

TAB TO MUSICXML CONVERTER AND PLAYER

Requirements Document

EECS 2311 -- Group 8



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PURPOSE

This document will describe what the MusicXML converter application does. It will detail use cases and user scenarios for the application.

INTRODUCTION

This section of the MusicXML converter application will convert MusicXML to sheet music and allow the user to play it.

REQUIREMENTS

Functional Requirements

A user will be able to

- Convert MusicXML to sheet music
- View sheet music
- Play sheet music
- Scrub through the music
- Save sheet music
- Go to specific measures while viewing the sheet music

Non-Functional Requirements

The system should be:

- Available 24/7
- Able to work on Windows, MacOS, Linux

USE CASES

1

Title: Display sheet music

Primary Actor: User

Success Scenario:

1. User inserts tablature

2. System identifies tablature form
3. System converts music xml to sheet music
4. System shows sheet music

2

Title: Play music

Primary Actor: User

Success Scenario:

1. User inserts tablature
2. System identifies tablature form
3. System converts music xml to audio format
4. System plays audio to user's output
5. System stops when audio is done

3

Title: Save sheet music

Primary Actor: User

Success Scenario:

1. User inserts tablature
2. System identifies tablature form
3. System converts music xml to sheet music
4. User clicks "Preview Sheet Music" to view the sheet music
5. User clicks "Save PDF" to save the sheet music as a PDF

USER STORIES

1. As a musician, I want to convert from tablature to sheet music so that I can easily read the music or make any changes
2. As a musician, I want to listen to the music shown in a tablature file so that I can make necessary changes

3. As a musician, I want to start playing the music from my desired point
4. As a Music teacher, I want to teach certain parts of the music
5. As a producer, I want to be able to change/duplicate certain parts of the large music file.