Applications

Use for doing test automation on web browser applications & mobile web applications

Supported Languages

Java Script

Type Script

Java

Python

C#

Browsers

All modern browser engines (chromium , WebKit and Firefox) supported by playwright

Supported OS

- Windows
- MacOS
- Linux
- Support CI runs

Features

- Free | Open source

- Easy to setup & Configuration

- Multi –Browser | Multi Language support
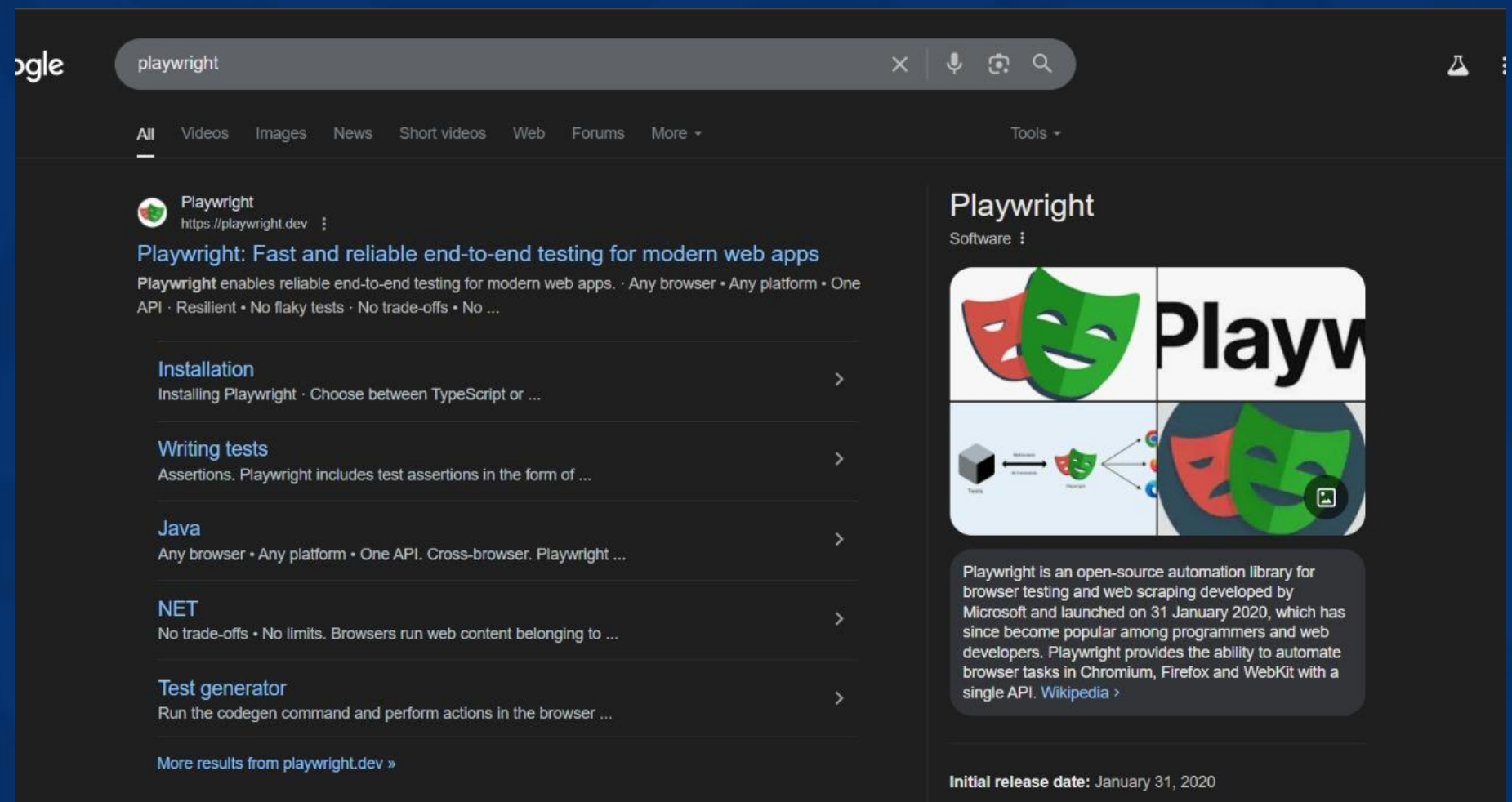
- Multi OS support

