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Kotlin Test-Driven Development (2 days)

Course overview

Kotlin has emerged as a popular language for implementing object-oriented solutions for multiple target platform. The importance of testing Kotlin code thoroughly is clear. This course takes a thorough look at how to achieve this by using the Kotest library. You will learn how to write good tests, how to do so in a test-driven manner, and how to make best use of the power and flexibility afforded by the Kotest API.

What you'll learn

- Creating tests using Kotest
- Using assertions and Kotest matchers
- Adopting a test-driven approach to development
- Using stubs and mock objects
- TDD techniques
- Kotest techniques

Prerequisites

- Comfortable with Kotlin programming

Course details

- [Getting Started with Testing](#): Setting the scene; Writing tests using JUnit 5; Writing tests using Kotest; Understanding Kotest spec syntax
- [Unit Testing Essentials](#): Defining unit tests; Best practices; Testing for exceptions
- [Kotest Matchers](#): A closer look at standard Kotest matchers; Defining custom matchers
- [Organising Tests](#): Nested tests; Isolation modes; Lifecycle hooks; Additional techniques
- [Managing Test Execution](#): Ordering tests; Tagging tests; Test factories
- [Test-Driven Development](#): Effective test-driven development; Refactoring techniques; Types of tests; Data-driven tests; Property-based tests
- [Test Doubles](#): Making code testable; Overview of test doubles; Using stubs; Using mocks