a substantial manual effort, so that testers could focus on providing subject matter expertise rather than spending time learning a proprietary programming language to conduct

automated testing. It was critical for the Dovel team to have a cost-effective solution that met the following criteria: easy to install and configure, scaled out of the box, provided cross-browser and cross-environment testing, and did not require any knowledge of coding or scripting.

Solution

After evaluating a series of test automation products, the Dovel team decided to pilot Subject7's platform. The team was quickly impressed with the functionality and ease of use. With only introductory training, the team was creating and running test cases almost immediately. Subject7 delivered:

- A Cost-effective solution that could grow with Dovel as their needs evolved.
- The convenience of Software as a Service



“What we noticed from the first day with Subject7 was the ease of use, and how fast testers were able to ramp up, even without any prior knowledge of testing.... We reduced our regression time by more than 90% and freed up our testers for exploratory testing.”

- SaaS), with no installation necessary and seamless upgrades
- Data-driven testing out-of-the-box
- Scalable execution where additional virtual machines could easily be added to encompass all of the regression testing over different browsers and development environments

After pilot, Dovel selected Subject7 for all of their automated and load testing needs.

Results

After an initial investment of time to create a library of repeatable test cases, the team observed dramatic increases in the speed with which they could fully implement regression testing. Production level defects were reduced significantly, which was directly attributed to test automation. The testing team is now able to focus their energy on testing new functionality, while the Subject7 test automation platform runs all the regression tests.

Dovel reported the following, as a result of working with Subject7:

- Reduced regression testing time from 936 man hours to only 7 hours
- Reduced 6 testers to 4 virtual machines
- Executes regression tests nightly as opposed to only once per release

Today, with more than a year as a successful partner working directly with Dovel, the organization has initiated the use of Subject7's automation, load, and manual testing capabilities across additional products and services. Subject7 continues to train and provide support to the Dovel team, and has provided open dialogue about future product enhancements. Dovel has continually been impressed with Subject7's commitment to customer service and speed in which feature enhancements are introduced.