User Manual

Tab2XML
Group 7

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1.0 System Overview

Tab2XML is an application that allows users to take a tablature and convert it into a more flexible file, MusicXML—allowing users to adjust the piece of music to their liking and allow for better transferability.

1.1 System Limitations

Currently, this system only supports Guitar or Drum tablatures. The system is also unable to detect:

Guitars:
- Clef for Guitars
  - This includes sign and line
- Bar line location
  - This includes bar-style

Drums:
- Drum octaves must be less than 7, as our Display step system currently only handles 6 notes
  - A, G, C, E, D, F
- Notehead function is currently not in outputted MusicXML code
- Beam number function is currently   not in outputted MusicXML code
- The only Voice 2 instrument our system currently supports is Snare Drum
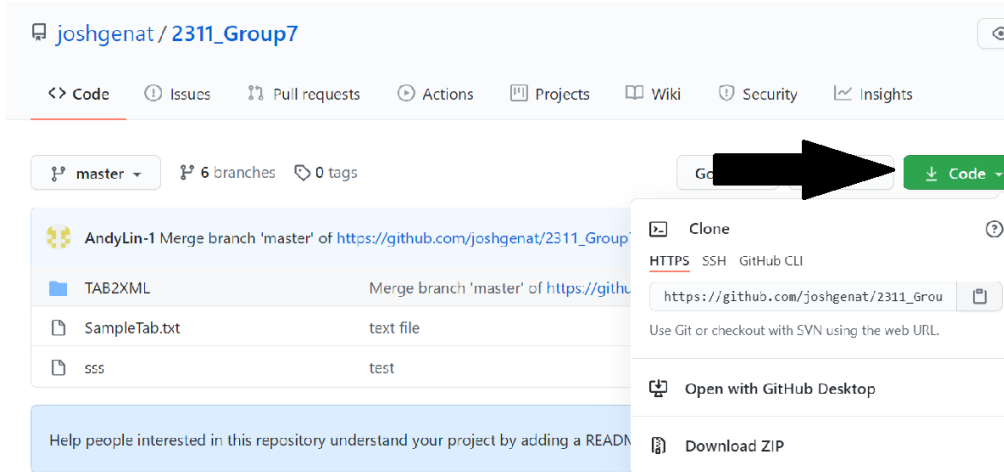
2.0 Installation and System features

2.1 Installation
2.1.1 - Installing Project Files
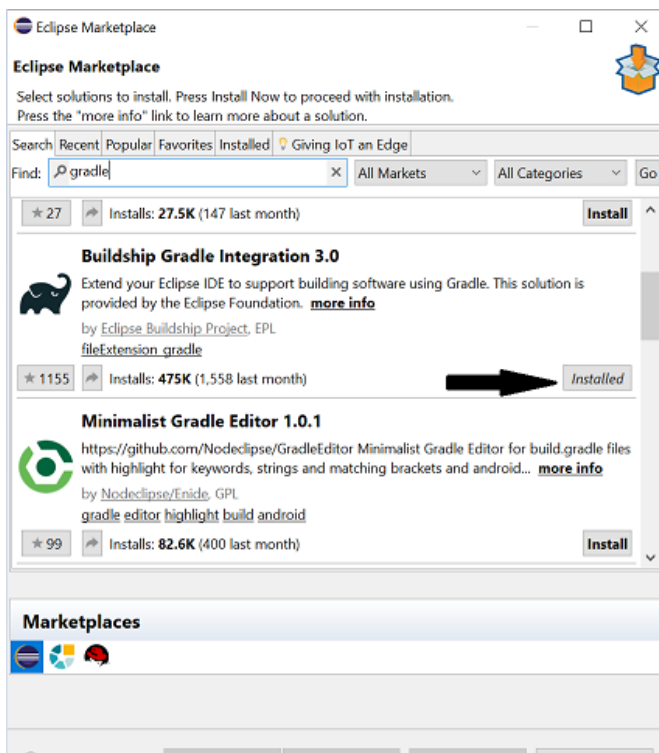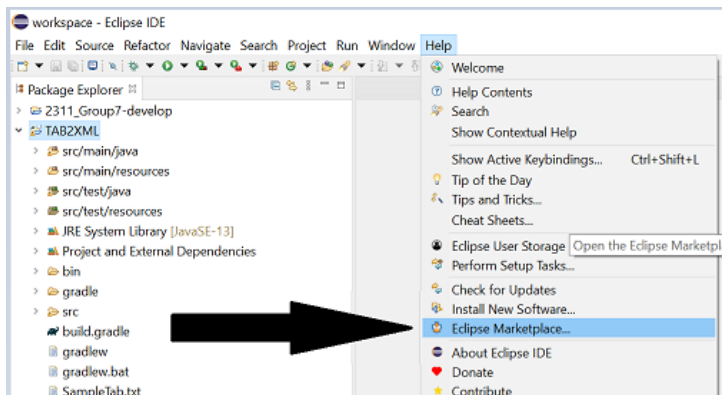Go to https://github.com/joshgenat/2311_Group7.
Click on Master Branch code, and from the drop-down menu, select your preferred choice of download, and load the file into eclipse.

