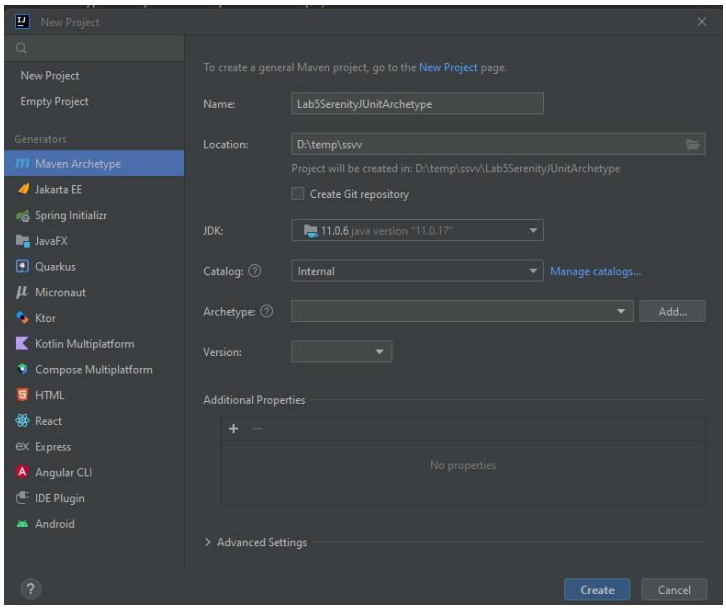
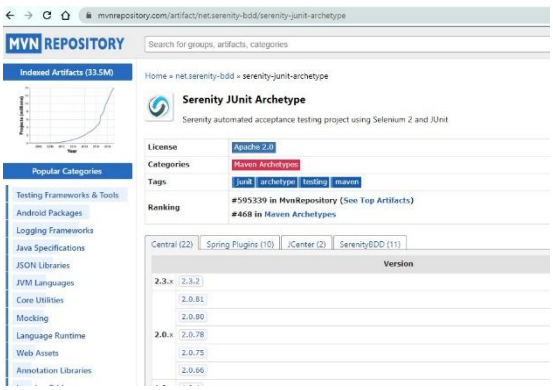
Tutorial Web UI Automation
serenity-junit-archetype
Serenity + JUnit

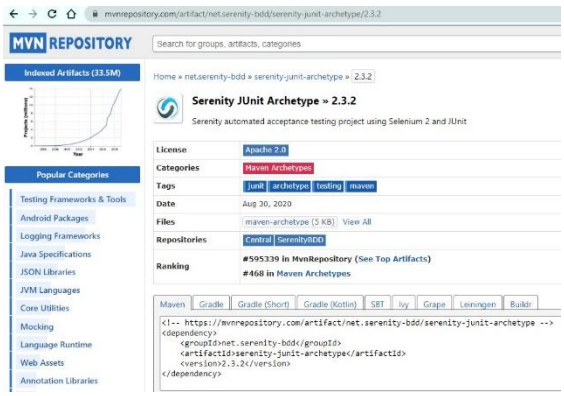
1. Create Maven Project (serenity-junit-archetype)

