

51. RUNNING CUCUMBER TESTS IN PARALLEL?

There are couple options on how to make Cucumber + JUnit framework run in parallel

1. There is a plugin **cucumber-jvm-parallel-plugin**

<https://github.com/temyers/cucumber-jvm-parallel-plugin>

- This plugin automatically generates multiple cukes runner files.
- Based on the configuration, this plugin creates one cukes runner per feature file.
- Each runner will point to one feature file. and these cukes runners will run in parallel.
- Normally cucumber runs feature files one after another. when we use this plugin, it runs starts them at the same time. we can specify how many tests running at the same time

2. Cucumber 4.x parallel option

Starting from cucumber 4.0, cucumber supports parallelization natively.

<https://cucumber.io/blog/2018/09/24/announcing-cucumber-jvm-4-0-0>

By official documentation, in order to run tests in parallel, we have to add parallel option to the maven surefire plugin in pom file.

```
<build>
  <plugins>
    <plugin>
      <artifactId>maven-surefire-plugin</artifactId>
      <configuration>
        <parallel>both</parallel>
        <threadCount>4</threadCount>
      </configuration>
    </plugin>
  </plugins>
</build>
```

But in my specific project, we added maven failsafe plugin to make sure that tests continue to execute even though some fail. This plugin makes sure that tests keep running

```
<plugins>
  <plugin>
    <groupId>org.apache.maven.plugins</groupId>
    <artifactId>maven-failsafe-plugin</artifactId>
    <version>2.18</version>
    <configuration>
      <testFailureIgnore>true</testFailureIgnore>
      <skipTests>false</skipTests>
      <includes>
        <include>**/runners/*TestRunner.java</include>
      </includes>
    </configuration>
  </plugin>
</plugins>
```