

## API Test for Music Track End Point (Manish Kumar)

As part of Submission of my Automation test, the automation task I completed on Java using Page object model on Cucumber BDD. I have divided all five test scenarios in two features files however, created on step Definition class only for both the features.

### **The project directory contains below:**

1. Feature Files (folder path: [src/test/resources/features](#))
  - SoundTrackAPI-Scenario1-2. Feature //scenarios 1 & 2
  - SoundTrackAPI-Scenario3-4-5. Feature // scenarios 3,4 & 5
2. Runner class " [TestRunner\\_.java](#)" :: Folder path: [src/test/java/Runner/](#)
  - The runner class is used to run the automation using Junit
3. "Hooks.java" class inside folder: [src/test/java/stepDefs/](#)
  - This class has the basic code to send the request and extract the response.
4. Step Definition Class "StepDef\_MusicTrack.java": Folder path: [src/test/java/stepDefs/](#)
  - This is test class corresponding to the feature files, implemented BDD given when then steps.
5. Page class "MusicAPIPg.java" Folder path: [src/main/java/APIPages/](#)
  - This page folder and the page class created to have a separate java class for each API, this page class has functions/code for the step definition class.
6. "PropertyFileReader.java" class inside folder: [src/main/java/utility/](#)
  - This class is being used to read the data from property file.
7. "config.properties" file under folder: [src/main/resources/](#)
  - This file has URL constant, the idea to have separate property file is to segregation of hard code string/constants.
8. "Pom.xml" inside project root directory, contains all maven dependencies.
  - Use to build / run and clean project.
  - Contains details of all the dependencies.

9. HTML /Json Reports:

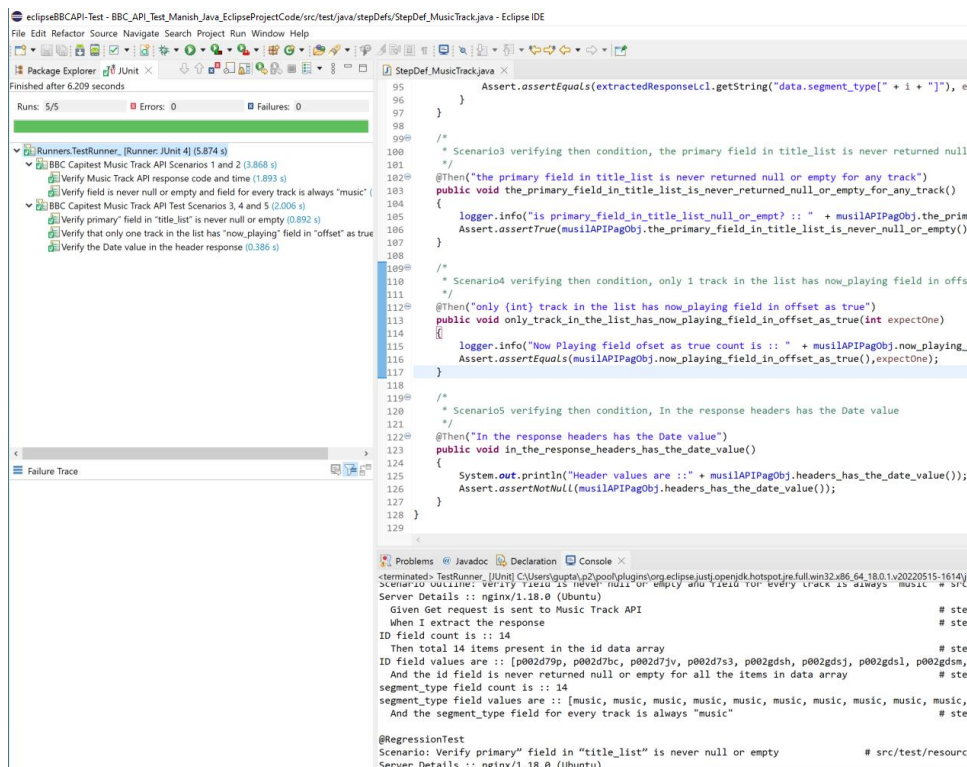
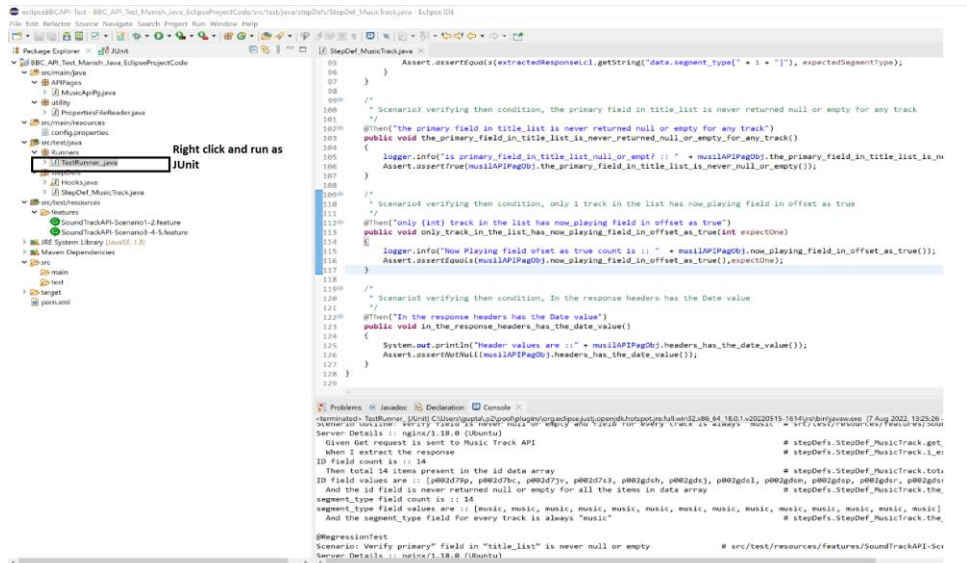
- Default cucumber report < APIBBCMSS\_TestReport.html > is in folder:  
[target/Reports/](#)
- Customize HTML report with the PIE chart < RegressionTest.html > is in folder:  
[target/ cucumber-report-html / cucumber-html-reports/](#)

