Project overview

The main purpose of the given Test Plan is the testing description of a website project “Musicxmatch”.This document provides guidance on planned works to be conducted and its terms

The goal of testing the website “Musicxmatch” is the verification of some of its features with the scripts of its usage.

During testing, the different types and approaches will be applied to the testing. The testing will be based on the technical requirements.

# Test strategy

## Test Objectives

The objective of the tests is to verify that the functionality of “MusicXmatch” works according to the specifications.

The test will execute and verify the test scripts, identify, fix and retest all high and medium severity defects per the entrance criteria.

**Assumptions**

* Performance testing is not considered for this estimation.
* All the defects would come along with a snapshot.
* The Test Team will be provided with access to the Test environment.
* The system will be treated as a black box; if the information shows correctly online and, in the reports, it will be assumed that the database is working properly.

# Test Principles

* Testing will be focused on meeting the business objectives, cost efficiency, and quality.
* There will be common, consistent procedures for all teams supporting testing activities.
* Testing processes will be well defined, yet flexible, with the ability to change as needed.
* Testing activities will build upon previous stages to avoid redundancy or duplication of effort.

# Test types

Tests to be performed:

In scope

* Cross-browser testing
  + **PURPOSE:** Cross-browser testing will be performed to check the functions of the application in different browsers.
  + **TESTERS**: Testing Team.
* Functional testing
  + **PURPOSE:** Functional testing will be performed to check the functions of the application. Functional testing is carried out by feeding the input and validating the output from the application.
  + **TESTERS**: Testing Team.
  + **METHOD**: The test will be performed according to Functional scripts.
* API testing
  + **PURPOSE:** Api testing will be performed to check the functions of the application with an API. The API testing is carried out by feeding the input and validating the output from the application.
  + **TESTERS**: Testing Team.
* Integration

Outside of scope

* Database testing
* Hardware testing
* Cross-platform testing
* Performance testing

# Test criteria

Entry criteria:

* Test documentation is created
* Test environment is ready

Exit criteria:

If more than 90 percent of critical test cases operate properly, testing has been successful.

* All checks are passed
* All bugs are fixed or approved.
* Planned deliverables are ready.

Suspension criteria:

If 40 percent of test cases fail, The QA team should suspend testing until the development team fixes all failed cases.

# Test environment

**For web:**

OS Version

* Mac OS Monterey V 12.2
* Windows 10

Browsers

* Safari V 15.3
* Chrome v10.0.648

## Postman v9.18.3

Musicxmatch developer account

# Resources

**Human resources**

|  |  |  |
| --- | --- | --- |
| No. | Member | Tasks |
| 1. | Tester | Identifying and describing test techniques/tools.  **Execute** the tests, **Log** results, **Report** the defects. |
| 2. | Developer in Test | Implement the test cases, test program, test suite etc. |

**System Resource**

|  |  |  |
| --- | --- | --- |
| No. | Resources | Descriptions |
| 1. | Test tool | The test tool that is going to be used is selenium and postman for the Api. |
| 2. | Network | We need an internet connection to simulate the environment. |
| 3. | Computer | A computer to do the tests with. |

# Schedule & Estimation

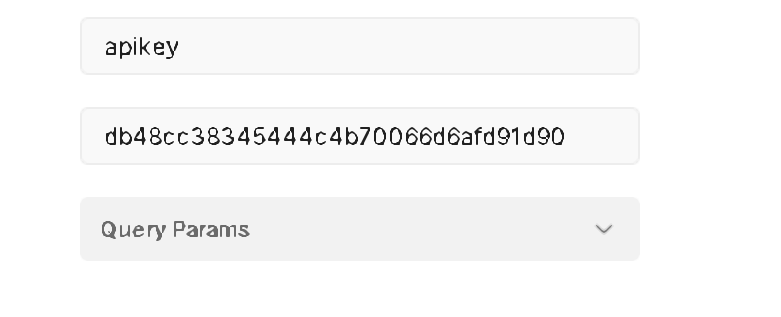
|  |  |  |
| --- | --- | --- |
| Task | Members | Estimate Effort |
| Create the test specification | Tester | 8 man-hours |
| Perform Test Execution | Tester | 5 man-hours |
| Test Delivery |  | 3 man-hours |
| Total |  | 16 man-hours |

# Deliverables

* Test Scripts
* Test Strategy
* Test plan and estimation
* Simulations.
* Test scenario
* Test cases and test data

# Postman API tests

Pre-requisites to test the API with Postman (API key generated with an musicxmatch account)



# Test Cases

Use the following table to execute the test case and check everything is going accordingly.

