aws marketplace

Selenium HQ

Reviews, tips, and advice from real users

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Product Recap

Selenium HQ

Selenium HQ Recap

Selenium HQ is an umbrella project that includes a number of tools and frameworks that allow for web browser automation. In particular, Selenium offers a framework for the W3C WebDriver specification, a platform- and language-neutral coding interface that works with all of the main web browsers.

Selenium is a toolset for automating web browsers that uses the best methods available to remotely control browser instances and simulate a user's interaction with the browser. It enables users to mimic typical end-user actions, such as typing text into forms, choosing options from drop-down menus, checking boxes, and clicking links in documents. Additionally, it offers a wide range of other controls, including mouse movement, arbitrary JavaScript execution, and much more.

Although Selenium HQ is generally used for front-end website testing, it is also a browser user agent library. The interfaces are universal in their use, which enables composition with other libraries to serve your purpose.

The source code for Selenium is accessible under the Apache 2.0 license. The project is made possible by volunteers who have kindly committed hundreds of hours to the development and maintenance of the code.

Selenium HQ Tools

These three main Selenium HQ tools have powerful capabilities:

- **WebDriver:** If you are just starting out with desktop or mobile website test automation, you will be using WebDriver APIs. WebDriver controls the browser and executes tests using the automation APIs that browser vendors provide. This gives the impression that a real person is using the browser. Because WebDriver's API does not need to be compiled alongside application code, it is not intrusive. As a result, you can test the same application that you push live.

- **IDE:** Develop your Selenium test cases using an IDE (integrated development environment). The most effective way to create test cases is to utilize this simple Chrome and Firefox extension. IDE uses Selenium commands that are already in use to record user activity in the browser with parameters set by the context of the element. This is an excellent approach to learning Selenium script syntax and will save you time.

- **Grid:** You can run test cases on several machines and operating systems with Selenium Grid. The local end controls how the test cases are triggered, and the remote end automatically runs the test cases after they are triggered.

Reviews from Real Users

Selenium HQ stands out among its competitors for a number of reasons. Two major ones are its driver interface and its speed. PeerSpot users take note of the advantages of these features in their reviews:

Avijit B., an automation tester at a tech services company, writes of the solution, "The driver interface is really useful. When we implement the Selenium driver interface, we can easily navigate through all of the pages and sections of an app, including performing things like clicking, putting through SendKeys, scrolling down, tagging, and all the other actions we need to test for in an application."

Another PeerSpot reviewer, a software engineer at a financial services firm, notes, "Selenium is the fastest tool compared to other competitors. It can run on any language, like Java, Python, C++, and .NET. So we can test any application on Selenium, whether it's mobile or desktop."

Valuable Features

Excerpts from real customer reviews on PeerSpot:

✔ "Selenium HQ is a widely used open source tool that makes it easier to understand and automate websites."

Sujata Sujata Ghadage
Sr Manager consultant - Digital assurance Services at adrosonic

✔ "I do recommend Selenium HQ to other organizations because we are in a business that is primarily based on B2B interface."

NarendraKumar4
DevOps Lead at Illumifin India LLP

✔ "It is stable. I have never encountered any concerning situations with Selenium HQ."

Sri Durga U
Senior Quality Engineer Data at Epsilon

✔ "What I like best about it is that it can automate everything on the front end with the help of other frameworks. The community worldwide provides support for any issues. Plus, it's open-source, which is a big advantage."

Anil Kumar Shrestha
Senior Quality Assurance Automation Engineer at KUDO

✔ "The product is quite stable."

KevinHollande
Product Manager at BEYS

✔ "The ability to customize our approach to using Selenium HQ is particularly beneficial."

KarthickSrinivasan
Automation Specialist at Freelance

✔ "Selenium is an open-source tool."

Anuj-Kataria
QA Manager at Next Solutions

What users had to say about valuable features:

"Selenium is a valuable tool for web testing, and it integrates easily with frameworks like the Gauge framework, making it easier than others. It supports different programming languages, including Java and JavaScript.."

Fatih Mehmet HARMANCI   Read full review ↗
Software Testing Services Manager at Virgosol

"The most valuable features of Selenium HQ include WebDriver and the remote framework, which is compatible with Selenium and is mostly helpful for me. Selenium HQ's compatibility with multiple browsers impacts my testing efficiency significantly, as it allows me to run tests on various browsers and generate comparative analysis reports. Selenium automates browsers easily with its web driver, and Selenium IDE facilitates end-to-end testing with its command and control flows.."