**Installation/Automation Run Instructions:** Assuming that your machine has latest Java/JDK installed and JAVA\_HOME path is defined and eclipse is installed.

1. Download the project code folder from the git location that I shared in the email.
2. Unzip the folder
3. If using eclipse then, open the project as existing maven project
4. Wait for maven dependencies to load completely.
5. Once the dependencies are loaded, select “Pom.xml” file from project explorer section and run the project as “test”.
6. Project execution started , and while the project executing, the details of scenarios can be seen on the console.
7. Once project executed, to see the report, go to
  - a. Default cucumber report < APIBBCMSS\_TestReport.html > is in folder:  
[target/Reports/](#)
  - b. Customize HTML report with the PIE chart < RegressionTest.html > is in folder:  
[target/ cucumber-report-html / cucumber-html-reports/](#)
8. Additionally, to run the project as JUnit, go to runner class folder in project explorer i.e., Runner class " [TestRunner\\_.java](#) " :: Folder path: [src/test/java/Runner/](#) -> select the runner class and right click on it and select “run as -> Junit”.
9. Once the project execution is completed, the reports can be seen in the same folder as mention before at step number 7

# Snapshots of Running the project in Eclipse:

## 1. Run as JUnit using Runner class:



3. Reports are as below: Open “RegressionTest.html”

eclipseBBCAPI-Test - BBC\_API\_Test\_Manish\_Java\_EclipseProjectCode/src/test/java/stepDefs/StepDef\_MusicTrack.java - Eclipse IDE

File Edit Refactor Source Navigate Search Project Run Window Help

Package Explorer x JUnit

BBC\_API\_Test\_Manish\_Java\_EclipseProjectCode

- src/main/java/Workspace
  - APIPages
    - MusicApiPg.java
  - utility
    - PropertiesFileReader.java
- src/main/resources
  - config.properties
- src/test/java
  - Runners
    - TestRunner.java
  - stepDefs
    - Hooks.java
    - StepDef\_MusicTrack.java
- src/test/resources
  - features
    - SoundTrackAPI-Scenario1-2.feature
    - SoundTrackAPI-Scenario3-4-5.feature
- JRE System Library [JavaSE-1.8]
- Maven Dependencies
- src
  - main
  - test
- target
  - cucumber-report.html
    - cucumber-html-reports
      - css
      - embeddings
      - fonts
      - images
      - js
    - failures-overview.html
    - feature-overview.html
    - file-src-test-resources-features-SoundTrackAPI-Scenario1-2.feature.html
    - file-src-test-resources-features-SoundTrackAPI-Scenario3-4-5.feature.html
    - RegressionTest.html
    - step-overview.html
    - tag-overview.html
  - generated-sources
  - generated-test-sources
  - maven-status
  - Reports
    - APIBCHMSS\_TestReport.html
    - APIBCHMSS\_Text\_Report.txt
    - APIBCHMSS\_XML\_Reports.xml
  - surefire-reports
    - cucumber.json
  - pom.xml

