

#### SPRING FRAMEWORK



# JUnit (5)

## Introduction to JUnit 5

#### JUnit 5

- Started as a project called JUnit Lambda
  - Crowdfunding campaign in 2015 raised €54,000
  - Corporate Sponsors include Pivotal and American Express
- First GA Release September 10th, 2017

## Why JUnit 5?

- JUnit 4 Originally Released in February 2006
  - Java 6 Released in December 2006
- ~12 Minor Releases since 2006
- Significant changes to Java Language
- Still the de facto standard for Java unit testing

## Why JUnit 5?

- JUnit 5 leverages new features of Java 8
  - Lambda Expressions
  - Streams
  - Java 8 or Higher is required
- Designed for better integration and extensibility

## JUnit Vintage

- Optional JUnit 5 Library
- Provides a test runner for JUnit 3 and 4 tests using JUnit 5
  - Allows easy migration to JUnit 5

## Key Differences from JUnit 4

JUnit 4	JUnit 5
@Test(expected = Foo.class)	Assertions.assertThrows(Foo.class
@Test(timeout = 1)	Assertions.assertTimeout(Duration
@RunWith(SpringJUnit4ClassRunner.class)	@ExtendWith(SpringExtension.class)

#### New Annotations

JUnit 4	JUnit 5
@Before	@BeforeEach
@After	@AfterEach
@BeforeClass	@BeforeAll
@AfterClass	@AfterAII
@lgnored	@Disabled
@Category	@Tag

#### JUnit in this Course

- Most of the Spring Framework 5: Beginner to Guru course was developed using JUnit 4
  - JUnit 4 is still highly popular
  - TON of legacy code using JUnit 4
- JUnit 5 is introduced in the Spring Pet Clinic Project
- For the foreseeable future, you can expect both to be used

## Specialized Testing Spring Course

- Currently considering a deep dive course on Testing Spring
- Cover In-depth:
  - JUnit 4 & 5, Mockito
  - Spock
  - Test Containers
- Please comment if interested!



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