Test Plan for
PROJECT A

General information	
Customer	<Project name>
Created by (Author)	
Preparation date	
Version	
Status	

Revision History					
Version	Description	Author	Date	Approved by	
				Author	Date

Summary

1. Introduction

1.1. General information

This document describes the methods and procedures that will be used by the QATestLab team in the functional testing process of the web and mobile applications.

It is meant to be used as a manual during testing works. It describes the procedure of the testing process. The test plan is intended for project managers, product developers, QA engineers.

The objective of the testing activities is to check functions and features of a software product elaborated for web browsers (Chrome, Firefox, Edge, Safari) and modern Android and iOS devices.

1.2. Purpose

This Test Plan document for the A project supports the following objectives:

- Identify existing project information and software components to be tested.
- Recommendation and description of the testing strategies to be employed.
- Identify required resources and provide a test effort estimate
- List the test project deliverable elements.

The results of test execution will be sent to the customer as reports. All found bugs will be tracked using Trello bug tracker.

2. Scope of project

2.1. Scope of web portal

Testing of A is in the scope of this test plan. The following components and functions would be tested:

1. Registration
2. Login and password recovery
3. Upload audio file
4. Payment
5. Social share function
6. Save and edit of user profile

2.2. Scope of mobile application

Testing of mobile application is in the scope of this test plan. The following components and functions would be tested:

1. Create account using email
2. Create account using Social media accounts

3. Login with 3 account types (Internal, External and Admin)

4. Password recovery

5. Play the audio files

6. Search for audio files

7. Add audio files to favorite list

8. Profile

2.3. Scope of Admin part

Testing of Admin part is in the scope of this test plan. The following components and functions would be tested:

1. Create account via backend
2. Login as an admin
3. Password recovery
4. Upload audio files
5. Edit information about the file
6. Play the file
7. Approve and reject new audio files
8. Create external and internal users
9. Collect statistic about played audio files
10. Collect statistic about files that were added to Favorite list

3. Work plan

The parties are agreed to follow the next work plan:

1. Test plan preparation
2. Test plan approval
3. Functional testing and bugs reporting
4. Daily reports preparation
5. Final report preparation

4. Test Plan and Strategy

1.1. Functional testing

The objective of functional testing is to make sure that the whole software product works according to the requirements, and no significant errors appear in the application. Functional testing is the most substantial part of software testing. It involves checking of different aspects of the system. A software product must pass all the planned tests. Only in this case its quality can be assured.

Test Objective:	Ensure proper target-of-test functionality
Technique:	Execute each use case, use-case flow, or function, using valid and invalid data, to verify the following: • The expected results occur when valid data is used. • The appropriate error or warning messages are displayed when invalid data is used. • Each rule is properly applied.
Entry Criteria	• The application construction is completed. • The test engineers are dedicated. • Necessary devices, instruments, and other equipment are acquired. • Test environment is prepared, and the application is released to the test environment. • Test environment is prepared, and the application is released to the test environment.
Completion Criteria:	• All the planned tests are performed. • There are no show-stopping errors. • All the errors of high priority and severity are fixed. • The test results are evaluated, discussed and approved.
Special Considerations:	None.

4.2. Test Procedure

Test procedure assumes the next points:
• Reporting of found software bugs.

Various aspects of the tested software should be checked; this requires executing of different testing types.

The main testing type that would be executed:
• Functional Testing
• UI Testing
• Usability Testing
• Compatibility Testing (4 modern web browsers and devices)
• Regression testing
• Retesting (during the second round if needed)

It also will be checked how the software product is run on the browsers and devices that are supposed to support it, how it starts and stops, how much time does it need to launch.

During this test round next types of testing will NOT be applied:

- Security testing

4.3. Bug Reports

Bug reports are created in order to provide the development team and the project managers with exhaustive information about the discovered defects. They must be helpful in determining causes of the errors and correcting them.

Defect Severity can be classified into four categories:

- Critical (blocker) defects are the failure of the complete software system or of a critical subsystem, and no work or testing can be carried out after the occurrence of the defect. It also applies to data loss failures and with processes that leave inconsistent data stored on the database.

- Major defects (and crashes) are those which also causes failure of entire or part of the system, but there are some processing alternatives which allows further operation of the system. It also applies to the system crashing, or aborting, during normal operation of a non-critical flow.

- Minor defects do not result in failure but causes the system to show incorrect, incomplete, or inconsistent results.

- Trivial defects are small errors that do not affect the functionality: typos, grammar mistakes, wrong terminology, etc.

The information that is indicated in each bug report:

- the software product name;
- version number of the software product (if tested on mobile);
- browser on which the tests were performed.

Each report provides the next information about the defect:

- summary, which is short description of the problem;
- location of the defect in the software product;
- steps to reproduce the error;
- frequency of the defect occurrence;
- severity of the defect;
- additional information about the defect in form of attached screenshots or video records.

Third party software will be used for reporting and maintaining discovered errors. The test team will log in that software all the defects that will be found during the testing process.

5. Resources

5.1. Tools

The following tools will be used for this project:

Name of process	Tool
Defect Tracking	Jira
Test Cases	Testrail
Snagit	Screenshots / Video capture

5.2. The list of the browsers

Name of browser	Version
Chrome	Latest
FireFox	Latest
Edge	Latest
Safari	Latest

5.3. The list of the devices

Name of device	OS
iPhone devices	All supported OS
Android devices	All supported OS

6. The criteria of quality

The product should operate in accordance with the requirements and the functional specification (if present).

The product should not contain critical and blocking defects in the final version of the project.

7. Testing Process Risks

The next issues may influence testing works:

- changes and modifications of the software product that were not planned and discussed with the test team beforehand;

- changes in the software requirements that were not discussed with the test team beforehand;

- delays in correcting/fixing errors;

- delays in delivering new builds to the test team.

8. Test Team Expectations

The test team must be provided with valid, updated documents during the whole testing process.
All the required equipment, instruments, devices and software must be acquired and prepared before beginning of the testing process.

All show-stopping errors must be corrected as soon as possible.

Release note should be added to each software release to the test team. The note must explain which elements, functions and features were added to the program and how these additions affect the software.

The developers should correct all the errors in the software modules before releasing a new version.

9. Responsibilities of Test Team Members

Project Manager

- Managing the whole testing process.
- Providing all the needed resources for the testing activities.

QA Lead

- Collecting and learning the requirements.
- Validation of the documentation.
- Planning the testing works.
- Monitoring the testing activities, making sure that the works are performed according to the plan.
- Reporting about the progress, number and severity of the found errors.

Test Engineer

- QA process / logging found errors into the approved bug tracking system.

10. Deliverables

- Test Plan.
- Bug reports and reports regarding the testing progress.