

# GitHub Actions Workflow Summary

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This document explains the configuration for the automated test pipeline defined in `playwright-tests.yml`.

## 1. Workflow Identity

### Name: Playwright Python Tests

This is the label visible in the "Actions" tab of your GitHub repository.

## 2. Triggers (When it runs)

- **push:** Runs when code is pushed to main or master branches.
- **pull\_request:** Runs when a Pull Request is opened for main or master.
- **workflow\_dispatch:** Allows manual execution via a button in the GitHub UI.

## 3. The Job: "test"

There is a single job named **test** running on `ubuntu-latest` (a Linux virtual machine).

### Execution Steps:

#### 1. Checkout repository:

Downloads your code to the virtual machine using `actions/checkout@v4`.

#### 2. Set up Python:

Installs Python 3.11 using `actions/setup-python@v5`.

#### 3. Install dependencies:

Upgrades pip and installs packages listed in `requirements.txt` (like Playwright, Pytest).

#### 4. Install Playwright browsers:

Downloads the Chromium browser required for testing.

#### 5. Run tests:

Executes the tests using pytest.

- Target file: tests/test\_saucedemo.py
- Generates an HTML report: report.html
- Environment: Headless mode (no visible browser window).

#### 6. Upload test report:

Saves report.html as an artifact, viewable in GitHub Actions summary. Runs *always*, even if tests fail.

#### 7. Upload screenshots:

If the tests *fail*, uploads the contents of the screenshots/ folder to help debug issues.

## Original YAML Configuration

```
name: Playwright Python Tests

on:
  push:
    branches: [ main, master ]
  pull_request:
    branches: [ main, master ]
  workflow_dispatch:

jobs:
  test:
    runs-on: ubuntu-latest
    permissions:
      contents: read

    steps:
      - name: Checkout repository
        uses: actions/checkout@v4

      - name: Set up Python
        uses: actions/setup-python@v5
        with:
          python-version: '3.11'
```

```
- name: Install dependencies
  run: |
    python -m pip install --upgrade pip
    pip install -r requirements.txt

- name: Install Playwright browsers
  run: |
    playwright install --with-deps chromium

- name: Run tests
  run: |
    pytest tests/test_saucedemo.py --html=report.html --self-contained-html
  env:
    HEADLESS_MODE: true

- name: Upload test report
  if: always()
  uses: actions/upload-artifact@v4
  with:
    name: test-report
    path: report.html
    retention-days: 30

- name: Upload screenshots
  if: failure()
  uses: actions/upload-artifact@v4
  with:
    name: screenshots
    path: screenshots/
    retention-days: 30
```