- Easy debugging

- Can do Functional testing | API testing |Accessibility testing

Official Website

https://playwright.dev/

Pre-Requests

Node JS

IDE(Vs Code)

```
Microsoft Windows [Version 10.0.26100.4349]
(c) Microsoft Corporation. All rights reserved.

C:\Users\User>npm --v
10.7.0

C:\Users\User>node --version
v20.15.0

C:\Users\User>
```
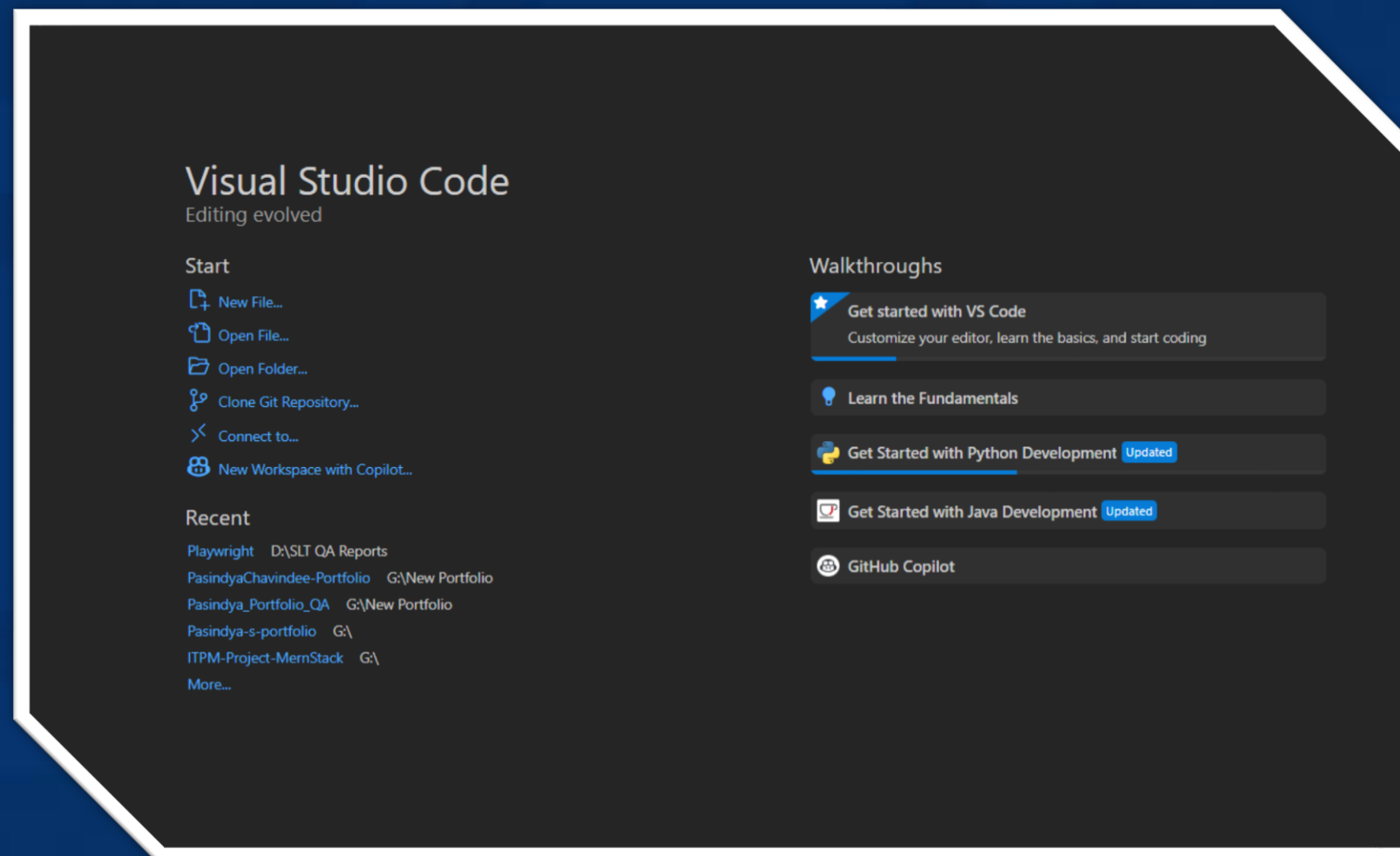
Installation steps

