



# Test Automation Services

AppLabs' Test Automation Services help our clients apply best practice, and implement the automation tools effectively to achieve the optimum return on their investment and provide real benefit to the projects in which they are implemented.

In AppLabs' experience, projects succeed when the choice of tools for each area is informed by realistic expectations of their capabilities, thereby ensuring maximum performance. A critical aspect of any deployment of tools is to develop a realistic plan for implementation, establishing a business case that sets some expectations and structure around the project.

One example of this is test automation, where stability of the program code environment is critical to success. Test automation also provides challenges to less experienced test organizations, due to its requirement for a separate development lifecycle to produce a well structured, easily maintainable and reusable script environment.

AppLabs has many years of experience in tools implementation and test automation. This, combined with our extensive knowledge in building high quality testing harnesses and frameworks, provides you with an expert partner to make your project a success.



## Test Automation Proof of Concept

AppLabs' Test Automation Proof of Concept Service is designed to bridge the gap between a tool selection process and the large scale rollout of one specific test automation tool, whether across an organization, a single department or just a single project.

It is critical to the success of test automation that the automation tool will work for all operational circumstances. Until the tool is proved operationally, the chosen tool's implementation is only a conceptual objective. In most circumstances, going straight from a tool selection process to implementation is just too high a risk. To mitigate the risk it must be shown that the test automation tool will:

- ▶ Work with the development technologies and methodologies already in place;
- ▶ Be usable by the people who will be responsible for delivering the test automation construction and execution;
- ▶ Have the capability of executing the actual tests that the business requires. You should not change the test plan just to suit the limitations of the tool;
- ▶ Be cost effective. It must achieve the required test and QA objectives within acceptable budgetary constraints.

In addition to understanding what the chosen test automation test tool will do for you, an evaluation must be made of the implications of using the chosen test automation tool. This is especially true if test automation has not been used before within the target environment.

There should be:

- ▶ Potential to change other aspects of the software development lifecycle. Test automation will not deliver its full potential unless the end to end software development process can be reviewed with a view to achieving a tight integration with the test automation activities;
- ▶ A review of the roles and responsibilities of members of the test teams. Not all good testers and test analysts are suited to become test automation engineers;
- ▶ A review of the test analysis and design process. It may need to take account of the capabilities of the new tools available, as test automation tools introduce the potential for innovative testing techniques that would not be feasible in a purely manual test execution environment.

For all the above reasons, you may find that a Proof of Concept exercise, delivered by AppLabs' experienced test automation consultants, is the most appropriate risk mitigation strategy before implementing any large scale test automation initiative. AppLabs partners with many of the leading test automation tool vendors and maintains a pool of automation consultants trained in their tools, but our commitment is to our clients, not to any tool vendor.

AppLabs is your unbiased automation expert delivering factual, real world, tools evaluation. With an AppLabs Test Automation Proof of Concept engagement you can confidently plan your test automation strategy with a realistic estimation of the benefits to be achieved, and a full understanding of the risks and challenges that need to be addressed.