

BONUS SECTION: Interview Tips, Troubleshooting & Enterprise Examples

BONUS 1 — Interview Perspective

Key Topics Interviewers Ask

Git & GitHub Questions:

Question	Key Points to Mention
Explain Git workflow	Clone → Branch → Code → Commit → Push → PR → Merge
Difference between merge and rebase	Merge preserves history, rebase creates linear history
How to resolve conflicts	Pull latest, open files, resolve markers, commit
What is a Pull Request	Code review mechanism, CI runs, approval required
Why use branching	Isolation, parallel work, safe experimentation

CI/CD Questions:

Question	Key Points to Mention
What is CI/CD	Continuous Integration & Delivery, automated pipelines
Benefits of CI/CD	Early bug detection, consistent testing, faster releases
Explain GitHub Actions	YAML-based workflows, triggers, jobs, steps, runners
How to handle secrets	GitHub Secrets, environment variables, never hardcode
What happens when tests fail in CI	Notification sent, PR blocked, fix required

Framework Questions:

Question	Key Points to Mention
Explain Page Object Model	Separate locators from tests, maintainability, reusability
How to handle flaky tests	Retries, proper waits, stable locators, investigation
Data-driven testing	External data files, parameterization, multiple scenarios
Parallel execution	Workers, sharding, independent tests
Reporting	HTML reporter, artifacts, CI integration

Do's and Don'ts in Interviews

Technical Demonstration:

✔ Do	✗ Don't
Explain your thought process	Just give one-word answers
Mention real-world experience	Only speak theoretically
Acknowledge what you don't know	Pretend to know everything
Use proper terminology	Use vague language
Give specific examples	Be too generic

When Asked About Your Framework:

GOOD ANSWER STRUCTURE:

1. Start with architecture overview
"Our framework uses Page Object Model with..."
2. Explain key components
"We have separate folders for pages, tests, and utilities..."
3. Mention CI/CD integration
"Tests run automatically on every PR using GitHub Actions..."
4. Highlight best practices
"We enforce code reviews, use data-driven testing..."
5. Share a challenge you solved
"We had flaky tests, so I implemented..."

BONUS 2 — Troubleshooting Tables

Git Troubleshooting

Error Message	Cause	Solution
<code>fatal: not a git repository</code>	Not in git folder	<code>cd</code> to correct folder or <code>git init</code>
<code>error: failed to push</code>	Remote has new commits	<code>git pull</code> first, then push
<code>CONFLICT in file.ts</code>	Same lines changed	Resolve conflicts manually
<code>Your branch is behind</code>	Need to pull updates	<code>git pull origin develop</code>
<code>Permission denied</code>	Auth issue	Check SSH keys or use HTTPS
<code>detached HEAD</code>	Not on a branch	<code>git checkout branch-name</code>

Pipeline Troubleshooting

Error	Cause	Solution
<code>npm ci failed</code>	Missing lock file	Commit <code>package-lock.json</code>


Error	Cause	Solution
playwright install failed	Missing deps	Use <code>--with-deps</code> flag
Timeout 60000ms exceeded	Test too slow	Increase timeout or fix test
Browser closed unexpectedly	Memory issue	Reduce parallelism
Secret not found	Not configured	Add in repository settings
Artifact upload failed	Path doesn't exist	Check directory path


Test Troubleshooting

Issue	Cause	Solution
Element not found	Locator changed	Update locator
Click intercepted	Element covered	Scroll to element first
Test timeout	Slow page/network	Increase timeout, check network
Random failures	Race condition	Add proper waits
Works locally, fails in CI	Environment diff	Check headless mode, viewport



BONUS 3 — Do's and Don'ts

Code Writing



 Do	 Don't
Use data-testid selectors	Use fragile XPath
Externalize test data	Hardcode values
Write independent tests	Create test dependencies
Use page objects	Write everything in test file
Add meaningful assertions	Skip verification

<div>  Do </div>	<div>  Don't </div>
Handle expected failures	Let tests fail silently



Git Usage

<div>  Do </div>	<div>  Don't </div>
Pull before pushing	Force push to shared branches
Write clear commit messages	Use vague messages like "fix"
Create focused branches	Put multiple features in one branch
Review PR feedback promptly	Ignore review comments
Delete merged branches	Leave stale branches

CI/CD

<div>  Do </div>	<div>  Don't </div>
Fix broken builds immediately	Leave pipeline red
Use secrets for credentials	Hardcode passwords
Monitor test results	Ignore CI output
Keep pipelines fast	Add unnecessary steps
Upload reports as artifacts	Lose test evidence

Team Collaboration

<div>  Do </div>	<div>  Don't </div>
Communicate blockers early	Wait until deadline
Help teammates debug	Blame without helping
Share knowledge	Keep solutions to yourself
Document your work	Leave others guessing