URL for get method(https://api.musixmatch.com/ws/1.1/chart.artists.get?page=1&page\_size=10&country=mx)

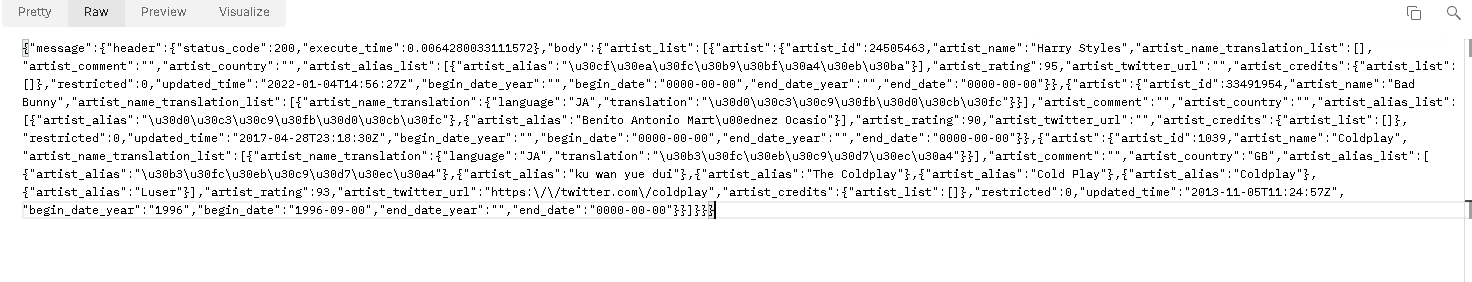
|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test Scenario | Test Case | Pre-Conditions | Test Step | Expected Result | Actual Results | Pass/Fail |
| Check Api connection on postman.  It should bring the top 10 artists in mexico. | Check api response with postman. | Obtain an api key in musicxmatch developer page.  API KEY:  db48cc38345444c4b70066d6afd91d90 | 1. Launch postman.  2. Select the GET method.  3.Enter the url provided for the method.  4.Click the SEND button | Information should appear in a list form or in a JSON format and it brings you the correct information. | It showed a list of the top 10 artists from mexico | PASS |

Use the following table to execute the test case and check everything is going accordingly.

URL for get method(https://api.musixmatch.com/ws/1.1/chart.artists.get?page=1&page\_size=3&country=mx)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test Scenario | Test Case | Pre-Conditions | Test Step | Expected Result | Actual Results | Pass/Fail |
| Check Api connection on postman.  It should bring the top 10 artists in Mexico. | Check Api response with postman. | Obtain an Api key in musicxmatch developer page.  API KEY:  db48cc38345444c4b70066d6afd91d90 | 1. Launch postman.  2. Select the GET method.  3.Enter the url provided for the method.  4.Click the SEND button | Information should appear in a list form or in a JSON format and it brings you the correct information. | It showed a list of the top 3 artists from mexico | PASS |

“Actual result”

