# Software Quality Assurance Plan

A user driven music platform

Prepared By: Eton.inc

Prepared For: Major Corp

Approved by: Scott Wood

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| Signature: |

Author: Eton Williams

**V0.1.0**

## Revision History

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| **V0.0.1** – Feb/1/2025 – Eton Williams   * First draft * Title page created * Revision page created * Table of Contents created * Table of Figures created * Section Stubs created * Section 1 update (Purpose, Scope, CONOPS) * Section 2 update (added three acronyms) * Section 3 update (added contract, IEEE reference) |
| **V0.1.0** – Feb/2/2025 – Eton Williams   * Current |

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Figure 1 test

## Section 1. Purpose and scope

### 1.1.Purpose

The purpose of this SQA plan is to set what the User driven music platform will accomplish and provide detailed guideline for its creation. It will define the Software lifecycle process, development of all aspects of said software. As development reaches Version 1.0, it is planned for acquisition by Major Corp as per the contract with them. Afterwards, post-launch maintenance is performed by Eton inc.

### 1.2 Scope

* **Analysis**: Research made to define requirements of the software.
* **Prototype**: Creation of a prototype based on its requirements.
* **Design**: Design the software architecture and development process.
* **Develop**: Program and develop all contents and features of the software.
* **Testing**: Test in parallel with development, ensure security, and functionality.
* **Release**: Release the software, gather metrics such as user feedback and statistics.
* **Maintenance**: After release, update the software accordingly to accommodate new environments, ensure the software continues to meet its requirements.

### 1.3. Concept of Operations

* Musicians/Users can upload any musical project. Uploads will be filtered by AI to ensure it’s a safe environment for all demographics.
* AI driven algorithm to curate recommended music for all users
* Networking options such as follows, likes, comments, and share.
* Scalable and secure user database.
* Development for browser, iOS and Android app.

## Section 2. Definitions and acronyms

* SQA – Software Quality Assurance
* SQAP – Software Quality Assurance Plan
* CONOPS – Concept of Operations

## Section 3. Reference documents

* Major Corp. Contract
* [IEEE Standard for Software Quality Assurance Processes](https://ieeexplore-ieee-org.byui.idm.oclc.org/document/6835311)

## Section 4. SQA plan overview

### 4.1. Organization and Independence

### 4.2. Software product risk

### 4.3. Tools

### 4.4. Standards, practices and conventions

### 4.5. Effort, resources and schedules

## Section 5. Activities, outcomes, and tasks

### 5.1. Product assurance

#### 5.1.1. Evaluate plans for conformance

#### 5.1.2. Evaluate product for conformance

#### 5.1.3. Evaluate product for acceptability

#### 5.1.4. Evaluate product life cycle support for conformance

#### 5.1.5. Measure products

### 5.2. Process assurance

#### 5.2.1. Evaluate life cycle processes for conformance

#### 5.2.2. Evaluate environments for conformance

#### 5.2.3. Evaluate subcontractor processes for conformance

#### 5.2.4. Measure processes

#### 5.2.5. Assess staff skill and knowledge

## Section 6. Additional considerations

### 6.1. Contract review

### 6.2. Quality measurement

### 6.3. Waivers and deviations

### 6.4. Task repetition

### 6.5. Risks to performing SQA

### 6.6. Communications strategy

### 6.7. Non-conformance process

## Section 7. SQA records

### 7.1. Analyze, identify, collect, file, maintain, and dispose

### 7.2. Availability of records

## Citations

* "IEEE Standard for Software Quality Assurance Processes," in IEEE Std 730-2014 (Revision of IEEE Std 730-2002) , vol., no., pp.1-138, 13 June 2014, doi: 10.1109/IEEESTD.2014.6835311. keywords: {IEEE standards;Software quality;Quality assurance;Software testing;Project management;Quality of service;assurance;conformance;contract;cycle;IEEE 730(TM);management;project;quality;requirements;software;SQA;standard},