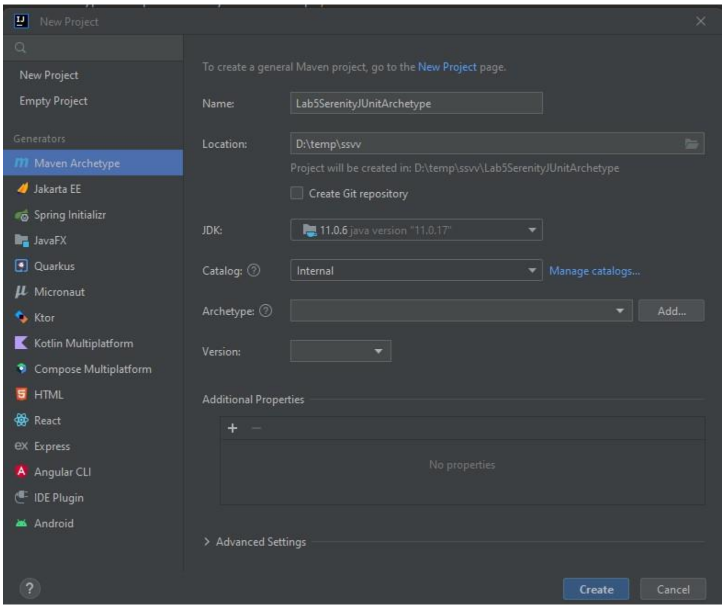
Tutorial Web UI Automation
serenity-junit-archetype
Serenity + JUnit

1. Create Maven Project (serenity-junit-archetype)

- **IntelliJ → File → New → Project → Maven Archetype**
  - Create from archetype: **serenity-junit-archetype**



New Project

To create a general Maven project, go to the New Project page.

Name: Lab5SerenityJUnitArchetype

Location: D:\temp\ssvv

Project will be created in: D:\temp\ssvv\Lab5SerenityJUnitArchetype

☐ Create Git repository

JDK: 11.0.6 java version "11.0.17"

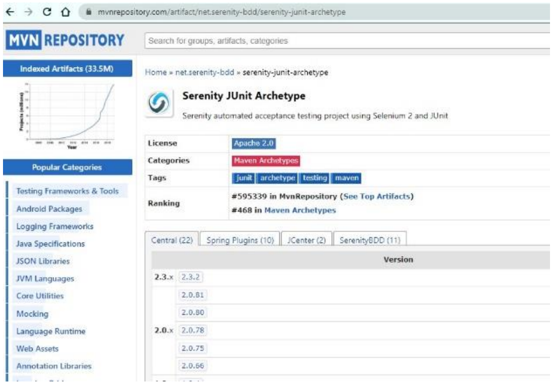
Catalog: Internal

Archetype:

Version:

Additional Properties

No properties



mvnrepository.com/artifact/net.serenity-bdd/serenity-junit-archetype

Home » net.serenity-bdd » serenity-junit-archetype

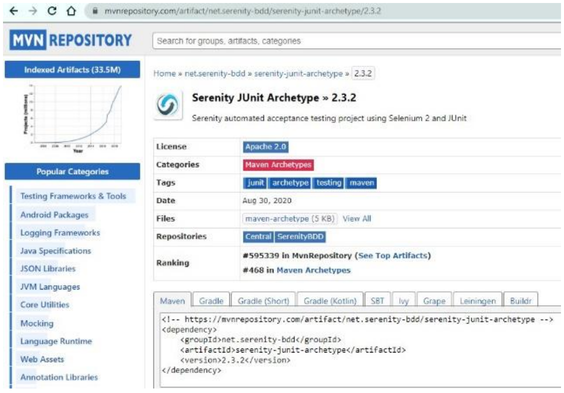
Serenity JUnit Archetype

Serenity automated acceptance testing project using Selenium 2 and JUnit

License	Apache 2.0
Categories	Maven Archetypes
Tags	junit archetype testing maven
Ranking	#595339 in MvnRepository (See Top Artifacts) #468 in Maven Archetypes