The software will be run through Gradle.

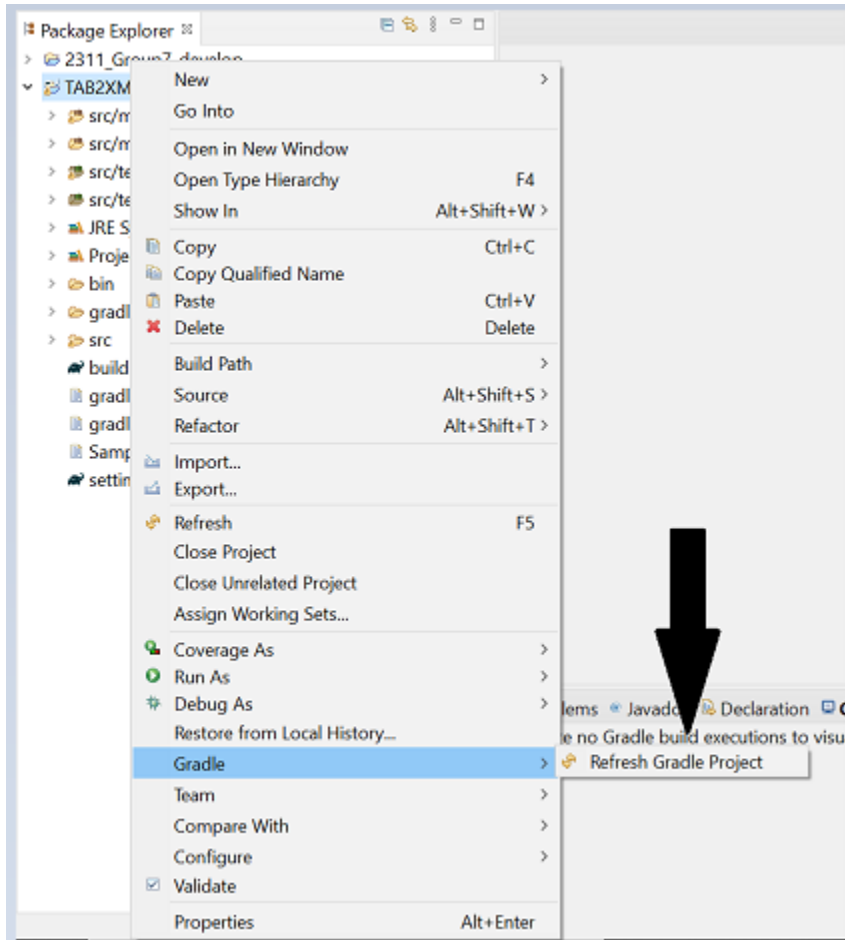**2.1.2** - Gradle Buildship Installation (If installed go to 2.1.3)

In your Eclipse program go to help -> eclipse marketplace

Search up Buildship gradle integration and install

2.1.3 - Gradle Setup
When the project is loaded into Eclipse, Right click on the TAB2XML Project, and do a gradle refresh.

