



User Manual

EECS 2311 – Group 6

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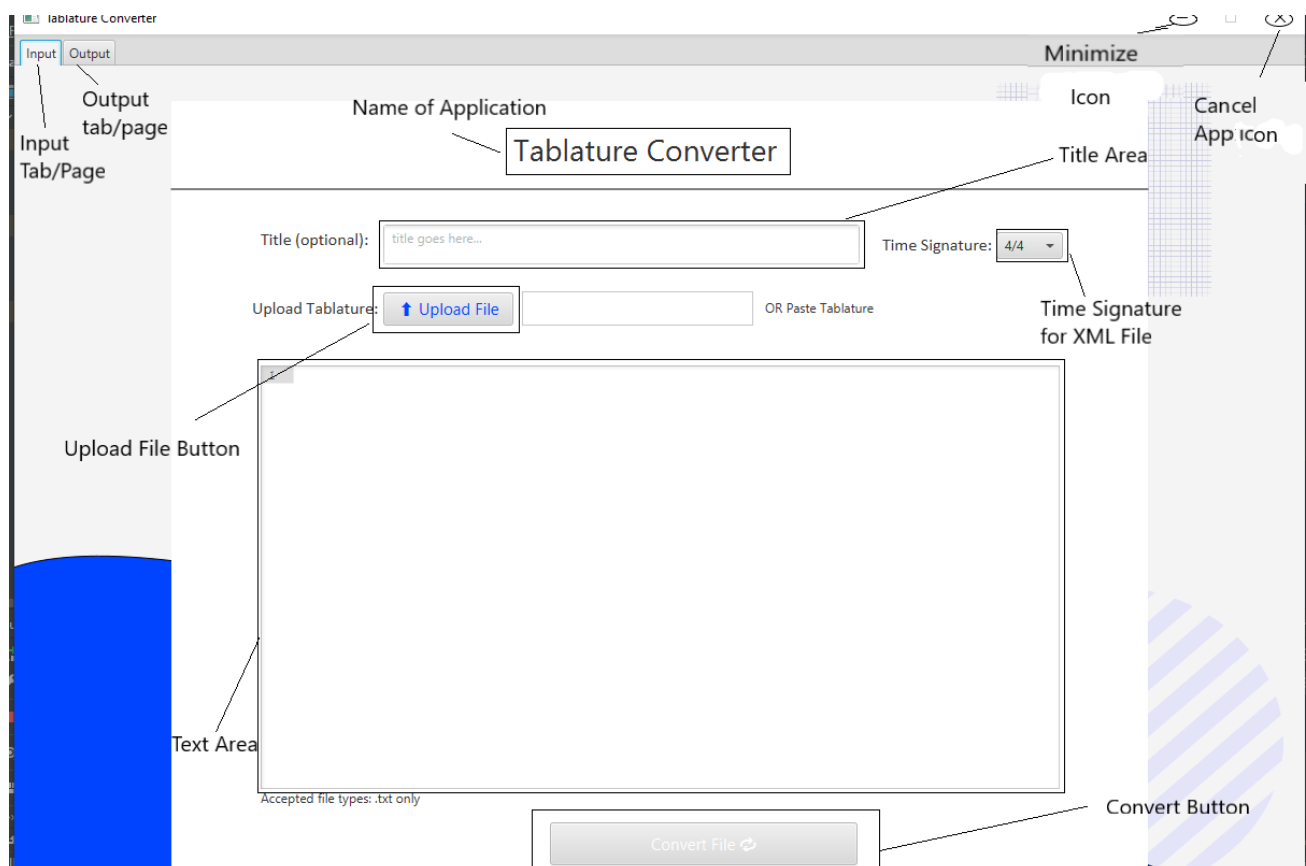
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Table of Contents

1.1.Application Interface:	3
1.1.1.Input Tab/Page:	4
1.1.2.Output Tab/Page:	4
1.1.3.Upload File Button:	4
1.1.4.Text Area:	5
1.1.5.Convert Button:	5
1.1.6.Title Area:	5
1.1.7.Time Signature:	5
1.1.8.Minimize Icon:	5
1.1.9.Cancel App Icon:	5
2.1.How to Set Up the Program	6
3.1.How to Use TablatureConverter	10
3.1.1.Importing Text Tablature to Application	11
3.1.2.Editing Tablature File	13
3.1.3.Converting Tablature File	13
3.1.4.Viewing Converted File	14
3.1.5.Saving Converted File	14
3.1.6.Returning To The Main Page	15
3.1.7.Closing The Application	16

4.1.Usage Scenarios	17
4.1.1.User File Editing	17
4.1.2. File Conversion	17
4.1.3.Save Converted XML File	17
4.1.4. Pasting The Contents Of a Text File	18
4.1.5. Adding Title For ConvertedXML	18
4.1.6.Selecting Time Signature	18
5.1.Troubleshooting	19
5.1.1 Empty Tablature	19
5.1.2 Misaligned Tablature	19
5.1.3 Incorrect Tuning Letters	19

1.1.Application Interface:



1.1.1.Input Tab/Page:

This page is the home page, it allows users to impute and edit tablature files for conversion into a MusicXML file

1.1.2.Output Tab/Page:

This page displays the converted MusicXML file, it allows users to view converted MusicXML file and save it as well

1.1.3.Upload File Button:

This upload file button opens your file explorer when clicked in order for you to access a tablature file for conversion

1.1.4.Text Area:

This is an area where the intended tablature file for conversion is displayed, edits can be made in this area before and after the conversion process

1.1.5.Convert Button:

This button converts the contents of the selected tablature file which is in the text area

1.1.6.Title Area:

The Title Area in Tablature Converter is a function that is used to ascribe title names for the converted MusicXML file

1.1.7.Time Signature:

The Time Signature function is used to set the Time Signature for the MusicXML file depending on the user.

1.1.8.Minimize Icon:

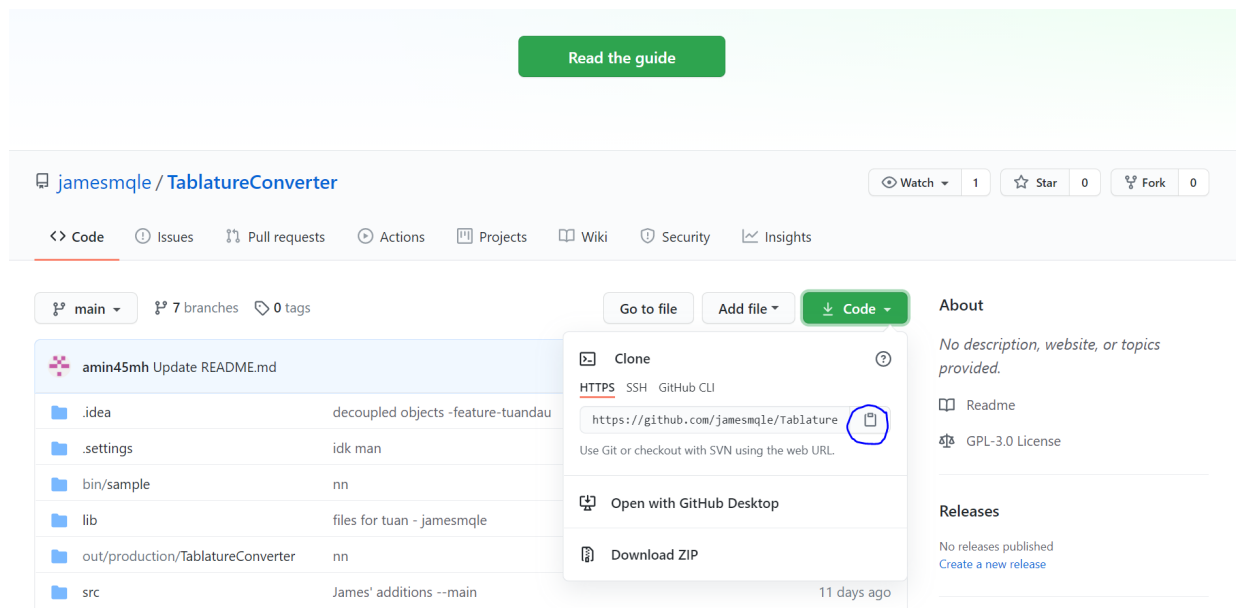
This icon minimizes the application into the systems/windows tray

1.1.9.Cancel App Icon:

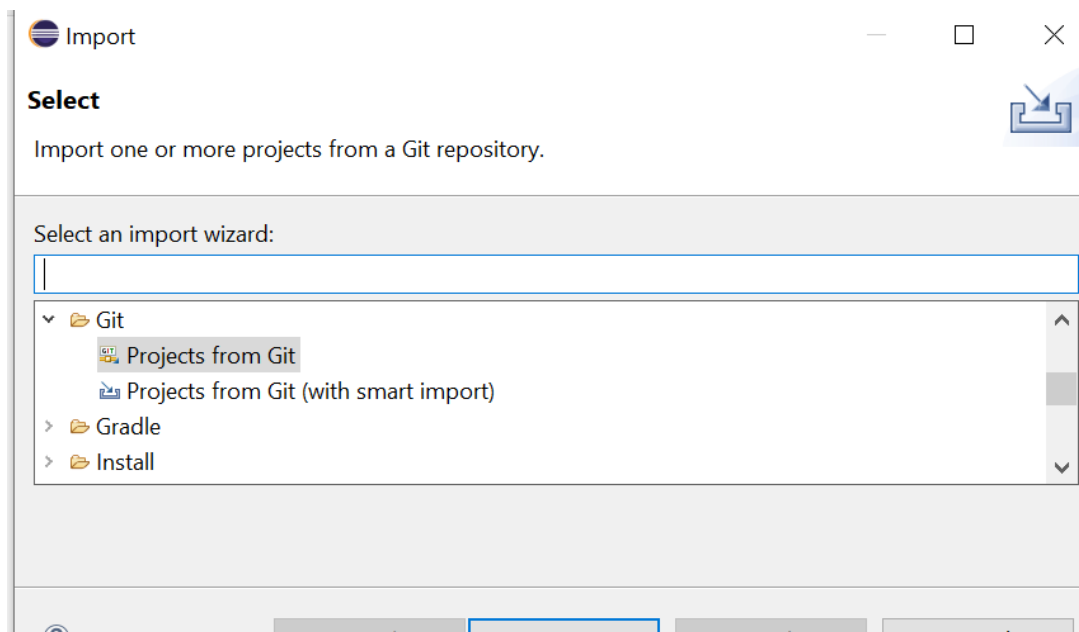
This is the exit icon, it removes the current window from the screen and closes all functions of the application.