Central (22) | Spring Plugins (10) | JCenter (2) | SerenityBDD (11)

	Version
2.3.x	2.3.2
	2.0.81
	2.0.80
2.0.x	2.0.78
	2.0.75
	2.0.66



mvnrepository.com/artifact/net.serenity-bdd/serenity-junit-archetype/2.3.2

Home » net.serenity-bdd » serenity-junit-archetype » 2.3.2

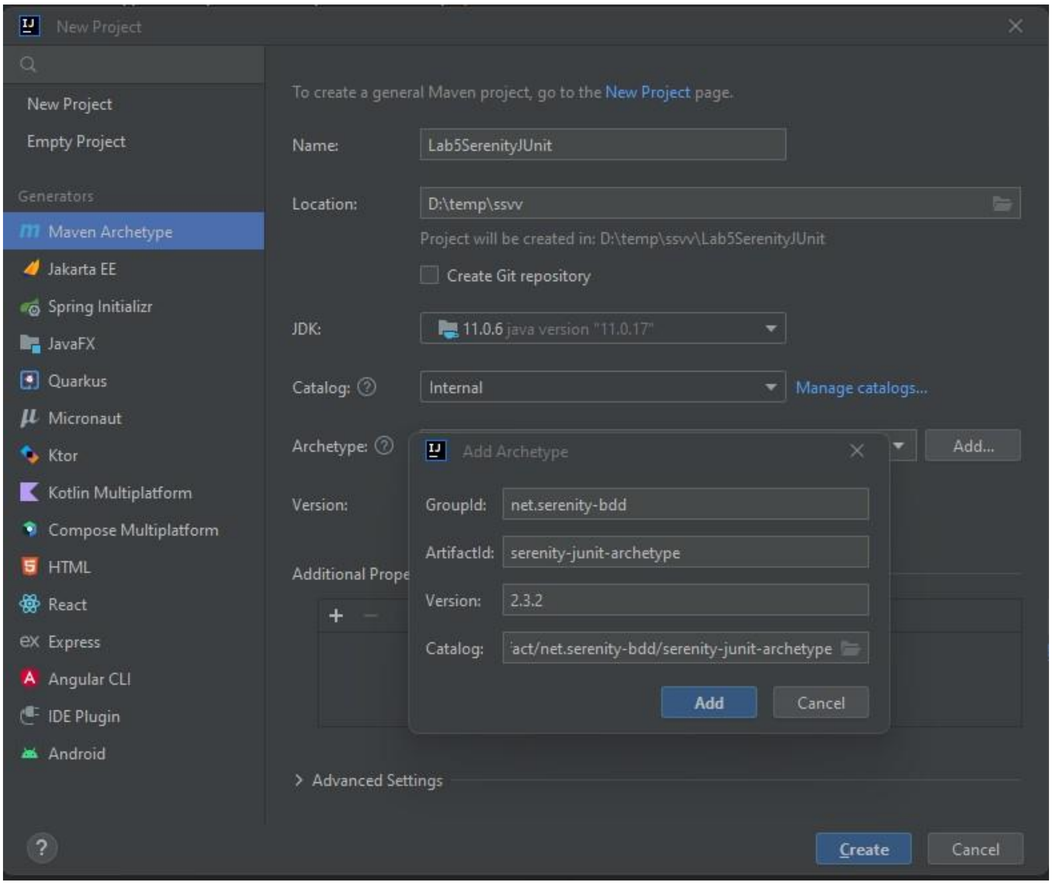
Serenity JUnit Archetype » 2.3.2

Serenity automated acceptance testing project using Selenium 2 and JUnit

License	Apache 2.0
Categories	Maven Archetypes
Tags	junit archetype testing maven
Date	Aug 30, 2020
Files	maven-archetype (5 KB) View All
Repositories	Central SerenityBDD
Ranking	#595339 in MvnRepository (See Top Artifacts) #468 in Maven Archetypes

Maven | Gradle | Gradle (Short) | Gradle (Kotlin) | SBT | Ivy | Grape | Leiningen | Buildr

```
<!-- https://mvnrepository.com/artifact/net.serenity-bdd/serenity-junit-archetype -->
<dependency>
    <groupId>net.serenity-bdd</groupId>
    <artifactId>serenity-junit-archetype</artifactId>
    <version>2.3.2</version>
</dependency>
```



To create a general Maven project, go to the New Project page.

