



Test Automation Services

If you have a large testing team, you should think about reducing it. We can show you how – and help you get better results. The reasons to automate your software testing are inarguable: more consistent coverage of tests, a single test suite can be executed against multiple platforms/environments at once, testers are freed up to target more creative and complex investigations, results are tracked with detailed evidence of failures, and on and on. The reason you aren't automating is simple: resources. Whether you run out of time in the schedule, money in the budget, or simply don't have resources on staff will the skills needed to get you started – and keep you going – the reason that testing doesn't get automated isn't because you think it's the wrong thing to do.

How do we know what to automate? What happens when our products change? How can we build test script maintenance into our development process without adding time and cost to the cycle? What tools should we be using? Do we need to buy something or is there a better option? Can we tie into our existing requirements management and defect tracking systems? How do we structure our existing development and QA teams to make best use of our new capabilities? Let us show you how to answer these questions to build the best test automation into your development process.

SDLC Partners' Software Testing and Quality Assurance practice has extensive experience helping organizations just like yours build an automated testing framework that fits your needs exactly. We can help you shorten your testing and development cycles, increase confidence in regression testing, decrease production defects, improve customer satisfaction, and reduce overall development cost. Our approach focuses on these three aspects:

Manage – from the creation of a test automation strategy through completion of a full regression suite, our leadership will ensure your automation investment helps you meet your time, cost, and quality goals

Collaborate – we play to our strengths as software test professionals and leverage your strengths as domain and discipline experts; from that collaboration we get the highest value

Execute – our entirely US-based team has success with numerous tools, techniques, technologies, methodologies, and industries

Manage

Incorporating test automation into your software development and IT projects allows you to dramatically increase the number of tests that can be executed with each cycle, sprint, or build. But just like manual testing, where you “can't test everything,” automated testing must be planned and managed in a way to provide the most value for your testing dollars.

One of the biggest challenges for testing teams continues to be test automation. We all agree that it should be done, and we've all heard and shared tales of failed test automation adoption efforts. Yet IT departments continue to invest in tools that aren't used and technical resources that aren't used in the right way. SDLC Partners' Software Testing and Quality Assurance practice specializes in test automation projects by using high performance teams experienced in identifying and implementing high value, flexible, and scalable tests using all major commercial and open source tools and languages.

Collaborate

Testing is deceptively tricky. Test automation adds a degree of difficulty as it is an investment in tools and assets that need to be maintained over a long lifespan, incorporating not only needs from the business and code from developers, but a careful consideration of the most effective and useful test cases, test data, and test development and maintenance options. Each point of intersection is a new opportunity for failure, which makes thoughtful coordination even more important than ever.

Our software testing and quality assurance practice is well-versed in collaboration, sitting alongside application developers and business analysts on projects of all types and sizes to design, develop, and deliver testing applications with long-term value. We truly understand the various roles involved in building automation solutions and can work with you to incorporate needs and navigate risk throughout your development process.

Execute

If you automate features that are changing too frequently, you spend more time rewriting test code than application code. If you automate tests that are extremely edge case, you may be spending time and money with very little expected return. If you design automation in a way that doesn't allow for flexible changes in inputs, outputs, or other variables, you'll find yourself throwing good money after bad. Building tests in a tool or framework that is unnecessarily dependent on changing technology also sets you up for unexpected future expenses.

We can develop the specialized, data-intensive, automated tests that your team doesn't have time and/or skills to build or maintain and show you cost savings in the long run. If this seemed daunting to you in the past, remember that the purpose of automation is to reduce costs while also reducing testing risks; however, a poorly planned implementation often has the opposite effect. Let SDLC Partners share our expertise in

full-lifecycle software testing with your organization and help you build a cost-effective long-term test automation approach that allows you to better use your business and technical resources toward a high-quality, quick-to-market solution.

Our success spans a diversity of client industries, technologies, and methodologies. Here are some considerations when we customize an engagement for a new client:

- We can work at your facility, in our Solution Center in downtown Pittsburgh, or a combination of the two
- We can solely develop the solution, or we can co-develop with your team
- Fixed price or T&M engagement model
- After initial build-out is complete, we can turn over to your team (and provide training on the tool), or we can continue to maintain and execute your scripts as needed
- We can embed with your team and synchronize automated test development with your iterations/sprints, or we can create our coverage independent of your development projects

Our ability to provide and adapt a flexible team in both size and skill allows you to focus on the critical components of your organization: your customers and core competencies. We'd like to introduce our practice leadership to you and your team, learn more about your testing challenges, and determine how we can help you.

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