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Regular Expressions (Cucumber BDD - Part 19)

- Regular Expressions (Regex) are used to check whether the search pattern is available in the given string
  - Pattern: .*Arun.*
  - String: My name is Arun Motoori
- Pattern.matches("regular expression","input text");
  - Pattern.matches(".*Arun.* ","My name is Arun Motoori");
  - Other two ways to write'
    - Practical Demonstration
- List of regular expressions
  - java
    - Only matches with java text, but won't match with Java
  - [Jj]ava
    - Matches with either Java or java
  - ye[sp]
    - Matches with either yes or yep
  - [sfk]it
    - Matches with sit or fit or kit
  - .ava
    - . for single character or anything
  - [0-9]am
    - Matches with 9am or 5am, but won't match with sam
  - [a-z]et
    - Matches with set or let, but won't match with 9et
  - [A-Z]et
    - Matches with Set or Let, but won't match set or let or 9et
  - [a-zA-Z0-9]et
    - Matches with Set, set and 9et
  - [^0-9]et
    - Matches with set or let, but not with 9et
  - se[a-z]
    - Matches with sez, sem, set etc, but not with seZ or se9
  - s[^aeiou]t
    - Matches with sft, but not with set or sat or sit or sot or sut
  - \d
    - matches a digit and is equal to specifying [0-9]
    - Example: abc\defg

    - matches a non-digit and is equal to specifying [^0-9]
    - Example: abc\Defg
      - Accepts abcdefg and Rejects abc9efg
- \w
  - Matches a single word character and is equal to specifying [A-Za-z0-9_]
- \W
  - Matches a single non-word character and is equal to specifying [^A-Za-z0-9_]
- \s
  - Matches with any escape characters say \t \n \f \r
  - Short form for [\t\n\x0B\f\r]
- \S
  - Short form for [^\s]
- ^My
  - Starts with My
- Arun$
  - Ends with Arun
- A..n
  - . matches any character except newline
- ^My.*Arun$
  - Starts with My and Ends with Arun
  - * repeats the . expression 0 or any number of times in this example
  - MyArun is accepted
  - My name is Arun is accepted
- ^My.+Arun$
  - Starts with My and Ends with Arun
  - + repeats the . expression 1 or any number of times in this example
  - MyArun is not accepted
- ^My.?Arun$
  - Starts with My and Ends with Arun
  - ? repeats the . expression 0 or 1 number of times in this example
  - MyArun and My Arun are accepted, My name is Arun is not accepted
  - My name is Arun is not accepted
- ^My.{2}Arun$
  - Starts with My and Ends with Arun
  - {2} repeats the . expression exactly two times in this example
  - MyArun, My Arun are not accepted, My Arun is accepted
- Java|java
  - Accepts either Java or java
- [a-d[m-p]]
  - Both a to d and m to p will be matched here
- [a-z&&[def]]
  - Only d or e or f will match
- [a-z&&[^bc]]

    - a to z except b and c will match
  - [a-z&&[^m-p]]
    - a to z except m to p will match
  - b?at
    - bat or at will match
  - b+at
    - bat or bbat or bbbat will match
  - b*at
    - at or bat or bbat or bbbat will match
  - b{2}at
    - bbat will match
  - b{2,}at
    - bbat will match
  - b{2,4}at
    - bbat or bbbat or bbbbat matches

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