



# Credit Gyems Academy - Test Commands Quick Reference



## Most Common Commands

powershell

*# Quick validation (5-10 min)*

```
.\scripts\TS_CGA_v1\Run-CompleteSuite.ps1 -TestMode Quick
```

*# Run GUI tests only*

```
.\scripts\TS_CGA_v1\Run-GUITests.ps1
```

*# Run specific GUI test*

```
npx playwright test navigation.spec.js --headed
```

*# Update visual snapshots*

```
.\scripts\TS_CGA_v1\Run-GUITests.ps1 -UpdateSnapshots
```



## GUI Testing

### Basic Commands

powershell

*# ALL GUI tests (headless)*

```
.\scripts\TS_CGA_v1\Run-GUITests.ps1 -Headless
```

*# Specific browser*

```
.\scripts\TS_CGA_v1\Run-GUITests.ps1 -Browser firefox
```

*# With video recording*

```
.\scripts\TS_CGA_v1\Run-GUITests.ps1 -RecordVideos
```

*# Debug mode*

```
$env:PWDEBUG=1; npx playwright test --headed
```

### Playwright Direct Commands

bash

*# Run all tests*

`npx playwright test`

*# Run specific test file*

`npx playwright test form-validation.spec.js`

*# Run tests in specific browser*

`npx playwright test --project=chromium`

*# Run with UI mode (interactive)*

`npx playwright test --ui`

*# Show Last HTML report*

`npx playwright show-report`

*# Update snapshots*

`npx playwright test --update-snapshots`

*# Run component tests*

`npx playwright test -c playwright-ct.config.js`

## API Testing

powershell

*# Full API test suite*

`.\scripts\TS_CGA_v1\Run-CreditGyemsQA.ps1`

*# Skip server start (servers already running)*

`.\scripts\TS_CGA_v1\Run-CreditGyemsQA.ps1 -SkipServerStart`

*# With cleanup*

`.\scripts\TS_CGA_v1\Run-CreditGyemsQA.ps1 -CleanupAll`

*# Individual test suites*

`.\scripts\TS_CGA_v1\Test-AuthenticationFlow.ps1 -ProjectRoot "D:\credit-gyems-academy"`

`.\scripts\TS_CGA_v1\Test-EcommerceFlow.ps1 -ProjectRoot "D:\credit-gyems-academy"`

`.\scripts\TS_CGA_v1\Test-BookingFlow.ps1 -ProjectRoot "D:\credit-gyems-academy"`

## Edge Case Testing

powershell

```
# Quick edge cases (payment + basic security)
.\scripts\TS_CGA_v1\Run-AllEdgeCaseTests.ps1 -QuickRun

# Standard edge cases
.\scripts\TS_CGA_v1\Run-AllEdgeCaseTests.ps1

# Full suite (includes destructive tests)
.\scripts\TS_CGA_v1\Run-AllEdgeCaseTests.ps1 -FullSuite

# Individual edge case tests
.\scripts\TS_CGA_v1\Test-PaymentEdgeCases.ps1
.\scripts\TS_CGA_v1\Test-ConcurrentUserBehavior.ps1
.\scripts\TS_CGA_v1\Test-SecurityEdgeCases.ps1
.\scripts\TS_CGA_v1\Test-DataIntegrityEdgeCases.ps1
```



## Stress Testing (K6)

bash

```
# Run default stress test
k6 run scripts/TS_CGA_v1/k6/stress-test.js

# Custom duration and users
k6 run --duration 10m --vus 50 scripts/TS_CGA_v1/k6/stress-test.js

# Output to cloud
k6 cloud scripts/TS_CGA_v1/k6/stress-test.js

# With environment variables
k6 run -e BASE_URL=https://staging.creditgyems369.com stress-test.js
```



