Ash and Emily

Test Automation

11th September 24

Agenda

1. Why test automation – 5m
2. What do we want you to get out of the today's session – 1m
3. Explain the task – 10m
4. Have a go – 20m
5. Give us feedback – 4m

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Why do we do test automatio

eader fast inspira
creative

Objectives

Objective: Show how easy it is to get started with automation

This session is designed as an introduction, so the goal is not to master this today but to start a conversation that we can continue in the future. We understand not everyone will be involved in writing tests but we hope this will give an understanding of how it is done.

We recognize that our group has a range of experience and coding backgrounds, so it's perfectly okay if not everything clicks right away.
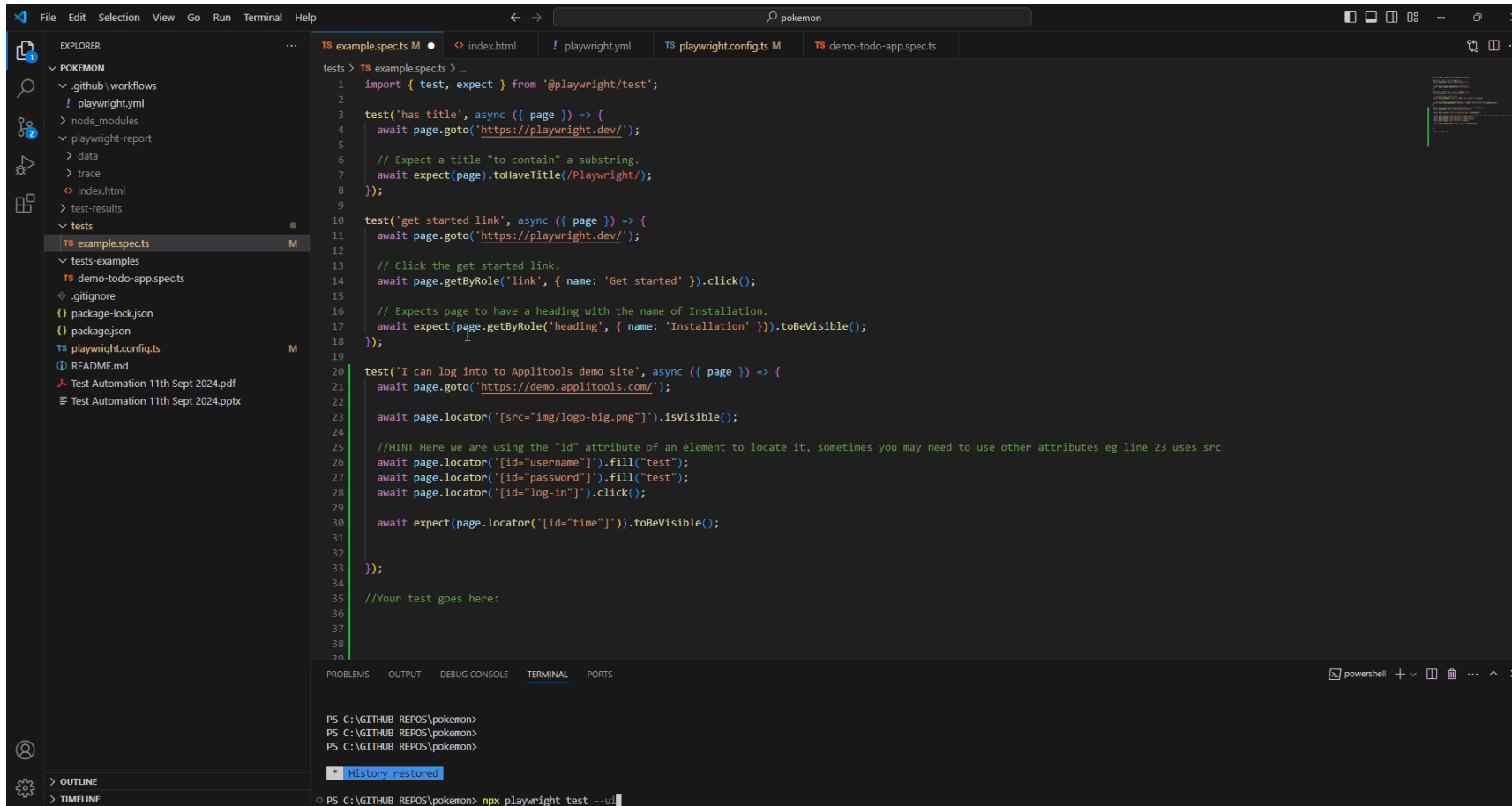
Tool selected: Playwright
- Microsoft tool
- Well documented
- Increased use in recent times.

Taken away installation but is very simple and if interested can be found here:

Before we explain the task....

Demo on the repository you have and how to run Playwright In UI mode

Demo on how to find locators

The task – Option 1 – simplest option

1. UI test to log in to an application
   1. Navigate to URL [Swag Labs (saucedemo.com)](https://www.saucedemo.com)
   2. Enter username   *standard_user*
   3. Enter password   *secret_sauce*
   4. Click login
   5. Confirm user is logged in

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The task – Option 2 – more complex

1. API test to call an API endpoint
   1. Call a *"get"* endpoint e.g. http://pokeapi.co/api/v2/pokemon/charmeleon
      1. headers: {'Content-Type': 'application/json',}
   2. Confirm success response (200)
   3. View the response
      1. What abilities does your pokemon have?

API documentation https://pokeapi.co/

Do we have any developers in the room who would be happy to support each group?

Example solutions are available on the next slides

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Example solutions – UI test

```javascript
test('I can log into to SwagLabs', async ({ page }) => {
  await page.goto('https://www.saucedemo.com/');

  // Expect a title "to contain" a substring.
  await expect(page).toHaveTitle(/Swag Labs/);

  await page.locator('[data-test="username"]').fill("standard_user");
  await page.locator('[data-test="password"]').fill("secret_sauce");
  await page.locator('[data-test="login-button"]').click();
  await expect(page.locator('[data-test="shopping-cart-link"]')).toBeVisible();

});
```

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Example solutions – API test

```javascript
test('I can find information about Charmander', async ({ request }) => {
  const response = await request.post(`http://pokeapi.co/api/v2/pokemon/ditto`, {
    headers: {
      'Content-Type': 'application/json',
  }})


   console.log(await response.json())
  expect(response.status()).toBe(200)


});
```

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Future

Page Object model, BDD and other best practice -
[Best practice / Principles of test automation - Test Automation - Confluence (atlassian.net)](#)

THE POSSIBILITIES ARE ENDLESS

This is just the beginning

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- What did you learn today?
  - Please add a post-it

- Did we achieve our objective?
  - Please mark opinion on sheet
  - Honesty is appreciated ☺

Basic setup of laptops for info:

- Laptop with Visual studio code and internet access
- Github repo cloned and a branch created with playwright installed
- Node and git installed

emypenguin87/PlaywrightDemo (github.com)

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Tips

npx playwright test –ui	Type into terminal to open Playwright UI
API testing | Playwright	Info writing API test
Writing tests | Playwright	UI test writing basics
LocatorAssertions | Playwright	Assertions for elements
https://playwright.dev/docs/intro#running-the-example-test-in-ui-mode	Info running in UI mode

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