StepDef\_MusicTrack.java

```

95     Assert.assertEquals(extractedResponse, response);
96 }
97 }
98 }
99 /*
100  * Scenario3 verifying then condition, the
101  */
102 @Then("the primary field in title_list is")
103 public void the_primary_field_in_title_list_is(String title_list) {
104     logger.info("is primary_field_in_title_list is " + title_list);
105     Assert.assertTrue(musilAPIPagObj.the_primary_field_in_title_list_is(title_list));
106 }
107 }
108 }
109 /*
110  * Scenario4 verifying then condition, onl
111  */
112 @Then("only {int} track in the list has no")
113 public void only_track_in_the_list_has_no_null_or_empty_id(int count) {
114     logger.info("Now Playing field offset is " + count);
115     Assert.assertEquals(musilAPIPagObj.now_playing_field_offset(count), count);
116 }
117 }
118 }
119 /*
120  * Scenario5 verifying then condition, In
121  */
122 @Then("In the response headers has the Date")
123 public void in_the_response_headers_has_the_date(String date) {
124     System.out.println("Header values are " + date);
125     Assert.assertNotNull(musilAPIPagObj.in_the_response_headers_has_the_date(date));
126 }
127 }
128 }
129 }

```

Problems x Javadoc x Declaration x Console x

<terminated> TestRunner [JUnit] C:\Users\gupta\p2\pool\plugins\org.eclipse.jdt.launcher\org.eclipse.jdt.launcher\_3.10.0.v20190308-1800.jar Server Details :: nginx/1.18.0 (Ubuntu)

Given Get request is sent to Music Track API

When I extract the response

ID field count is :: 14

Then total 14 items present in the id data array

ID field values are :: [p002d79p, p002d7bc, p002d7j]

And the id field is never returned null or empty

segment\_type field count is :: 14

segment\_type field values are :: [music, music, musi

And the segment\_type field for every track is alwa

@RegressionTest

Scenario: Verify primary" field in "title\_list" is r

Server Details :: nginx/1.18.0 (Ubuntu)

Cucumber-JVM Report

Project	Number	Date
APIBCHMSS	1	07 Aug 2022, 13:25

Tag Report

Tag	Scenarios			Steps					Totals		Status
	Passed	Failed	Total	Passed	Failed	Skipped	Pending	Undefined	Total	Duration	
@RegressionTest	4	1	5	7	1	0	0	0	8	1s 773ms	Failed

View Feature BBC Capital Music Track API Scenarios 1 and 2

@RegressionTest

Scenario Outline Verify Music Track API response code and time

Steps

Then HTTP status code of the response is 200

And the response time of the request is below 1000 milliseconds

Error Message

View Feature BBC Capital Music Track API Scenarios 1 and 2

@RegressionTest

Scenario Outline Verify field is never null or empty and test for every track is always "music"

