배우기

cucumber

#cucumber

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1:

." . Cucumber Cucumber " " . [Ruby (), Java Javascript]() . .

Cucumber BDD (Behavior-Driven Development) . BDD . .

Cucumber . . .

Cucumber Selenium PhantomJS . .

[https://cucumber.io/docs]() . Cucumber .

- : [https://relishapp.com/cucumber/cucumber-js/docs]()
- Ruby : [https://relishapp.com/cucumber/cucumber/docs]()

[https://relishapp.com/explore]() , Cucumber-JVM .

. , IDE , , .

Examples

Cucumber [Gherkin]() .

( ), . .

`Features` , . .

- /
  - .
  - atm.feature
  - .
- /
  - portfolio.feature
  - intraday.feature
- /
  - .
  - .

`Feature` `Scenarios` .

:

```
Feature: Documentation
As a StackOverflow user or visitor
I want to access the documentation section

    Scenario: search documentation on Stack Overflow
        Given I am on StackOverflow
        And I go to the Documentation section
        When I search for "cucumber"
```

```
        And I follow the link to "cucumber"
        Then I should see documentation for "cucumber"
```

Given , *When* , *And* , *But* *Then*   `Step` .   .

`Tags` , `Feature` `Scenario`   .

(, , , C / C ++)   . `Step`   `Step Definitions` (*StepDef*   ) . .

`Step`   `Step Definition` .

`Feature`   `Scenario` ., `Scenario` `Step`   StepDef .

Ruby   Cucumber   .

```
gem install cucumber
```

bundler   Gemfile

```
gem 'cucumber'
```

.

```
bundle install
```

[Installation .   .   .]

Ruby

features / step_definitions / documentation.rb .

```
When /^I go to the "([^"]+)" documentation$/ do |section|
  path_part =
    case section
      when "Documentation"
        "documentation"
      else
        raise "Unknown documentation section: #{section}"
    end
  visit "/documentation/#{path_part}/topics"
end

Then /^I should see the "([^"]+) documentation"$/ do |section|
  expect(page).to have_css('h2.doctag_title a', text: section)
end
```

.   .

Gherkin .   Cucumber .   .   .

`When`   ("") URL   .   . `visit`   (Capybara) . Capybara ,   . `visit`   Capybara   URL .

Then `.expect` / `to` RSpec (, ,). `have_css` `have_css` . CSS . .

`" "`.