1

Step1.Create new folder & open in VS code

Visual Studio Code
Editing evolved

Start
- New File...
- Open File...
- Open Folder...
- Clone Git Repository...
- Connect to...
- New Workspace with Copilot...

Recent
Playwright   D:\SLT QA Reports
PasindyaChavindee-Portfolio   G:\New Portfolio
Pasindya_Portfolio_QA   G:\New Portfolio
Pasindya-s-portfolio   G:\
ITPM-Project-MernStack   G:\
More...

Walkthroughs

Get started with VS Code
Customize your editor, learn the basics, and start coding

Learn the Fundamentals

Get Started with Python Development Updated

Get Started with Java Development Updated

GitHub Copilot

2 Download Playwright


```
> TERMINAL                                    > powershell + v  □

o PS D:\SLT QA Reports\Playwright> npm init playwright@latest
```

Step 2.Open Terminal & give command

npm init playwright@latest

```
Need to install the following packages:
create-playwright@1.17.136
Ok to proceed? (y) y


> npx
> create-playwright

Getting started with writing end-to-end tests with Playwright:
Initializing project in '.'
√ Do you want to use TypeScript or JavaScript? · JavaScript
√ Where to put your end-to-end tests? · tests
√ Add a GitHub Actions workflow? (y/N) · true
? Install Playwright browsers (can be done manually via 'npx playwright install')? (Y/n) » true
```

When downloading

Wrote to D:\SLT QA Reports\Playwright\package.json:

{
  "name": "playwright",
  "version": "1.0.0",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "keywords": [],
  "author": "",
  "license": "ISC",
  "description": ""
}

Installing Playwright Test (npm install --save-dev @playwright/test)…

added 3 packages, and audited 4 packages in 8s

found 0 vulnerabilities
Installing Types (npm install --save-dev @types/node)…

added 2 packages, and audited 6 packages in 3s

found 0 vulnerabilities
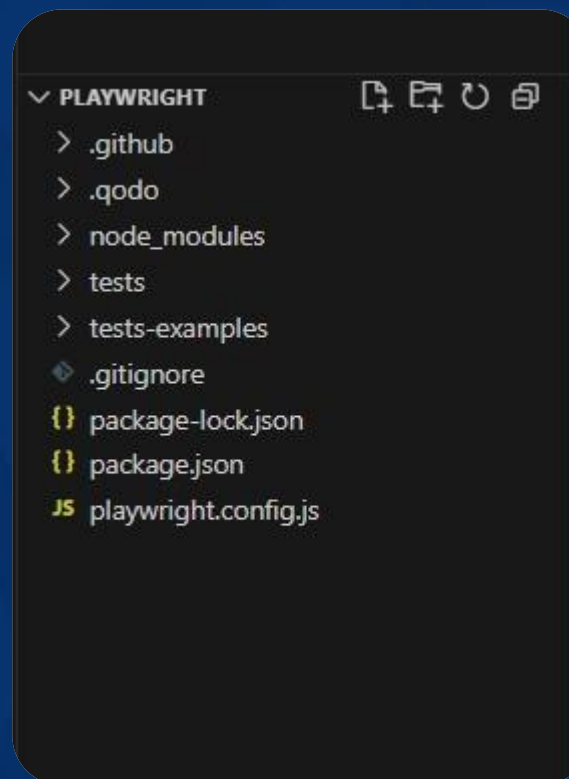Writing playwright.config.js.
Writing .github\workflows\playwright.yml.
Writing tests\example.spec.js.
Writing tests-examples\demo-todo-app.spec.js.
Writing package.json.
Downloading browsers (npx playwright install)…

