Classroom Assignment <1>: Writing first test case in Playwright

Learning Objective:

To understand and effectively utilize the hierarchical structure of browser automation in Playwright for web testing and interaction.

Best Case: 15 minutes
Average Case: 20 minutes

Assignment Requirements:

- Create a new browser instance
- Create a new context
- Create a new page
- Open a url
- Wait for 10 seconds
- Print the current url

Key Takeaways:

1. Browser

- A Browser is the instance of Chromium, Firefox, and WebKit
- Browsers in Playwright provide the foundation for launching browser contexts

2. Browser Context

- A browser context is an isolated environment within a browser that encapsulates multiple web pages or tabs.
- It enables you to control settings, cookies, and permissions for a group of related web pages while keeping them separate from other contexts.

3. Page

- A page in Playwright represents a single web page or tab within a browser context.
- It allows you to automate interactions with web elements, navigate to URLs, and perform various actions on the web page

Expected Outcome:

Upon completion, you should be able to:
- Understand the hierarchy for effective web automation and testing