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Test automation using selenium webdriver with java pdf download

While testing Selena, you may have encountered a requirement when you need to either download or download a file to Selenium. Almost every web application over the Internet can have a feature that allows users to download or download a file. Whether it's a rich media platform such as YouTube, which allows you to download videos, an online manufacturer of photo collages or an e-commerce web app that lets you upload images. Even writing assistants such as Grammarly and plagiarism checker, such as Ketext, offer a file download feature. Similarly, these websites offer download functionality, too. YouTube allows offline downloads, and e-commerce platforms such as Amazon will allow you to download your orders' invoices. I mean, if you're an automation tester that has a regular set around testing Selena, there's a good chance for you to face a requirement where you may have to check the feature around downloading or downloading files in the Selenium WebDriver. In selena testing, it's important to know how to download files to Selenium WebDriver or upload files to Selenium WebDriver using selenium automation testing. In this Selenium Java tutorial, I'm going to highlight different ways in which you can download or download files to Selenium WebDriver. What is a remote web river? Remote WebDriver implements each JSONWireProtocol command and users can perform locally and remotely on a remote server. All browser drivers are children's classes RemoteWebDriver and RemoteWebDriver is a type of class and implements all the WebDriver interface. In this way, RemoteWebDriver has the ability to test Selena either on local infrastructure or on the Selenium Grid cloud network, such as LambdaTest. Let's see if we're using the Selenium WebDriver file download. Suppose you are developing automation scenarios for testing with Selenium and Java through an online clinical web platform where patients can order a video consultation with a doctor. This website provides an opportunity to download a test report in which the doctor can review and discuss test reports. In this case, you should use file download concepts to download reports to their clinical web application. Note: If you've already implemented a file download script in your local script and want to move to a remote cloud, you just need to change WebDriver to RemoteWebDriver and use driver.setFileDetector (new LocalFileDetector); Method. Download the files to Selenium With Java If you are familiar with Selenium 1, the available web server and attachFile team used download files. And in Selenium 2 and going forward, it's like just sendkeys () command and you did download the file. If you want to download locally, you can directly use SendKey and give way to the code. However, the same thing won't work remotely as it did locally. Level. When downloading files to Selenium Remote WebDriver, you must use a method called setFileDetector. This way, Remote WebDriver recognizes when you download files to test Selena on a local machine or remote machine. With this great Selenium 2 feature, you don't have to write a separate code to test Selena to download files on a local or remote web application. We have the following options for downloading files in the remote Selenium WebDriver: SendKeys Robot Class AutoIT tool Jacob API Download files in Selenium WebDriver Using Sendkeys () It is always preferable to first use the built-in features provided by Selenium Java to download the file to the remote Selenium WebDriver. This is the SendKeys method. This is directly related to input tags that have an attribute as type="file". Here's an example of how to download files to Selenium and Java with Sendkeys (): Upload Files In Selenium WebDriver Using Robot Class The Robot Robot is an AWT Java class package. It is also a very good option to opt for the Upload file in Selen. This will help automate a Windows-based alert or pop-up, print a pop-up or home screen. It doesn't depend on the operating system. Here's an example of downloading a file with the Robot class: Upload File In Selenium WebDriver Using AutoIT is an external automation tool and is not provided by the Selenium community. AutoIT was originally used to automate Windows-related pop-ups, but the downside of using AutoIT is that it creates a .exe file and only works on Windows. It is not advisable to use AutoIT to download files. However, if you still want to download a file to Selenium WebDriver with AutoIT, here's an example for you: Upload File with Jacob API Jacob provides API technology to download files using Selenium. Again, you'll need a .dll file to download the file to Selenium WebDriver using the Jacob API. This means that it won't work for the Mac or Linux operating system. If you only want to focus on Windows operating systems, here's an example of downloading a file using jabob API. Downloading files in Selenium WebDriver locally and in the cloud now. Let me demonstrate how to download files in the remote Selenium WebDriver over both, on local infrastructure, and through cloud-based Selenium Grid such as LambdaTest. As part of this Selenium Java tutorial, I wanted to focus on using SendKeys () method for downloading files to selenium and Java. The scenario will be the first, we'll start by demonstrating to download files using local infrastructure machines. Later, we'll have a demonstration of the same Selena