When completely download


```
1.3 MiB [=====================] 100% 0.0s
FFMPEG playwright build v1011 downloaded to C:\Users\User
Data\Local\ms-playwright\ffmpeg-1011
Downloading Winldd playwright build v1007 from https://c
aywright.dev/dbazure/download/playwright/builds/winldd/10
inldd-win64.zip
0.1 MiB [=====================] 100% 0.0s
Winldd playwright build v1007 downloaded to C:\Users\User
Data\Local\ms-playwright\winldd-1007
✓ Success! Created a Playwright Test project at D:\SLT QA
orts\Playwright

Inside that directory, you can run several commands:

  npx playwright test
    Runs the end-to-end tests.

  npx playwright test --ui
    Starts the interactive UI mode.

  npx playwright test --project=chromium
    Runs the tests only on Desktop Chrome.

  npx playwright test example
    Runs the tests in a specific file.

  npx playwright test --debug
    Runs the tests in debug mode.

  npx playwright codegen
    Auto generate tests with Codegen.

We suggest that you begin by typing:

    npx playwright test

And check out the following files:
  - .\tests\example.spec.js - Example end-to-end test
  - .\tests-examples\demo-todo-app.spec.js - Demo Todo Ap
d-to-end tests
  - .\playwright.config.js - Playwright Test configuratio

Visit https://playwright.dev/docs/intro for more informat
✨

Happy hacking! 🎭
PS D:\SLT QA Reports\Playwright> []
```
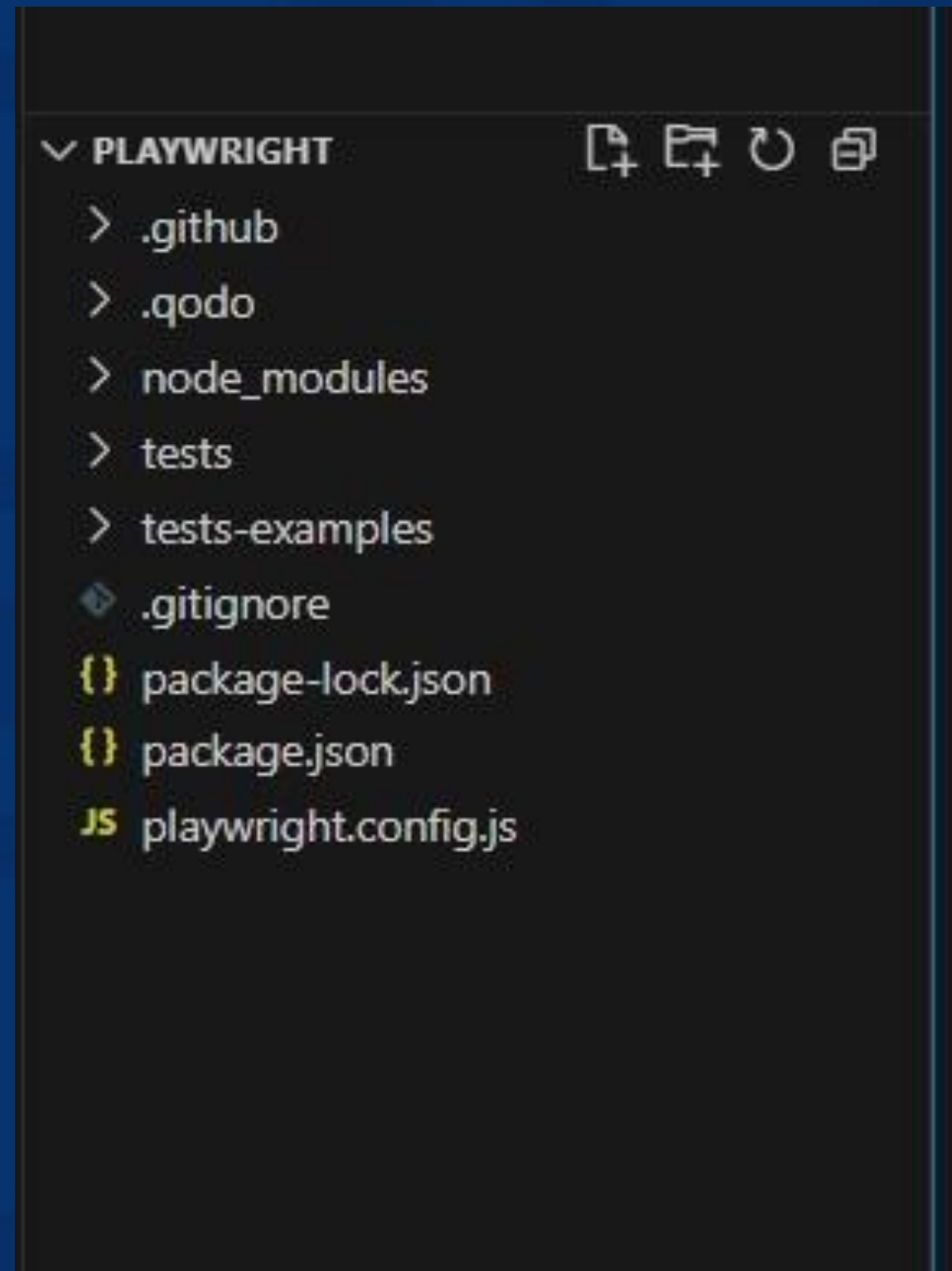
```
∨ PLAYWRIGHT
  > .github
  > .qodo
  > node_modules
  > tests
  > tests-examples
  ◆ .gitignore
  {} package-lock.json
  {} package.json
  JS playwright.config.js
```

