TAB2XML

Testing Document

Version 1.0

02/28/2021

Written By: Ziqi Zhou 214726283

Hargovind Singh 217303025

Ali Yamany 216513269

Amer Alshoghri 214992291

Uwais Kazi 215263940

Table of Contents

List of Figures

Supporting Document

Introduction

This Testing Document (TD) provides the information necessary for quality assurance tests to effectively test TAB2XML release version 1.0.

Overview

TAB2MXL is a standalone desktop application designed to convert different formats of ASCII music tablatures to a popular music description file format called MusicXML. This software can convert different types of tablature (guitar, drums, and bass) into platform and instrument independent MusicXML.

TAB2XML provides an easy-to-use user interface compatible with most operating systems. Both file processing and direct text input methods are available to users. Translated MusicXML files are accessible through both the interface and the file output.

Conventions

The term ‘user’ is used throughout this document to refer to a person who requires and/or has acquired access to the TAB2XML.

The term ‘action’ is used throughout this document to refer to a mouse click on a menu or button, and typing in the text area while interacting with the graphic user interface of TAB2XML.

Cautions & Warnings

Current release of TAB2XML is only intended for the project manager, product owners, and stakeholders. This application may not be distributed or referenced without the team’s consent.

Features to be tested

Instrument Detection

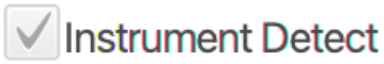
TAB2XML Release 1.0 should provide the user with automatic instrument detection service.

Once the checkbox shown in Figure 1 is checked, TAB2XML's auto detection should auto select the tab instrument type based on the user's input.

If the checkbox remains unchecked, TAB2XML should never trigger instrument detection. The user should have the freedom to choose instrument type.

Current instrument detection only works with standard tablatures with string names and instrument names displayed before each line.

Figure 1 - instrument detection checkbox



Drag and Drop Text Files

TAB2XML Release 1.0 should accept drag-and-dropped files as tablature input.

The drag-and-dropped files should be dragged into the text area. The files must be in .txt format. TAB2XML rejects any other format.

The text area should accept a dragged text file and display its content.

Upload Files

TAB2XML Release 1.0 should allow the user to upload a text file for process.

When a user clicks on the button in Figure 2, a file input window should pop up. The user can navigate to the desired location and select the tablature file.

Only files in .txt format are available for selection.

The successfully uploaded file should be displayed in the input text area.

Figure 2 - file upload button

The drag-and-dropped files should be dragged into the text area. The files must be in .txt format. TAB2XML rejects any other format.

The text area should accept a dragged text file and display its content.

Text Input

The user should be able to directly use our user interface text area to input the tablature. The user can choose to directly type in the tablature, or paste the tablature from elsewhere.

Basic Guitar Input Translation

TAB2XML release 1.0 should be able to translate basic guitar tablatures to .musicxml files.

When the text area is empty, the translate button should be disabled (as seen in Figure 3). When the text area is non-empty, the translate button should be enabled (as seen in Figure 4).

Current translation process does not handle erroneous input and can only handle basic guitar input.

The translated MusicXML content should be displayed in the save text area. After a successful translation, the translate button now should behave as a save button. A user should be able to edit the translated content before saving the .musicxml file.

Figure 3 - Disabled translate button

Figure 4 - Translate button

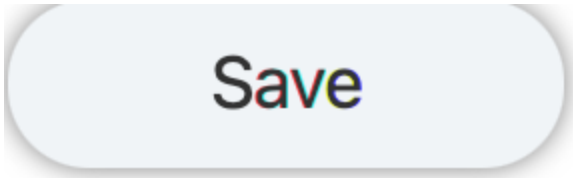
Save Translated .musicXML to Disk

TAB2XML should allow a user to save a generated musicXML content to disk.

Once the translation process is complete, the translate button should now appear as a save button (as shown in Figure 5). When the save button is clicked, a file chooser interface should appear. The user should be able to navigate to the desired location.

The translated content can only be saved as a .musicxml file.

Figure 5 - save button



Restart the translation process

TAB2XML should allow the user to restart at any point of the translating process.

By clicking on the restart button (as shown in Figure 6), the user should be able to start the process. The text area should be cleared, and the translate button should be reset to disabled.

At any point, the user also can restart the translation process by deleting all content in the text area.

Figure 6 - restart button

Features Not to be tested

Drum Tab Translation

The drum tab translation is still under development.

Bass Tab Translation

The bass tab translation is still under development.

Checklist

Application Testing Checklist			
Tested By	Tester Ziqi Zhou Hargovind Singh Ali Yamany Amer Alshoghri Uwais Kazi	Date	2021/02/26
Application Name	TAB2MXL		

Procedure	Expected Result	Pass/Fail (P/F)	QA Tester Comment (Could be used by TA)
Application Functionality			
Performs primary functionality and maintains stability	Yes	P	Opens and allows users to convert ASCII guitar tabs to musicXML format.
Basic Application Testing			
Performs as expected when other applications are open	Yes	P	Does not hang or lag when other applications are open.
Starts from the ‘run’ button on Eclipse IDE	Yes	P	Runs without error after performing ‘Refresh Gradle Project’
Capable of starting when another instance of the application is already running	Yes	P	You can run the project multiple times to create clones of the application.
Handles text input editing functions correctly	Yes	P	The application properly handles the input editing
Capable of handling any screen resolution	Yes	P	The GUI runs correctly on any screen resolution
Works correctly with Windows display themes	Yes	P	The GUI works with Windows display themes
Supports scrolling up, down using the wheel on the mouse inside the text area	Yes	P	Allows scrolling through the ‘Test Area’

Provides options to restart the application	Yes	P	The application restarts with the ‘restart’ button
Translate basic guitar tablatures properly	Yes	P	The application translates the basic guitar tablatures correctly
Correct instrument is detected when detection is on	Yes	P	The application detects instruments of a standard input tablature
No instrument detection is invoked when the detection is off	Yes	P	The application does not detect instruments when the detection is off.
File System Testing			
Supports ASCII text files as Input	Yes	P	The application supports input text files
Support file drag-and-drop	Yes	P	When a text file is dropped on top of the text area, the application accepts the file as input.
Saves a file to, and opens the file from a desired location	Yes	P	No errors in saving the *.musicxml file.