Open your gradle task menu by going to window -> show view -> other -> gradle, in your gradle task menu go to application -> run and the double click this will start the program.
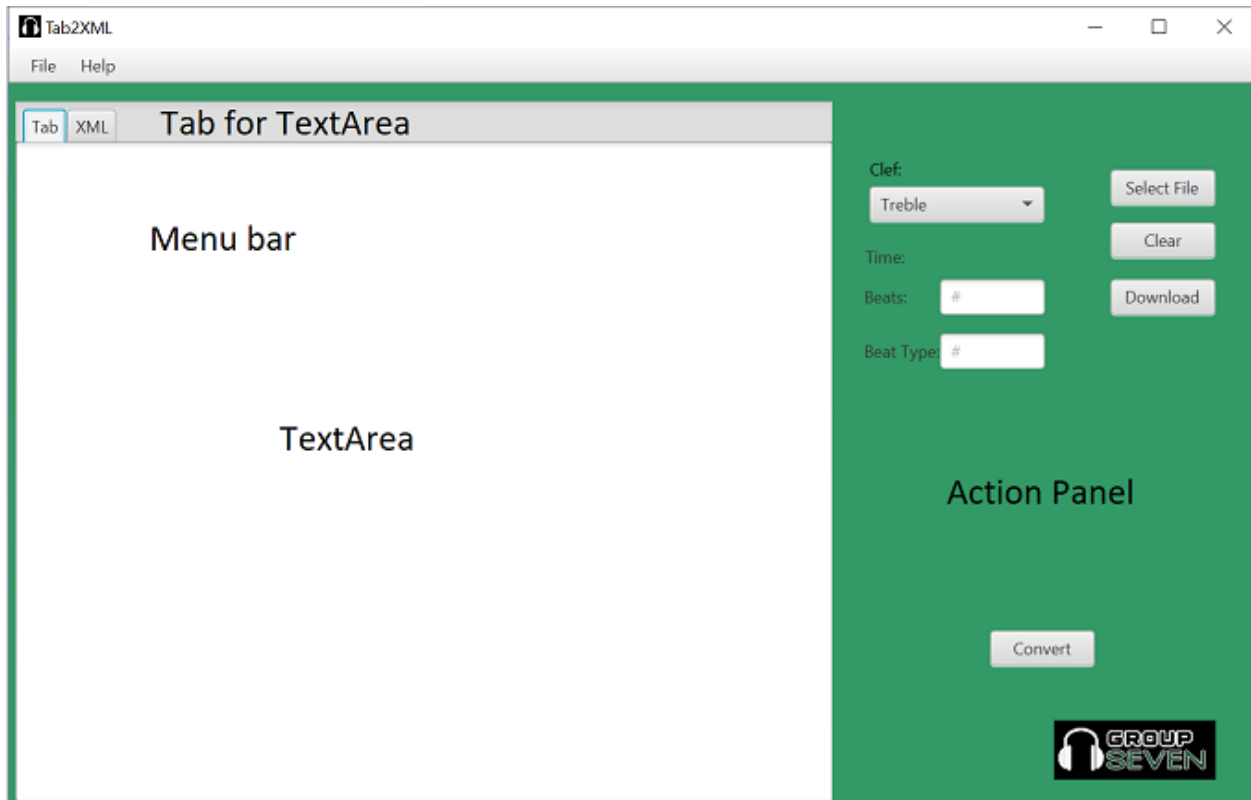
2.2 Getting Started

The Graphical User Interface (GUI) comprises different panels, including Tabs, Filer Viewer, Textarea/ XML Viewer, and the Actions Menu.