: https://riptutorial.com/ko/cucumber/topic/4875/-

2: Intellij

IntelliJ IDEA Cucumber Cucumber IntelliJ Gherkin   IDE . Java, Scala Groovy .
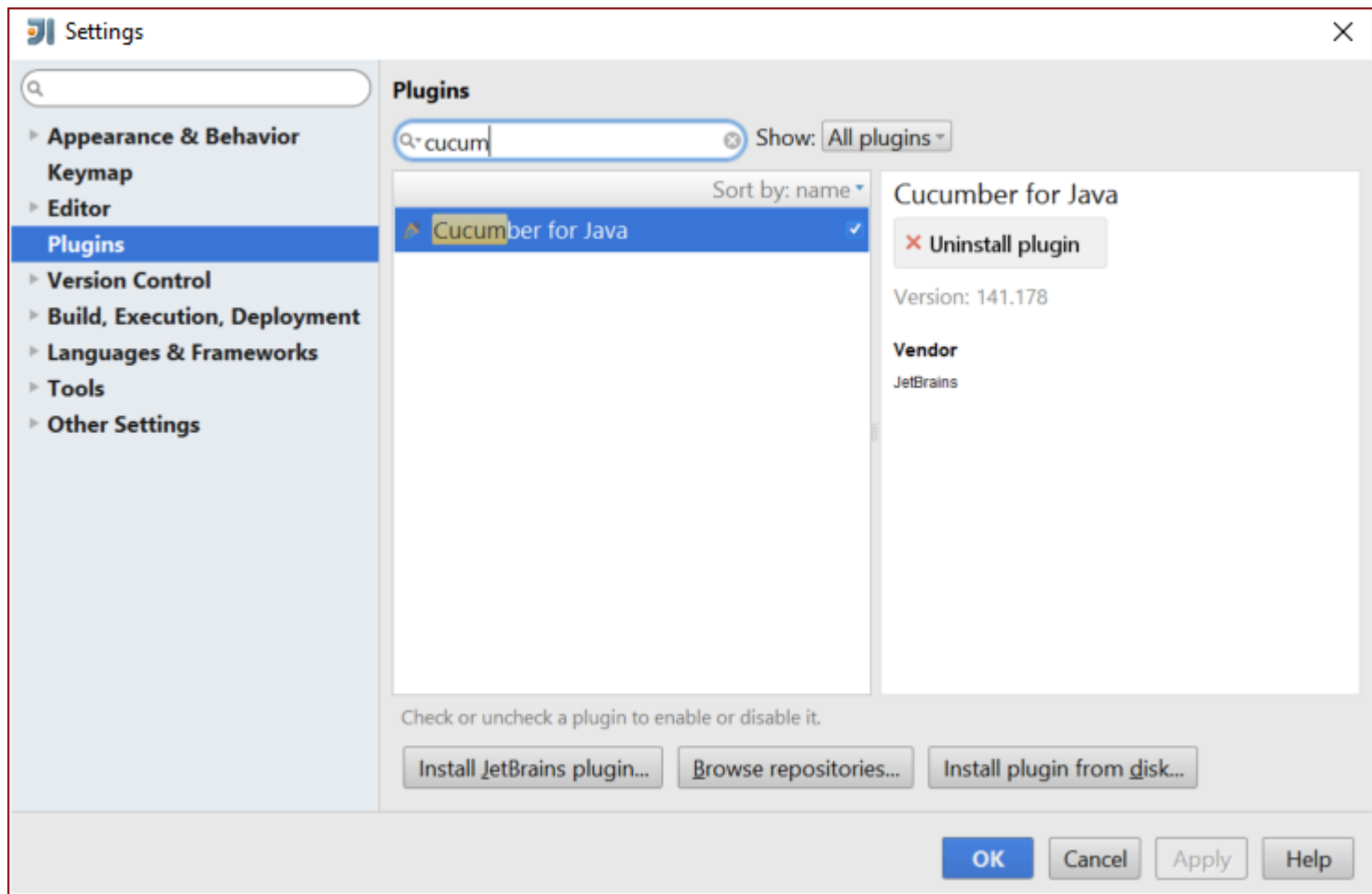
Cucumber for Java IntelliJ Cucumber   IDE .

- Gherkin
- Gherkin
- Step-to-glue
- " ".feature Gherkin

.

Examples

Cucumber Plugin

-> -> -> ->

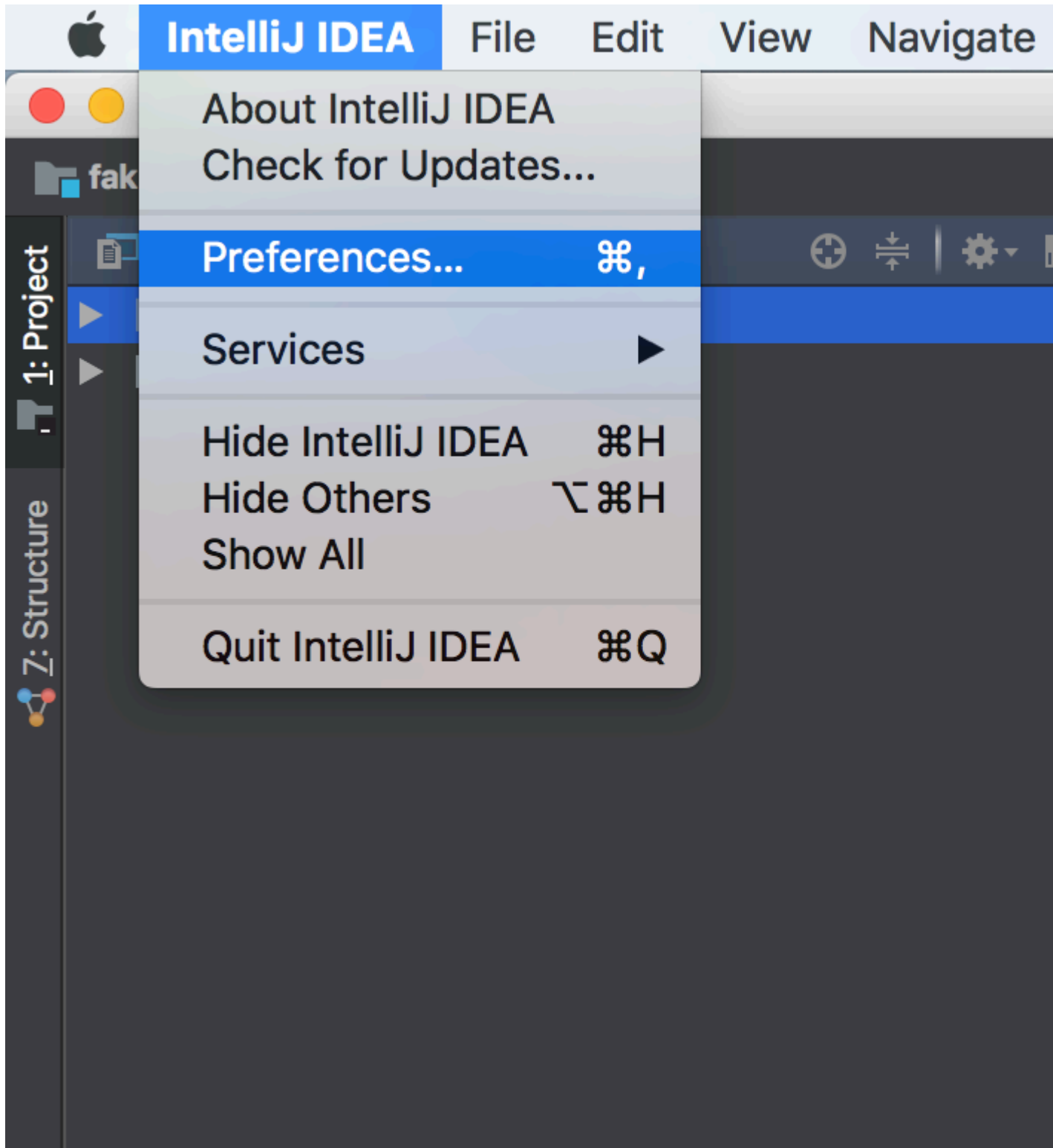**IntelliJ Cucumber for Java Plugin (Mac)**