Name: Lab5SerenityJUnit

Location: D:\temp\ssvv

Project will be created in: D:\temp\ssvv\Lab5SerenityJUnit

□ Create Git repository

JDK: 11.0.6 java version "11.0.17"

Catalog: Internal

Archetype:

Version:

Add Archetype

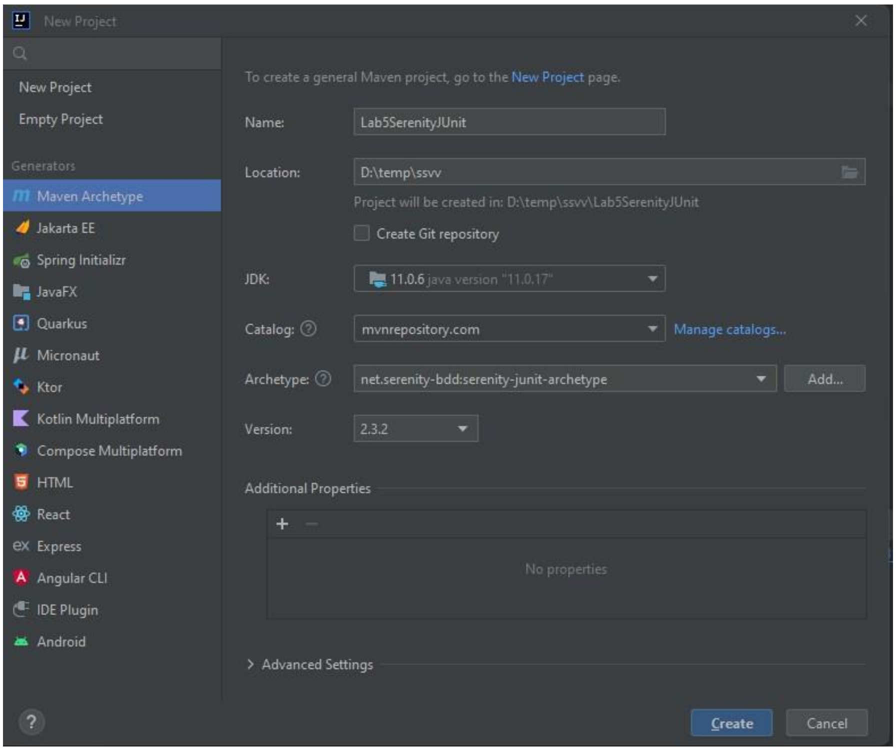
GroupId: net.serenity-bdd

ArtifactId: serenity-junit-archetype

Version: 2.3.2

Catalog: act/net.serenity-bdd/serenity-junit-archetype

Add Cancel



To create a general Maven project, go to the New Project page.

Name: Lab5SerenityJUnit

Location: D:\temp\ssvv

Project will be created in: D:\temp\ssvv\Lab5SerenityJUnit

□ Create Git repository

JDK: 11.0.6 java version "11.0.17"