AdityaRanbhare   Read full review ↗
Project Manager at LTIMindtree

"Selenium HQ is a widely used open source tool that makes it easier to understand and automate websites. It is suitable for all functional business scenarios and can be easily incorporated into workflows. New features in Selenium HQ make object identification easier without reliance on XPath and CSS. The tool offers mouse-click actions and supports customizable and user-friendly recent libraries. Additionally, Selenium HQ supports multiple browsers via grid hosting and offers dynamic configuration setup for testing across Chrome, Edge, and Internet Explorer.."

Sujata Sujata Ghadage   Read full review ↗
Sr Manager consultant - Digital assurance Services at adrosonic

"Selenium is an open-source tool. It provides the flexibility to automate anything and everything. You can build custom libraries and integrate them with third-party libraries across the globe. It gives freedom to integrate with any other tool and build your custom solutions. It also integrates well with test management and project management tools like Jira, Manta, and Azure DevOps.."

Anuj-Kataria   Read full review ↗
QA Manager at Next Solutions

"The best features in Selenium HQ are particularly for testing. While setting up Selenium HQ in the Docker container and pushing those images into AWS, that is the actual flow. Selenium HQ handles WebDriver automation, driver management, and parallel execution in the Selenium HQ Hub. These three features are very beneficial for test automation.

"The locators, dropdowns, buttons, and everything are handled effectively by Selenium HQ. Additionally, Selenium HQ is open source, making it accessible to anyone.."

Sri Durga U   Read full review ↗
Senior Quality Engineer Data at Epsilon

"The challenges I faced while integrating Selenium HQ into my existing systems relate to historical data, which requires going back six years. I have to traverse if there were any challenges because I am sure if there were any, they must have been documented in our ALM documents.

"The multi-browser support of Selenium HQ impacts my testing process primarily since it is being used in Edge and Chrome browsers. It all depends on our customers. I haven't heard of any challenges with other browsers such as Opera or Mozilla Firefox, as these two browsers are what we primarily use.

"When we were doing these tests manually, it took several hours of effort, and those hours, when counted on the basis of person days, used to be maybe six or seven months of effort, which we can now do every day by running the pipeline. This has definitely saved a lot of money for us.."

NarendraKumar4   Read full review ↗
DevOps Lead at Illumifin India LLP

Other Solutions Considered

"We used Windrunner and HP Quality Center long ago. Then we switched to Selenium because it's easy to understand, code, and install. It is also mostly free, making it very helpful.."

AdityaRanbhare   Read full review [↗]
Project Manager at LTIMindtree

"We went with Selenium for several reasons; it's open source and free, they provide a lot of support, and we can use Java technology which Selenium has available. Other tools generally don't provide perpetual licenses. ."

Abdullah Bin Masood Siddiqui   Read full review [↗]
Quality Assurance Architect at TimeXperts Pvt Ltd

"Before starting to use Selenium HQ, we used QTP and Coded UI for automation. We switched to Selenium HQ as it started evolving due to its open source nature and increasing capabilities.."

Sujata Sujata Ghadage   Read full review [↗]
Sr Manager consultant - Digital assurance Services at adrosonic

"We are currently evaluating functional testing tools, both manual and automation testing.

We are looking for codeless automation with support for codeless automation.

In my evaluations, I have seen that some are tools are lacking.."

Manasa KN   Read full review ↗
Project Manager at Nalashaa

"I was using SmartBear in my previous organization, but not now.

"We did try the SoapUI from SmartBear, but there were limitations that we couldn't manage at that specific point in time, which is why we moved over to Selenium HQ.."

NarendraKumar4   Read full review ↗
DevOps Lead at Illumifin India LLP

"We evaluated other options.

For mobile scraping, non-mobile scraping, or to test anything mobile there are more applications available on the internet, like Appium for Android, which is like Selenium for browsers, or TestComplete for iOS drivers.

However, Selenium is particularly the best for browsers or PC, operating systems.."

VinodKumar9   Read full review ↗
Lead Developer at aimleap

ROI

Real user quotes about their ROI:

"The primary advantage is that things get automated, saving a lot of money and time. Exact figures are not available, but the time savings are significant.."