Mac IntelliJ Java Plugin for Cucumber ,

---

1. IntelliJ IDEA .
2. "IntelliJ IDEA" .

3. " " .
4. /   "" .
5. " "   .
6. "Cucumber" .

fake

Project

Q

▶ Appearance & Behavior

Keymap

▶ Editor

Plugins

▶ Version Control

▶ Build, Execution, Deployment

▶ Languages & Frameworks

▶ Tools

▶ Other Settings
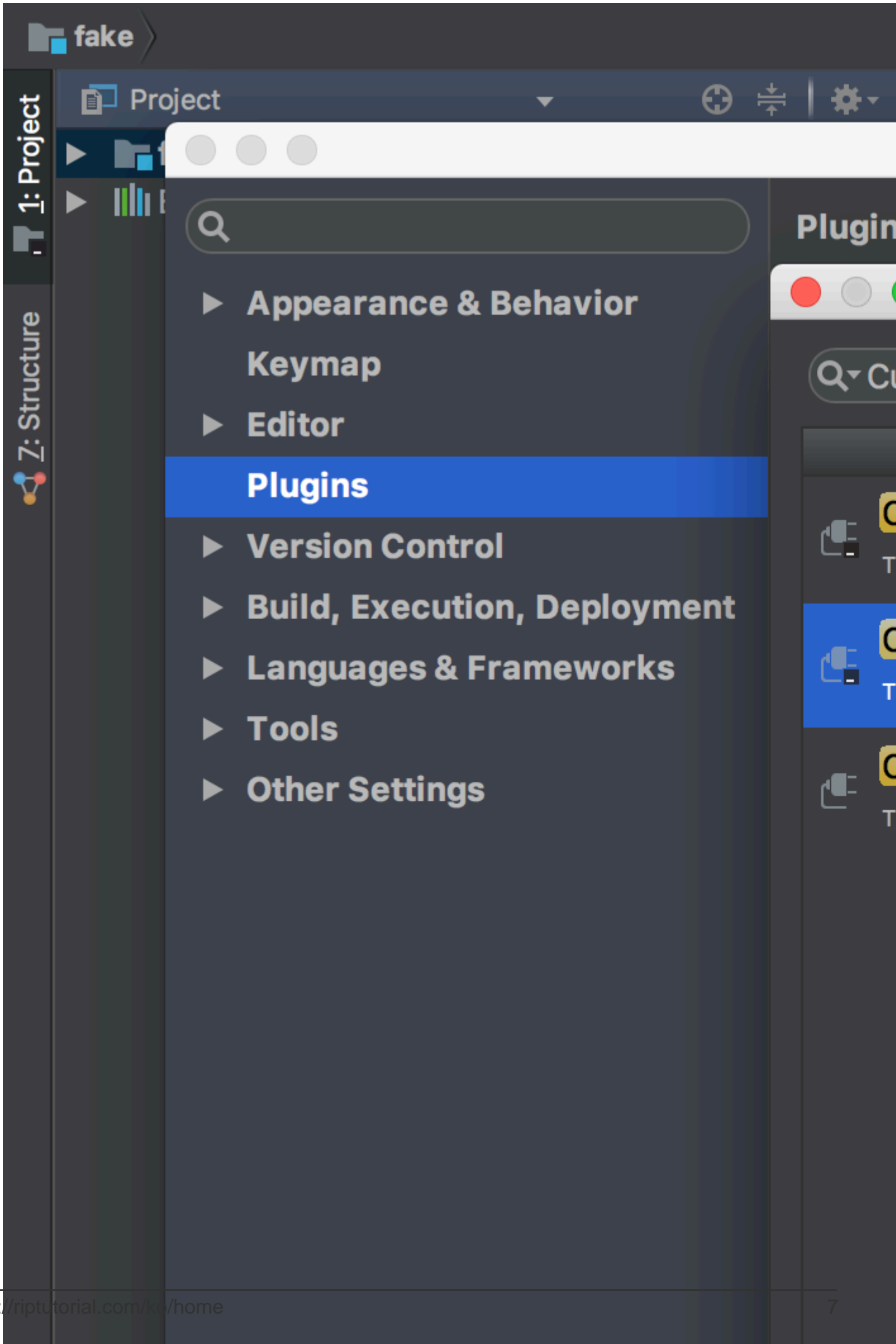
7. "Cucumber for Java" .
8. IDE . Cucumber for Java .