The user can switch between the original inputted text field and the output XML code (once converted).
In the File Viewer, the user can upload varieties of files and switch between these files.
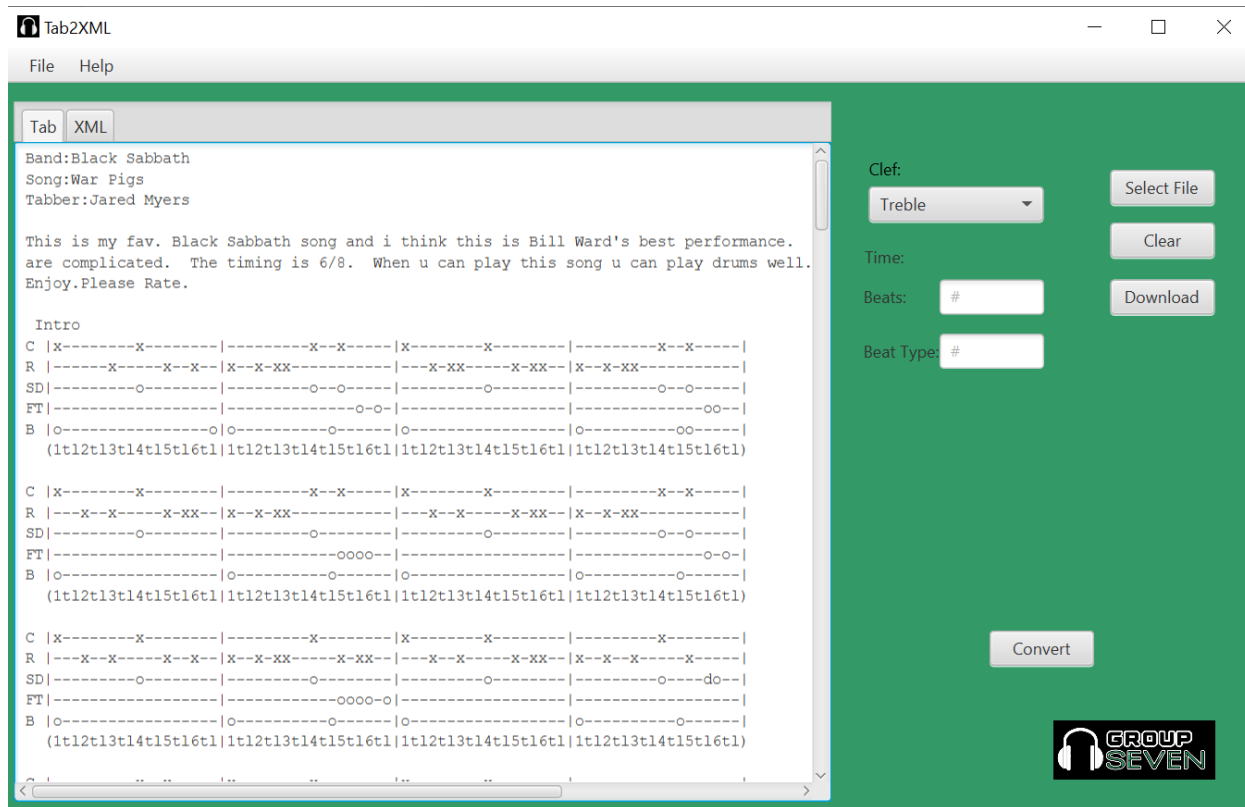In the Text Area, the user