



**Tab to MusicXML**

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## **User Manual**

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**Version 1.0**

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## **1. Introduction**

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The purpose of this document is to serve as a user manual and provide the users of Tab to MusicXML with a detailed, step-by-step guide on how to install and use the software. The intended audience for this document includes the testers for our application, as well as our customer. This document should cover all the relevant use cases for the most up to date version of our application, further version changes will be reflected in this document as well.

## **2. Overview**

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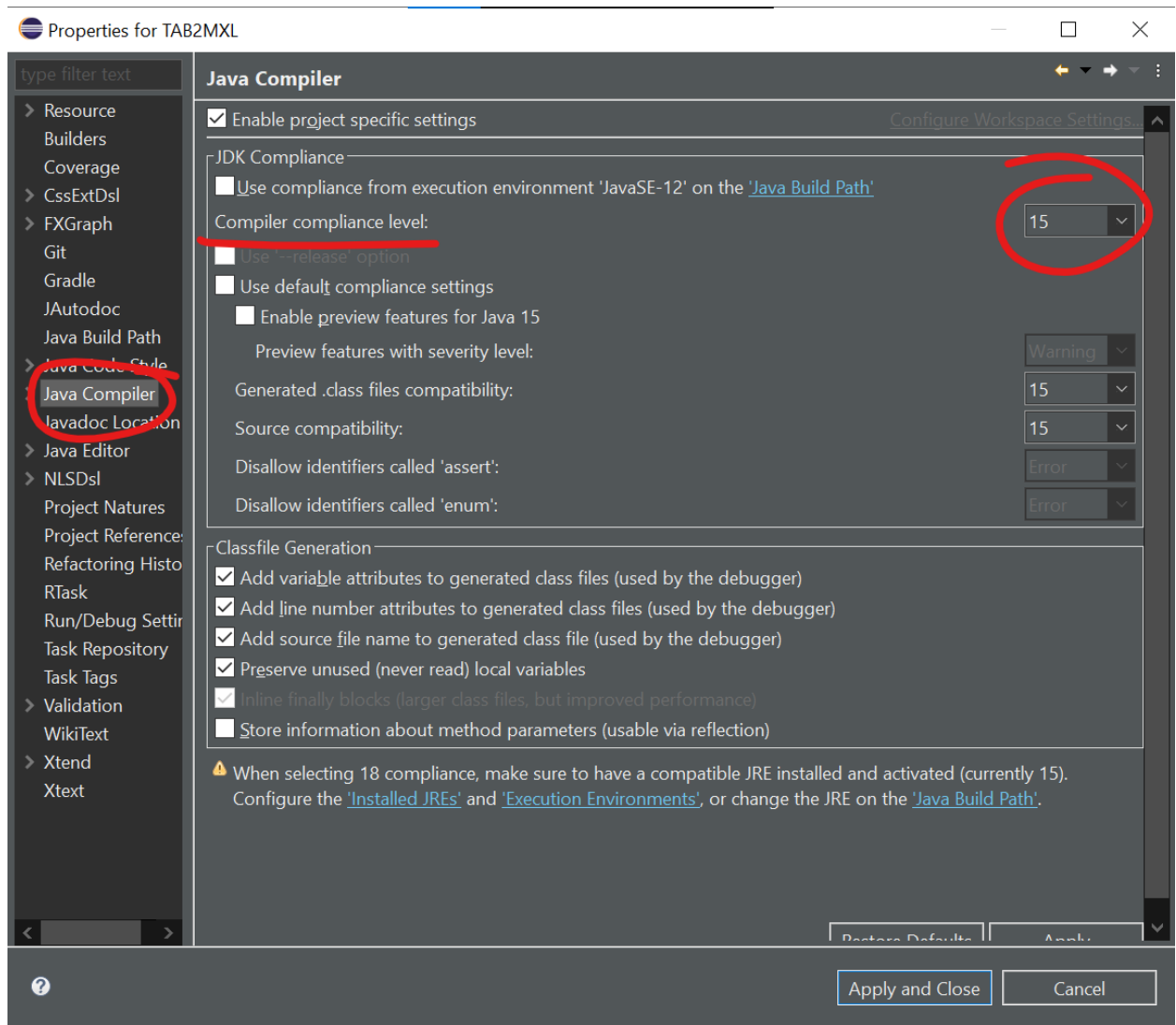
The purpose of the Tab to MusicXML software is to provide the user with a simple and easy-to-use tool to convert ASCII tablature to MusicXML. It is a standalone Java based desktop application that can be run offline. The user will interact with our software through a graphical user interface that will be simple and easy to use. The application will allow the user to import a tab of their choosing, fill in any extra options, and export it into a music XML file.