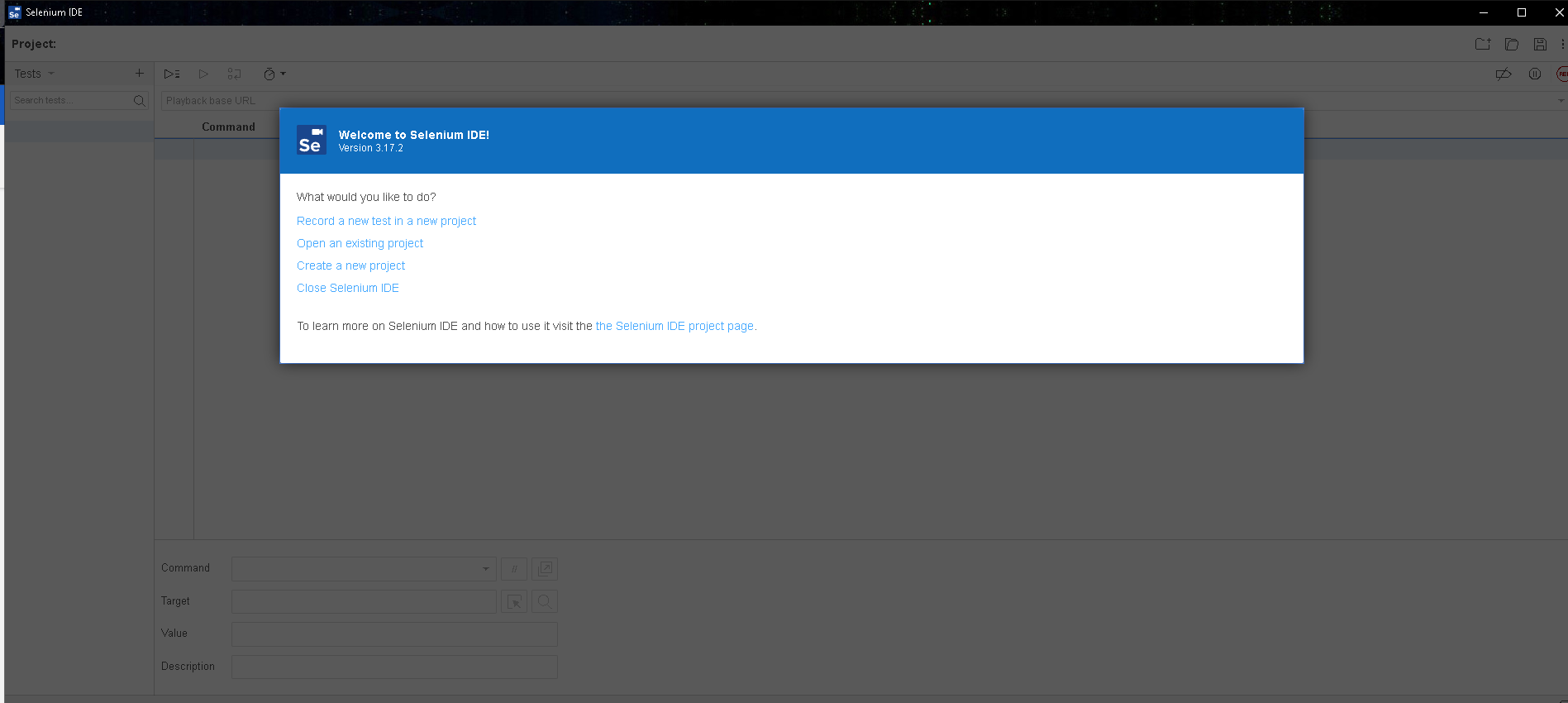


# Selenium IDE tests

General pre-requisites

Have installed the Selenium IDE web extension to make sure you can run the tests and just import the script provided.

As the test was already executed it may be necessary to create the account again (Because it's deleted at the end of the tests).



