

Laravel Testing Playlist

Part 1: Introduction to Testing in Laravel

- Why testing is important in real projects
 - Unit tests vs Feature tests
 - PHPUnit vs Pest (overview only, details later)
 - Test configurations (`phpunit.xml` & `.env.testing`)
 - Running `php artisan test` vs `vendor/bin/phpunit`
 - Writing your first PHPUnit test
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Part 2: Feature Testing with PHPUnit

- Testing routes & views (`assertStatus`, `assertSee`)
 - Testing form validation
 - Testing redirects & sessions
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Part 3: Database Testing with PHPUnit

- Using `RefreshDatabase`
 - Factories & seeders in tests
 - Testing create/read/update/delete (CRUD)
 - Testing Eloquent relationships
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Part 4: Authentication & Authorization (PHPUnit)

- Testing login & registration
 - Testing middleware (e.g., `auth`)
 - Testing roles & permissions
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Part 5: API Testing with PHPUnit

- Testing JSON responses

- Testing headers & tokens
 - API authentication (with Sanctum/Passport)
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Part 6: Mocking & Fakes (PHPUnit)

- `Mail::fake()`, `Notification::fake()`, `Storage::fake()`
 - Testing without sending real mails/files
 - Mocking external services
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Part 7: Unit Testing with PHPUnit

- Testing small methods & services
 - Using assertions (`assertTrue`, `assertEquals`, etc.)
 - Example: testing a custom helper function
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Part 8: Migrating from PHPUnit to Pest

- Installing Pest
 - Comparing syntax (PHPUnit vs Pest)
 - Converting existing tests
 - Writing new tests in Pest
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Part 9: Advanced Testing with Pest

- Cleaner syntax & expectations
- Pest plugins & datasets
- Snapshot testing
- Organizing large test suites