## 3. Getting Started

### 3.1 System Requirements

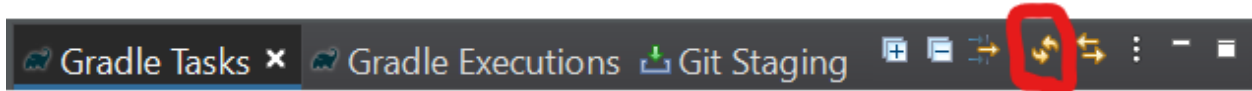
Before installing the software, please ensure that you have Java-15 installed on your computer. If not, please follow this link to download it <https://www.java.com/en/download/>. To check if you have it, go to **File** → **Properties** → **Java Compiler** → **Compiler Compliance Level** → **15** (Check screenshot below for reference).



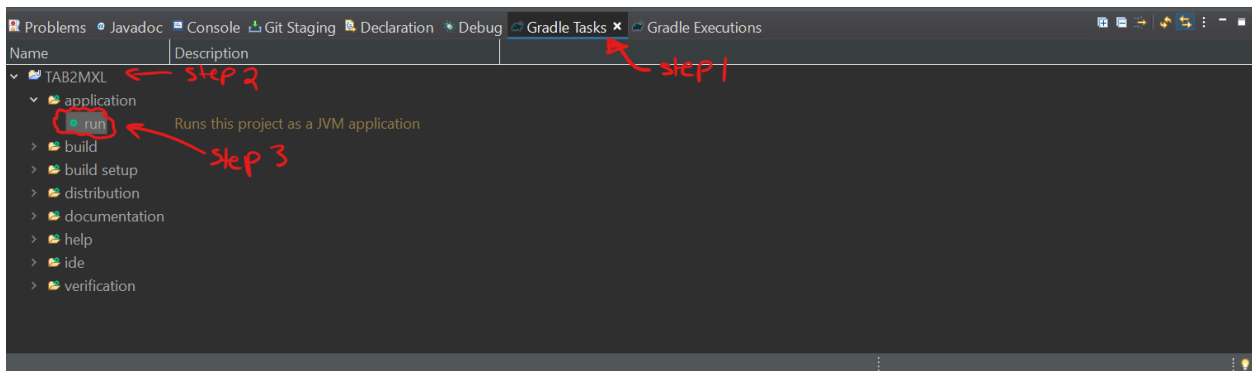
## 3.2 Installing the System

To install and run the software:

1. Clone the repository from GitHub: <https://github.com/alborzdev/2311-Project>
2. Make sure that you are in the **master branch**
3. If you do not see the “Gradle Tasks” window in Eclipse (see image below). Go to **Window → Show View → Other → Gradle Tasks**.
4. Refresh the gradle tasks.



5. Click on the TAB2MXL folder → application → run (double click).



## 3.3 Exiting the System

You may exit the system simply by:

- Clicking the “x” button at the top right of the screen,
- In the menu bar: File → Exit

## 4 Using the System

When you run the software (See [section 3.2](#) on how to install and run the software), you will see the following main screen:

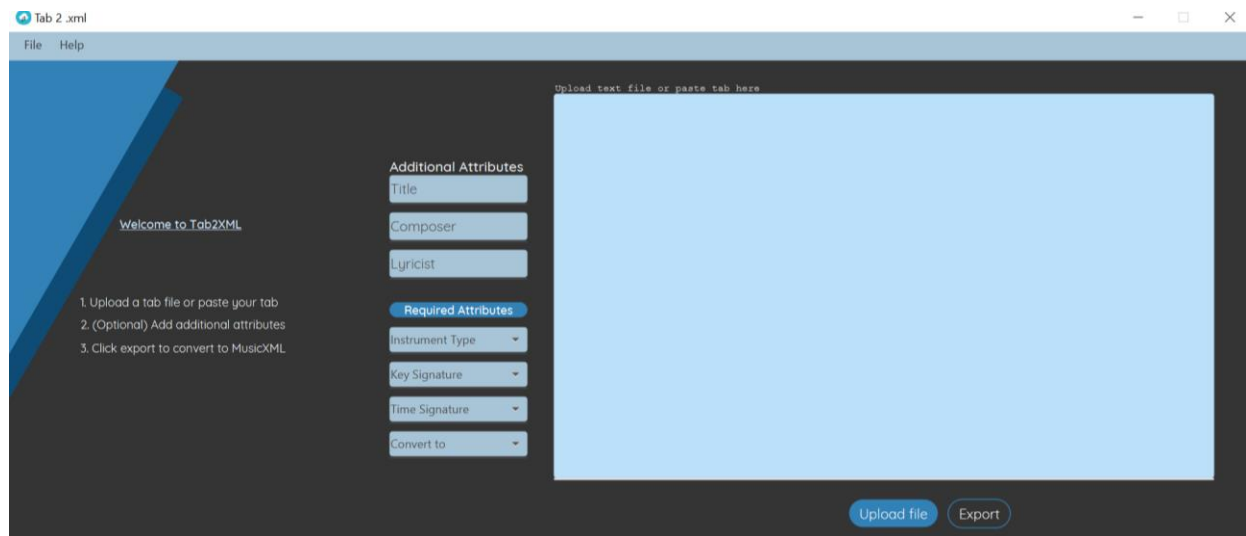


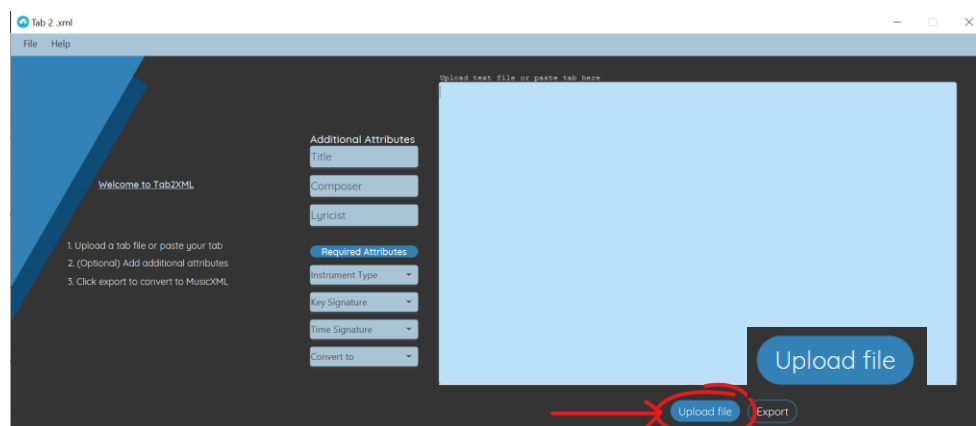
Figure: Software Main Window

The following subsections provide detailed, step-by-step instructions on how to use the various functions or features of the Tab to MusicXML software.

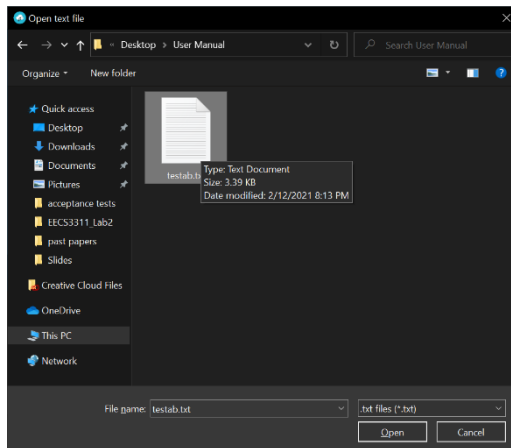
### 4.1 Uploading a tab as a text file (\*.txt)

To export a MusicXML file, the user needs to import an ASCII tab of their choosing into the program. One way they might choose to do this is through uploading a text file containing the tab. First, the user must click on the **Upload File button**. Then, a window will pop up, prompting the user to specify the location of their file and select it. The user should then see the **tab from the file in the text area**, where they can edit it if they wish.

