Test Automation for CLM MS Word Add-in

About The Customer

The customer is a leader in the Contract Lifecycle Management space. The platform manages 5+ million contracts in 40+ languages from 2+ million subscribers across 90+ countries. The AI-powered platform allows customers for faster & proactive management of entitlements & obligations as well as surface commercial insights and intelligence.

Business Challenge

The customer wanted to automate MS Word add-in test scenarios to maintain the quality of services by performing regular sanity and regression checks on the add-in. Automating MS Word add-in test cases was a challenging task. Finding a mix of tools/technology to automate the add-in was tough, as Selenium does not support desktop application automation. Also, there is not enough reference knowledge base available regarding the automation of a Microsoft Word add-in.

Though the MS Word add-in is a desktop application, its automation is a different challenge than automating a typical desktop application. With available automation tools and technologies, one can access elements in the MS Word add-in but cannot perform actions such as adding text, selecting the text, verifying content control properties, clearing text, positioning the cursor, etc., in a Word file. Other challenges include – a tool to inspect elements, selection of automation tool/technology, unavailability of element IDs, synchronization & compatibility issues, handling dynamic aspects, and selection of a test framework.

How Opcito Helped

The Opcito team had developed the MS Word add-in for the CLM application. After carefully considering the version compatibilities with the MS Word add-in and working on different technologies, Opcito proposed a solution to automate the MS Word add-in using WinAppDriver and NodeJS. Window's inpect.exe tool is used to inspect the elements in the solution. VB scripts perform actions in Word files, which are called in a framework to perform different tasks in Word files.

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The automation framework is a mix of data-driven and POM pattern frameworks. This automation framework comprises Driver code, Test Cases, Test Methods, Test Data, Locators, VBScript, Utilities, API helper, Logs, HTML reports, Screenshots, DB helper, etc. The Opcito team also covered the API testing and the automation of the MS Word add-in's UI.
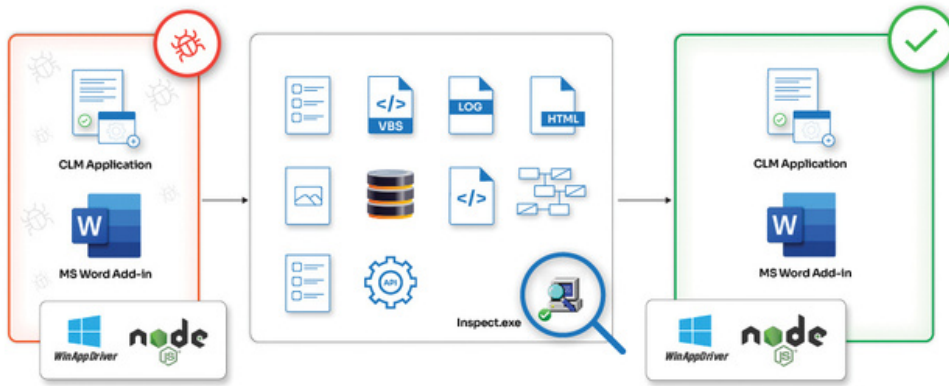
Technologies, Tools, and Platforms used

WINAPP DRIVER

NODEJS

Benefits

EARLY DEFECT DETECTION	Capture and eliminate defects in the early stages of the release.
EFFORT REDUCTION	Reduced manual testing efforts required during regression pass testing of the release.
DECREASED BUG COUNT	Reduced number of bugs.

About Opcito

At Opcito, we believe in designing transformational solutions for our customers, start-ups, and enterprises, with our ability to unify quality, reliability, and cost-effectiveness at any scale. Our core work culture focuses on adding material value to your products by leveraging best practices in DevOps, like continuous integration, continuous delivery, and automation, coupled with disruptive technologies like containers, serverless computing, and microservice-based architectures. We also believe in high standards for quality with a zero-bug policy and zero downtime deployment approach.

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