

Testing task for Ryanair

Initial Requirements

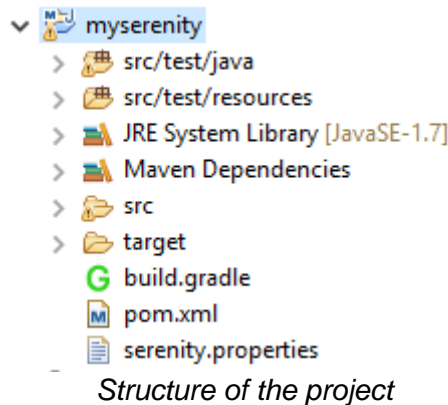
- JAVA 1.8
- MAVEN 3.2
- JUNIT 4.12

Setting up the project

First, the project is initialized using the next command :

```
mvn archetype:generate -Dfilter=net.serenity-bdd:serenity-cucumber-archetype
```

The project is created with a simple example used as a reference to create tests and features related to Ryanair Task.



- In src/test/java folder, there are JAVA files related to different pages and steps required by Serenity BDD.
- In src/test/resources folder, there are different scenarios and features.
- In target folder, tests results are located.

Explaining Source Code written in JAVA

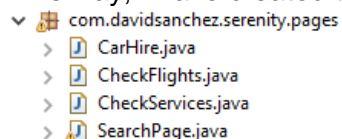
TestSuite

In order to run the tests with Serenity, I use the CucumberWithSerenity test runner. Since the feature files are not in the same package as the test runner class, I have also included the @CucumberOptions class to provide the root directory where the feature files can be found.

Pages using PageObject Pattern

I have used this pattern to differentiate components from every page and also to hide the WebDriver logic in "Page Objects".

This way, I have created these four pages:



Steps required by Cucumber

Here there is a translation from the features file to java language using the cucumber steps as you can see in **DefinitionSteps.java**.

Steps required by Serenity

Finally, here I define the breakdown of cucumber steps into serenity steps what will call the PageObjects as you can see in **EndUserSteps.java**.

Explaining Feature and different scenarios

Feature

Feature: Book a flight

In order to make a flight booking

As a customer

I want to search available flights

Scenario Outline: Selecting services

Given the user is on the search page

When the user enter origin: "<origin>", destination: "<destination>", departure date: "<dDate>", return date: "<rDate>", number of adults: "<nAdults>", number of teens: "<nTeens>", number of children: "<nChildren>", number of infants: "<nInfants>"

Then they should see the check flights page

Then the user enters passengers names with title "<title>", "<name>" and "<surname>", travel insurance "<insurance>"

Then they should see the car hire page

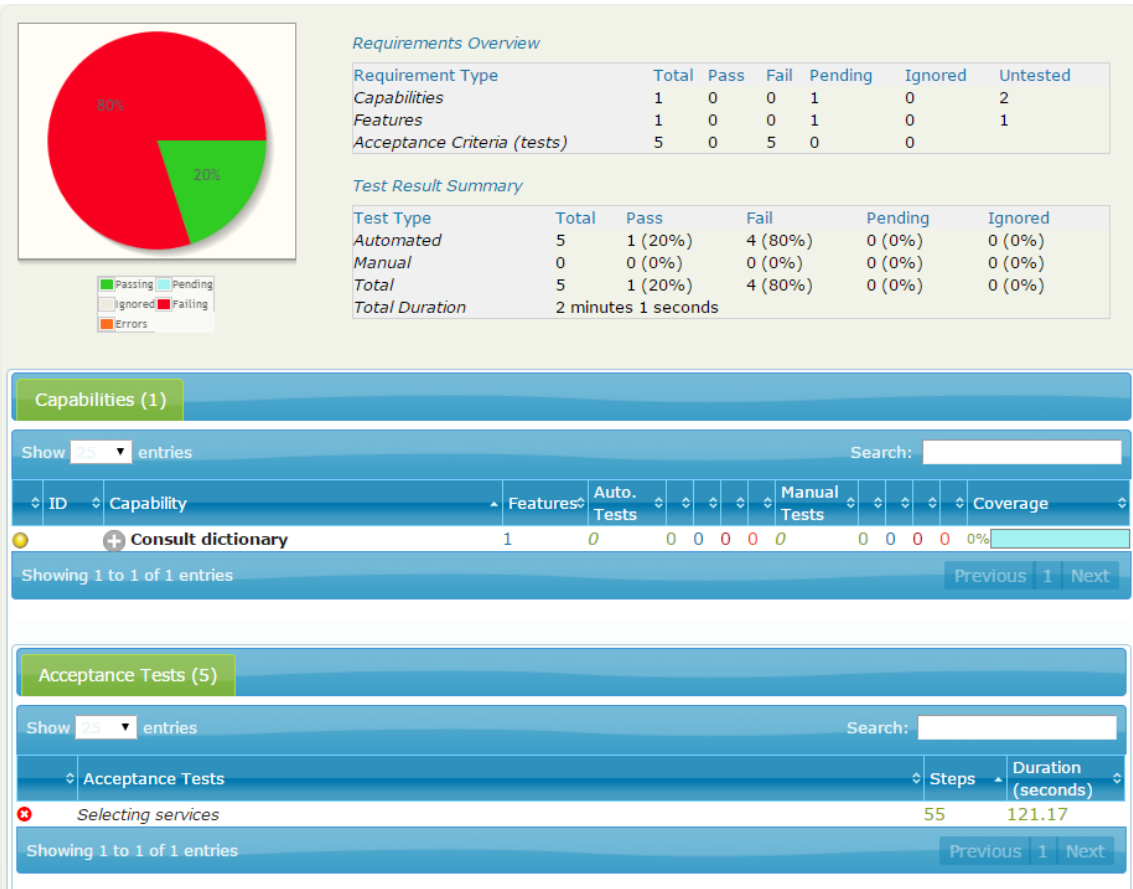
Examples:

origin	destination	dDate	rDate	nAdults	nTeens	nChildren	nInfants	title	name	surname	insurance
LNZ	TFS	10/12/2015	17/12/2015	0	0	5	0	MR	Pepe	Dragon	ZQ
LNZ	TFS	10/12/2015	17/12/2015	1	0	0	5	MRS	Sonia	Sanchez	GB
SZG	DUB	14/12/2015	21/12/2015	1	0	0	0	MR	Pepe	Dragon	ZQ
SZG	DUB	21/12/2015	14/12/2015	1	0	0	0	MR	Pepe	Dragon	ZQ
LNZ	TFS	10/12/2015	17/12/2015	1	0	0	0	MS	Cristina	Lopez	ES

As you can see I have defined a scenario with 5 examples.

The first 4 ones will fail because they don't satisfy Ryanair rules for passengers and the last will be the only successful.

Graphics and Test Results



Picture 1

Feature:

Book A Flight

In order to make a flight booking
As a customer
I want to search available flights

Selecting Services

Scenario:

Given the user is on the search page
When the user enter origin: "LNZ" ,destination: "TFS", departure date: "10/12/2015", return date: "17/12/2015",number of adults: "0",number of teens: "0",number of children: "5",number of infants: "0"
Then they should see the check flights page
Then the user enters passengers names with title "MR", "Pepe" and "Dragon", travel insurance "ZQ"
Then they should see the car hire page

Picture 2

Examples:

Show	25	entries	Search: <input type="text"/>								
Origin	Destination	Ddate	Rdate	Nadults	Nteens	Nchildren	Ninfants	Title	Name	Surname	Insurance
SZG	DUB	14/12/2015	21/12/2015	1	0	0	0	MR	Pepe	Dragon	ZQ
SZG	DUB	21/12/2015	14/12/2015	1	0	0	0	MR	Pepe	Dragon	ZQ
LNZ	TFS	10/12/2015	17/12/2015	0	0	5	0	MR	Pepe	Dragon	ZQ
LNZ	TFS	10/12/2015	17/12/2015	1	0	0	5	MRS	Sonia	Sanchez	GB
LNZ	TFS	10/12/2015	17/12/2015	1	0	0	0	MS	Cristina	Lopez	ES

Showing 1 to 5 of 5 entries

Previous

1

Next

Steps	Screenshot	Outcome	Duration
<div>[1] {origin=LNZ, destination=TFS, dDate=10/12/2015, rDate=17/12/2015, nAdults=0, nTeens=0, nChildren=5, nInfants=0, title=MR, name=Pepe, surname=Dragon, insurance=ZQ}</div>		FAILURE	22,89s
<div>[1] {origin=LNZ, destination=TFS, dDate=10/12/2015, rDate=17/12/2015, nAdults=1, nTeens=0, nChildren=0, nInfants=5, title=MRS, name=Sonia, surname=Sanchez, insurance=GB}</div>		FAILURE	17,84s
<div>[1] {origin=SZG, destination=DUB, dDate=14/12/2015, rDate=21/12/2015, nAdults=1, nTeens=0, nChildren=0, nInfants=0, title=MR, name=Pepe, surname=Dragon, insurance=ZQ}</div>		FAILURE	18,5s
<div>[1] {origin=SZG, destination=DUB, dDate=21/12/2015, rDate=14/12/2015, nAdults=1, nTeens=0, nChildren=0, nInfants=0, title=MR, name=Pepe, surname=Dragon, insurance=ZQ}</div>		FAILURE	18,75s
<div>[1] {origin=LNZ, destination=TFS, dDate=10/12/2015, rDate=17/12/2015, nAdults=1, nTeens=0, nChildren=0, nInfants=0, title=MS, name=Cristina, surname=Lopez, insurance=ES}</div>		SUCCESS	38,47s
FAILURE		121,17s	

Picture 3

How would I report the results?

Well, for reporting the results I can use graphics generated by serenity as shown in pictures above, adding some specific information about what is failing, why and possible solutions.

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