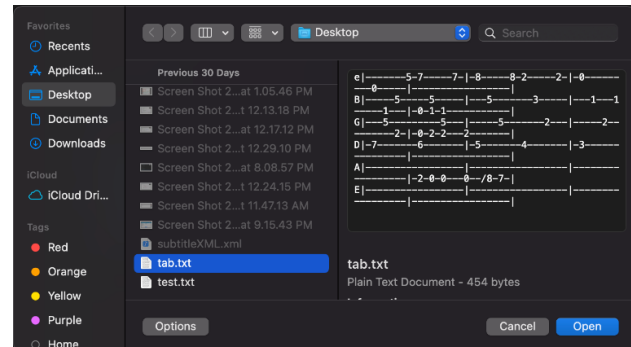
Click on the “Upload file” button to import a tab.



Select a .TXT file that contains supported tablature.



(On Windows)



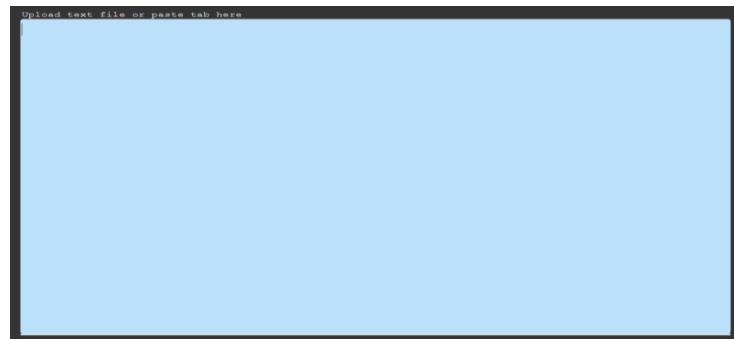
(On Mac)

You can now view your imported tab in the text area.



## 4.2 Pasting tablature into the text area

Another way for the user to input their tab is to paste it directly into the text area. They can click on the big box and paste, type, and/or edit their tab until they are satisfied.

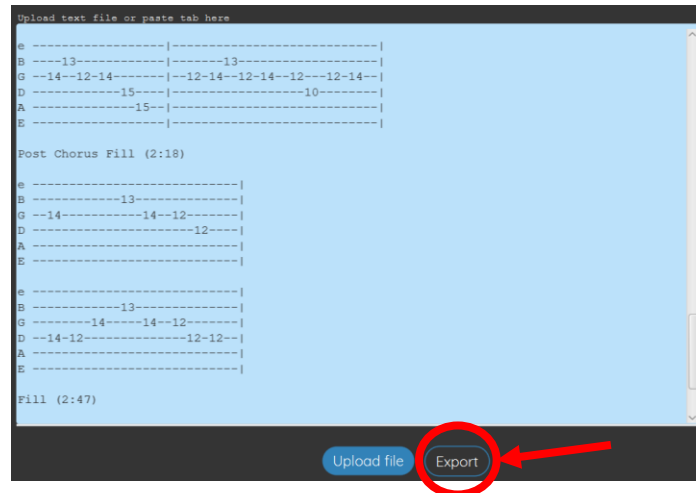




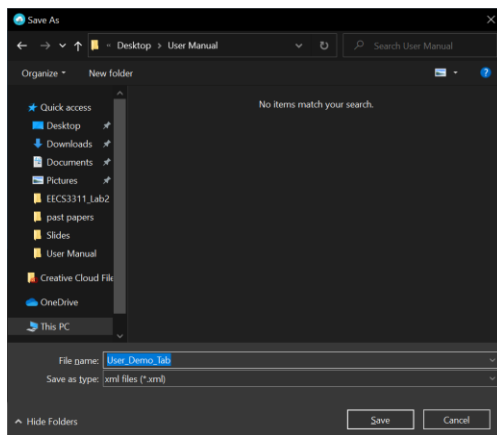
### 4.3 Exporting a MusicXML file

Once the user is satisfied with their tab, they can convert the tab into a MusicXML by clicking the “Export” button. A window will then pop up, prompting the user to specify the name of the .xml file and save it in their desired location on their computer.

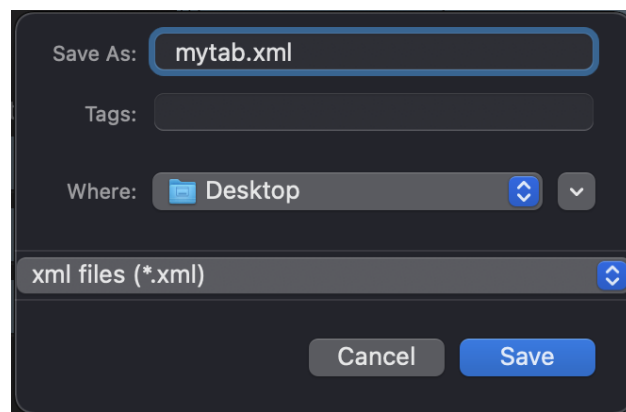
Click on the “Export” button.