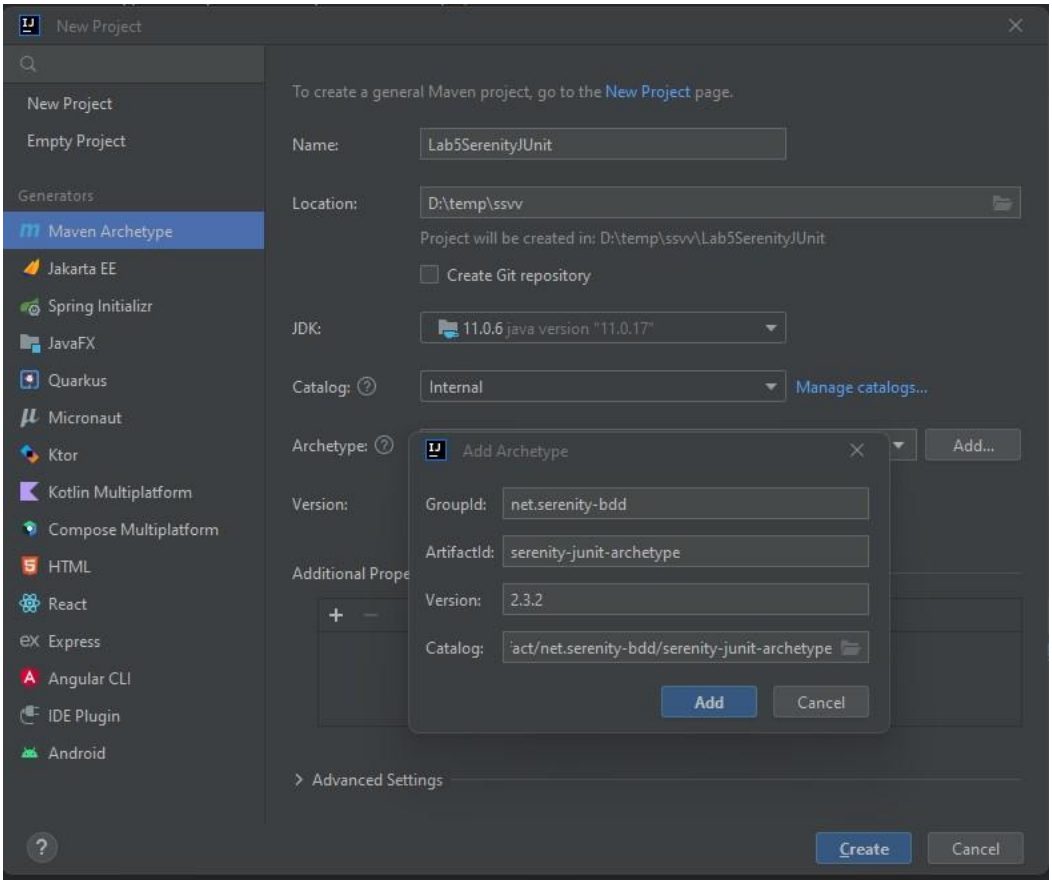
- **IntelliJ → File → New → Project → Maven Archetype**
  - Create from archetype: **serenity-junit-archetype**