Following files should be added

1.package.json – Node project management file

2.playwright.config.js- Configuration file

3.Tests folder – basic example test

4.tests- examples folder – detailed example tests

5.Gitgnore – to be use during git commit & push

Step 3 – Check playwright added
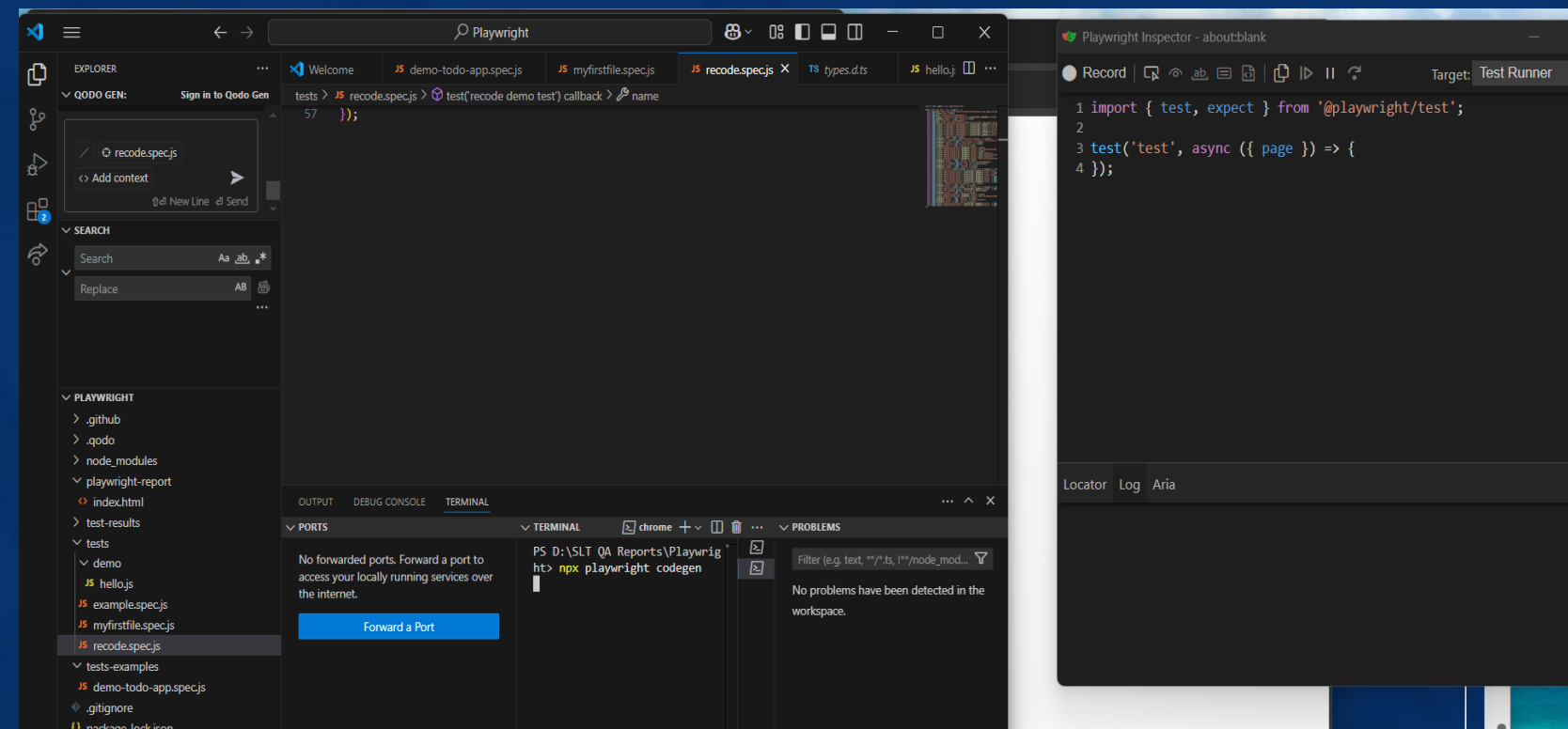
npm playwright –v


```
Happy hacking! 🎭
● PS D:\SLT QA Reports\Playwright> npm playwright -v
  10.7.0
● PS D:\SLT QA Reports\Playwright> npx playwright --help
  Usage: npx playwright [options] [command]

  Options:
    -V, --version                         output the version number
    -h, --help                            display help for command

  Commands:
    open [options] [url]                  open page in browser specified via -b, --browser
    codegen [options] [url]               open page and generate code for user actions
    install [options] [browser...]        ensure browsers necessary for this version of Playwright are installed
    uninstall [options]                   Removes browsers used by this installation of Playwright from the system
  chromium, firefox, webkit, ffmpeg). This does not include branded channels.
    install-deps [options] [browser...]   install dependencies necessary to run browsers (will ask for sudo permiss
  ons)
    cr [options] [url]                    open page in Chromium
    ff [options] [url]                    open page in Firefox
