06/04/2022, 11:33 QA Community

COURSEWARE

Pro	ofessional Skills	
Agile Fundamentals		
Jira	ì	
Git		
Da	tabases Introduction	
Java Beginner		
Maven		
Testing (Foundation)		
Java Intermediate		
HTML		
CS:	S	
Javascript Spring Boot		
0	What is Selenium?	
0	Selenium IDE	
0	Webdrivers	
0	Opening A Web Browser With Selenium	
0	Browser manipulation	
0	Interacting With Elements In Selenium	
0	The POM Design Pattern	
0	Actions	
0	Waits	
Sor	narqube	
Advanced Testing (Theory)		
Cucumber		
MongoDB		
Express		
NodeJS		
Rea	act	

Webdrivers

Contents

- Overview
- What is a WebDriver?
- <u>Downloading a WebDriver implementation</u>
- <u>Tutorial</u>
- Exercises

Overview

Since Selenium is a Web driver-based testing medium, we will need to download something that allows us to spin up the Web pages we want to test.

A Web driver is a piece of software which will facilitate communication between your code and a Web browser.

What is a WebDriver?

A **WebDriver** in Selenium allows us to control a browser programmatically via code. WebDriver is a *remote-control interface* that has an <u>official W3C</u> Recommendation, this means the W3C aim to standardise the proposed recommended specification for WebDrivers. The WebDriver interface enables introspection (examination) and control of **user agents** - any software acting in place of the user that "retrieves, renders and facilitates end user interaction with Web content, or whose user interface is implemented using Web technologies", (Definition of User Agent - WAI UA Wiki, 2011). Put simply, a *user agent* is the software that is communicating over the web for you, such as a browser for example.

To view a User-Agent, try the curl -v/curl --verbose command:

```
curl -v https://www.google.com

GET / HTTP/1.1
Host: www.google.com
User-Agent: curl/7.55.1
Accept: */*
```

- The curl tool is pre-installed on Windows builds 17063+
- Linux distributions will vary, it can be installed on Linux with sudo apt install curl

The user-agent above is the curl software in this example

A typical request will contain a User-Agent HTTP header with a string of text representing the user agent (software) that is sending the request, this can be seen above.

User-Agent headers can also contain a lot more information:

```
Mozilla/5.0 (Windows NT 10.0: Win64; x64) AppleWebKit/537.36 (HTML, like Gecko) Chrome/91.0.4472.164 Safari/537.36
```

• This is the Chrome Version 91 User-Agent HTTP header value for instance

Downloading a WebDriver implementation

Express-Testing
Networking
Security
Cloud Fundamentals
AWS Foundations
AWS Intermediate
Linux
DevOps
Jenkins Introduction
Jenkins Introduction Jenkins Pipeline

Below is a list of supported browsers with links to their respective driver pages, be sure to download the correct driver version for your browser.

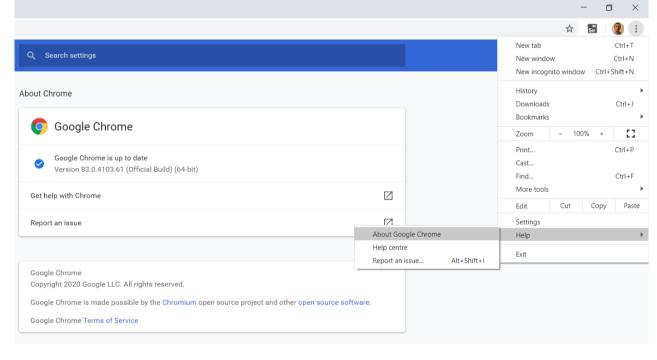
Browser	Download Link
Chrome/Chromium	<u>Download</u>
Firefox	<u>Download</u>
Edge	<u>Download</u>
Internet Explorer	<u>Download</u>
Opera	Download
Safari	Built-in

Tutorial

For this tutorial we will be using Chrome. If you don't already have Chrome installed you can download it <u>here</u>.

Once Chrome is downloaded. click the options button in the top right hand corner and then select **Help**.

In help select **About Google Chrome**. This will bring you to a Web page which will tell you which version of Chrome you are currently using:



Ensure that you download a compatible Web driver for the Chrome software on our computer.

Exercises

There are no exercises for this module.