can paste their text tablature to convert into XML code.
In the Action Menu, the user can Convert the text area, Select a File, Clear the Text Area, and download the XML code as a ".xml" file.
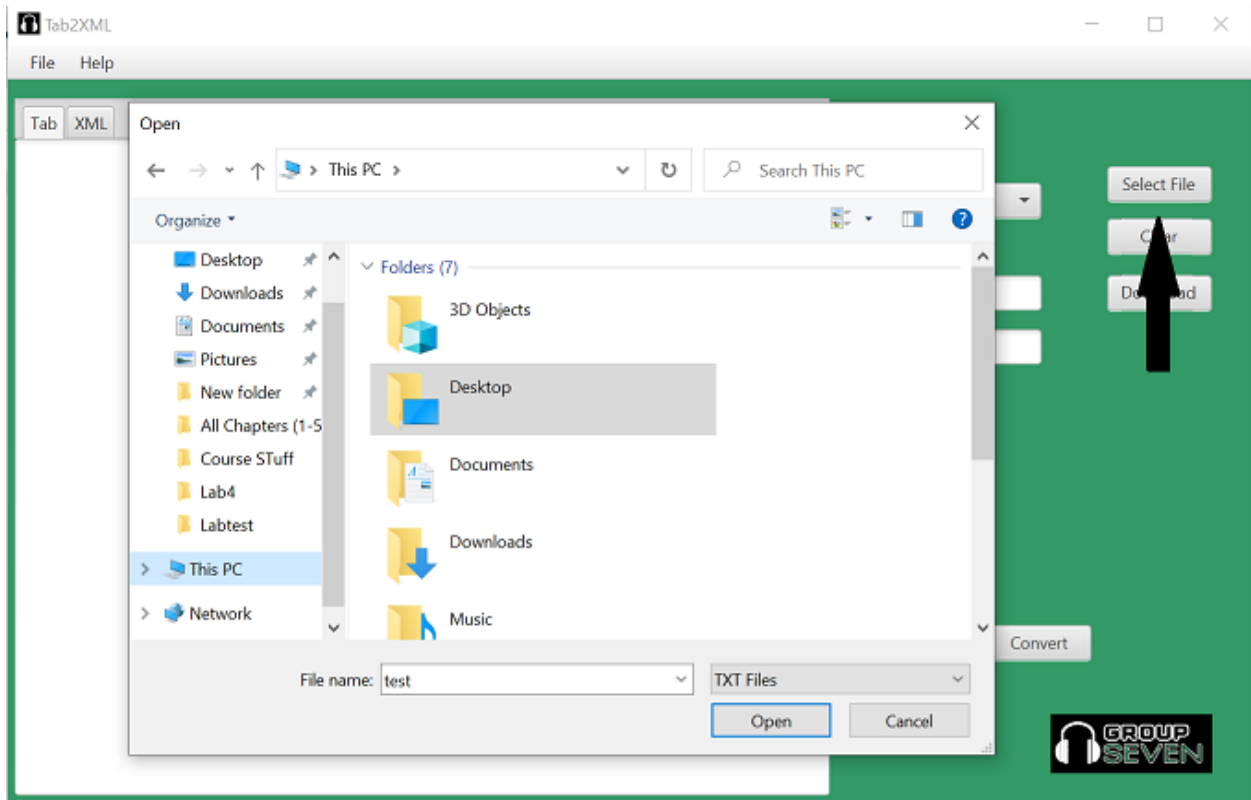
2.3 Inputting Text Tablature