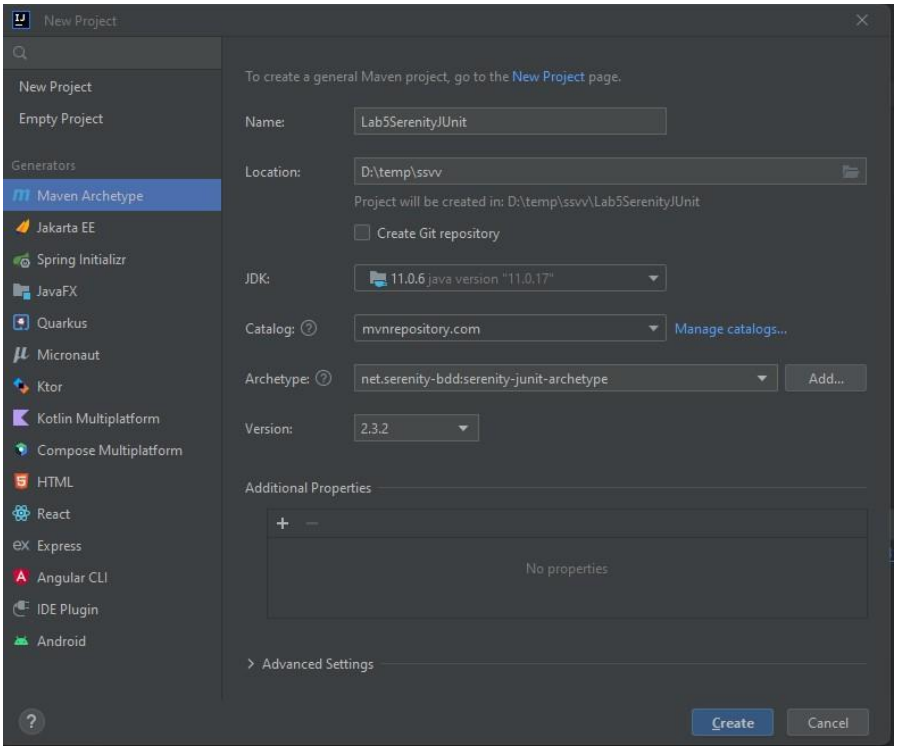


https://mvnrepository.com/artifact/net.serenity-bdd/serenity-junit-archetype/2.3.2






New Project
New Project
Empty Project
Generators
Maven Archetype
Jakarta EE
Spring Initializr
JavaFX
Quarkus
Micronaut
Ktor
Kotlin Multiplatform
Compose Multiplatform
HTML
React
Express
Angular CLI
IDE Plugin
Android
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
Manage catalogs...
Archetype:
Add...
Version:
Additional Prope
Add Archetype
GroupId: net.serenity-bdd
ArtifactId: serenity-junit-archetype
Version: 2.3.2
Catalog: act/net.serenity-bdd/serenity-junit-archetype
Add
Cancel
Advanced Settings
Create
Cancel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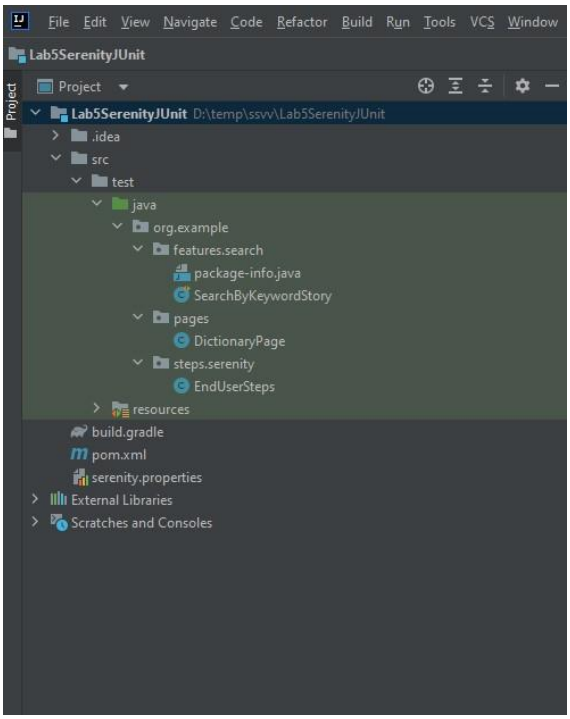
Catalog: mvnrepository.com
Manage catalogs...
Archetype: net.serenity-bdd:serenity-junit-archetype
Add...
Version: 2.3.2
Additional Properties
No properties
Advanced Settings
Create
Cancel

- The Maven project will have the following structure



2. Setting to run with headless mode to false

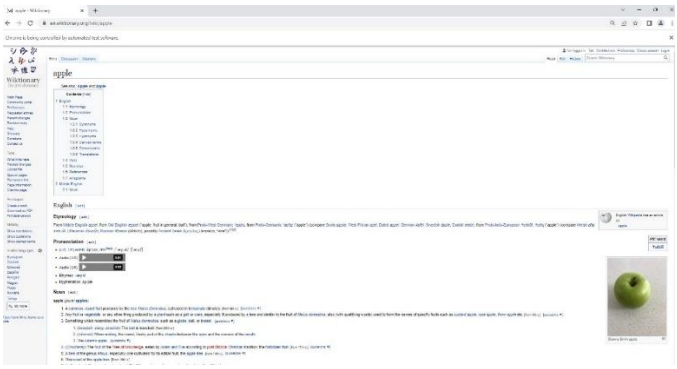
In file serenity.properties change t the headless.mode= true to false.Run as JUnit test

- 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.