    wk [options] [url]                    open page in WebKit
    screenshot [options] <url> <filename> capture a page screenshot
    pdf [options] <url> <filename>        save page as pdf
    run-server [options]
    show-trace [options] [trace...]       show trace viewer
    test [options] [test-filter...]       run tests with Playwright Test
    show-report [options] [report]        show HTML report
    merge-reports [options] [dir]         merge multiple blob reports (for sharded tests) into a single report
    clear-cache [options]                 clears build and test caches
    help [command]                        display help for command
✦ PS D:\SLT QA Reports\Playwright>
```

4 # How to record the test

Open Terminal & give command

npx playwright codegen

Lets try ....

To run document

npx playwright test

To get report

npx playwright show-report

```
● PS D:\SLT QA Reports\Playwright> npx playwright test

  Running 9 tests using 2 workers
    9 passed (1.0m)

  To open last HTML report run:

    npx playwright show-report

✧ PS D:\SLT QA Reports\Playwright> npx playwright show-report

    Serving HTML report at http://localhost:9323. Press Ctrl+C to quit.
```

Test report of playwright

All 1 | Passed 1 | Failed 0 | Flaky 0 | Skipped 0

Project: chromium

6/20/2025, 1:48:59 PM   Total time: 6.4s

⌄ **login.spec.js**

✓ **User can log in, add items to cart, checkout, and logout**   4.5s
login.spec.js:3

Thank you!

Prepared by Pasindya Chavindee

(2558)