

API TEST AUTOMATION USING KARATE



Karate is a BDD testing framework instead of a TDD. The BDD syntax popularized by Cucumber is language-neutral and easy for even non-programmers.

Assertions and HTML reports are built-in, and you can run tests in parallel for speed.



1. SETUP

CREATE MAVEN PROJECT ADD THE KARATE-APACHE AND KARATE-JUNIT4 DEPENDENCY TO THE POM.XML

```
<dependency>
<groupId>com.intuit.karate
<artifactId>karate-apache</artifactId>
<version>0.6.0
</dependency>
<dependency>
<groupId>com.intuit.karate
<artifactId>karate-junit4</artifactId>
<version>0.6.0
                             <TESTRIG />
</dependency>
```



2. CREATE SCENARIOS IN A GHERKIN FEATURE FILE IN MAVEN PROJECT

<Scenario: Testing valid GET endpoint</p>

Given URL 'http://localhost:8097/user/get'

When method GET

Then status 200



3. VALIDATE RESPONSE IN FEATURE FILE

Scenario: Testing the exact response of a GET endpoint

Given URL 'http://localhost:8097/user/get'

When method GET

Then status 200

And match \$ == {id:"1234",name:"John Smith"}

Scenario: Testing a POST endpoint with request

body

Given url 'http://localhost:8097/user/create'

And request { id: '1234' , name: 'John Smith'}

When method POST

Then status 200

And match \$ contains {id:"#notnull"}





4. TEST RUN USING TEST RUNNER

```
import com.intuit.karate.junit4.Karate;
import org.junit.runner.RunWith;
@RunWith(Karate.class)
public class TestRunner {
}
```

5. TEST REPORT

Cucumber Report Features Tags Steps Failures

Features Statistics

The following graphs show passing and falling statistics for features



	Steps						Scenarios			Features	
Feature	Passed	Failed	Skipped	Pending	Undefined	Total	Passed	Failed	Total	Duration	Status
com/tesla/adcService/tests/sample.feature	166	0	0	0	0	166	2	0	2	30s 761ms	Passed
1	166	0	0	0	0	166	2	0	2	30s 761ms	
	100.00%	0.00%	0.00%	0.00%	0.00%		100.00%	0.00%			100.00%