Remarks: If if does not work, download the chromedriver.exe and place it in a directory at your choice and specify it in the file serenity.properties in the project.
https://googlechromelabs.github.io/chrome-for-testing/#stable

```
# Appears at the top of the reports
serenity.project.name = Demo Project using Serenity and JUnit
webdriver.autodownload = false
webdriver.driver = chrome
headless.mode = false

drivers {
    windows {
        webdriver.chrome.driver =
src/test/resources/webdriver/windows/chromedriver.exe
    }
}
```



3. Obtaining the documentation for the executed test cases

[Option 1]

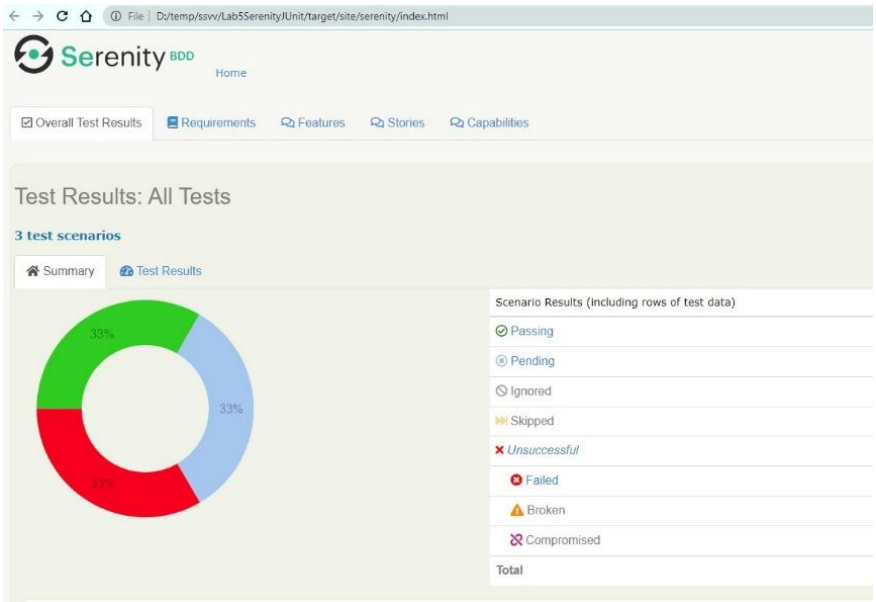
- **IntelliJ → View →Tool Windows →Maven**
- Select *Lifecycle*-> the "verify" option
- the generated report will be saved in the project folder in \target\ site\serenity;
- open index.html

[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**

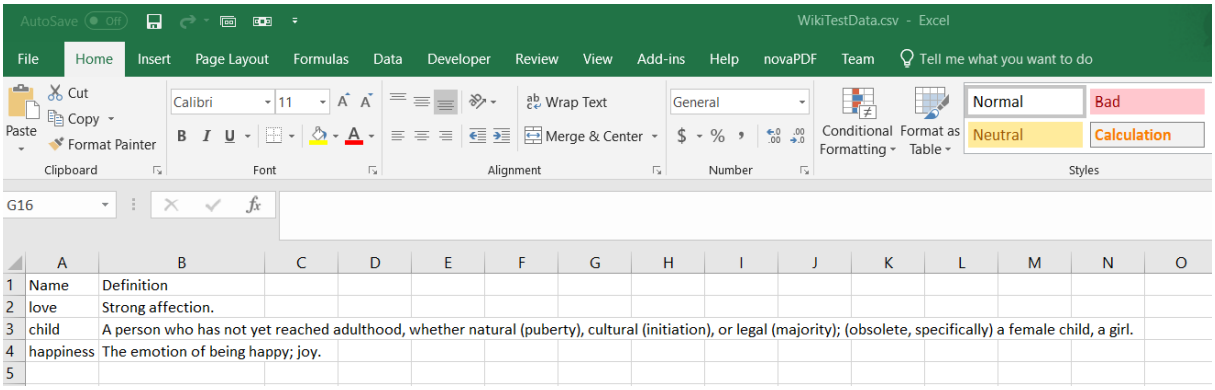
4. Viewing the Serenity report

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



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