Catalog: mvnrepository.com

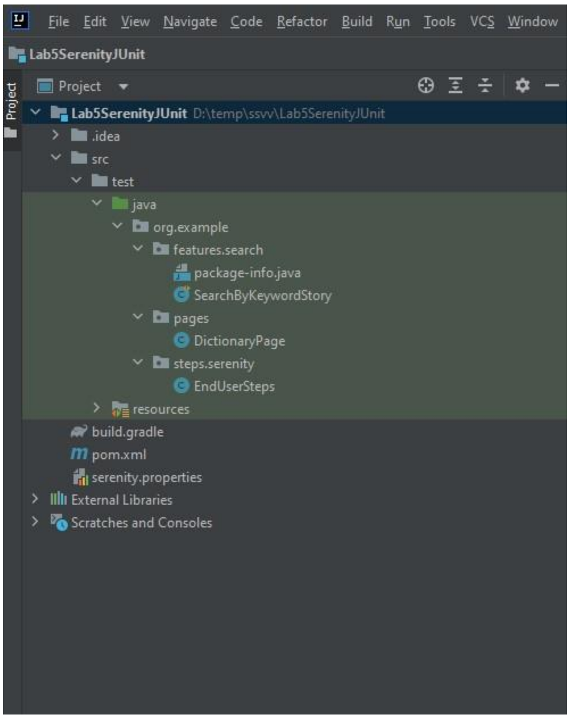
Archetype: net.serenity-bdd:serenity-junit-archetype

Version: 2.3.2

Additional Properties

No properties

- The Maven project will have the following structure



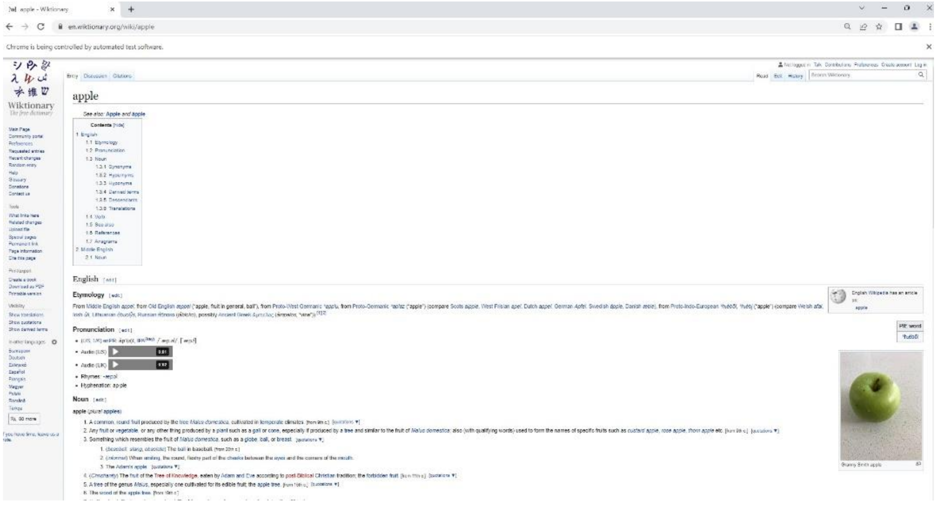
File Edit View Navigate Code Refactor Build Run Tools VCS Window
Lab5SerenityJUnit
Project

```
Lab5SerenityJUnit D:\temp\ssvv\Lab5SerenityJUnit
  .idea
  src
    test
      java
        org.example
          features.search
            package-info.java
            SearchByKeywordStory
          pages
            DictionaryPage
          steps.serenity
            EndUserSteps
      resources
  build.gradle
  pom.xml
  serenity.properties
External Libraries
Scratches and Consoles
```

2. Setting to run with headless mode to false

In file serenity.properties change t the headless.mode= true to false.Run as JUnit test

- In ProjectExplorer- Right-click on a TestCase (e.g. **SearchByKeywordStory)** and select Run
- The Chrome browser is opened and the definitions for "pear" and "apple" are searched.



Chrome is being controlled by automated test software.

apple

See also: Apple and apple

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1.3.5 Descendants
1.3.6 Translations
1.4 Verb
1.5 See also
1.6 References
1.7 Anagrams
2 Middle English
2.1 Noun

English [edit]

Etymology [edit]

From Middle English appel, from Old English æppel ("apple, fruit in general, ball"), from Proto-West Germanic *applu, from Proto-Germanic *aplaz ("apple") (compare Scots aipple, West Frisian apel, Dutch appel, German Apfel, Swedish äpple, Danish æble), from Proto-Indo-European *h₂ébōl, *h₂ebj ("apple") (compare Welsh afal, Irish úll, Lithuanian obuolỹs, Russian я́блоко (jábloko), possibly Ancient Greek ἄμπελος (ámpelos, "vine")).

