# Playwright for Python Lab

Playwright is a platform that allows end-to-end testing of web applications in various languages and on various browsers. Here, we are going to explore how to use Playwright.

## Getting Started

As with most of the previous labs, we’re going to need to begin with an install. Here, we’re going to install the Pytest plugin (please note – you must also have Pytest installed prior to this lab)

1. Open command prompt
2. Install the plugin:



1. Install the required browsers:



Now, we can move onto creating tests.

## Validating Title

Playwright is very similar to Selenium, in that it is a tool that can automate web application testing. Our tests here will be very similar to the Selenium tests.

1. Open your IDE of choice and create a new Python file. Let’s name it ‘test\_application.py’

A screenshot of a computer program

Description automatically generated

1. Import your dependencies:

A screen shot of a computer

Description automatically generated

1. Navigate to a webpage:



1. Create a function to house your title validation:



1. Launch the browser using a ‘with’ block:



1. Open a new page and navigate to the application:

A black background with white text

Description automatically generated

1. Capture the expected title from the user:



1. Capture the actual page’s title:



1. Compare the titles:



1. Close the browser:



Finally, open command prompt and run the Pytest using the command, ‘pytest test\_application.py’.

## Selecting an Item from a Dropdown

1. Open your IDE of choice and create a new Python file, let’s name this one ‘test\_dropdown.py’:

A screenshot of a computer program

Description automatically generated

1. Import your dependencies:

A screen shot of a computer

Description automatically generated

1. Navigate to a webpage:



1. Create a function to house your tests:



1. Launch the browser using a ‘with’ block:



1. Open a new page and navigate to the webpage:

A black background with white text

Description automatically generated

1. Specify your dropdown selector (the element in the HTML file for the application):



1. Specify the value from the dropdown you want the program to select:



1. Use Playwright to click on the dropdown and select the option:

A screen shot of a computer

Description automatically generated

1. Close the browser:



Finally, open command prompt and run the Pytest using the command, ‘pytest test\_dropdown.py’.