Use the following table to execute the test case and check everything is going accordingly.  
“As a user  
I want to have a register button on the main page  
So that I can register if I don’t have an account created”

Website upon which the tests will be carried out (<https://www.musixmatch.com/es>)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test Scenario | Test Case | Pre-Conditions | Test Step | Expected Result | Actual Results | Pass/Fail |
| Check that a register button exists on the main page | Check that a register button exists. | N/A | 1. Go to the website.  2.Look for the register button.  3.Click on it. | There should be a register button on the main page of the website. | It does not exist a register button on the main page, however there is a log-in button | FAIL |

Use the following table to execute the test case and check everything is going accordingly.  
“As a user  
I want to have a register button on the main page  
So that I can register if I don’t have an account created”

Website upon which the tests will be carried out (<https://www.musixmatch.com/es>)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test Scenario | Test Case | Pre-Conditions | Test Step | Expected Result | Actual Results | Pass/Fail |
| Check that a register button exists on the page and it sends you to the register page. | Check that when you are on the log-in page a register button exists. | N/A | 1. Go to the website.  2.Look for a log-in button.  3.Click on it.  4. Click on the register button | There should be a register button on the Log-in page of the website. | The sign-up or register button does appears on the log-in page. | PASS |

Use the following table to execute the test case and check everything is going accordingly.  
“As a user   
I want to be able to log in to my account  
So that I can access my profile”

Website upon which the tests will be carried out (<https://www.musixmatch.com/es>)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Scenario | Pre-Conditions | Test Step | Expected Result | Actual Results | Pass/Fail |
| Check that you can log in to the website and view your profile with the provided credentials | Email: lfndogonzalez@gmail.com  Pwd: Kinda147852 | 1. Go to the website.  2.Look for a log-in button.  3.Click on it.  4. Enter the provided credentials.  5.Click on the login button.  6.Click on your litte profile picture | It should send the user to the main page but signed in. | It sends us to the main page and it shows that we are logged in. | PASS |

Use the following table to execute the test case and check everything is going accordingly.  
“As a user   
I want to be able to log in to my account  
So that I can access my profile”

Website upon which the tests will be carried out (<https://www.musixmatch.com/es>)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Scenario | Pre-Conditions | Test Step | Expected Result | Actual Results | Pass/Fail |
| Check that you cannot log in in the website using wrong credentials | N/A | 1. Go to the website.  2.Look for a log-in button.  3.Click on it.  4. Enter Any credentials.  5.Click on the login button. | It should show a message saying “Invalid email” or “invalid password” | It showed an error message saying “invalid email” | PASS |

Use the following table to execute the test case and check everything is going accordingly.  
“As a user  
I want to have the option to like songs  
So that only my friends can see the music I like”

Website upon which the tests will be carried out (<https://www.musixmatch.com/es>)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Scenario | Pre-Conditions | Test Step | Expected Result | Actual Results | Pass/Fail |
| Check that an option to like songs exist within the website | An account  Email: lfndogonzalez@gmail.com  Pwd: Kinda14785 | 1. Go to the website.  2.Search for a song.  3.Click on it.  4. Search for a favorite option.  5.Click on it. | The should be an option to like or favorite the songs. | It showed the favorite option in the form of a little heart that when you click on it, changes color. | PASS |

Use the following table to execute the test case and check everything is going accordingly.  
“As a user  
I want to have the option to like songs  
So that only my friends can see the music I like”

Website upon which the tests will be carried out (<https://www.musixmatch.com/es>)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Scenario | Pre-Conditions | Test Step | Expected Result | Actual Results | Pass/Fail |
| Check that an option to view liked songs from your friends exist within the website | An account  Email: lfndogonzalez@gmail.com  Pwd: Kinda14785 | 1. Go to the website.  2.Go to your profile  3.Search for friend's songs option. | An “liked songs from friends” option should exist somewhere in your profile | Said option doesn’t appear to exist anywhere in the website | FAIL |

Use the following table to execute the test case and check everything is going accordingly.  
“As a user  
I want to be able to delete my account  
So that I can delete my records from this site”

Website upon which the tests will be carried out (<https://www.musixmatch.com/es>)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Scenario | Pre-Conditions | Test Step | Expected Result | Actual Results | Pass/Fail |
| Check that an option to delete your account exists within your profile. | An account  Email: lfndogonzalez@gmail.com  Pwd: Kinda14785 | 1. Go to the website.  2.Go to your profile  3.Click on edit profile.  4.Click on delete my account. | An option to delete your account should exist and when clicked on it deletes your account. | The option does exist and when clicked it deletes the account. | PASS |