Enter a filename and click on “save” to finish exporting.



(On Windows)



(On Mac)

### 4.5 Adding additional attributes into text fields

This feature allows the user to add additional attributes to the MusicXML file by clicking on the text field and typing in the attributes accordingly.

Additional Attributes	Additional Attributes
Title	This is a title
Composer	I am a composer
Lyricist	You are a Lyricist
<b>Required Attributes</b>	<b>Required Attributes</b>
Instrument Type	Guitar
Key Signature	C Major
Time Signature	4/4
Convert to	Sheet Music

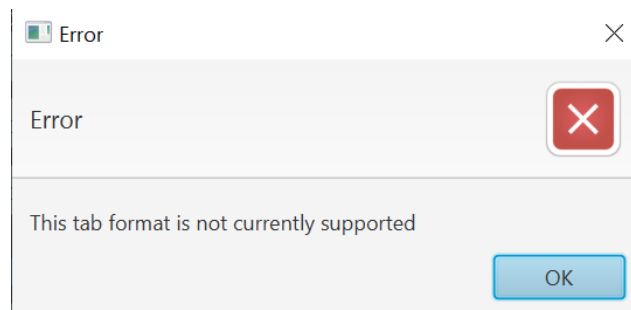
**Default values:**

- **Instrument Type:** Guitar
- **Key Signature:** C Major
- **Time Signature:** 4/4
- **Convert to:** Tab

## 5. Error Handling

### 5.1 Unsupported tab format

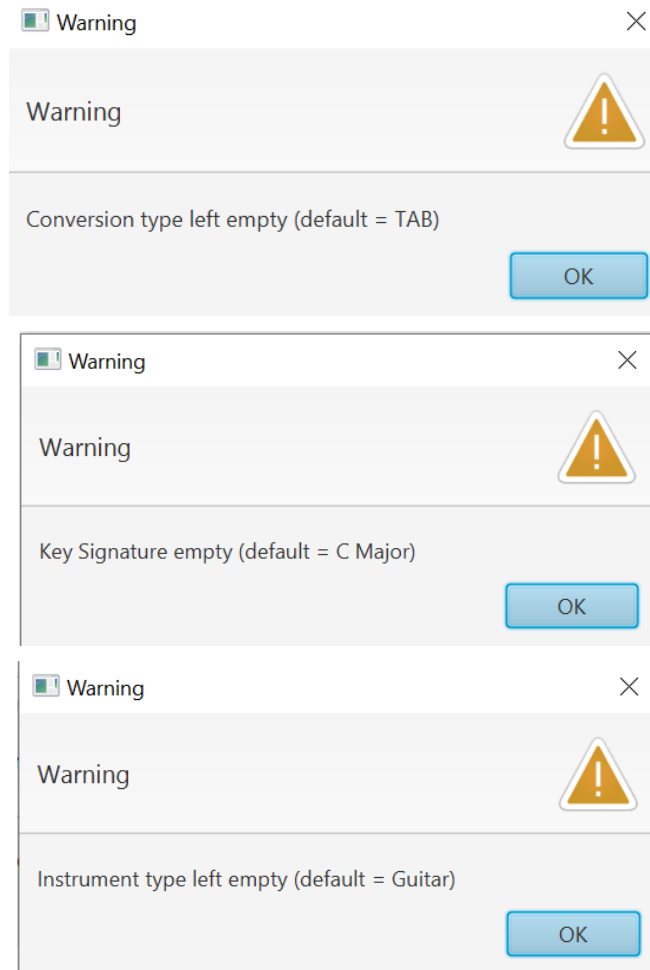
In the case of unsupported tab formats, the application will show you the following error message:



This means that the application is unable to parse through your tab and convert it to an MusicXML file.

### 5.2 Required Information Warnings

If you do not provide anything in the Instrument type, Key Signature, Conversion type combo boxes, the system will warn you of the default values that your tab will be converted to as follows:



The default value for Time Signature is 4/4. *As of right now, the default values (Guitar, 4/4, C Major) are the only correctly implemented attributes.*