fake

1: Project

2: Structure

Plugin

Pro

f

E

Appearance & Behavior

Keymap

Editor

Plugins

Version Control

▼ Build, Execution, Deployment

▶ Build Tools

▼ Compiler

Excludes

Java Compiler

Annotation Processors

Validation

RMI Compiler

Groovy Compiler

Android Compilers

Kotlin Compiler

▶ Debugger

Coverage

3: Maven_ cucumber   pom.xml.

pom.xml .   maven

Examples

pom.xml

```
<?xml version="1.0" encoding="UTF-8"?>
```

4.0.0

```
<groupId>Project name</groupId>
<artifactId>MulitClients</artifactId>
<version>1.0-SNAPSHOT</version>


<dependencies>
    <dependency>
        <groupId>junit</groupId>
        <artifactId>junit</artifactId>
        <version>4.11</version>
        <scope>test</scope>
    </dependency>
    <dependency>
        <groupId>info.cukes</groupId>
        <artifactId>cucumber-core</artifactId>
        <version>1.2.0</version>
        <scope>test</scope>
    </dependency>
    <dependency>
        <groupId>info.cukes</groupId>
        <artifactId>cucumber-testng</artifactId>
        <version>1.2.0</version>
    </dependency>
    <dependency>
        <groupId>info.cukes</groupId>
        <artifactId>cucumber-junit</artifactId>
        <version>1.2.0</version>
        <scope>test</scope>
    </dependency>
    <dependency>
        <groupId>info.cukes</groupId>
        <artifactId>cucumber-java</artifactId>
        <version>1.2.0</version>
        <scope>test</scope>
    </dependency>
    <dependency>
        <groupId>info.cukes</groupId>
        <artifactId>gherkin</artifactId>
        <version>2.12.2</version>
        <scope>test</scope>
    </dependency>
    <dependency>
        <groupId>org.seleniumhq.selenium</groupId>
```

```
        <artifactId>selenium-java</artifactId>
        <version>2.53.0</version>
        <scope>test</scope>
    </dependency>
    <dependency>
        <groupId>org.seleniumhq.selenium</groupId>
        <artifactId>selenium-firefox-driver</artifactId>
        <version>2.53.0</version>
        <scope>test</scope>
    </dependency>
    <dependency>
        <groupId>org.seleniumhq.selenium</groupId>
        <artifactId>selenium-htmlunit-driver</artifactId>
        <version>2.53.0</version>
        <scope>test</scope>
    </dependency>
    <dependency>
        <groupId>org.yaml</groupId>
        <artifactId>snakeyaml</artifactId>
        <version>1.13</version>
    </dependency>
    <dependency>
        <groupId>com.esotericsoftware.yamlbeans</groupId>
        <artifactId>yamlbeans</artifactId>
        <version>1.06</version>
    </dependency>


</dependencies>
```

Maven_ cucumber   pom.xml. : https://riptutorial.com/ko/cucumber/topic/8331/maven--cucumber---pom-xml-

4:

Cucumber   .   Cucumber API   .

