GitHub Actions is a powerful automation tool within GitHub that helps automate tasks like

testing,

building,

and deploying code.

1. **Running Cypress Tests with GitHub Actions**

**name: Cypress Tests**

**on: [push, pull\_request]**

**jobs:**

**cypress-run:**

**runs-on: ubuntu-latest**

**steps:**

**- name: Checkout code**

**uses: actions/checkout@v2**

**- name: Install dependencies**

**run: npm install**

**- name: Run Cypress tests**

**run: npx cypress run**

1. **Caching Dependencies to Reduce Build Times**

name: Cache node modules

uses: actions/cache@v2

with:

path: node\_modules

key: ${{ runner.os }}-node-${{ hashFiles('package-lock.json') }}

restore-keys: | ${{ runner.os }}-node-

1. **Running Postman Collections via Newman in GitHub Actions**

**"scripts": {**

**"newman": "newman run postman/collection.json -e postman/QAEnv.json -r htmlextra"**

**}**

**jobs:**

**newman-tests:**

**runs-on: ubuntu-latest**

**steps:**

**- name: Checkout code**

**uses: actions/checkout@v2**

**- name: Install Newman**

**run: npm install -g newman**

**- name: Run Newman tests**

**run: npm run newman**

Adding a Report to a GitHub Actions Workflow

name: Upload report

uses: actions/upload-artifact@v2

with: name: test-report

path: ./path-to-report

Git Push Blocked Due to Secret Key

name: Use GitHub Secret

run: echo ${{ secrets.SECRET\_NAME }}

name: Cypress Tests on docker container

# Cypress Docker image with Chrome v78

# and Firefox v70 pre-installed

container: cypress/browsers:node12.18.3-chrome87-ff82

Ex.

name: Push CI on Windows

# Trigger the workflow on every push to any branch

on:

push:

branches:

- 'main'

jobs:

build:

# Set the job to run on Windows

runs-on: windows-latest

# Define the steps in the workflow

steps:

# Checkout the repository

- name: Checkout code

uses: actions/checkout@v3

# Cache Node Modules for speed up wrokflow

- name: Cache Node Modules

uses: actions/cache@v3

with:

path: ~/.npm

key: ${{ runner.os }}-node-${{ hashFiles('package-lock.json') }}

restore-keys: |

${{ runner.os }}-node-

# Set up Node.js

- name: Set up Node.js

uses: actions/setup-node@v3

with:

node-version: '22.x' # Specify the version of Node.js

# Install dependencies

- name: Install dependencies

run: npm install

- name: Install Cypress binary

run: npx cypress install

# Install Newman globally

- name: Install Newman

run: npm install -g newman

# Install newman-reporter-htmlextra globally

- name: Install Newman and htmlextra reporter

run: |

npm install -g newman

npm install -g newman-reporter-htmlextra

# Run tests

- name: Run tests

run: npm test

continue-on-error: true

- name: Run Newman tests

run: npm run newman-test

continue-on-error: true

# Upload the Mochawesome report as an artifact

- name: Upload Mochawesome report

uses: actions/upload-artifact@v3

with:

name: mochawesome-report

path: cypress/reports/mocha

# Upload the Newman report as an artifact

- name: Upload Newman report

uses: actions/upload-artifact@v3

with:

name: newman-report

path: newman/results/newman-report.html