

Unlock:

Client Requirements / Specification

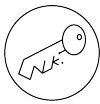
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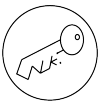


Document Control

Version	Date	Sections changed	What was changed
1.0	...	-	-

Contents

Document Control.....	2
1. Introduction.....	3
2. Both Modules.....	3
3. Graphics	3
4. Sound	3



1. Introduction

This document outlines the requirements for both module being purchased by **Unlock** from **YSD**. For communications or clarifications contact Lauren Tomasello and Liam McMahon (lt696@york.ac.uk; lm1343@york.ac.uk)

2. Both Modules

- 2.1 Both modules must be compatible with JavaFX API.
- 2.2 Both modules must have tests provided to validate correct functionality.
- 2.3 Where visual elements are included in the modules, these must be customisable using CSS.

3. Graphics

- 3.1 Supported shapes must include:
 - 3.1.1 Ellipses;
 - 3.1.2 Lines.
- 3.2 Supported shading must include:
 - 3.2.1 Linear gradients with two specified colours;
 - 3.2.2 Solid colour fills.
- 3.3 The position on screen must be specified with X, Y coordinates for the top left origin.
- 3.4 The bottom right of the shape must be specified with X, Y coordinates.
- 3.5 The stroke width and colour must be configurable for all shapes.
- 3.6 Must be able to specify whether the shape is visible or not.

4. Sound

- 4.1 Must be able to specify source audio file (wav/pcm and mp3 must be supported, others optional).
- 4.2 Must be able to specify X, Y coordinates of the sound player.
- 4.3 Following features must be supported with a user-interface as well as programmatically via the API:
 - 4.3.1 Must be able to set volume, and have mute functionality;
 - 4.3.2 Must be able to play, pause, and seek to new locations;
 - 4.3.3 Must be able to auto-play;
 - 4.3.4 The transport bar must be able to include markers, and:
 - 4.3.4.1 Must be able to click on a marker to jump to that location;
 - 4.3.4.2 Must be able to jump between markers using forward and reverse buttons;
 - 4.3.4.3 The positioning and number of markers must be easy to modify.
- 4.4 Must be able to specify whether the audio player is visible or not.