Examples

features / step_definitions / documentation.rb .

```
When /^I go to the "([^"]+)" documentation$/ do |section|
  path_part =
    case section
      when "Documentation"
        "documentation"
      else
        raise "Unknown documentation section: #{section}"
    end
  visit "/documentation/#{path_part}/topics"
end

Then /^I should see the "([^"]+) documentation"$/ do |section|
  expect(page).to have_css('h2.doctag_title a', text: section)
end
```

.   .

Gherkin .   Cucumber .   .   .

When   ("") URL   .   . visit (Capybara) . Capybara ,   . visit Capybara   URL .

Then   . expect / to RSpec (, ,). have_css have_css . CSS   .   .

: https://riptutorial.com/ko/cucumber/topic/5681/-

5:

(Gherkin) . .

- : .
- : .
- : .
- : N .
- : .
- : . Arrange, Act, Assert "Arrange" .
- When : when when . Arrange, Act, Assert "Act" .
- : , . Arrange, Act, Assert "Assert" .
- : . , Given " A B" .

Examples

. .

.

- **:** .
- **:** .
- . Arrange, Act, Assert "Arrange" .
- , **.** Arrange, Act, Assert "Act" .
- , . Arrange, Act, Assert "Assert" .
- . , Given " A B" .
- **Given** , **When** and **Then** . B. .

Gherkin . Feature Scenario . , , , .

. . , .

```
Feature: Product Login
    As a user, I would like to be able to use my credentials to successfully
    login.

    Rules:
    - The user must have a valid username
    - The user must have a valid password
    - The user must have an active subscription
    - User is locked out after 3 invalid attempts
    - User will get a generic error message following
      login attempt with invalid credentials

    Scenario: The user successfully logs in with valid credentials
        This scenario tests that a user is able to successfully login
        provided they enter a valid username, valid password, and
        currently have an active subscription on their account.

        Given the user is on the login page
```

```
        When the user signs in with valid credentials
        Then the user should be logged in
```

Gherkin . . (**:** "CucumberException : Arity mismatch" throw .) as .

```
Feature: Product Login
    As a user, I would like to be able to use my credentials to successfully
    login.

    Rules:
    - The user must have a valid username
    - The user must have a valid password
    - The user must have an active subscription
    - User is locked out after 3 invalid attempts
    - User will get a generic error message following
      login attempt with invalid credentials

    Scenario: The user successfully logs in with valid credentials
        This scenario tests that a user is able to successfully login
        provided they enter a valid username, valid password, and
        currently have an active subscription on their account.

        Given the user is on the login page
        When the user signs in with "valid" credentials
        Then the user should be logged in

    Scenario: The user attempts to log in with invalid credentials
        This scenario tests that a user is not able to log in when
        they enter invalid credentials

        Given the user is on the login page
        When the user signs in with "invalid" credentials
        Then the user should be logged in

    Scenario: The user is locked out after too many failed attempts
        This scenario validates that the user is locked out
        of their account after failing three consecutive
        attempts to log in

        Given the user is on the login page
        When the user fails to log in 3 times
        Then the user should be locked out of their account
```

.

```
Given the user is on the login page
```

. . : **:** .

background . . . (:) .

```
Feature: Product Login
    As a user, I would like to be able to use my credentials to successfully
    login.

    Rules:
    - The user must have a valid username
```

```
    - The user must have a valid password
    - The user must have an active subscription
    - User is locked out after 3 invalid attempts
    - User will get a generic error message following
      login attempt with invalid credentials

    Background: The user starts out on the login page
        Given the user is on the login page

    Scenario: The user successfully logs in with valid credentials
        This scenario tests that a user is able to successfully login
        provided they enter a valid username, valid password, and
        currently have an active subscription on their account.

        When the user signs in with "valid" credentials
        Then the user should be logged in

    Scenario: The user attempts to log in with invalid credentials
        This scenario tests that a user is not able to log in when
        they enter invalid credentials

        When the user signs in with "invalid" credentials
        Then the user should be logged in

    Scenario: The user is locked out after too many failed attempts
        This scenario validates that the user is locked out
        of their account after failing three consecutive
        attempts to log in

        When the user fails to log in 3 times
        Then the user should be locked out of their account
```