2.3.1 - Pasting the tablature

Users can copy a tablature from a text file or web browser and paste it into the Text Area. From here, the user can scroll between the text and edit if needed. To change the beats and clef select from the action panel, otherwise program will auto default values
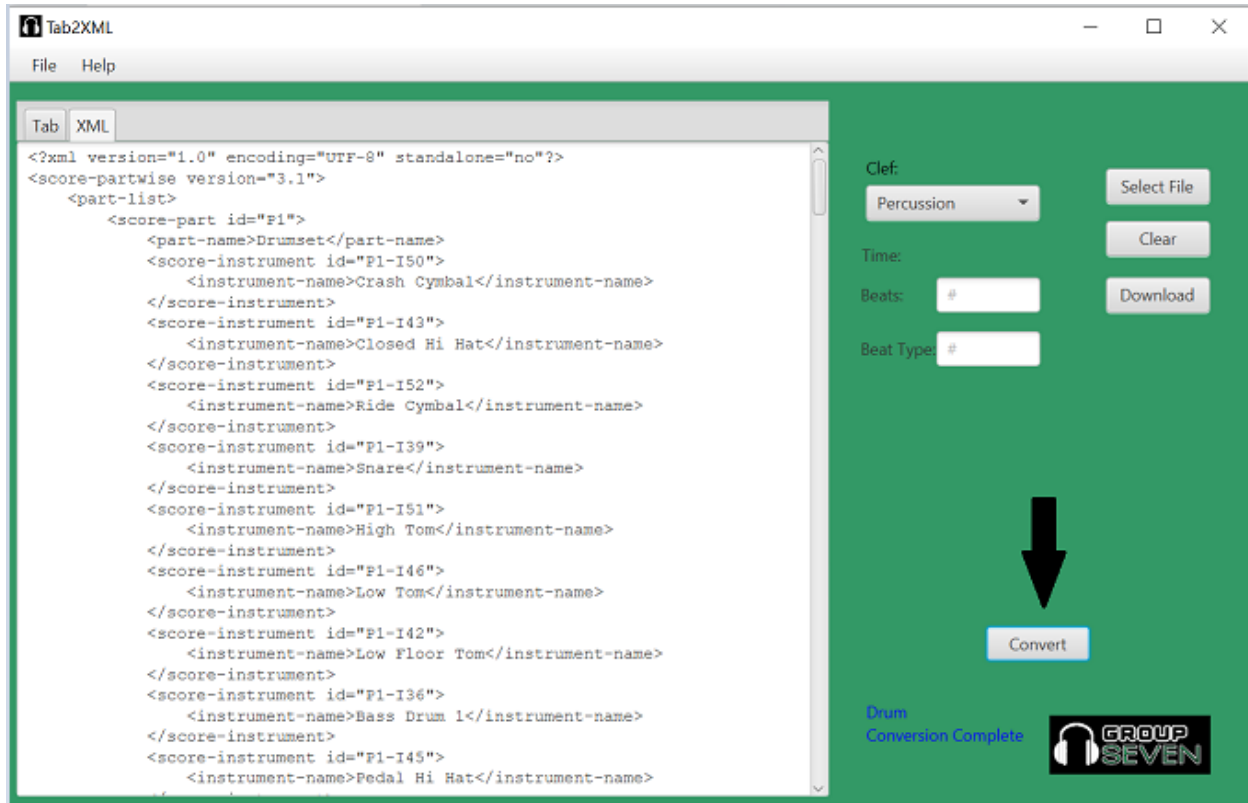
2.3.2 - Selecting File from computer

