CS570 – Software Testing

**HOP08B – Selenium WebDriver – Uploading & Downloading Files**

11/22/2020 Developed by Kim Nguyen

Center for Information Assurance (CIAE) @City University of Seattle (CityU)



**Caution**

* If you already finished this module through any CityU School of Technology & Computing (STC) courses, just skim this module and skip it.
* Some version numbers may not match with the newly released ones. If so, stay with the most recent ones.
* This tutorial targets Windows OS and Mac users.
* We cannot explain every step. This cookbook always needs your own creative judgement. Try to solve the problem on your own, after a few tries, if you cannot solve the issue, contact TA for help.

**Learning Outcomes**

* Deeper understanding of Selenium WebDriver.
* Continue performing web app testing using script, specifically able to:
  + Handling different alert boxes and popup windows
  + Send data to alert boxes

**Resources**

* Javapoint.come | Selenium WebDriver - <https://www.javatpoint.com/selenium-webdriver>
* Guru-99 | Selenium tutorial - <https://www.guru99.com/selenium-tutorial.html>

In this week’s HOP, we will learn how to upload and download files using Selenium

1. Move startUsingSeleniumWebDriver project we worked on last week to Module 8 folder.
2. In VSCode, open startUsingSeleniumWebDriver folder under the Hands-on Practice folder, the path should be similar to:

CS570-hop-Hands-on-practice/Module8/startUsingSeleniumWebDriver

**Uploading Files**

1. Open this URL, let’s investigate the website before we write our script:

<https://testpages.herokuapp.com/styled/file-upload-test.html>

Graphical user interface, text, application

Description automatically generated

1. Try to upload any file and see the outcomes.
2. Under webdriver folder, create a new file called “UploadFiles.java”

A picture containing text

Description automatically generated

1. Type the following into your UploadFiles.java:

Text

Description automatically generated

Let’s upload the CityuWebsite.side we downloaded from Selenium IDE in HOP03.

**!!! NOTE: Replace the path in line 16 with your actual path, where you store the CityuWebsite.side file. !!!**

1. Run the test to see result, using the following command:

mvn test -Dtest=UploadFiles.java

(Make sure you are in the right path when running the command. You should be in the startUsingSeleniumWebDriver folder path)

You should see the end result similar to the following:

Graphical user interface, text, application, chat or text message

Description automatically generated

**Challenge: The last page we landed after executing our code is as the screenshot above. Add more to your code so that after seeing the above result, the “Upload Another” button is clicked, which then lead us back to the Uploading Page. Expected result similar as following: (notice that our previous actions are still showing on the screen)**

Graphical user interface, text, application

Description automatically generated

**Downloading Files**

1. Open this URL, let’s investigate the website before we write our script:

<https://testpages.herokuapp.com/styled/download/download.html>

Graphical user interface, text, application

Description automatically generated

Experiment the page to see what each option does.

**Download Files using Wget**

* WebDriver cannot automate downloading of files on its own.
* The easiest way to download files using WebDriver is to use Wget.
* Wget is a small and easy-to-use command-line program used to automate downloads. Basically, we will access Wget from our WebDriver script to perform the download process.

*If you have not installed Wget, locate the “HOP08A - Installing Wget” document under the same “Module 8” folder. Once done, resume this tutorial.*

1. Under the same webdriver folder, create a new file and name it DownloadFiles.java A picture containing timeline

   Description automatically generated

Our target is to download from the “Direct Link Download” button:

Graphical user interface, text, application, chat or text message

Description automatically generated

Let’s write the code! Type the following into DownloadFiles.java

Text

Description automatically generated

1. Run the test to see result, using the following command:

mvn test -Dtest=DownloadFiles.java

After the test has completed executing, you should see the result:

Text

Description automatically generated

And a file named textfile.txt downloaded to the current working directory(startUsingSeleniumWebDriver)

Graphical user interface, text, application

Description automatically generated

No Challenge for this section ☺

**Submit your work:**

In VSCode terminal, Type the following command:

* git add . (to copy all changes you have made)
* git commit -m “Submission for Module 8 – Your Name” (To add a message to your submission)
* git push origin master (to upload your work to Github)