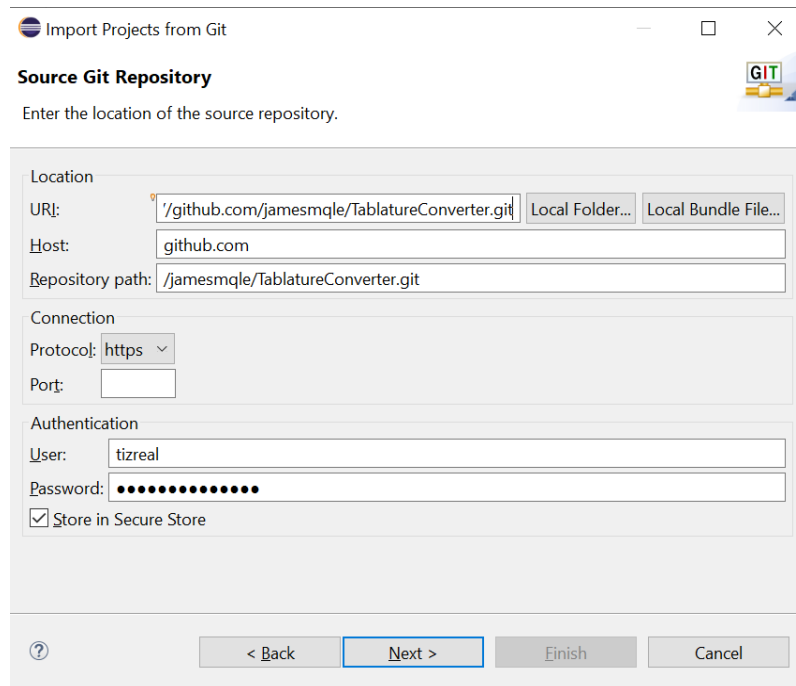
2.1.How to Set Up the Program

1.Download the ZIP in the repository and unzip the file or click on the clipboard icon to clone URI on Eclipse

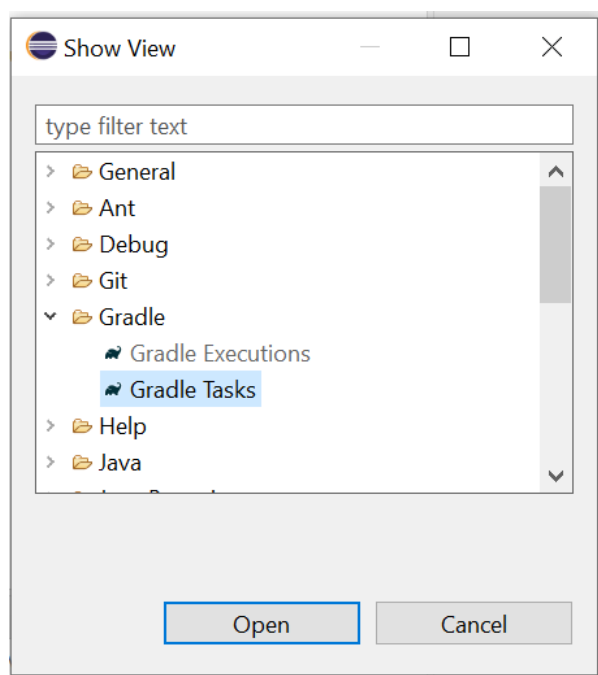


2. Open Eclipse -> Import -> Git -> Projects from Git -> Clone URI -> Paste the URI into the appropriate URI box -> Next -> Finish.





3. Click on Window → Show view → Other → Gradle → Gradle Tasks → Open




4. Click on the drop down icon on the TablatureConverter project from the Gradle Tasks window, and then click on application -> run.



5. The program is now running!

3.1.How to Use TablatureConverter

Upon program start-up, the following window will open up.



The screenshot shows the 'Tablature Converter' application window. The window has a title bar with the text 'Tablature Converter' and standard window controls (minimize, maximize, close). Below the title bar is a tabbed interface with 'Input' and 'Output' tabs. The 'Input' tab is active, displaying the following elements:

- Title (optional):** A text input field containing 'title goes here...'.
- Time Signature:** A dropdown menu showing '4/4'.
- Upload Tablature:** A section with an 'Upload File' button (indicated by a blue upward arrow) and a text input field.
- OR Paste Tablature:** A label next to the text input field.
- Text Area:** A large, empty text area for pasting tablature, with a small '1' in the top-left corner.
- Go-To-Measure:** A text input field and a 'Go' button.
- Accepted file types:** A label indicating 'Accepted file types: .txt only'.
- Convert File:** A large button at the bottom center with a circular arrow icon.