View Feature BBC Capital Music Track API Test Scenarios 3, 4 and 5

@RegressionTest

Scenario Verify primary" field in "title\_list" is never null or empty

View Feature BBC Capital Music Track API Test Scenarios 3, 4 and 5

@RegressionTest

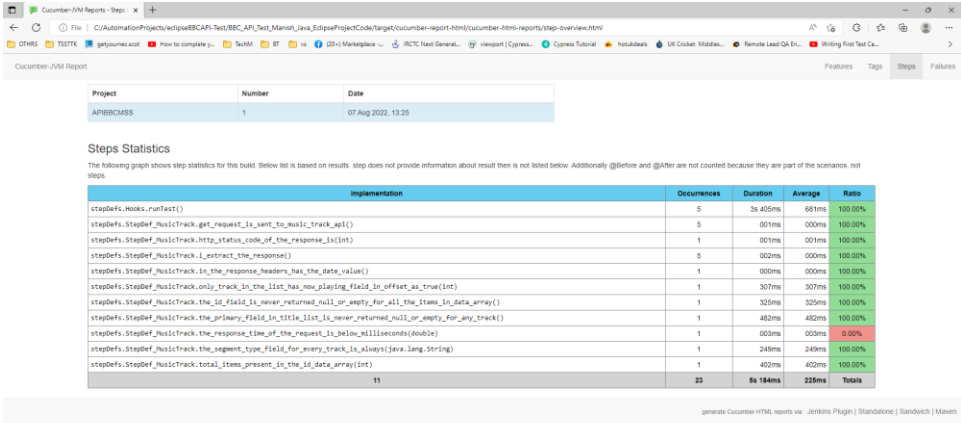
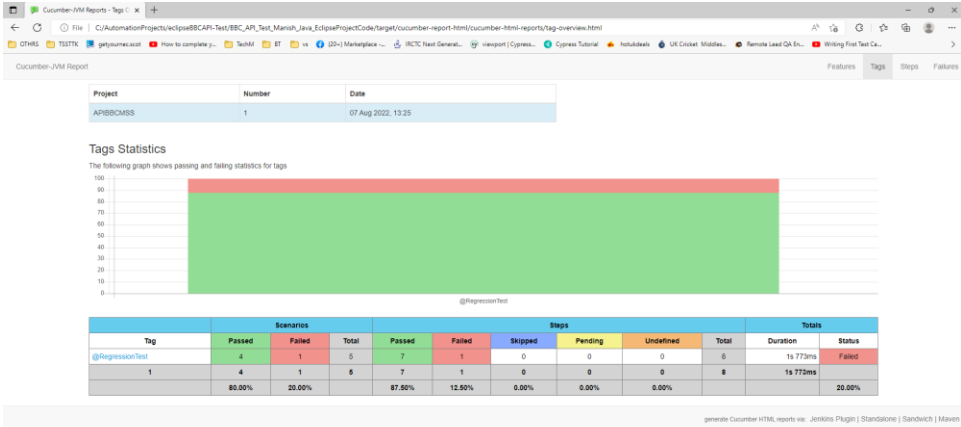
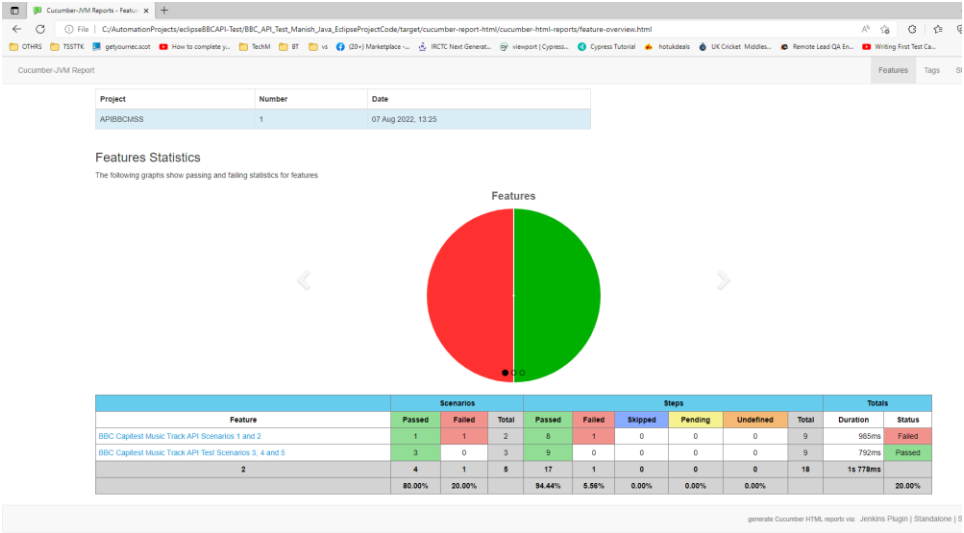
Scenario Outline Verify that only one track in the list has "now\_playing" field as "other" as true

View Feature BBC Capital Music Track API Test Scenarios 3, 4 and 5

@RegressionTest

Scenario Verify the Date value in the header response

generate Cucumber HTML reports via Jenkins Plugin | Standalone | Sandwich | Maven



Cucumber-JVM Reports - falun

C:\AutomationProjects\eclipseBECAP-Test\BBC\_API\_Test\_Manish\_Java\_EclipseProjectCode\Target\cucumber-report.html\cucumber-html-reports\failures-overview.html

Features Tags Steps Failures

Project	Number	Date
APIBECMBS	1	07 Aug 2022, 13:35

### Failures Overview

The following summary displays scenarios that failed.

[View Feature BBC Capital Music Track API Scenarios 1 and 2](#)

[@RegressionTest](#)

[View Scenario Outline Verify Music Track API response code and time](#)

Hooks

Before (stepDef: Hooks.runTest())

Is Missing

Steps

Then HTTP status code of the response is 200

Given

Error message

java.lang.AssertionError: expected [true] but found [false]  
at org.testing.Assert.fail(Assert.java:14)  
at org.testing.Assert.failNotEqual(Assert.java:113)  
at org.testing.Assert.assertTrue(Assert.java:42)  
at org.testing.Assert.assertTrue(Assert.java:12)  
at stepDefA.StepDef\_MusicTrack\_the\_response\_time\_of\_the\_request\_is\_below\_milliseconds(StepDef\_MusicTrack.java:62)  
at @:the response time of the request is below 1000 milliseconds(File:///C:/AutomationProjects/ecclipseBEGAPS-Test/BBC\_API\_Test\_Manish\_Java\_EclipseProjectCode/src/test/resources/Features/SoundTrackA...)

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