**JUnit 5 notes**

Spring Boot projects with versions >= 2.2.0 use JUnit 5 by default.

| **Description** | **JUnit 4** | **JUnit 5** |
| --- | --- | --- |
| Test Annotation Changes | @Before @After @BeforeClass @AfterClass @Ignore | @BeforeEach @AfterEach @BeforeAll @AfterAll @Disabled |
| Use @ExtendWith instead of @RunWith | @RunWith(SpringJUnit4ClassRunner.class) @RunWith(MockitoJUnitRunner.class) | @ExtendWith(SpringExtension.class) @ExtendWith(MockitoExtension.class) |
| Package changes to org.junit.jupiter | org.junit.Test; org.junit.Assert.\*; | org.junit.jupiter.api.Test; org.junit.jupiter.api.Assertions.\*; |
| @RunWith is NOT needed with @SpringBootTest, @WebMvcTest, @DataJpaTest | @RunWith(SpringRunner.class) @SpringBootTest(classes = DemoApplication.class) | @SpringBootTest(classes = DemoApplication.class) |

**JUnit 5 Upgrades For Different Projects**

* JPA - <https://github.com/in28minutes/jpa-with-hibernate/commit/0ae2007c8e08420e6d5ab2a86499274c7c60c8ae>
* Unit Testing with Spring Boot - <https://github.com/in28minutes/spring-unit-testing-with-junit-and-mockito/commit/2c6df429aec248d455b7ad19e60e90743979ba1c>
* Spring Framework - <https://github.com/in28minutes/spring-master-class/commit/60b61500f8f80517ef86d50e7dffb5826b2b3720>

**pom.xml changes**

Spring Boot projects with versions >= 2.2.0 use JUnit 5 by default. You should see something like this in your pom.xml

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-test</artifactId>

<scope>test</scope>

<exclusions>

<exclusion>

<groupId>org.junit.vintage</groupId>

<artifactId>junit-vintage-engine</artifactId>

</exclusion>

</exclusions>

<dependency>