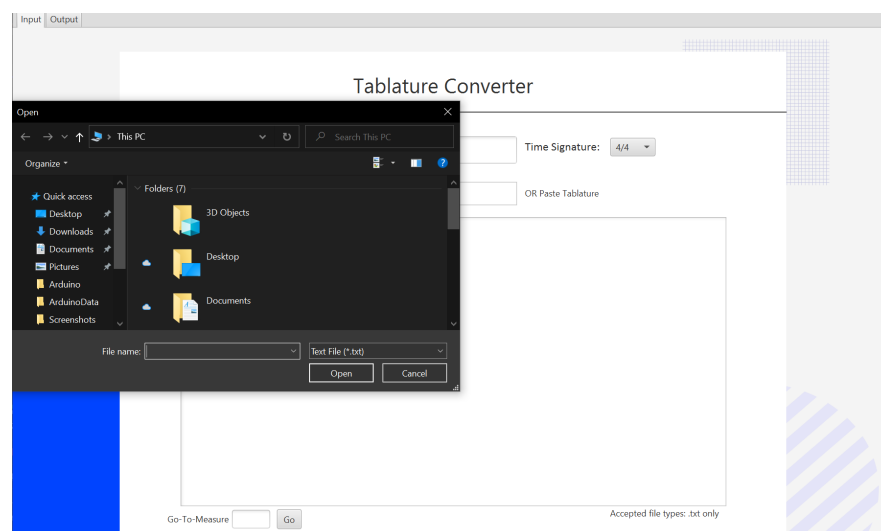
3.1.1.Importing Text Tablature to Application

There are multiple ways to do this:

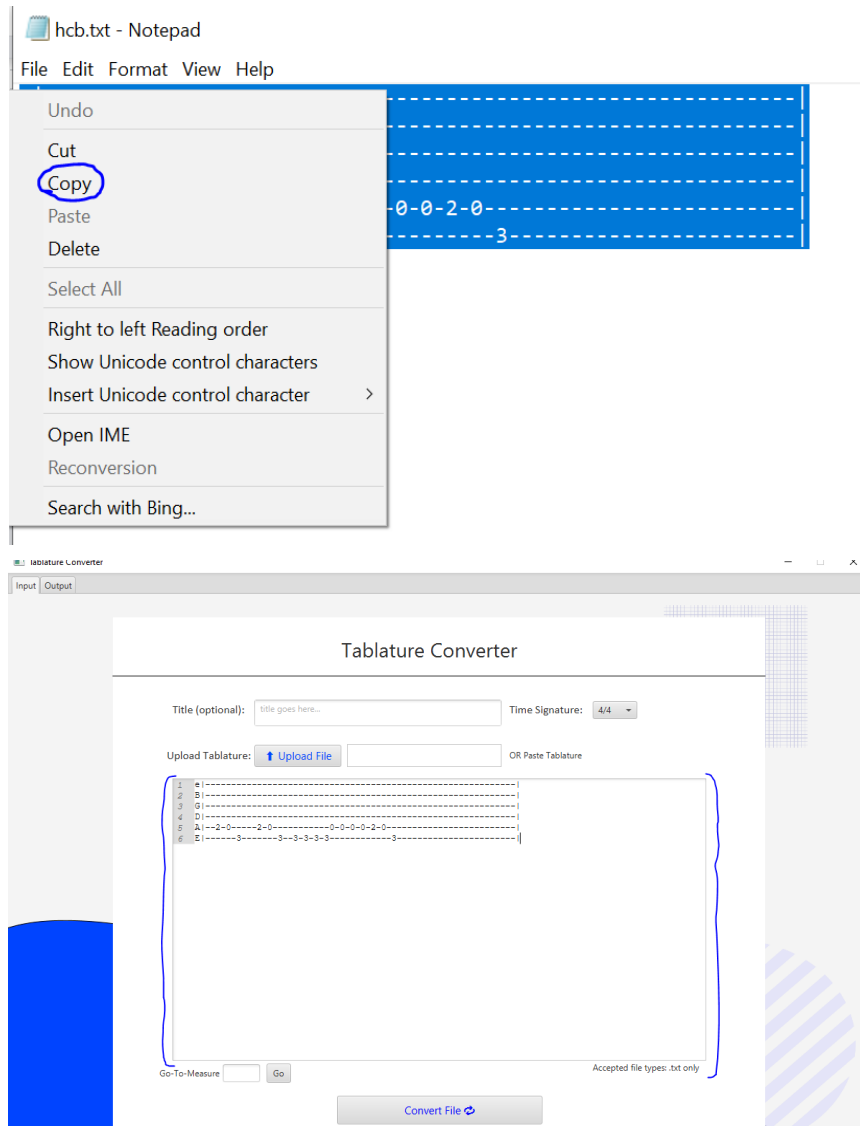
- a. Step 1: Press the “Upload File” button



Step 2: Choose a text file in the program’s file explorer. Contents of the chosen file will be displayed in the textarea at the bottom, which can be edited.



