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| **Software Testing** | |
| **Opdracht 1 - Vooronderzoek testomgeving** | |

**Test Omgeving:** WebdriverIO

**Website**: <https://webdriver.io/>

**Omschrijving:**

WebdriverIO is an end-to-end browser and automation test framework based in Node.js. Adding helper functions in WebDriverIO is really simple and it can run both on WebDriver protocol and Chrome Devtools protocol, making it efficient for both Selenium Webdriver based cross browser testing or Chromium based automation.

**Key pointers:**

* A modern front-end automation JS tool that uses the Selenium under the hood
* Program in JavaScript
* Contains extra features not found in the straight Selenium version
* Used by major companies around the world such Google, Netflix, Microsoft, Mozilla and many more...
* Support for both web applications and native mobile applications
* Supports for cross browsers
* Simple and concise syntax
* Beginner-friendly
* Huge community support
* Actively maintained
* Free to use
* Integrated test runner
* Support for BDD & TDD

**Features of WebdriverIO**

* **Easy to Set up:** WebdriverIO follows a simple setup process. Just install node packages using npm and start testing
* **Customization:** WebdriverIO is highly extendable so users can customize the framework as they need
* **Cross Browser Testing:** WebdriverIO supports multiple browsers such as Chrome, Edge, Firefox, Internet Explorer, and Safari.
* **Native Mobile Application Testing:** WebdriverIO framework can be extended to test native mobile applications.
* **Cross-Origin Support:** WebdriverIO doesn’t restrict origins. Origin doesn’t matter much as testers can automate them unconditionally.
* **Multiple Tab/Window Support:** WebdriverIO Supports switching to and from multiple windows and tabs.
* **iFrame Support:** WebdriverIO doesn’t restrict in terms of iFrame. Testers can automate iframe-based scenarios using simple web driver commands.
* **Reporters:**WebdriverIO supports more than dozens of reporters.
* **Testing Framework/Assertions:** WebdriverIO supports Mocha, Jasmine, and [Cucumber test frameworks](https://www.browserstack.com/guide/learn-about-cucumber-testing-tool).
* **Parallel Testing:** Testers can configure WebdriverIO to launch multiple instances and execute tests parallelly.
* **Screenshots:** WebdriverIO can be configured to take screenshots of tests.
* **Video:** Though WebdriverIO doesn’t support video recording out of the box it can be configured to do so.
* **Pipeline Integration:** WebdriverIO tests can be integrated into CI Systems like Jenkins, Azure, etc.
* **Selectors:** It supports various types of selectors including CSS and Xpath.
* **Page Object Pattern:** WebdriverIO Framework can be easily configured to [Page Object Model](https://www.browserstack.com/guide/page-object-model-in-selenium).
* **File Upload and Download:** WebdriverIO supports [File Upload and Download features](https://www.browserstack.com/guide/file-upload-in-selenium).

**Mogelijke courses/tutorials:**

* (course) [Automated Software Testing with WebdriverIO](https://www.udemy.com/course/automated-software-testing-with-webdriverio/)
* (tutorial) [WebDriverIO Tutorial: Run Your First Automation Script](https://www.lambdatest.com/blog/webdriverio-tutorial-run-your-first-automation-script/)
* (tutorial) [Getting started with Test Automation using Selenium and Appium](https://www.browserstack.com/guide/webdriverio-tutorial-for-selenium-automation)
* (tutorial) [How to write Selenium tests in Node.js with WebdriverIO](https://buddy.works/guides/how-write-selenium-tests-in-nodejs-with-webdriver)
* (course) [A premium step-by-step guide to understanding Web App Testing](https://learn.webdriver.io/)
* (course) [WebdriverIO - Selenium Webdriver using Node.js & More!](https://www.udemy.com/course/automation-testing-javascript-webdriverio-selenium-more/)
* **(course)** [**WebdriverIO - Complete Beginner Course 2021**](https://www.udemy.com/course/webdriverio-complete-beginner-course/?couponCode=AUTOMATIONBRO-CODE)

🡪 **gekozen start cursus**

(course) [UI Automation with WebdriverIO](https://testautomationu.applitools.com/webdriverio-tutorial/)

**Extra videos:**

* [Get Started With WebdriverIO](https://www.youtube.com/watch?v=NJhZbY8UeFw)
* [Web App Testing with WebdriverIO - Crash Course](https://www.youtube.com/watch?v=RJ2kwpzX8so)
* [WebdriverIO Workshop - The Basics](https://www.youtube.com/watch?v=YITHDqoZYX0)