KarthickSrinivasan   Read full review ↗
Automation Specialist at Freelance

"No license necessary, but to get the best results it requires a Java Software Developer with WebDev-background and a tester attitude. Tests can be automated fairly quickly and across the main browsers therefore you can get results in less than a week.."

Verified user   Read full review ↗
Software Development Engineer in Test (SDET) at KUKA Robotics

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"It is an open source tool but price in terms of time it is totally worth it. It saves us lot of time and cost once implemented. The cross browser testing functionality helped us to find issues quicker in specific browsers.."

Verified user

Read full review ↗

QA Manager at a retailer with 501-1,000 employees

"We have a great savings after building the initial framework. We run 600 test cases in parallel in virtual desktops in 16hours which takes 52 hours to execute manually. This execution takes place once in a month on an average.."

Verified user

Read full review ↗

IT Principal Analyst at a media company with 501-1,000 employees

Use Case

"I primarily use Selenium HQ as an open-source tool to test my applications. I create test scripts using Java as the programming language, then run those test scripts on my machines with the application in the background. We run our tests on multiple browsers and generate reports to compare application performance on different browsers.."

AdityaRanbhare
Project Manager at LTIMindtree

Read full review ↗

"Selenium's major use cases are UI and web automation, primarily for the front end of a website. We also use it for API automation using other libraries called RestAssured. The programming language can be Java, C Sharp, or anything, but we are mostly using Java. For mobile automation, we use Selenium with APM.."

Anuj-Kataria
QA Manager at Next Solutions

Read full review ↗

"Our team primarily uses Selenium for web testing. It is useful for functional and regression testing. Although I am now managing a team and do not use any tools myself, my team works with several tools, including Selenium, Appium, KrayMaster, the Google Search tool, Postman, and Katalon Studio.."

Fatih Mehmet HARMANCI
Software Testing Services Manager at Virgosol

Read full review ↗

"For our project perspective, we have selected Selenium HQ because it needs to be UI based testing and multiple browser testing. For the UI web browser, we normally use Selenium HQ because wait conditions and these features are very good in the dropdown and handling the grids and tables. These features of Selenium HQ are very beneficial when compared to other tools. As we are an advertisement firm, we have some grids in our application. To manage those grids and shadowing of the applications, these tasks can be accomplished with Selenium HQ. Because of these capabilities, we selected Selenium HQ, which we determined was a suitable application.."

Sri Durga U
Senior Quality Engineer Data at Epsilon

Read full review ↗

"The primary use case for Selenium HQ is for automation in testing processes. We are currently using Selenium HQ for synthetic data generation, extended with third-party tools like LambdaTest, and integrated with Azure DevOps. This setup is part of our test plan and pipeline integration.."

Sujata Sujata Ghadage   Read full review ↗
Sr Manager consultant - Digital assurance Services at adrosonic

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"I use Selenium HQ in my software testing workflows with applications on Microsoft Technologies, as well as Java-based applications. When our pipeline runs, I integrate these Selenium automated test packs as part of the pipeline.

"Once the software packages are deployed on a designated server, I launch the test scripts using Selenium HQ. All the capabilities are added on the dedicated server, and then it executes, and then we get the results, so it's all an automated process.."

NarendraKumar4   Read full review ↗
DevOps Lead at Illumifin India LLP

Setup

The setup process involves configuring and preparing the product or service for use, which may include tasks such as installation, account creation, initial configuration, and troubleshooting any issues that may arise. Below you can find real user quotes about the setup process.

"Setting up Selenium HQ is straightforward. Before I joined, it was already deployed in our organization. Deploying new applications takes less than a day.."

KarthickSrinivasan   Read full review ↗
Automation Specialist at Freelance

"The initial setup for Selenium HQ was straightforward for me due to my extensive experience. However, the lack of automatic updates and the need for manually keeping browser drivers like ChromeDriver updated is an area for potential improvement.."

Sujata Sujata Ghadage   Read full review ↗
Sr Manager consultant - Digital assurance Services at adrosonic

"The initial setup is rated eight to nine on ease, as it's simple to install and use. If coding is done in a proper methodology, object identification becomes easier. The whole setup on a machine barely takes ten minutes.."

AdityaRanbhare
Project Manager at LTIMindtree

Read full review ↗

"It's an effortless process to setup Selenium HQ. As part of the installation process, the dependencies need to be downloaded and pasted into the XML file for auto-execution. The installation of the solution can be completed in a few seconds. ."