✔ Do	✗ Don't
Follow agreed standards	Create your own rules

BONUS 4 — Real Enterprise Examples

Example 1: E-Commerce Test Suite Structure

```
ecommerce-tests/  
├── .github/  
│   └── workflows/  
│       ├── smoke.yml          # Quick tests on every PR  
│       ├── regression.yml     # Full suite nightly  
│       └── production.yml     # Production monitoring  
├── tests/  
│   ├── cart/  
│   │   ├── add-to-cart.spec.ts  
│   │   ├── cart-quantity.spec.ts  
│   │   └── cart-removal.spec.ts  
│   ├── checkout/  
│   │   ├── guest-checkout.spec.ts  
│   │   ├── member-checkout.spec.ts  
│   │   └── payment-methods.spec.ts  
│   └── search/  
│       ├── product-search.spec.ts  
│       └── filter-products.spec.ts  
├── pages/  
│   ├── CartPage.ts  
│   ├── CheckoutPage.ts  
│   ├── ProductPage.ts  
│   └── SearchPage.ts  
└── test-data/  
    ├── products.json  
    ├── users.json  
    └── addresses.json
```

Example 2: Multi-Environment Pipeline

```
# .github/workflows/multi-env.yml
name: Multi-Environment Tests

on:
  workflow_dispatch:
    inputs:
      environment:
        description: 'Environment'
        required: true
        type: choice
        options:
          - dev
          - qa
          - staging
          - prod

jobs:
  test:
    runs-on: ubuntu-latest
    environment: ${ inputs.environment }

    steps:
      - uses: actions/checkout@v4

      - uses: actions/setup-node@v4
        with:
          node-version: 20

      - run: npm ci
      - run: npx playwright install --with-deps

      - name: Run tests against ${ inputs.environment }
        run: npx playwright test
        env:
          BASE_URL: ${ vars.BASE_URL }
          API_URL: ${ vars.API_URL }
          TEST_USER: ${ secrets.TEST_USER }
          TEST_PASS: ${ secrets.TEST_PASS }

      - uses: actions/upload-artifact@v4
        if: always()
```

```
with:  
  name: ${{ inputs.environment }}-report  
  path: playwright-report/
```

Example 3: Team Workflow Scenario


Scenario: Adding new checkout tests

DAY 1 - Monday

Engineer A (you):

- └─ 09:00 - Pull latest code
 - | git checkout develop
 - | git pull origin develop
 - |
- └─ 09:15 - Create feature branch
 - | git checkout -b feature/JIRA-456-checkout-tests
 - |
- └─ 09:30 - Start writing tests
 - | Created CheckoutPage.ts
 - | Created checkout.spec.ts
 - |
- └─ 17:00 - Run tests locally
 - | npx playwright test tests/checkout/ --headed
 - | 3 tests pass, 1 fails
 - |
- └─ 17:30 - Fix failing test
 - | Updated locator for payment button
 - |
- └─ 18:00 - Push work
 - | git add .
 - | git commit -m "feat: add checkout page tests (WIP)"
 - | git push origin feature/JIRA-456-checkout-tests

DAY 2 - Tuesday


- └─ 09:00 - Pull latest develop
 - | git checkout develop
 - | git pull origin develop
 - | git checkout feature/JIRA-456-checkout-tests
 - | git merge develop
 - |
- └─ 09:30 - Complete remaining tests
 - | Added 3 more test cases
 - |
- └─ 15:00 - Final local run
 - | npx playwright test tests/checkout/
 - | All 7 tests pass 
 - |
- └─ 15:30 - Push and create PR
 - | git push origin feature/JIRA-456-checkout-tests

| Created PR on GitHub

| 16:00 - CI runs

| Pipeline started

| Tests running...

|  All checks pass

| 16:30 - Request review

| Assigned Senior Engineer as reviewer

DAY 3 - Wednesday

| 10:00 - Reviewer leaves comments

| "Please add test for error handling"

| "Use data-testid instead of class"

| 11:00 - Address review comments

| Added error handling test

| Updated locators

| 11:30 - Push updates

| git add .

| git commit -m "fix: address review comments"

| git push origin feature/JIRA-456-checkout-tests

| 14:00 - Review approved

| Reviewer approved PR 

| 14:15 - Merge to develop

| Clicked "Squash and merge"

| All 7 tests merged to develop

| 14:30 - Cleanup

| git checkout develop

| git pull origin develop

| git branch -d feature/JIRA-456-checkout-tests

RESULT:

| 7 new checkout tests added

| CI pipeline passing

| Code reviewed and approved

| Branch cleaned up

Quick Reference Card

PLAYWRIGHT ENTERPRISE QUICK REFERENCE

► DAILY WORKFLOW

git pull → branch → code → test → commit → push → PR

► ESSENTIAL COMMANDS

npx playwright test # Run all tests

npx playwright test --headed # See browser

npx playwright test --debug # Debug mode

npx playwright show-report # View report

► GIT COMMANDS

git checkout -b feature/name # Create branch

git add . && git commit -m "" # Stage and commit

git push origin branch # Push to GitHub

► TEST TAGS

@smoke - Quick sanity tests

@regression - Full test suite

@critical - Must-pass tests

► COMMIT PREFIXES

feat: - New feature

fix: - Bug fix

refactor: - Code improvement

docs: - Documentation

► BRANCH NAMING

feature/JIRA-123-description

bugfix/JIRA-456-fix-name

hotfix/critical-issue

► PIPELINE STATUS

✅ Green = Ready to merge

❌ Red = Fix before merging

● Yellow = Running

Document Information

Item	Details
Created	December 31, 2024
Purpose	Enterprise onboarding & training
Audience	Automation engineers (all levels)
Framework	Playwright + TypeScript
Scope	Complete workflow from basics to enterprise practices

End of Enterprise Automation Handbook