


Introduction to Ellithium


A Unified Test Automation Framework
Instructor: Abdelrahman Ellithy (Creator
of Ellithium)

What is Ellithium?

Ellithium is a unified, powerful, and scalable test automation framework designed to streamline and enhance the testing process.



It supports Web, Mobile, API, SQL, and NoSQL database testing, making it a one-stop solution for all your testing needs.



Built with tools like TestNG, Cucumber, Rest Assured, and Appium, Ellithium ensures faster, more reliable, and maintainable test automation.

Key Features of Ellithium

Unified Framework:
Supports Web,
Mobile, API, and
Database testing.

BDD Support: Write
tests in a behavior-
driven development
style with Cucumber.

Parallel Execution:
Run tests in parallel
for faster execution.

Allure Reporting:
Generate rich,
interactive test
reports.

CI/CD Integration:
Seamless integration
with Jenkins, GitHub
Actions, and GitLab.

Test Data Generation:
Dynamically generate
test data using Java
Faker.

Supported Testing Platforms

Ellithium supports the following testing platforms:

Web: Automate web applications using Selenium WebDriver.

Mobile: Test native, hybrid, and mobile apps on Android and iOS with Appium.

API: Full support for RESTful services with Rest Assured.

Database: Test SQL and NoSQL databases, including MySQL, PostgreSQL, MongoDB, and more.

Ellithium vs. Selenium

Comparison Table:

Feature	Selenium	Ellithium
Type	Library (Browser Automation)	Full Framework
Assertions	Requires additional framework (e.g., TestNG, JUnit)	Built-in assertion support
Synchronization	Manual (custom code for FluentWait, ExpectedConditions)	Built-in (FluentWait, ExpectedConditions)
Reporting	Requires integration (e.g., ExtentReports, Allure)	Integrated Allure Reports
Scope	Web only	Web, API, Mobile, Database



Why Choose Ellithium?

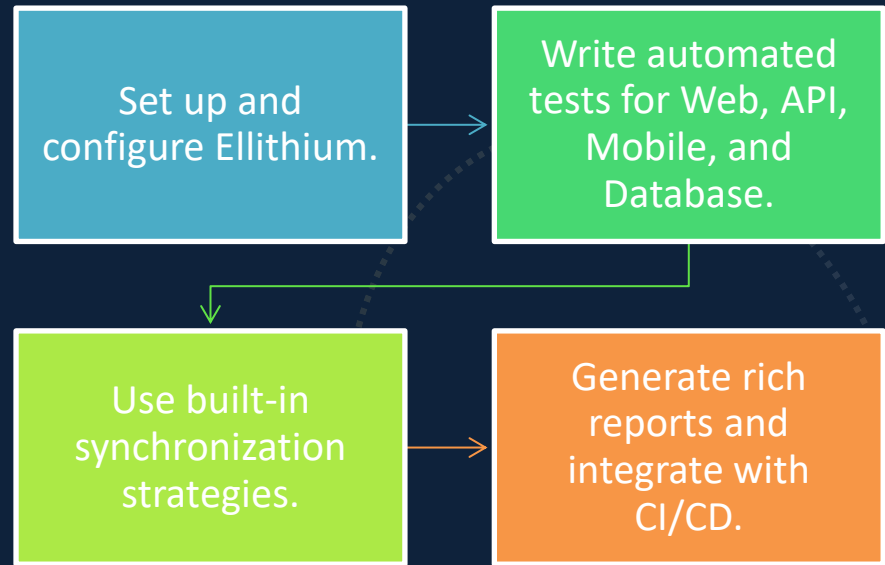
Easy to use and beginner-friendly.

Flexible for various testing needs.

Reliable with built-in synchronization.

Scalable for growing projects.

Course Objectives



Prerequisites

Basic knowledge of
Java.

Familiarity with
Maven for
dependency
management.

An IDE like IntelliJ
for coding.

What's Next?

- Setting up Ellithium: Prerequisites and installation.
- Creating your first project with Ellithium.
- Writing and running your first test.

Questions?

- Feel free to ask questions.
- Let's get started with Ellithium!