*Test Cafe vs Selenium*

* **TestCafe:**A node.js end-to-end automation tool which is used to test web applications.
* This automation tool does not require any external browser plugins to run tests on different popular modern browsers.
* Testcafe can carry over multiple tasks including starting of browsers, running tests on them, gathering all the test results and finally generating the test reports.
* **Selenium:**Selenium is an open-source automation tool used widely in automating a test for web applications.
* With a rich user interface and external plugins, creating and running tests on modern browsers have become simpler for testers.
* It supports different types of tests including smoke testing, regression testing, sanity testing or functional testing etc.

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| **Sr. No.** | **Features** | **Selenium** | **TestCafe** |
| **1.** | Flexible Licensing | It is Open-Source and is available freely. | available as paid and unpaid versions |
| **2.** | Plugins | It has multiple plugins which may or may not be available freely. Plugins are required in selenium with all associated problems. | It eliminates plugins and user can easily test apps against any HTML browser, desktop or mobile. |
| **3.** | Concise and easy to learn API | It can be easy for users who already have an understanding of programming language. Most of the users who use Selenium are professionals. | Its API is both concise and easy to use. The user can spend less time memorizing and more time testing. |
| **4.** | 100% web-based test environment | Its main purpose is to test web-based application and it is based on a web test environment. | It is also based on web testing environment, everything from recording to execution and analysis is web-based. |
| **5.** | Community | It has a rich community available 24/7 that can provide any solution to any problem. | As it is a new tool, it does not have any large community which can help users with solutions. |

* **Waits in Automation Tool:**When dealing with waiting, Using Selenium can be difficult. It involves an implicit wait, explicit wait and fluent wait which can be a little complex to understand it first and get it to work. Thus, dealing with the wait in Selenium is difficult as compared to TestCafe. In TestCafe, it has only implicit wait build into the async calls. It makes it easier for the tester to deal with the wait in automation tool. So, TestCafe is better when dealing with the wait.
* **Language Selection:**Selenium supports various languages such as Ruby, PHP, Python. Mostly, testers use Python which makes it the perfect platform to test web applications. It can be beneficial if you are testing the application in the same language. As TestCafe uses JavaScript, it can be sometimes typical for the testers who are not much familiar with JavaScript. Thus, Selenium is a better option if testers want to use multiple languages across multiple browsers.

**Pros of TestCafe:** Cross-browser testing, in-built waits, open source, rapid speed, End to End testing.

**Cons of TestCafe:** No longer free

**Pros of Selenium:** Rich community, programming language choice, Functional testing,

**Cons of Selenium:** Flaky tests, Slow