

IKTARAA – XML Music Player

SI.NO	Title
1.	Sheets
2.	Renderer
3.	Layout Option - Unroll Scroll - Horizontal Layout - Vertical Layout
4.	Playback Control Used
5.	Source Code Used
6.	Source Code Reference
7.	Hours Spent

1. Sheets:

An option to select an already added music sheet from a list.

2. Renderer:

An audio streaming component is a Renderer. The two mentioned renderers are *OpenSheetMusicDisplay* and *Verovio*.

3. Layout Option:

There are three layout options, they are:

- **Unroll scroll:** The display scrolls in a continuous manner vertically as the song plays.
- **Horizontal Layout:** Display the score horizontally.
- **Vertical Layout:** Display the score vertically.

4. Playback Controls Used:

■: Stop

■■: Pause.

▶: Play.

5. Package Used:

- i. OpenSheetMusicDisplay:
<https://github.com/opensheetmusicdisplay/opensheetmusicdisplay>
- ii. Osmd Audio Player:
<https://github.com/jimutt/osmd-audio-player>

6. Source Code Reference:

- i. OpenSheetMusicDisplay:
<https://github.com/opensheetmusicdisplay/opensheetmusicdisplay>
- ii. Verovio: <https://github.com/rism-digital/verovio>
- iii. VexFlow: <https://github.com/0xfe/vexflow>
- iv. MusicXML Player: <https://blog.karimratib.me/demos/musicxml>
- v. Osmd Audio Player: <https://github.com/jimutt/osmd-audio-player>

Hours Spent:

1. To understand the player - 8
2. To Run the Audio - 4
3. To go through reference code - 6

SI.NO	Features	HOURS
1	Vertical Layout	20 Mins
2	Horizontal Layout	10 Mins
3	Play Button	2
4	Pause Button	30 mins
5	Stop Button	1
6	Automatic Scroller when Audio file plays	5

Total Hours: 27 Hours