- b. Paste already copied tablature from clipboard to the textarea by pressing the **Ctrl** button + **V** the same time



3.1.2.Editing Tablature File

Edits can be made to the Tablature File before conversion by making required adjustments to the contents in the text area .

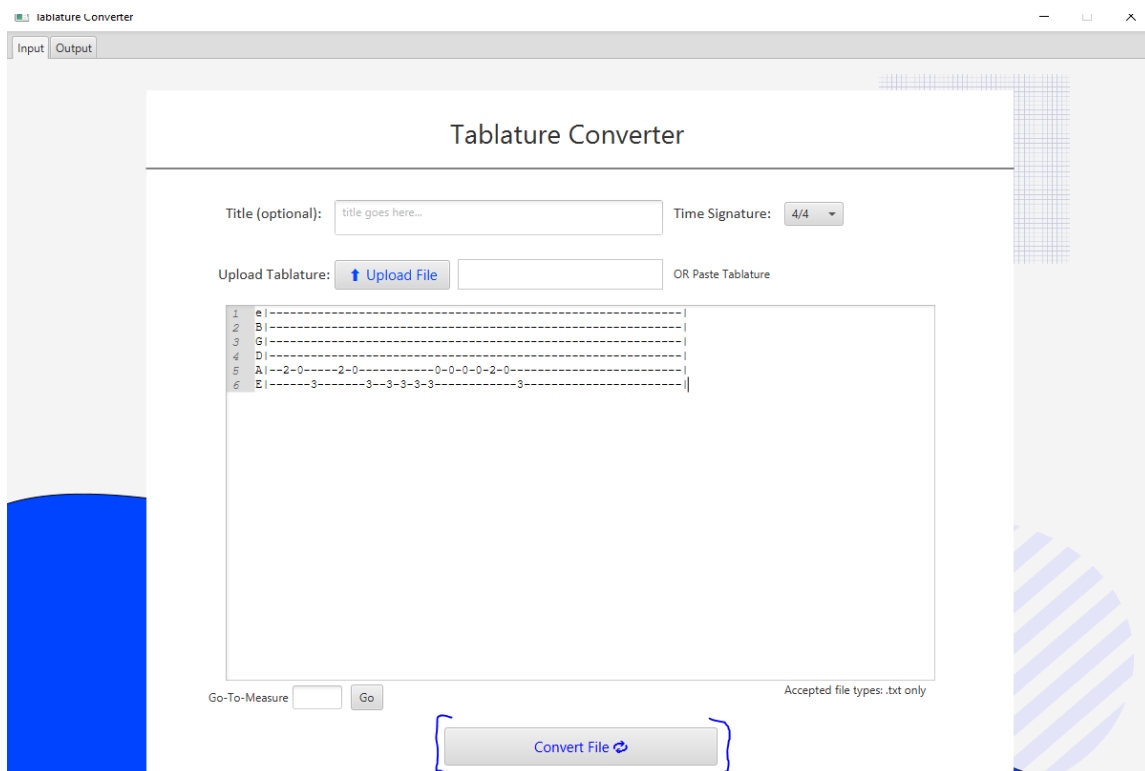
The screenshot shows the 'Tablature Converter' application window. It has a title bar with 'Input' and 'Output' tabs. The main content area is titled 'Tablature Converter'. It features a 'Title (optional):' text box with the placeholder 'title goes here...', a 'Time Signature:' dropdown menu set to '4/4', and an 'Upload Tablature:' section with an 'Upload File' button and a text box. To the right of the text box is the label 'OR Paste Tablature'. Below these is a large text area containing a sample tablature for a six-string instrument, with lines numbered 1 to 6. The tablature is as follows:

1	e		-----	
2	B		-----	
3	G		-----	
4	D		-----	
5	A		-2-0-----2-0-----0-0-0-2-0-	
6	E		-----3-----3--3-3-3-3-----3-	

Below the text area is a 'Go-To-Measure' input box and a 'Go' button. At the bottom right, it says 'Accepted file types: .txt only'. A large 'Convert File' button with a circular arrow icon is at the bottom center. A blue bracket on the left side of the text area indicates the editing region.

3.1.3. Converting Tablature File

Press the “Convert File” button when ready to convert Tablature file into a MusicXML file.