testing scenario over Selena's cloud grid. Download the files to Selenium above the local infrastructure below is the Selenium Java testing scenario, which demonstrates how to download files in WebDriver over a local machine. That's it! However, that's not all you need to know. It's important to note that when we talk about practical scenarios and real-time scenarios, the requirement to perform automated browser testing can include hundreds of browsers and OS combinations for testing. Don't forget the desired features are bound to go longer as your web application will scale over time. In such scenarios, maintaining the infrastructure of seleniums at home is both time-consuming and expensive. You will need to hire more machines and resources on board. If you can't afford a device lab provider such as Amazon AWS, that can be costly for many businesses. So what can you do? Download files into the selenium WebDriver over online selenium grids now, the same scenario can be launched on the online selenium grid. We will be working the same scenario on LambdaTest which is a cross-browser testing tool offering online Selenium Grid. You should notice here that we have changed only two points, as shown below. And you're done!!! Here's the full selenium Java testing script for downloading the file to Selenium WebDriver through the online Selenium Grid. Download the files in Selenium WebDriver Now that you are familiar with downloading files to Selenium WebDriver, you may think that downloading a file from Selenium WebDriver will be just as easy! Well, think again! You have a web application and you'd like to see the download file functionality work seamlessly across browsers so that your customers don't worry about a user interface error. However, each web browser offers a different user interface when downloading a file. Let's take a look at different screenshots of different browsers running on macOS. Similarly, these screenshots will be different for different operating systems, and versions of the operating system too. So when you download a file through Google Chrome on Windows 7 it can give below the screen. As you can see, here the file was directly downloaded when the timer got up to 0 seconds, without any user confirmation. Thus, each browser will have a different download mechanism based on the operating system over which it is used. Browser configuration using a profile, other browser, different operating systems plays a vital role in testing Selenium with Java to download the file. To automatically download a file using Selenium with Java, we have the following options: AutoIT Robot Class Browser Profile Download file in Selenium WebDriver Using AutoIT Already we discussed the autoIT tool. The same tool is used to upload files to selenium. Again, the download window changes according to browsers. Therefore, users should all scenarios to automate the pop-up download. Here's an example of the AutoIT scenario: Save this code and create a .exe file and follow it in Java with Runtime.getRuntime (.exec.). Again, it is not recommended to use it as a Windows and its external tool. Download the file to Selenium WebDriver using a class robot You can run Selena's testing scenario to download files using Selena from Java through the robot class. Note: AutoIT and Robot Class code can change based on the browser-specific profile set as well as where you want to save. In addition, the most important is the cursor focus. If the pop-up download is out of focus, then basically your code won't work. Download the file in Selenium WebDriver Using browser profile settings, using browser profile settings, you can download files in Selenium WebDriver without interacting with the download window pop-up. You need to cheat your browser profile. Here I gave an example for the Google Chrome browser and the Mozilla Firefox browser. Add this code to the Selenium Java testing kit. Google Chrome Mozilla Firefox File Download in Selenium WebDriver As we have done the practical implementation of file downloads in Selenium WebDriver, we will now practice downloading files to Selenium WebDriver on the local and cloud-based Selenium Grid. I'll demonstrate how to download the file by setting up my browser profile. Download files using selenium from Java with a browser profile set-up note: Working on a local machine to download files is easy to handle, but on a remote machine, it works based on the permission you've been granted to access remote WebDrivers. Download the Sample file for the online selenium network with browser profile settings similar to download, the only thing we need to set up in the selenium Java testing script will be the file detector and hub URL. Below is a screenshot of automation logs that shows that the file is successfully downloaded. Wrapping! Working on Selena's download file feature is very simple if you understand the difference between a remote WebDriver and a WebDriver interface. Selenium allows you to work to download the file function on both the local machine and the remote machine. With WebDriver, you can download the file directly locally and with minor changes to the creation of the object, and your script will also work on a remote server. Similarly, downloading a file using a third-party tool will eventually have a flaky automation test. Considering practical examples for both and detailed explanations will give you a deeper understanding of this article. 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