Selenium Web Driver with JavaScript – Step by step

https://www.youtube.com/watch?v=BQ-9e13kJ58&list=PLZMWkkQEwOPl0udc9Dap2NbEAkwkdOTV3

**Introduction**

JavaScript – most popular programming language especially for web development and for test automation; used by number of testing frameworks, libraries, and tools such as cypress, puppeteer, playwright, selenium web driver

Selenium Web Driver – one of the most widely used tools for automating web-based apps; it provides us with a toolkit we can use to interact with the web app in much the same way a user would

**Set Up**

**Prerequisites**

NodeJS – a JavaScript runtime environment which allows us to execute JavaScript code outside of the browser. Download it from NodeJS site and install it. To check if you already have it enter the following command in your terminal and see which version you have installed:

Text

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NPM – node package manager is a mechanism for downloading and installing third-party packages into your project. It is usually downloaded along with NodeJS. To confirm enter the following command:  


**Setting Up the project**

1. Create a root folder (i.e. seleniumDemo) for your project and navigate to that folder

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1. Enter npm init command to initiate new NPM project. This is going to create package.json but first we will need to enter certain informationText

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2. We can enter through each of these steps which will just use the default value specified in the brackets  
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   And the package.json will look like this:  
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   Enter to confirm.  
   Once we install selenium web driver we will return to this file to see how it changed.
3. When package.json is set up we need to install packages into our project by using NPM mechanism. Navigating to npmjs.com we can search for node packages including selenium web driver. There we can also find command for installing it:  
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   By revisiting package.json file we can see it has a new dependency- selenium web driver and it shows it has been installed into our project:  
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4. Finally, we need to set up browser drivers which are used go launch a browser instance in the test. To download the driver, we can navigate back to npmjs.com site and on the selenium web-driver search we can see the list of all relevant drivers. Click on the link of a needed driver and locate the driver for your operating system. Example for Firefox gecko driver:

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Once downloaded you can open and copy the driver on a desired location. After that you can update it as system environment variable.