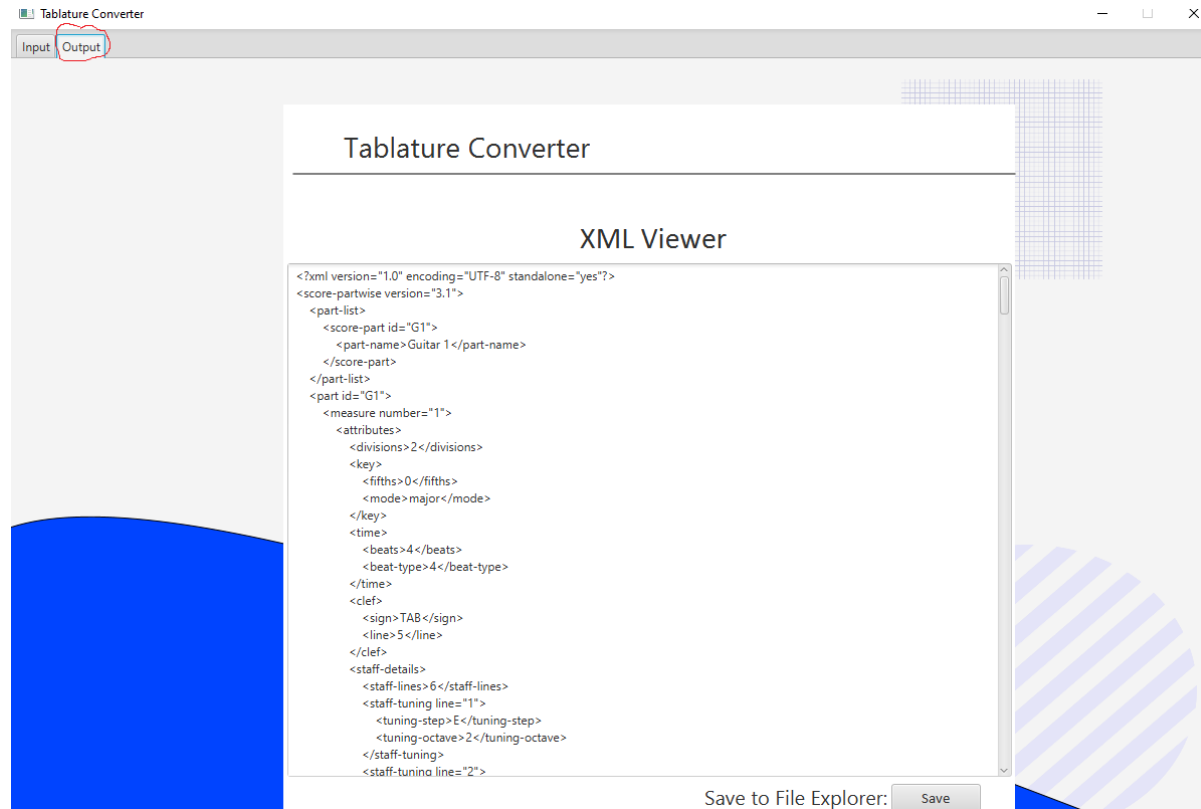
The screenshot shows the 'Tablature Converter' web application. At the top, there are 'Input' and 'Output' tabs. The main area is titled 'Tablature Converter'. It features a 'Title (optional):' text input field with the placeholder 'title goes here...', a 'Time Signature:' dropdown menu set to '4/4', and an 'Upload Tablature:' section with an 'Upload File' button and a text input field. To the right of the upload section is an 'OR Paste Tablature' label. Below these is a large text area containing a sample guitar tablature for six strings (E, A, D, G, B, E) with various fret numbers and bar lines. At the bottom left, there is a 'Go-To-Measure' input field and a 'Go' button. At the bottom right, it says 'Accepted file types: .txt only'. A blue bracket highlights the 'Convert File' button at the bottom center.

Note: The program will only convert the text contained in the textarea

3.1.4. Viewing Converted File

The conversion is complete. An output menu will appear.

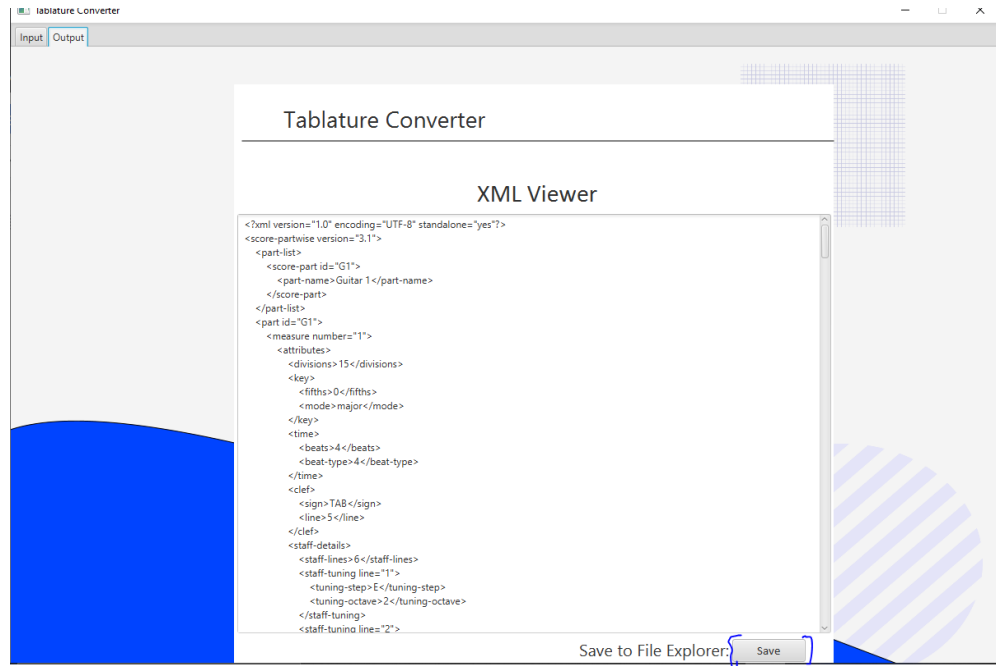
You can view the converted Tablature file in the Output page under the text area labelled “XML Viewer”.