Pronunciation [edit]

- (US, UK) enPR: ăp'əl, IPA: /ˈæp.əl/, [ˈæpɫ]
- Audio (US)
- Audio (UK)
- Rhymes: -æpəl
- Hyphenation: ap‧ple

Noun [edit]

apple (plural apples)

1. A common, round fruit produced by the tree Malus domestica, cultivated in temperate climates. [from 9th c.] [quotations ▼]
2. Any fruit or vegetable, or any other thing produced by a plant such as a gall or cone, especially if produced by a tree and similar to the fruit of Malus domestica; also (with qualifying words) used to form the names of specific fruits such as custard apple, rose apple, thorn apple etc. [from 9th c.] [quotations ▼]
3. Something which resembles the fruit of Malus domestica, such as a globe, ball, or breast. [quotations ▼]
    1. (baseball, slang, obsolete) The ball in baseball. [from 20th c.]
    2. (informal) When smiling, the round, fleshy part of the cheeks between the eyes and the corners of the mouth.
    3. The Adam's apple. [quotations ▼]
4. (Christianity) The fruit of the Tree of Knowledge, eaten by Adam and Eve according to post-Biblical Christian tradition; the forbidden fruit. [from 11th c.] [quotations ▼]
5. A tree of the genus Malus, especially one cultivated for its edible fruit; the apple tree. [from 15th c.] [quotations ▼]
6. The wood of the apple tree. [from 19th c.]

English Wikipedia has an article on: apple

PIE word *h₂ébōl

Granny Smith apple

3. Obtaining the documentation for the executed test cases

[Option 1]

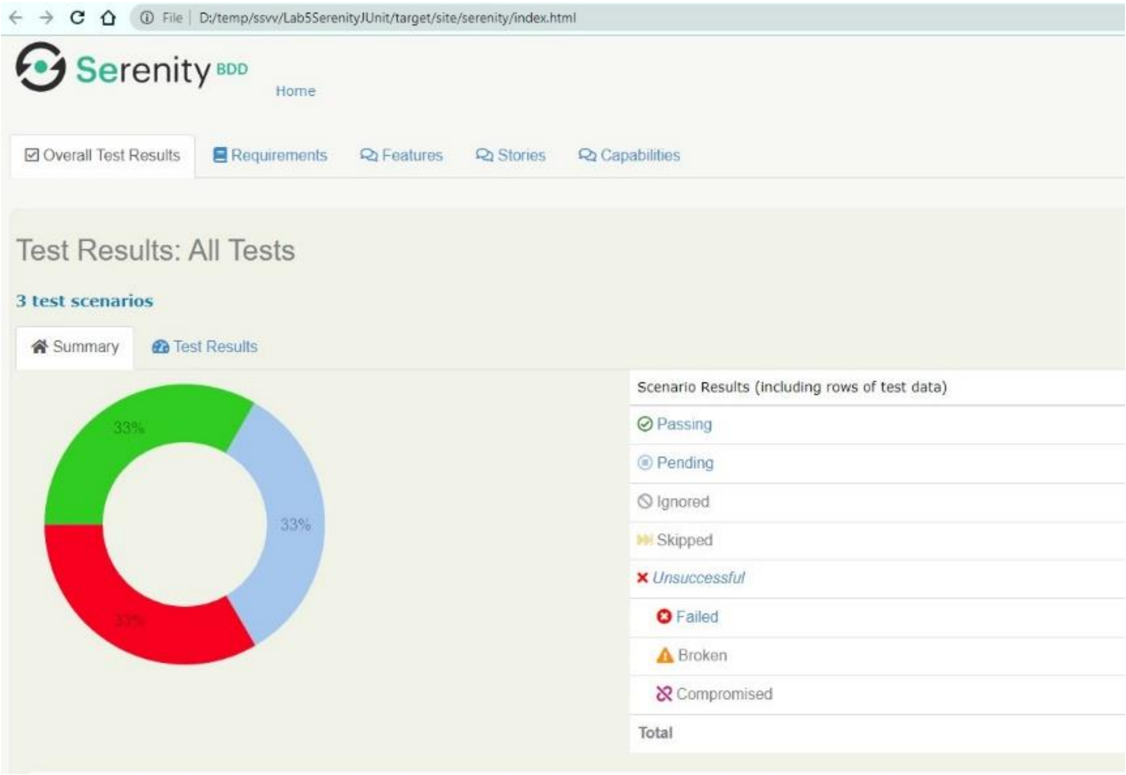
- **IntelliJ → View →Tool Windows →Maven**
- Select *Lifecycle*-> the “verify” option
- the generated report will be saved in the project folder in \target\ site\serenity;
- open index.html

