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# Selenium Java Training - Session 31 - Cucumber and BDD (Part 3)

### 1. Regular Expressions - [a-zA-Z]{1,} , [^\\]\* and .\*

- Demonstrate [a-zA-Z]{1,}
- Right click on the 'bcPack' and create a new Feature File say 'softwaretester.feature' - [Click here for scenarios](#)
- Implement step definitions for the above feature steps:
  - Optimize the created step definitions by parameterizing the tests
    - Provide circular brackets around the above expression
    - Represent the words in " " and update the above expression with \"
- Demonstrate [^\\]\* and .\* in the same above example

### 2. Generating HTML Report

- Provide the below statement in Runner Class, to generate an html report
  - @CucumberOptions(plugin={"html:target/cucumber\_html\_report"})

### 3. Organizing the feature files , step definitions and Runner class

- Create a new folder under the Project with name say "features" and move all the feature files created so far into this folder
- Create a new package under the 'src/test/java' with name say "stepdefinitions" and move all the step defection Java classes under it
- Create a new package under the 'src/test/java' with name say "runner" and move the Runner.java class under it
- Run the Runner.java class and observe that it cant locate features files and won't be able to execute them.
- To overcome this problem, update the @CucumberOptions in the Runner.java Class with features and glue attributes as shown below:
  - @CucumberOptions(plugin={"html:target/cucumber\_html\_report"}, features="features", glue="stepdefinitions")

### 4. Cucumber Tags

- Tags are used to group the Scenarios into different categories
- Tags start with @
- Provide @SmokeTest tag only for the first scenario in search.feature file and first scenario in softwaretester.feature file
- Provide @All tag for all the scenarios in all the feature files
- Now provide specific tags like @Books, @Baby, @GoodTester, @AverageTester, @BadTester and @OmayoLogin with respective scenarios in the feature file
- Tags can be categorized as Default tags and Custom tags
- Examples for Default tags which are used as standard tags are @Dev, @Ignore and @wip
- Examples for Custom tags are @Books, @Baby, @GoodTester, @AverageTester, @BadTester and @OmayoLogin
- Provide @Ignore tag for Average Tester scenario in softwaretester.feature file

Update the @CucumberOptions tag for Baby scenario in search.feature file

Update the @CucumberOptions tag for Bad Tester scenario in softwaretester.feature

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Update the @CucumberOptions in the Runner.java Class with tags attributes as shown

Below, for only executing the @SmokeTest tagged scenarios:

- @CucumberOptions(plugin={"html:target/cucumber\_html\_report"}, features="features", glue="stepdefinitions", **tags={"@SmokeTest"}**)
- Update the @CucumberOptions in the Runner.java Class with tags attributes as shown below, for executing all the scenarios:
  - @CucumberOptions(plugin={"html:target/cucumber\_html\_report"}, features="features", glue="stepDefination", **tags={"@All"}**)
- Update the @CucumberOptions in the Runner.java Class with tags attributes as shown below, for executing a scenario which is specific to Books:
  - @CucumberOptions(plugin={"html:target/cucumber\_html\_report"}, features="features", glue="stepDefination", **tags={"@Books"}**)
- Update the @CucumberOptions in the Runner.java Class with tags attributes as shown below, for executing the scenario specific to @Books or @Baby (**ORed case**)
  - @CucumberOptions(plugin={"html:target/cucumber\_html\_report"}, features="features", glue="stepDefination", **tags={"@Books,@Baby"}**)
- Update the @CucumberOptions in the Runner.java Class with tags attributes as shown below, for executing the scenarios specified with both @SmokeTest or @Books (**ANDed case**)
  - @CucumberOptions(plugin={"html:target/cucumber\_html\_report"}, features="features", glue="stepDefination", **tags={"@SmokeTest","@Books"}**)
- Update the @CucumberOptions in the Runner.java Class with tags attributes as shown below, for executing all the scenarios except @Dev, @wip and @Ignore tagged scenarios
  - @CucumberOptions(plugin={"html:target/cucumber\_html\_report"}, features="features", glue="stepDefination", **tags={"@All","~@Dev","~@wip","~@Ignore"}**)

## 5. Cucumber **Comments**

- In feature files, comments can be provided any where by starting the statements with # symbol
- Comments are for documentation purpose and won't be executed
- Example: Go to 'search.feature' file and provide a comment stating #This is how Background keyword can be used in the feature files

## 6. Using **monochrome** attribute in Cucumber options of Runner class - Example: monochrome=true

- Uninstall ANSI Escape plugin
- Run the scripts and see how the results are displayed in console
- Now add the attribute monochrome as true into the cucumber options

## 7. Using **pretty** in Cucumber options of Runner class - Example: plugin={"pretty"}

1. Install ANSI Escape plug-in
2. Remove monochrome
3. Prints the Gherkin source with additional colors and stack traces for errors in the Eclipse Output console.





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