

# World's largest healthcare accreditation firm drives operational excellence using Automated Testing Solution built on Selenium & C#



## Customer

The customer is an independent, not-for-profit organization that accredits and certifies nearly 21,000 health care organizations and programs in the United States.

## Business Challenge

The customer wanted to automate the mission-critical line-of-business applications which were used to maintain the accreditation and certification information. The customer faced challenges to maintain the top-notch quality of these applications. The existing and new set of applications that were added required many resources for testing and maintenance.

The application owners were testing and maintaining the applications for each patch release which was time-consuming. There were no written test cases, or the test cases written were outdated.

Application manager did not have overall information about all the projects in a common file and had to check with individual application owners. The major challenges included:

- Improve application quality by automating all backlogs/test cases
- For a few applications, there were no written test cases
- Test cases were outdated
- Sum up the info from the individual application owner
- Triggering Test Automation once the patch is released
- Consolidated report

The customer was looking for a complete Test Automation Solution for all the applications with the individual and consolidated report. Each Test Automation Solution had to be placed in the application specific location for Continuous Integration (CI)/ Continuous Delivery (CD).

## WinWire Solution

WinWire team worked with the customer to understand their needs and proposed a **Hybrid Framework** using **Selenium and C#** which would take advantage of both data and keyword-driven testing features of Selenium.

WinWire created a new Hybrid Test Automation framework specific to the customer which will be used for all the individual applications. The Hybrid framework is built using C#, **Microsoft Unit Test**, and Selenium Web driver.

- Created a high-level test plan providing visibility on effort estimation, deliverables and test approach
- Developed the framework where all the test cases, test data, test scenarios & application objects would be defined in a workbook
- The test automation solution generates both individual and consolidated reports of the all the applications which provides in-depth insights of test run with success & failure of the test cases.
- In test run information, each step data is recorded and will display with its status. If any failure, a screenshot is provided for the step where it failed and helps application owner to know why step has failed.
- Reports are being generated using HTML and CSS and are fully customizable.

## Business Value

- Enhanced System reliability
- Centralized setup and reporting
- Enhanced employee productivity and experience
- Improved operational excellence