1. Install Allure plugin

```
You need the shelex/cypress-allure-plugin (most popular).

npm install -D @shelex/cypress-allure-plugin

Also install Allure commandline (for generating HTML reports):

npm install -g allure-commandline --save-dev
```

2. Project Setup Changes

✓ Add to cypress/support/e2e.js

```
import '@shelex/cypress-allure-plugin'; // Allure support
import './commands'; // your custom commands
require('cypress-xpath'); // example plugin
require('cypress-file-upload'); // file upload if needed
```

Update cypress.config.js

. Using Allure in Tests + POM

The plugin provides a Cypress.Allure.reporter API with helpers.

Start step / End step

Inside your **Page Object class** methods:

```
class LoginPage {
  visit() {
    cy.allure().startStep("Visiting login page");
    cy.visit('/login');
```

```
}
 enterUsername(username) {
  cy.allure().startStep(`Entering username: ${username}`);
  cy.get('#username').type(username);
  cy.allure().endStep();
 enterPassword(password) {
  cy.allure().startStep("Entering password");
  cy.get('#password').type(password, { log: false }); // don't show real password
  cy.allure().endStep();
 submit() {
  cy.allure().startStep("Click submit");
  cy.get('#loginBtn').click();
  cy.allure().endStep();
 }
}
export default LoginPage;
Attaching data to report
Attach text, JSON, or images/screenshots:
// inside test or POM method
cy.allure().attachment("User Data", JSON.stringify({ username: "testuser" }),
"application/json");
cy.screenshot("after-login");
cy.allure().attachment("Login Screenshot", "cypress/screenshots/login.png",
"image/png");
    • cy.allure().startStep("desc") / endStep() → log structured steps in
    • cy.allure().attachment("name", data, "mime/type") → attach files,
      screenshots, logs.

    Can add labels:

cy.allure().severity('critical');
cy.allure().tag('smoke', 'login');
cy.allure().owner('Abhishek');
package.json
 "name": "cypx",
 "version": "1.0.0",
```

cy.allure().endStep();

"description": "",

```
"main": "index.js",
 "directories": {
  "test": "cypress/e2e"
 },
 "scripts": {
  "test": "cypress run --browser chrome --headless",
  "test:chrome": "cypress run --browser chrome --headless=new --env allure=true".
  "test:ui": "cypress open --env allure=true",
  "allure:generate": "allure generate allure-results --clean -o allure-report",
  "allure:open": "allure open allure-report",
  "allure:serve": "allure serve allure-results",
  "test:allure": "npm run test && npm run allure:generate && npm run allure:open",
  "test:debug": "cypress open --env allure=true,debug=true",
  "clean:reports": "rimraf allure-results allure-report cypress/screenshots cypress/videos",
  "ci:test": "cypress run --record --key YOUR_KEY --env allure=true"
 },
 "keywords": [],
 "author": "",
 "license": "ISC",
 "devDependencies": {
  "@shelex/cypress-allure-plugin": "^2.41.2",
  "allure-commandline": "^2.34.1",
  "cvpress": "^14.5.4",
  "cypress-xpath": "^2.0.1",
  "mochawesome": "^7.1.3",
  "mochawesome-merge": "\\(^5.0.0\)",
  "mochawesome-report-generator": "^6.2.0",
  "rimraf": "^6.0.1"
 }
}
```

Data-Driven Testing

- **Fixtures** → Store data in fixtures/*.json, load with cy.fixture().
- **Loops** → Use for Each or it. each style to run same test with multiple datasets.
- **Parameterization** → Pass test data as arguments in Cypress.env() or from JSON.
- External sources → Read from CSV/Excel/DB via cy.task().

Test Isolation

- **Independent tests** → Each test should set up its own state and not rely on previous test.
- **beforeEach hooks** → Reset app state before each test (cy.visit(), clear cookies/storage).
- **Unique data** → Generate random user/email IDs to avoid conflicts across tests.
- **DB clean-up** → Rollback or re-seed DB between tests in integration environments.

Dockerfile (for Cypress + Allure)

```
# Base Cypress image with dependencies
FROM cypress/included:12.17.1
# Install allure-commandline globally
RUN npm install -g allure-commandline --save-dev
# Set work directory
WORKDIR /e2e
# Copy project files
COPY package.json package-lock.json ./
RUN npm install
COPY . .
# Run tests (default command, can be overridden in Jenkins)
CMD ["npx", "cypress", "run", "--env", "allure=true", "--reporter", "cypress-
allure-plugin"]
Jenkinsfile (Declarative Pipeline)
pipeline {
  agent {
     docker {
       image 'cypress-allure:latest' // Build this Dockerfile with tag cypress-allure
                                // Run as root to avoid permission issues
       args '-u root:root'
     }
  }
  environment {
     CYPRESS_baseUrl = 'http://your-app-url.com'
  stages {
     stage('Checkout') {
          git branch: 'main', url: 'https://github.com/your-repo/cypress-tests.git'
     }
     stage('Install Dependencies') {
       steps {
          sh 'npm install'
       }
     stage('Run Cypress Tests') {
       steps {
          sh 'npx cypress run --env allure=true --reporter cypress-allure-plugin'
       }
     }
     stage('Generate Allure Report') {
       steps {
          sh 'allure generate allure-results --clean -o allure-report'
```

```
}
     stage('Publish Allure Report') {
        steps {
          allure includeProperties: false, jdk: ", results: [[path: 'allure-results']]
     }
   }
  post {
     always {
        archiveArtifacts artifacts: 'allure-report/**', fingerprint: true
     }
  }
}
describe('Login Test with Allure', () => {
 it('should login successfully', () => {
  cy.allure().feature('Login')
  cy.allure().story('User logs in with valid credentials')
  cy.allure().step('Visit login page')
  cy.visit('/login')
  cy.allure().step('Enter username')
  cy.get('#username').type('testuser')
  cy.allure().step('Enter password')
  cy.get('#password').type('password123')
  cy.allure().step('Click login button')
  cy.get('button[type="submit"]').click()
  cy.allure().step('Verify login success')
  cy.url().should('include', '/dashboard')
 })
})
```