Software Quality Assurance Plan

Piano Journey Pro

Prepared By: Strong Egg Software

Prepared For: The Piano Bros

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1.1 Scope

This standard establishes requirements for initiating, planning, controlling, and executing the Software Quality Assurance (SQA) processes for the Piano Journey Pro software development project, commissioned by The Piano Bros and developed by Strong Egg Software. It ensures that all phases of the software life cycle, from development to maintenance, are subject to SQA processes that meet industry standards. This project follows ISO/IEC/IEEE 12207:2008 and ISO/IEC/IEEE 15289:2011 guidelines to maintain a high level of software quality throughout its lifecycle. These requirements are stipulated under the development contract between Strong Egg Software and The Piano Bros, signed on January 10, 2024.

1.2 Purpose

The purpose of this standard is to provide the Piano Journey Pro software project with structured SQA processes that ensure the product meets all specified requirements. By applying these processes, Strong Egg Software aims to deliver a reliable and high-quality educational tool for The Piano Bros, with verifiable evidence that the product complies with agreed-upon performance and functionality standards. The contract between the two parties outlines the quality expectations and deliverables to be met during development.

**2. Normative References**  
The following referenced documents are essential for the application of this document, as they provide the foundation for the software development processes and quality assurance activities used in the *Piano Journey Pro* project:

* **ISO/IEC/IEEE 12207:2008**: Systems and Software Engineering — Software Life Cycle Processes. This standard outlines the processes for software development, maintenance, and integration.
* **ISO/IEC/IEEE 15289:2011**: Systems and Software Engineering — Content of Life-Cycle Information Products (Documentation). This standard specifies the information required to document software life-cycle processes, ensuring consistency and completeness in documentation.

**3. Definitions, Acronyms, and Abbreviations**

**3.1 SQA (Software Quality Assurance)**  
A systematic set of activities aimed at ensuring the software product, *Piano Journey Pro*, meets the agreed-upon requirements and quality standards. This includes monitoring the development processes, reviewing deliverables, and performing audits to validate compliance with the standards specified by ISO/IEC/IEEE 12207:2008.

**3.2 Software Life Cycle**  
The series of stages through which the *Piano Journey Pro* software progresses, from initial concept, through development, testing, release, maintenance, and eventual retirement. This cycle is governed by the processes defined in ISO/IEC/IEEE 12207:2008.

**3.3 Contract**  
Refers to the formal agreement between Strong Egg Software and *The Piano Bros*, signed on January 10, 2024. The contract outlines the scope, requirements, quality standards, and delivery timelines for the *Piano Journey Pro* project. It serves as a legal and operational framework for the project’s execution.

The following reference document is indispensable for the application of this Software Quality Assurance Plan (SQAP) for the *Piano Journey Pro* project:

* **Development Contract between Strong Egg Software and The Piano Bros** (dated January 10, 2024).  
  This contract outlines the scope, quality requirements, timelines, and deliverables for the development of *Piano Journey Pro*. It serves as the primary guiding document for defining the project’s quality standards and expectations, and it ensures compliance with the agreed-upon specifications.