Users can press the "Select File" button and choose the file from the directory. This system only accepts ".txt" files. This will select the file and paste it into the text area.
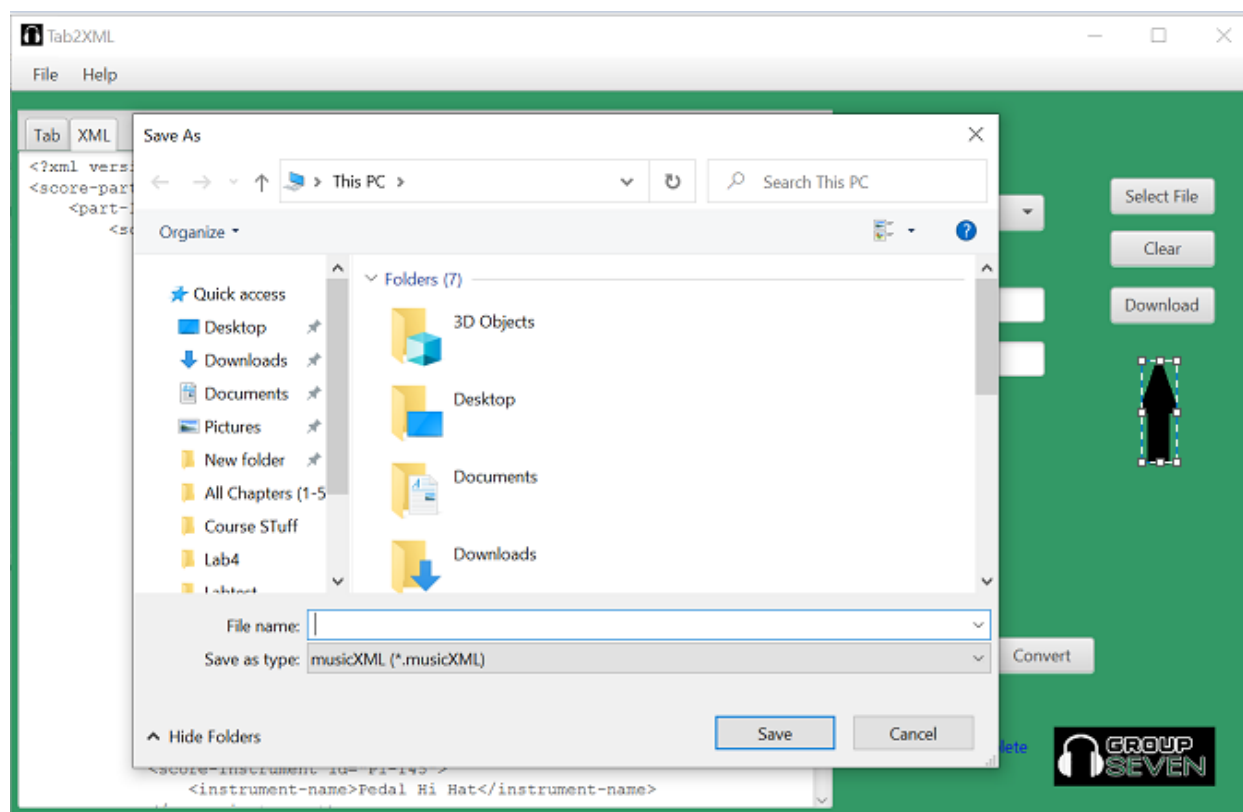
2.3 Converting

To convert the tablature the user just has to hit the convert button when the tablature is in the text area, this will convert the tablature and paste the XML file into the Text Area.
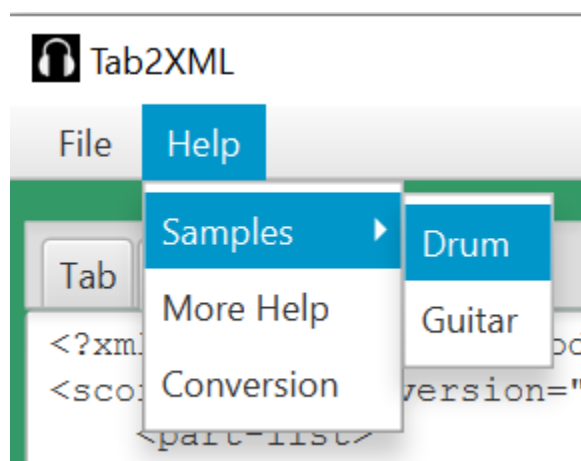
2.5 Downloading the XML

The user can have access to the XML file by clicking the download button. This will open up a directory to choose a location to save the ".xml" file.

3.1 Help Menu

The user can open the help menu at top to access this user manual, or pick two samples that the developers have provided for formatting. It also has a conversion button where it takes you to a website or conversion.

3.2 Troubleshoot Codes

Error Code #001: User has entered invalid tablature or a tablature that is not supported.

Error Code #002: User has tried downloading a file when the file is empty.

Error Code #003: User has incorrect inputs for beats or beat type.