## Complete Test Suite

```
powershell
```

```
# Standard run (recommended for PRs)
```

```
.\scripts\TS_CGA_v1\Run-CompleteSuite.ps1 -TestMode Standard
```

```
# Full suite (before releases)
```

```
.\scripts\TS_CGA_v1\Run-CompleteSuite.ps1 -TestMode Full
```

```
# Everything with all browsers (major releases)
```

```
.\scripts\TS_CGA_v1\Run-CompleteSuite.ps1 -TestMode All -Browser all
```

```
# CI mode (no interactive elements)
```

```
.\scripts\TS_CGA_v1\Run-CompleteSuite.ps1 -TestMode Standard -CIMode
```

```
# Skip certain test types
```

```
.\scripts\TS_CGA_v1\Run-CompleteSuite.ps1 -SkipGUI
```

```
.\scripts\TS_CGA_v1\Run-CompleteSuite.ps1 -SkipEdgeCases
```

```
.\scripts\TS_CGA_v1\Run-CompleteSuite.ps1 -SkipStress
```

## Utility Commands

### Server Management

```
powershell
```

```
# Start backend only
```

```
cd backend; npm run dev
```

```
# Start frontend only
```

```
cd frontend; npm run dev
```

```
# Check what's using ports
```

```
netstat -ano | findstr :3000
```

```
netstat -ano | findstr :5000
```

```
# Kill process by PID (Windows)
```

```
taskkill /PID <PID> /F
```

```
# Kill process by PID (Mac/Linux)
```

```
kill -9 <PID>
```

### Test Data

```
powershell
```

```
# Setup fresh test data
```

```
.\scripts\TS_CGA_v1\Setup-TestData.ps1 -ProjectRoot "D:\credit-gyems-academy"
```

```
# Cleanup test data
```

```
.\scripts\TS_CGA_v1\Cleanup-TestData.ps1 -ProjectRoot "D:\credit-gyems-academy" -CleanupAll
```

## Reports

```
powershell
```

```
# Open Latest HTML report
```

```
Start-Process (Get-ChildItem test-reports\*.html | Sort-Object LastWriteTime -Descending | Select-Object -First 1).FullName -Command "cmd /c start /f /d %~dp0\test-reports\$(Get-ChildItem test-reports\*.html | Sort-Object LastWriteTime -Descending | Select-Object -First 1).FullName"
```

```
# Generate test report from existing results
```

```
.\scripts\TS_CGA_v1\Generate-TestReport.ps1 -TestResults $Global:TestResults -ProjectRoot "D:\credit-gyems-academy"
```

## Debug Tips

```
bash
```

```
# Playwright debug selector
```

```
npx playwright codegen localhost:3000
```

```
# Show browser dev tools
```

```
npx playwright test --debug
```

```
# Slow down tests (see what's happening)
```

```
npx playwright test --slow-mo=1000
```

```
# Take screenshot on each step
```

```
npx playwright test --screenshot=on
```

```
# Specific test with all debug features
```

```
$env:PWDEBUG=1
```

```
npx playwright test user-flows.spec.js --headed --slow-mo=1000 --screenshot=on
```

## Environment Variables

```
powershell
```

```
# PowerShell
```

```
$env:BASE_URL = "http://localhost:5000"
```

```
$env:FRONTEND_URL = "http://localhost:3000"
```

```
$env:HEADLESS = "false"
```

```
$env:BROWSER = "chromium"
```

```
# Bash
```

```
export BASE_URL="http://localhost:5000"
```

```
export FRONTEND_URL="http://localhost:3000"
```

```
export HEADLESS="false"
```

```
export BROWSER="chromium"
```

## Typical Durations

Test Type	Quick	Standard	Full
API Tests	3 min	10 min	15 min
GUI Tests	5 min	15 min	30 min
Edge Cases	-	20 min	45 min
Stress Tests	-	-	30 min
<b>Total</b>	<b>8 min</b>	<b>45 min</b>	<b>2 hours</b>

## Emergency Commands

```
powershell
```

```
# Something's broken, run minimal tests
```

```
.\scripts\TS_CGA_v1\Test-Environment.ps1 -ProjectRoot "D:\credit-gyems-academy"
```

```
# Just check if Login works
```

```
.\scripts\TS_CGA_v1\Test-AuthenticationFlow.ps1 -ProjectRoot "D:\credit-gyems-academy"
```

```
# Quick GUI smoke test
```

```
npx playwright test navigation.spec.js form-validation.spec.js --project=chromium
```

```
# Kill all node processes (Windows)
```

```
taskkill /F /IM node.exe
```

```
# Kill all node processes (Mac/Linux)
```

```
killall node
```

---

 **Pro Tip:** Add this file to your IDE's pinned tabs for quick access!

