Testing with Maven

Maven failSafe plugin -> integration testing
Maven
Maven surefire plugin -> unit testing

Using maven surefire for pojo tests:

Apply @Test over method in Junit 4 testing...

For Junit 5 -> jupiter junit, junit engine (mainly responsible for running the tests) dependencies.

To run junit 3 and 4 in junit 5 we have to add vintage dependency. We should also have junit 4 dependency alongside.

Spock -> needs groovy and junit for build.
Want Spock-core dependency that matches or lower than groovy dependency.
Does BDD (behaviour driven development)
It compiles down to junit 4 byte code.

testNG -> there is also maven surefire report plugin which ties into the site builds. It generates surefire-reports containing txt and xml files describing about tests and their results. We can also see in index.html file of site folder of target folder.

Integration Tests:

After unit tests we can have Failsafe plugin to run integration testing. Look for Test classes ending with
IT, ITCase, or starting with IT

M2 -> milestone (not stable) release.

The default phase does not include by default the integration tests of the Maven. Failsafe plugin is not included by default.

Integration test comes under verify stage.
First surefire runs and then failsafe runs.

To get build info then you can run spring-boot:build-info plugin which will generate build-info.properties in META-INF which we can access at http://localhost:8080/actuator/info