[Option 2]

- click **Start** and open a Command prompt window with **cmd**
- Remark: execute the command from the project directory
- ...>mvn serenity:aggregate
- The generated report will be saved in the folder **\target\site\serenity**

4. Viewing the Serenity report

- in the project directory ...\target\site\serenity\index.html



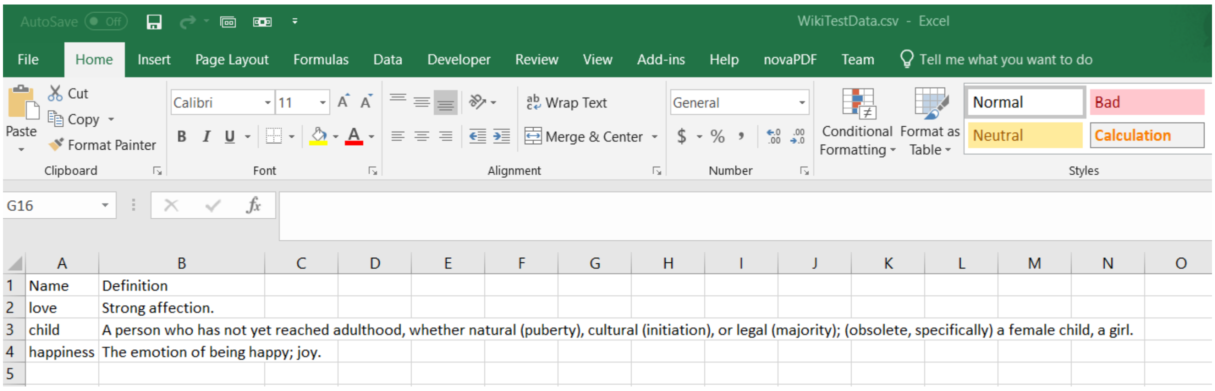
Test Results: All Tests

3 test scenarios

Scenario Results (including rows of test data)
Passing
Pending
Ignored
Skipped
Unsuccessful
Failed
Broken
Compromised
Total

