

**TAB2XML**

Design Document

**Group 6**

**Elmira Onagh**

**Irsa Nasir**

**Long Lin**

**Harjap Randhawa**

**Daniel Di Giovanni**



Winter 2022

**Table of Content**

[**1.** **Visualization of MusicXML** 3](#_Toc99158540)

[1.1. Instrument: Guitar 3](#_Toc99158541)

[1.1.1 Sequence diagram 3](#_Toc99158542)

[1.1.2 UML Class diagram 4](#_Toc99158543)

[1.2. Instrument: Drum 5](#_Toc99158544)

[1.3. Instrument: Bass 5](#_Toc99158545)

[**2.** **Playing the tablature** 5](#_Toc99158546)

[2.1. Instrument: Guitar 5](#_Toc99158547)

[2.2. Instrument: Drum 5](#_Toc99158548)

[2.3. Instrument: Bass 5](#_Toc99158549)

[**3.** **Printing the Music sheet** 5](#_Toc99158550)

[**4.** **Go to measure** 5](#_Toc99158551)

# **Visualization of MusicXML**

Based on the instrument specified in the input tablature, three different objects are created: guitar, drum, and Bass. In the following section we look at different diagrams related to creation and relationships of these classes.

### Instrument: Guitar

If the instrument of the tablature is a guitar, then a guitar class is instantiated.

#### Sequence diagram

Diagram

Description automatically generated with medium confidence

Figure1. Sequence diagram of displaying guitar tablature.

#### UML Class diagram

Graphical user interface, application

Description automatically generated

Figure 2. Class diagram of the Guitar class and it interactions.

### Instrument: Drum

### Instrument: Bass

# **Playing the tablature**

### Instrument: Guitar

2.1.1 UML class diagram

Graphical user interface, application

Description automatically generated

### Instrument: Drum

2.2.1 UML class diagram

Graphical user interface, application

Description automatically generated

2.1-2.2 Activity diagramA screenshot of a computer screen

Description automatically generated with low confidence

### Instrument: Bass

# **Printing the Music sheet**

# **Go to measure**

**Group 6**

**Elmira Onagh**

**Irsa Nasir**

**Long Lin**

**Harjap Randhawa**

**Daniel Di Giovanni**