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| --- |
| Test Plan |
| Audio Cataloger |

| Related Artifacts | |
| --- | --- |
| Ref. | Name |
|  |  |
|  |  |

|  |  |
| --- | --- |
| Abbreviations and Acronyms | |
|  |  |
|  |  |

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# Introduction

This tool creates a list of all audio files in his possession along with duplications cross-reference. Resulting list should be viewable via web-browser for quick review, and editable in spreadsheet software for thorough review and processing. This application should be implemented by Java and distributed as JAR-container.

This document describes the approach and methodologies used by the testing team to plan, organize and perform the testing applications of the ClientID-ProductID.

# Scope of Work

|  |  |  |  |
| --- | --- | --- | --- |
| Components and Functions to be Tested# | Application/ component name | Function name | Reference |
| UR-1 | AudioCataloger.jar | Start and stop of the application | DS-2.1, DS-2.2 DS-2.3 DS-2.4 |
| UR-2 | AudioCataloger.jar | Configuration of the app | DS-2 |
| UR-3 | AudioCataloger.jar | Application log | DS-4.1 |
| BR-1 | AudioCataloger.jar | Support formats are: mp3, flac, wav, ogg, wma |  |
| BR-2 | AudioCataloger.jar | Output formats are both HTML, CSV |  |
| BR-3 | AudioCataloger.jar | Background color for duplicates |  |
| BR-4 | AudioCataloger.jar | Output name fully qualified normalazed |  |
| QA-1 | AudioCataloger.jar | Resilience to input data | BR-1, DS-5.2, DC-5.3 |
| QA-3 | AudioCataloger.jar | Analyzing set for nesting and/or duplication in order to scan each real directory |  |
| L-1,L-2 | AudioCataloger.jar | Java version and libraries | DS-1 |
| L-4 | AudioCataloger.jar | Multi-platform capabilities of the application |  |
|  |  |  |  |
|  |  |  |  |

## Components and Functions Not to be Tested

|  |  |  |  |
| --- | --- | --- | --- |
| # | Application/ component name | Function name | Reference/Comment |
|  |  | [Put the list of user functions which are not tested in the current project phase here] | [Put the specification name where the function is described and link to it if possible. Also put the comment describing the reason why the function is not tested] |

## Third-Party Components

|  |  |  |  |
| --- | --- | --- | --- |
| # | Component name | Component role | Reference/Comment |
| 1 | Firefox | Browser | https;//www.mozilla.org/ru/firefox |
| 2 | IE | Browser | https;//www.microsoft.com |
| 3 | Chrome | Browser | https;//www.google.ru/chrome/index.html |
| 4 | Notepad++ | Text viewer/ editor | https://notepad-plus-plus.org/ |
| 5 | Jira | Software integrates development tools |  |
| 6 | MS Office | Create test cases, check-list | www.microsoft.com/ |
| 7 | Spreadsheet software | Review and process files |  |
|  |  |  |  |

# Quality and Acceptance Criteria

* 100 % success of test cases on smoke test level and 90 % success of test cases on critical path test level;
* Final requirement coverage by tests should by test should be at least 80%;
* The product should not have known bugs Critical and Major, and with Priority High at the time of finish testing.

# Critical Success Factors

* Jira access.
* Local permission for run Jaira file.
* Meet a schedule and complete development and testing of all functionality in term.
* Functional requirements do not have last minute changes.

# **Risk Assessment**

|  |  |  |
| --- | --- | --- |
| # | Risk | Action |
|  | Problems in the test equipment.  ( Breakdown of computer hardware or failure on the server ) | Availability of spare equipment, which will be provided if necessary. |
|  | The testing team consists of inexperienced workers, this can lead to the omission of a different kinds of bugs. | Experienced people. |
|  | Different type of leave ( vacation, sickness) | Provide to project for an additional temporary person to work during the absence of a team member. |
|  | Lack of time for testing on all platforms | Prioritize test cases and run only P1/smoke test for other platform. |

# Resources

## Key Project Resources

|  |  |  |
| --- | --- | --- |
| # | Project Role | Name, e-mail, location |
|  | Project Manager | PM, lidiaEP@gmail.com,Poland |
|  | Test Leader | TL, MarinaEP@gmail.com |

## Test Team

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| # | Project Role | Name | Location | Responsibilities |
| 1 | Test | QA1 | Krakow | Development of test-cases, executing and writing bug report |
| 2 | Test | QA2 | Krakow | Development of test-cases, executing and writing bug report |
| 3 | Development | Dev1 | Krakow | Participation in requirements testing and code review |
| 4 | Development | Dev2 | Krakow | Participation in requirements testing and code review |

