



Functional Specification: True-T Audio Handler

SwEng Group 4

1 Revision History

Date	Description	Author	Comments
25/01/2014	Version 1.0		

2 Document Approval

The following Software Requirements Specification has been accepted and approved by the following:

Group Leader:

Signature	Printed Name	Title	Date

Customer:

Signature	Printed Name	Title	Date

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3 Introduction

The following is for the benefit of the client to further understand what Moshi-Mushi will provide in regards to the contractual agreement between Moshi-Mushi and the client.

3.1 Purpose

The purpose of the provided Audio Handler will simply be to facilitate the playing of an audio file to a user.

3.2 Scope

The client will be able to integrate the audio handler into their software application with the purpose of playing an audio file.

3.3 Document Overview

The following document will describe the specified functionality of the audio handler based upon face-to-face meetings with client, in accordance with the project wide standards document.

4 General Description

The following describes all aspects of functionality of the software module along with a perspective into the use of the software module.

4.1 Product Perspective

The project wide standards and product specification both declare that all software applications produced by the participating company's must include the ability to play audio. The handlers to play audio are required to play mp3 audio files, though there is scope for companies to use various audio file types.

4.2 User Experience Scenarios

The following bullet-points describe a set of hypothetical user scenarios which shows how different users may utilise this product:

- Quentin McCarthy III is browsing through stores in his local shopping centre, looking for a new scarf. Upon seeing one he likes, he pulls out the Smart Trolley app to gather more information about pricing. He does this by using the barcode scanner, built into the application. Once the barcode has been scanned the application gives him some audio feedback to clarify it has been scanned. This feedback confirms to Quentin that the application has the information it needs and it is now gathering information on the product.
- Cynthia-Rose Petalson is enjoying using the new Spoon: interactive cookbook. She prefers it to others she's used because it has more character. She especially likes the sound effects when flicking through the steps on recipes. The sound of the action she needs to perform, e.g. chopping, help her to know exactly what utensil she needs to get before even reading what she needs to do next.

4.3 Product Functions

The following describes the functionality of the audio handler software module to be developed by Moshi-Mushi.

- The audio handler will create an audio player with the sole purpose of playing a single externally specified audio file.
- The audio player will play the relevant audio file to the user at an externally specified time.
- The playing of the audio file will last for the externally specified duration.
 - If the audio file's length is greater than the externally specified duration, the audio file will be cut short.
 - The audio player will cease to play the audio file ahead of the externally specified duration, if the length of the audio file is less than the externally specified duration.
- The application's current volume will explicitly determine the volume implemented by the audio player.
- There will be no graphical user interface for the user to interact with the audio player, and hence the audio file.
 - The audio player created by the audio handler will be hidden from the user.
 - There will be no play/pause/stop/rewind/fast forward/change volume functionality within the audio player itself.
- Playing of the audio file will not be looped. It will only be played for a single run through of its contents, as defined by the externally specified duration.
- If the audio file cannot be played because the specified audio file does not exist or the url path is incorrect, the relevant audio player will not be created.

4.4 Non-Goals for this Project

Although the javaFX media player allows for greater functionality, only the necessary functionality will be implemented. The client may extend on this handler how they please, hence the client is in control of the non-goals.

4.5 General Constraints

Constraints are defined by the javaFX platform. These may included audio file type and audio file size.

4.6 Assumptions and Dependencies

The audio file (from a file path or url), start time, and play duration will be defined at a point in the application external to the audio handler.

5 References

References are not directly cited within this document but have been used as a basis for the structure of this functionality specification.



Moshi-Mushi

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[1] <http://www.oracle.com/technetwork/java/javafx/overview/index.html>, Oracle, *JavaFx – The Rich Client Platform* [Online]