3.1.5. Saving Converted File

The conversion is complete, want to save your converted file? An output menu will appear.

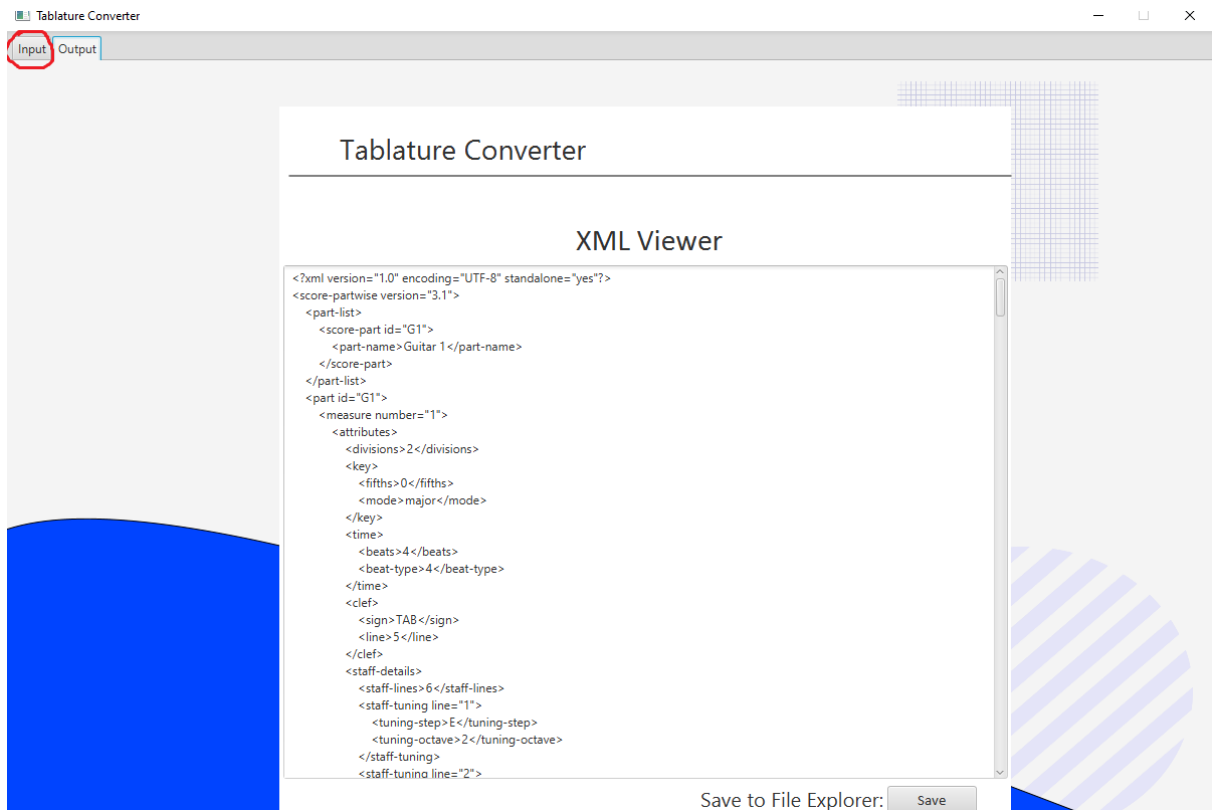
Press the “Save” button to save the converted XML file to a specified file path in your local file explorer.



Note: A conversion process must occur before anything can be viewed in the Output page