JatinQa
Software Engineer at Bits In Glass US, Inc.

Read full review ↗

"The setup experience is much easier these days. You no longer need to manually download dependent files like JAR files. You can easily go to the Maven repository and get all of the dependencies. Setup has become more straightforward, and I would rate it around seven out of ten.."

Anuj-Kataria
QA Manager at Next Solutions

Read full review ↗

"The initial setup for mobile app testing, especially when installing simulators, is complicated. Configuring simulators for Android and iOS platforms is time-consuming due to trial and error. Setting it up for mobile automation takes approximately one to two weeks. However, for web automation, the process is comparatively straightforward. It takes less than an hour to complete.

I rate the process a seven out of ten.."

Verified user

Application Developer & Senior Analyst at a tech services company with 1,001-5,000 employees

Read full review ↗

Customer Service and Support

"I have not had the need to escalate questions to Selenium HQ tech support recently, as open community support is widely available and has been sufficient for our needs.."

Sujata Sujata Ghadage
Sr Manager consultant - Digital assurance Services at adrosonic

Read full review ↗

"There is enough help available online. Simple questions and repetitive tasks have a lot of available resources. However, finding help for customized scenarios can be challenging.."

Parag Joshi
Automation Leader at a energy/utilities company with 1-10 employees

Read full review ↗

"I have not communicated directly with Selenium HQ's technical support. I use the available documentation online and third-party tools like Stack Overflow and Yellow Lab.."

KarthickSrinivasan
Automation Specialist at Freelance

Read full review ↗

"There is comprehensive documentation available online for Selenium HQ. Additionally, internet communities respond quickly to queries, usually within one or two hours, providing good support. Kubernetes services are also an available support resource.."

AdityaRanbhare   Read full review ↗
Project Manager at LTIMindtree

"There is no need to contact the technical support team directly as there are many resources available online. Many people share solutions to common problems, so issues can often be resolved independently.."

Fatih Mehmet HARMANCI   Read full review ↗
Software Testing Services Manager at Virgosol

"We haven't had any requirement for technical support because I have people who are technically equipped. The marketplace community and forums are what we browse and look after, and we have found solutions whenever we tried to find anything, so we didn't reach out to the technical support team yet.."

NarendraKumar4   Read full review ↗
DevOps Lead at Illumifin India LLP

Other Advice

"Based on my experience, I would recommend Selenium HQ to others, especially for projects where budget constraints exist and web-based applications require multi-browser support. I rate Selenium HQ between eight and nine out of ten.."

Sujata Sujata Ghadage
Sr Manager consultant - Digital assurance Services at adrosonic

Read full review ↗

"Selenium is easy to use, with a straightforward setup and many reusable features. It is advisable for new users to explore its features and leverage its form and page update model capabilities. For example, maintenance is simplified because changes made to a base function automatically reflect on all pages.."

AdityaRanbhare
Project Manager at LTIMindtree

Read full review ↗

"For users starting with automation, I recommend learning Selenium with any language they're comfortable with, such as Java, C Sharp, Python, JavaScript, or Ruby on Rails. It sets up a foundation for any tester wanting to explore automation testing.

I'd rate the solution eight out of ten.."

Anuj-Kataria   Read full review ↗
QA Manager at Next Solutions

"I mentioned that solving the issue of adapting to changing locators would significantly improve Selenium, potentially increasing its rating. Additionally, one can utilize web portals and AI to assist with problems.

I would rate it a seven out of ten.."

Fatih Mehmet HARMANCI   Read full review ↗
Software Testing Services Manager at Virgosol

"I am not really working with this product right now.

"AI technology is not something which I have initiated yet, but I think there will be an option; I haven't explored that, but this question would require me to go back to my QA team.

"I do recommend Selenium HQ to other organizations because we are in a business that is primarily based on B2B interface. I recommend it to our customers and partner network, and if someone asks for any automation or performance load test tool, Selenium HQ is what we recommend. There is also a free version, Selenium WebDriver, so people can just go and start their automation journey using these Selenium WebDrivers.

"I would give the overall final rating for Selenium HQ a nine.."

NarendraKumar4
DevOps Lead at Illumifin India LLP

Read full review [↗]

"I currently use Jenkins and Maven for framework development. The flow involves creating the project with Maven, and once test case execution is completed locally, we push the jobs to Jenkins. It automatically triggers the executions in Jenkins so everyone in the team can see the execution report and status.