## Test environment

*[List all environments that will be used for testing]*

|  |  |  |  |
| --- | --- | --- | --- |
| Environment name | Environment type (Hardware/Software, etc.) | Owner (EPAM/Client) | Application  (for which purposes is it used) |
| Test PC Win | I5-3200 8 Gb, Windows 10 v123 Chrome v10, Opera v45, IE v11, Firefox, Notepad++ vXXX | EPAM | AudioCataloger.jar |
| Test PC Linux | I5-3200 8 Gb, Linux RedHeat v XXX Chrome v10, Opera v45, Firefox, Notepad++ | EPAM | AudioCataloger.jar |

## Test Tools

|  |  |  |
| --- | --- | --- |
| # | Tool | Comment |
| 1 | Jira | Tracing of bugs and documentation |
| 2 | MS Office Excel | Creating test-cases |
|  |  |  |

# Test Documentation and Deliverables

*]*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| # | Title | Responsible person(s) | Frequency (delivery time) | Method of delivery |
|  | < AudioCataloger >  TestPlan |  | Once before the testing start | Google disk |
|  | < AudioCataloger >  TestCases |  | Before the testing start | Jira, Google disk |
|  | Bug reports |  | Upon finding a bug | Jira, Google disk |
|  | Test Result Reports |  | Weekly | Google disk |

# Test Strategy

The ClientID-ProductID applications will be tested using a “black box” approach, which is based on the requirements and functional specification without knowledge of the internal structure or program source code.

## Entry Criteria

The Testing Team may suspend partial or full-testing activities on a given build if any of the following occurs:

* It is impossible to install successfully the new build following the readme.
* **There is a fault with a feature that prevents its testing.**
* Application does not contain the specified change(s).
* New claimed functionality doesn’t work or works improperly.
* **A severe problem has occurred that does not allow testing to continue.**
* Development has not corrected the problem(s) that previously suspended testing.
* A new version of the software is available to test.

## Test Methods

* Manual functional testing – is considered as the main method of the application testing.

## Test Types

* Functional testing - All requirements from provided documents must be covered by test cases. QA team ensures that all requirements were tested within covered test cases during testing phase. This testing takes place after new feature\functionality is delivered to the QA team for testing
* Regression testing - Regression testing must be done based on test cases for target platforms before any new delivery to the client
* Verification testing - All fixed (resolved) defects go through the verification procedure. Tester must verify issue in the same environment and conditions when it was encountered.Compatibility testing – should be done to ensure the product behaves in the same way on different platforms

## Test Levels

* Smoke Test
* Critical Path Test
* Extented Test

### Smoke Test

*Smoke Test* is performed to quickly assess the readiness of the product for further more deep and thorough testing. It includes testing applications major functions on the one most often used and consequently most important server/ client configuration.

**.**

If Smoke Test failed, Testing Team sends notification and suspends testing until corrected version of the product is available.

### Critical Path Test

*Critical Path Test* will be performed after Smoke Test is passed. The goal of the Critical Path Test is to find bugs that could affect the major functionality of the application that is most important for the product users. Critical Path Test will be performed manually according to Test Cases document on all platforms.

### Extended Test

The *Extended Test’*sgoal to find bugs related to the non-typical but still possible and likely usage scenarios (e.g. entering the incorrect data into the fields, boundary testing and so on). Extended Test will be performed both according to test cases and using ad hoc testing scenarios.

* Detailed Test Results Report containing testing process description and results summary will be issued as it specified in section [Test documentation and deliverables](#_9._Test_documentation_and deliverab).

## Bug and Documentation Tracking

Tools described in the section [Test Tools](#_8.3_Test_Tools) will be used for bug reporting and documentation tracking. The bug metrics and statistics will be included in the test results reports.

### Bug Severity Definitions

**Critical** – Application, component or module crash or are not accessible

**Major** – Data corruption/loss, a problem in major functionality, no workaround is known.

**Medium** – A problem with workaround, secondary features do not work properly

**Minor** – Cosmetic flaw

# Testing Schedule

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| # | Activity | Begin Date | End Date | Assignment | Location | Work content |
|  | Test plan creation | 25/01/2021 | 26/01/2021 | TL | Krakow | 2 days |
|  | Test cases creation | 27/01/2021 | 03/02/2021 | QA1, QA2 | Krakow | 4 days |
|  | Build installation | 03/02/2021 | 04/02/2021 | Dev1, QA1 | Krakow | 1 days |
|  | Smoke Test execution | 05/02/2021 | 06/02/2021 | QA1 | Krakow | 1 day |
|  | Critical path Test execution | 10/02/2021 | 12/02/2021 | QA1, QA2 | Krakow | 5 days |
|  | Writing bug reports | 15/02/2021 | 17/02/2021 | QA1, QA2 | Krakow | 2 days |
|  | Preparation presentation | 17/02/2021 | 18/02/2021 | TL | Krakow |  |

| REVISION HISTORY | | | | | |
| --- | --- | --- | --- | --- | --- |
| Ver. | Description of Change | Author | Date | Approved | |
| Name | Effective Date |
| 1 |  |  |  |  |  |
| 2 |  |  |  |  |  |
| 3 |  |  |  |  |  |
| 4 |  |  |  |  |  |