Musicxmatch

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Enroute Systems

Test Plan

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Plan Summary

The main purpose of this Test Plan is to test different functionalities of the website "Musicxmatch", also to do some tests to the "Musixmatch lyrics API" and retrieve some data using different tools. Testing will be based on the functional requirements stated during the interview.

Product Analysis

Testing Scope

- **FE-1:** Registration process to new users.
- **FE-2:** Login page and profile access to existing users.
- **FE-3:** Music sharing functionality.
- **FE-4:** Account deletion functionality.
- **FE-5: API:**
    a. Get the Top 10 artists in Mexico.
    b. Get the information of the Top 3 artists in Mexico.
    c. Get the information of the Top 5-10 albums in Mexico.

Entry Criteria

- Test documentation ready before the testing process begins.
- Finish setting up the testing environment.
- Define clear and concise success criteria for each test case.

Test Approach

Test Levels

- Unit Testing
- Integration Testing

Types of Tests

- User Interface Testing
- API Integration Testing.

Tests to be performed

- **UI Testing:** to test the Registration process.
- **UI Testing:** to test the Login Process and Profile page.
- **UI Testing:** to test the Music Share functionality.
- **UI Testing:** to test the Account Deletion functionality.
- **API Testing:** to test the information of the Top 10 artists in Mexico.
- **API Testing:** to test the information of the Top 3 artists in Mexico.
- **API Testing:** to test the Top 5 - 10 albums information.

Roles and Responsibilities

QA Tester: (Luis Carlos Domínguez Baldemar) will gather all the necessary product requirements, make all the tests stated in the Test Plan, and will confirm if the test objectives are met with their respective success criteria if that is the case.

Testing Tools

Automation Tools

- Selenium IDE for Webdriver installed in a Chrome browser. [Selenium Webdriver](#)

Integration Testing Tools

- Postman to test the Musixmatch API. [Postman](#)

Test Strategy

Overview and Scope

This Test Strategy aims to define the guidelines for each test approach in order to achieve the test objectives defined in the Test Plan. We will test the user registration process and make sure it is a simple and easy process. Test the user login to make sure all users can access their profile. Also test the Music Share functionality and see if it gives value to the user. Finally test the Account Deletion Process and validate it deletes the user data.

Test Approach

This Test Plan gathered the product requirements to test and ensure the function quality inside the scope. After the test cases are completed, the result will be compared to their respective success criteria in order to ensure the product's quality. After all the results are ready, they will be passed on to the Quality Lead for analysis and approval.

Reporting and Communication

An interview will be carried out in order to define any questions, assumptions and comments that might come up, it will also help to define clear requirements and tools to be used during the testing process. Tests will be carried out in the Tester's controlled environment and the results, documents, and scripts will be uploaded to Github for further analysis.

Test Criteria

- **FE-1:** Create a new user account successfully.
- **FE-2:** Login with an existing user account and access the user profile.
- **FE-3:** Like a song successfully while logged in.
- **FE-4:** Delete an existing user account successfully.
- **FE-5:** Receive an status code 2XX along with the desired data from the API.

Plan Resources

People: 1 QA Tester.

Time: 24 hours available.

Budget: Non-applicable.

Test Environment

Requirements:

- Stable Internet connection.
- Chrome Web browser installed with the latest version.
- MacOS operating system.
- Postman tool installed.
- Selenium web driver installed.
- Github repository as a backup and restore strategy.

Schedule & Estimation

May 19, 2022: Develop Test Plan and Strategy, and make API tests - **5 hours.**

May 20, 2022: Make and run all automation UI tests - **6 hours.**

Test Deliverables

- Test Matrix.
- Test Plan and Strategy.
- API Test Cases (API-1, API-2, API-3)
- UI Test Cases (UI-1, UI-1.1, UI-2, UI-3, UI-4)