

#### • What Serenity BDD?

- Serenity BDD is an open source test automation framework.
- It helps you to write better structured, more maintainable automated acceptance test.
- It also produced reach meaning full test reports that not only report test result but also it tells you what feature have been tested.
- Formally known as Thucydides (until Nov 2014). Serenity is adopted by many others organisation due to several of out of box features it offers.
- http://www.thucydides.info/#/

# **API Testing**



### **API Testing With Serenity BDD**

### • Why use Serenity BDD?

- It is integrated to work with many popular testing libraries like JUNIT, SELENIUM2, APPIUM, JBEHAVE, CUCUMBER etc.
- It also provide out of box feature for UI automation (i.e. WebDriver Handling, Synchronisation, Screenshots. Parallel testing, Data Driven Testing, Cross browser testing, logging etc.)
- It is integrated with Rest Assured to create API test automation without any hassle.
- It provides "AMAZING" reports!! (Reports are very good and lots of details provided in reports)



Property Reader Using Singleton Design Pattern

"The singleton pattern is a design pattern that restricts the instantiation of a class to one object."

Rules for Implementing singleton design pattern

- 1. Make the constructor private
- 2. Create a static method to get the instance
- 3. Create a static member variable
- Data Driven test model using the feature provided by the serenity BDD framework

@UseTestDataFrom("testdata/studentinfo.csv")
@RunWith(SerenityParameterizedRunner.class)

• Learn how to speed up a data driven test using the @Concurrent Annotation in Serenity BDD framework



#### Grouping Tests

"@WithTag and @WithTags"

### Execute tagged tests in Maven

**Single Tag:** -Dtags=studentfeature:SMOKE

#### **Multiple Tags:**

-Dtags = "studentfeature:SMOKE, studentfeature:POSITIVE"



Cucumber with Serenity BDD

Creating Scenario and Step Definitions

Creating Scenario Outline

• Execute tagged tests in Maven

"-Dcucumber.options=--tags @SMOKE"