. Gherkin   . :. Cucumber   .   .   .   .   .

```
Feature: Product Login
    As a user, I would like to be able to use my credentials to successfully
    login.

    Rules:
    - The user must have a valid username
    - The user must have a valid password
    - The user must have an active subscription
    - User is locked out after 3 invalid attempts
    - User will get a generic error message following
      login attempt with invalid credentials

    Background: The user starts out on the login page
        Given the user is on the login page

    Scenario Outline: The user successfully logs in with their account
        This scenario outlines tests in which various users attempt
        to sign in successfully

        When the user enters their <username>
        And the user enters their <password>
        Then the user should be successfully logged on

        Examples:
        | username | password |
        | frank    | 1234     |
```

```
          | jack    | 4321     |
```

. . Gherkin . Feature "@Automation" . Gherkin "@" . QA .

@Production . . . .

@Staging . . @Production Staging .

, . , .

```
@Automation
Feature: Product Login
    As a user, I would like to be able to use my credentials to successfully
    login.

    Rules:
    - The user must have a valid username
    - The user must have a valid password
    - The user must have an active subscription
    - User is locked out after 3 invalid attempts
    - User will get a generic error message following
      login attempt with invalid credentials

    Background: The user starts out on the login page
        Given the user is on the login page

    Scenario: The user successfully logs in with valid credentials
        This scenario tests that a user is able to successfully login
        provided they enter a valid username, valid password, and
        currently have an active subscription on their account.

        When the user signs in with "valid" credentials
        Then the user should be logged in

    Scenario: The user attempts to log in with invalid credentials
        This scenario tests that a user is not able to log in when
        they enter invalid credentials

        When the user signs in with "invalid" credentials
        Then the user should be logged in

    @Production
    Scenario: The user is locked out after too many failed attempts
        This scenario validates that the user is locked out
        of their account after failing three consecutive
        attempts to log in

        When the fails to log in 3 times
        Then the user should be locked out of their account

    @Staging
    Scenario Outline: The user successfully logs in with their account
        This scenario outlines tests in which various users attempt
        to sign in successfully

        When the user enters their <username>
        And the user enters their <password>
        Then the user should be successfully logged on
```

```
        Examples:
        | username | password |
        | frank    | 1234     |
        | jack     | 4321     |
```

- .
- .
-
- .
-
- .
- .
-
- .
- " ".

:

6:

QTP Selenium   .   .   .   .

Gherkin   .feature .   .

Examples

/ documentation.feature :

```
Feature: Documentation

  Scenario: User views documentation
    When I go to the "Cucumber" documentation
    Then I should see the "Cucumber" documentation
```

Feature Line When , Then Gherkin   Scenario .

.

```
Scenario Outline: As a homemaker i want to buy and pay for the below product
  Given I purchase <a product>
    And I require a carry bag to take things to home
  When I pay bill using <payment method> to successfully checkout
  Then I should have a receipt

Examples:
| a product     | payment method |
|  Cake         | Visa           |
|  Coke         | Paypal         |
```

```
Feature: Some terse yet descriptive text of what is desired
     Textual description of the business value of this feature
     Business rules that govern the scope of the feature
     Any additional information that will make the feature easier to understand

Background:
    Given some precondition needed for all scenarios in this file
        And another precondition

Scenario: Some determinable business situation
  Textual description of the business value of this scenario
  Business rules that govern the scope of the scenario
  Any additional information that will make the scenario easier to understand
    Given some precondition
      And some other precondition
    When some action by the actor
      And some other action
      And yet another action
    Then some testable outcome is achieved
      And something else we can check happens too
      But something else we can check does not happen
```

```
Scenario Outline: Some determinable business situation
    Given I am <precondition>
        And some other precondition
    When some action by the actor
    Then I have <outcome> rights

Examples:
    | precondition | outcome  |
    | username1    | customer |
    | username2    | admin    |
```

.

- Feature: | Ability: | Business Need:
- Scenario Outline: | Scenario Template:
- Examples: | Scenarios:
- Given | When | Then | And | But | * |

: https://riptutorial.com/ko/cucumber/topic/6023/

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