"I would rate the solution at 60% out of 100. Previously, troubleshooting was difficult. When test cases fail for various reasons, logs cannot explain everything, but logging is very important to get the failure results. For logging, Amazon Q will suggest where the log code needs to be included. In Jenkins, when the code is executed and results are viewed, we can easily identify where the error occurred and troubleshoot efficiently, reducing time by two to three hours.

"I can recommend many packages with Selenium HQ. Wait conditions and numerous features are available to use. I recommend most of them to individuals. My overall rating for Selenium HQ is 7 out of 10.."
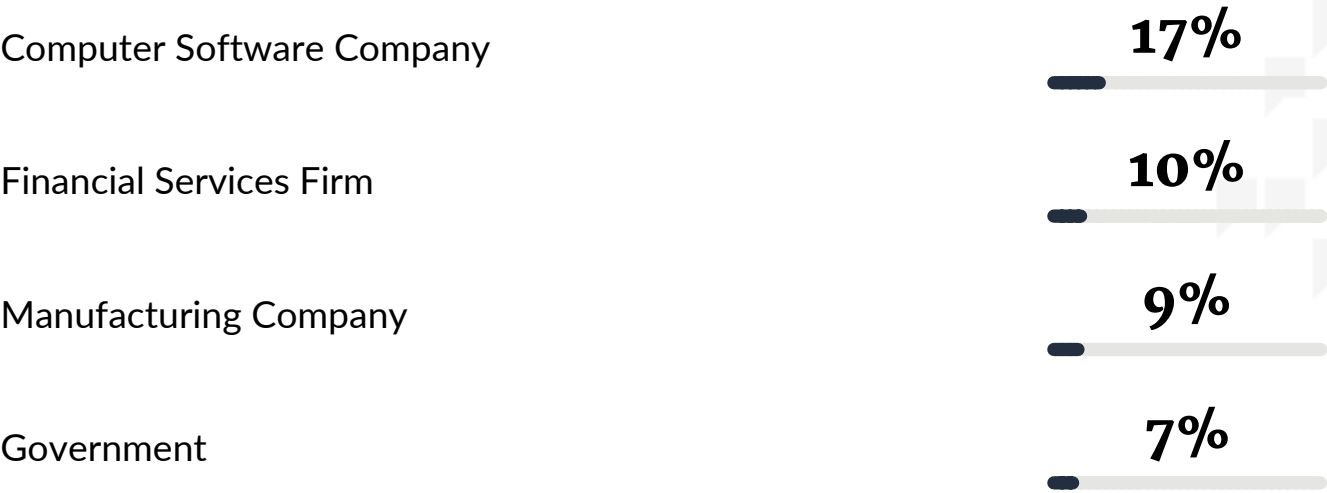
Sri Durga U
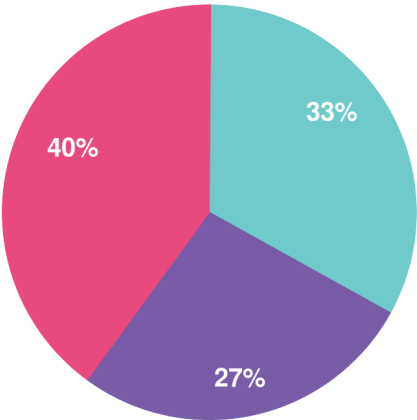Senior Quality Engineer Data at Epsilon

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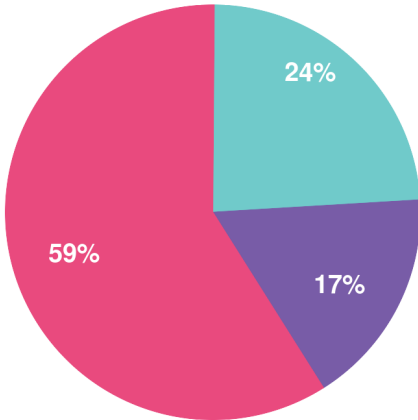
Top Industries
by visitors reading reviews

Computer Software Company
17%

Financial Services Firm
10%

Manufacturing Company
9%

Government
7%

Company Size
by reviewers

33%
40%
27%

by visitors reading reviews

24%
59%
17%

● Large Enterprise ● Midsize Enterprise ● Small Business

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244 5th Avenue, Suite R-230 • New York, NY 10001

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+1 646.328.1944