

Your Personalized Test Automation Capabilities Matrix

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Questions

1) What methodologies do you use in your Software Development Cycle?

Answer : [Waterfall](#),[Agile/Iteration](#),[DevOps](#)/[CI](#) / [CD](#)

2) What kind of testing does your team/company currently support?

Answer : [Backend Testing](#),[API/Websphere Testing](#),[Browser Compatibility Testing](#)

3) Do you prefer Open Source and/or Commercial tools?

Answer : [Open Source Tool](#),[Commercial Tool](#)

4) What is the Enterprise tool used for Software Development Life Cycle?

Answer : [JIRA](#),[GITS](#)

5) How frequent are your release cycles?

Answer : [Monthly](#),[Quarterly](#),[Semi Annual](#)

6) What platform is the application used on?

Answer : [Web Application](#),[MainFrame](#),[Mobile](#)

7) What are the major browsers used?

Answer : [Firefox](#),[Chrome](#),[Safari](#)

8) What major hardware do you use?

Answer : [Mac laptop](#),[Citrix](#),[Virtual Machine](#)

9) What kind of testing service do you have?

Answer : [Managed service \(Projects\)](#), [Individual Contributor](#)

10) What are the skill sets already existing within the team/company?

Answer : [Both](#)

Thank you for completing the survey. An SDLC Partners Representative will be in contact with you soon to discuss the summary of assessment report.

Should you need support prior to then, please contact us at xxx-xxx-xxxx.

Summary of Assessment Report

Tool

Selenium is the most popular open source test automation tool for browser-based applications. It has a large user community to draw support from on the Web. Selenium also support different type of browsers for automation and can be integrated with TestNG to perform Multi Browser Testing. As this tool was mainly designed to automate web application, using it for a desktop or mainframe-based application would need third party software in addition. There would be risks to continuing in this path. Our suggestion would be to consider using a commercial tool. We as a team from SDLC Partners, can help you in decreasing your test coverage which helps in delivering a more defect free product. Also, we can help explore other commercial tools more proficient in automating desktop and mainframe applications as selenium works best with web applications.

Commercial tools give an option of testing non-browser based applications unlike opensource tools. Using them for a Web and Mobile based application is a good path to take for test automation. SDLC have experience in HP UFT, RFT. We will be able to provide resources to build an integration testing framework and infrastructure. Experienced QA automation engineers from a consulting company can build the initial integration test suite and train your QAs on automation test creation and management.

Open source tools are becoming more common and seems cost effective. But Open source tools do not have tech support and data in Mainframe must be well protected. To reach the same level of test coverage as proprietary tools need more experience and making updates to existing scripts would become more complicated. Best approach for Mainframe Automated testing will be Enterprise tools. Many companies follow the same path. Going this direction will make scripts robust, well protected data, reliable tech support and more cost efficiency towards increasing test coverage. Going this route will not only make your test bed more efficient. We as a team from SDLC Partners, can help you in decreasing your test coverage using scripting framework.

Commercial tools give an option of testing non-browser based applications unlike opensource tools. Using them for a desktop and mainframe-based application is a good path to take for test automation. Our suggestion would be to focus on increasing your test coverage. Choosing Enterprise tools for Mainframe test automation gives more reliable tech support and well protected data. SDLC partners has vast experience in HP UFT and IBM Rational Functional Tester when it comes to Mainframe testing. Benefit of these tools are robust scripts, easy maintenance and more test coverage. Open source tools seem cost effective but require more time to build framework and updating scripts, also getting same level of test coverage as enterprise tools do require more experience. Taking this route will bring more confidence, effective and reliable Automation testing to your company. SDLC company will bring you more valuable and reliable Automation testing with its reach resources.

A collection of the best open source mobile test automation tools than you can use to test mobile apps and websites on mobile devices. Mobile web apps are web apps accessed using a mobile browser. Hybrid apps have a wrapper around a webview a native control that enables interaction with web content. There are several automation tools which can be used for mobile testing. Anyway, there may be limited choices for scripting languages and product support. We as a team from SDLC Partners, can help you in decreasing your test coverage using scripting framework.

Commercial tools give an option of testing non-browser based applications unlike opensource tools. Using them for a Web and Mobile based application is a good path to take for test automation. If you are looking for commercial tool for mobile testing, there will be costs for license and maintenance fees but you will get mature, comprehensive automated testing features integrated into a single system. These are some tools which can be used for mobile testing : HP UFT, HP LeanFT, TestComplete, DeviceAnywhere. We as a team from SDLC Partners, can help you in decreasing your test coverage using scripting framework.

Windows laptop are supported by most automation testing tool. Since Mac OS is based on Unix, many open source functional testing tools that support this platform or that are using the Java Virtual Machine (JVM) can also run on Mac OS. If you have Citrix application, there are not many that developed specifically for Citrix testing. Leapwork provides Automated testing of Citrix and other virtual desktops. We as a team from SDLC, can help you in achieving better test coverage by providing the best automation practices and thus delivering a defect free product.

If your organization currently have enterprise tool, you can get additional benefits such as Requirement tracability, Test report, Deployment, Continuous Integration System... etc. Github and Git are good source control tools. Git is easy to use locally for managing your own code. We as a team from SDLC, can help you in achieving better test coverage by providing the best automation practices and thus delivering a defect free product.

ROI (Return of Investment)

From the survey completed by your organization, you are using Waterfall methodology which usually have low number of release cycle. Greater ROI can be realized by focussing on functional tests during the QA phase. In addition, there will be greater ROI when automation is used for multiple types of testing, platforms, or browsers, because that creates additional opportunities for automation.

Regarding existing skill set, Descriptive programming techniques will result in greater ROI due to high reliability and better maintainence than Record and play techniques.

From the survey completed by your organization, you are using Agile/Iteration methodology. Greater ROI can be realized by focussing on regression tests that are run at the end of every sprint and before releases.

In addition, there will be greater ROI when automation is used for multiple types of testing, platforms, or browsers, because that creates additional opportunities for automation.

Regarding existing skill set, Descriptive programming techniques will result in greater ROI due to high reliability and better maintainence than Record and play techniques.

From the survey completed by your organization, you are using DevOps/ CI/ CD methodology. Greater ROI can be realized by focussing on smoke tests and sanity tests which will be run during every deployment cycle. In addition, there will be greater ROI when automation is used for multiple types of testing, platforms, or browsers, because that creates additional opportunities for automation.

Regarding existing skill set, Record and play techniques will not have as much ROI as descriptive programming based techniques, because they are likely to fail after the initial test run and require much more maintenance. Our suggestion is to consider using descriptive programming. SDLC can help you in building descriptive programming scripts.

Resource

For Managed service(projects), we suggest to have QA team with 1-2 automation resources per team or have a hybrid resource(automation & manual testing experience) with it a team.

For Individual Contributor, It will require automation engineers with QA background. SDLC is an expertise in Managed service. We also have excellent resources who can work alone or being a part of your team.