5. Test Data Driven - data for test from csv file

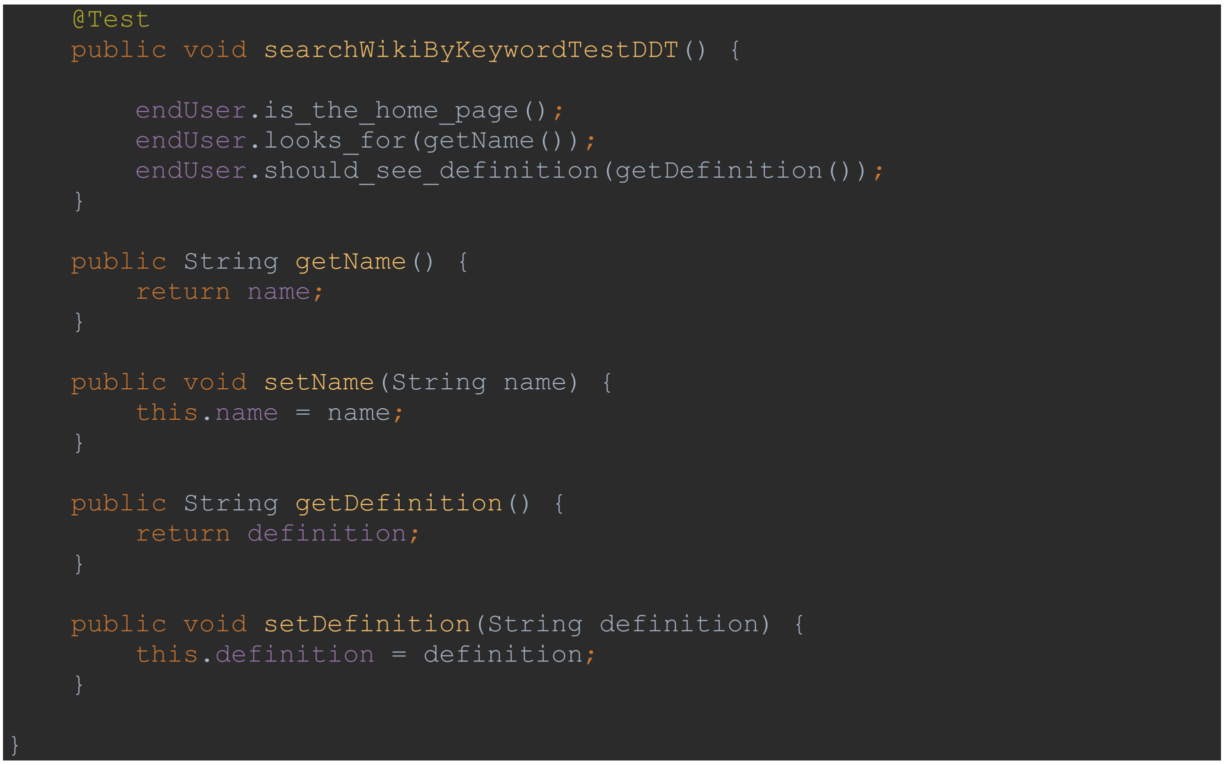
- create the csv file *WikiTestData.csv* with the content:
    - first line indicate the structure of the table with input data
- next lines contain input data for individual test cases.



	A	B
1	Name	Definition
2	love	Strong affection.
3	child	A person who has not yet reached adulthood, whether natural (puberty), cultural (initiation), or legal (majority); (obsolete, specifically) a female child, a girl.
4	happiness	The emotion of being happy; joy.
5		

- add the csv file to the src/test/resources directory
- add a new class to run with Ddt with Parameterized Runner (see the class below)
- run (see Section 3 of the current document)
- obtaining documentation (see Section 4 of the current document)
- view the serenity report (see Section 5 of the current document)

```
package org.example.features.search;

import net.serenitybdd.junit.runners.SerenityParameterizedRunner;
import net.thucydides.core.annotations.Issue;
import net.thucydides.core.annotations.Managed;
import net.thucydides.core.annotations.Steps;
import net.thucydides.junit.annotations.Qualifier;
import net.thucydides.junit.annotations.UseTestDataFrom;
import org.example.steps.serenity.EndUserSteps;
import org.junit.Test;
import org.junit.runner.RunWith;
import org.openqa.selenium.WebDriver;

@RunWith(SerenityParameterizedRunner.class)
@UseTestDataFrom("src/test/resources/WikiTestData.csv")
public class SearchByKeywordStoryDDT {

    @Managed(uniqueSession = true)
    public WebDriver webdriver;


    @Steps
    public EndUserSteps endUser;

    public String name;
    public String definition;

    @Qualifier
    public String getQualifier() {
        return name;
    }


    @Issue("#WIKI-1")
```



```
    @Test
    public void searchWikiByKeywordTestDDT() {

        endUser.is_the_home_page();
        endUser.looks_for(getName());
        endUser.should_see_definition(getDefinition());
    }

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    public String getDefinition() {
        return definition;
    }

    public void setDefinition(String definition) {
        this.definition = definition;
    }

}
```

Test case class that is parametrized using a csv file