



Background

Our client had recently transitioned from their previous application to a new one that offers a well-established processes model. This model effectively manages the entire employment life cycle, from job vacancy to weekly payroll. In addition, the introduction of National Pricing has not only led to significant savings but has also demonstrated tangible financial and operational benefits.

The new application provides system users such as NHS Organizations, Suppliers, and Candidates with access to live job vacancies. Workers can easily apply for and confirm shifts on-the-go, thereby simplifying the workforce management process. The application also enables electronic viewing and signing of contracts, as well as effort-less completion of timesheets.

However, continuous testing from the client is required due to ongoing changes and enhancements, which necessitates a significant amount of time and effort.

Benefits to Client

- ✓ The client received a test suite that is highly maintainable, resulting in a significant reduction in regression test turnaround time.
- ✓ Additionally, the client enjoyed cost and time benefits from test automation.
- ✓ After the execution of test suites, email triggers were sent, which contained the extent report.

QA Process

- ✓ The QA team diligently documented test scenarios in parallel with the design phase as soon as the product specifications were made available.
- ✓ The developers were exposed to the test cases, providing them with valuable insights into acceptance criteria and enabling them to troubleshoot unit testing and other issues more efficiently.
- ✓ The documentation of test cases made them highly reusable, allowing for more efficient retesting and regression testing.
- ✓ Test execution was carried out as soon as the code was deployed in the test environment.
- ✓ Traceability metrics were developed to map requirements with test cases, ensuring complete coverage.
- ✓ Automation scripts were created for Smoke and Regression test suites, improving the efficiency of the testing process.

Challenges / Mitigation

- ✓ Identify and select the test cases to be automated.
- ✓ Develop and document an automation test strategy that incorporates various design techniques.
- ✓ Configure the test environment, ensuring that it is conducive to automated testing.
- ✓ Employ an automation framework that supports reusability and simplifies maintenance, improving the traditional automation approach.
- ✓ Implement the framework design according to the structure of the project.
- ✓ Automate regression testing for the application, thereby reducing the time and cost associated with manual testing.
- ✓ Maintain test assets such as test scripts and repositories.
- ✓ Consider offshoring the test automation activities to improve cost benefits.