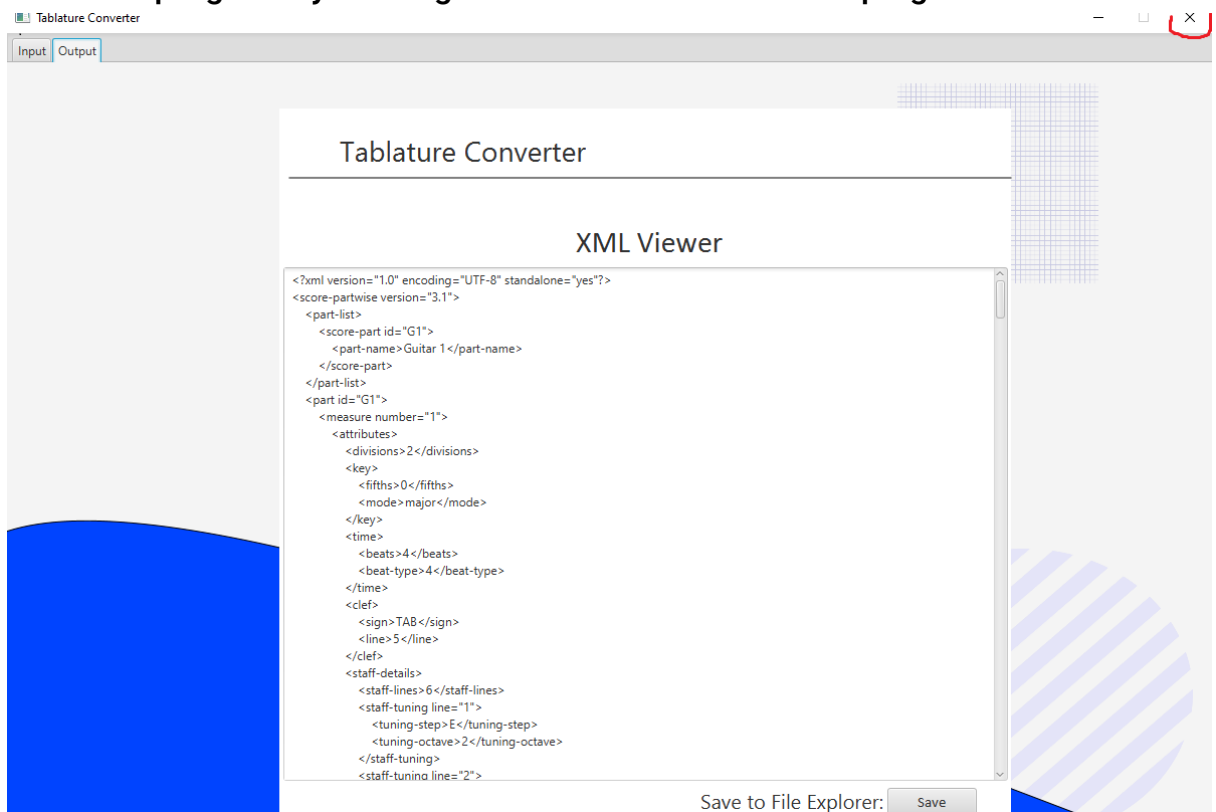
3.1.6.Returning To The Main Page

Press the “Input” button to return to the previous page in order to convert another file.



3.1.7. Closing The Application

Close the program by clicking on the “x” button in the top right corner



4.1.Usage Scenarios

4.1.1.User File Editing

A beginner musician has uploaded a tab file to the program, and wants to edit the tablature in the text area before converting it to a MusicXML file.

1. The user selects the tablature file in the program's file explorer and the text file contents are displayed in the textarea on the right side of the menu.
2. The user decides he wants to edit his tablature within the textarea. They can do so by clicking into the textbox and typing in their changes.

4.1.2. File Conversion

A music teacher who has guitar tablature in a text file wants to convert it to a MusicXML file.

1. The user selects and uploads a text file containing tablature.
2. The system detects which instrument the tablature is describing.
3. The system converts the text file into a MusicXML file for the appropriate instrument.
4. An output preview of the conversion can be displayed if the user presses the "Open MusicXML" button in the "Conversion Complete" menu.

4.1.3.Save Converted XML File

A music professor wants to save their converted MusicXML file to their local file explorer.

1. The user starts the program.
2. The user uploads a text tablature to the system.
3. The user converts the text file.
4. The system successfully converted a text file.
5. User clicks "Save File" and saves the XML file to a local folder.

4.1.4. Pasting The Contents Of a Text File

A music researcher wants to convert a guitar tablature which is in a text file into a MusicXML file.

1. The user starts the program
2. The user pastes already copied text into the textarea

4.1.5. Adding Title For ConvertedXML

PianoClubHouse wants to add a Title to the converted MusicXML file.

1. The user starts the program
2. The user includes a title in the title area before conversion.

4.1.6. Selecting Time Signature

The Redeem choir wants to select a time signature for a converted MusicXML file.

1. The user starts the program
2. The user clicks on the drop down icon under Time Signature and picks a selected Time Signature.

5.1.Troubleshooting

5.1.1 Empty Tablature in Text Area

This error message shows when there is no tablature file in the Text Area and the “Convert Button” is clicked. This can be fixed by imputing a tablature file to be converted as stated in [Importing Text Tablature to Application](#)

5.1.2 Misaligned Tablature

This occurs as a result of wrong formatting of the Tablature File due to wrong measure lengths. The user can correct this by making sure each line is of the same length, the program would be able to make adjustments and correct it.

5.1.3 Incorrect Tuning Letters

This error occurs when the tuning letters are incorrect in the tablature file. Corrections can be made manually by the user in order to get the appropriate tuning of the file.

5.1.4 Invalid Tablature Format

This error occurs as a result of wrong formatting of the Tablature File. An example of a situation when this could happen is when a user types “asedqwert” into the text area and clicks on the ConvertButton, in general any text file that doesn’t follow the standard tablature format conventions would lead to an error message while converting. This can be fixed by re-uploading the tablature file, copying and pasting the tablature file again as stated in [Importing Text Tablature to Application](#). More references can be made from [Tablature Notation](#).