

Software Requirements Document

Treasure Box Braille Authoring Application

EECS 2311 Group 3

Overview

The purpose of this application is to be a tool to view, edit and create scenarios for the Treasure Box Braille (TBB) device. Through it, clients will be able open and edit existing TBB scenario files, and create new ones from scratch.

The target audience for this project are primarily teachers and educators of visually impaired students. The program will function as a tool for them to dynamically teach students braille through TBB scenarios.

Scope

The “Treasure Box Braille Authoring Application” is a desktop application which enables users to view, edit and create scenarios for the TBB in an intuitive and simple way. The scope of the project is as follows:

- View TBB scenarios that are in .txt format
- Identify if a text file is a TBB scenario
- Edit existing TBB scenarios that are in .txt format
- Create new TBB scenarios
- Save any changes made to an existing TBB scenario
- Save any created TBB scenarios as a text file that can later be reopened
- Test existing or created TBB scenarios using a software simulator
- Have accessibility support for visually impaired users

Mobile support is not planned at this point in time.

Use Cases

- Teachers creating scenarios for visually impaired students as a way to learn braille
- A dynamic way to create scenarios for reading braille
- Viewing and editing existing scenario files
- Writing books/text in braille for those who are visually impaired

Acceptance Test Cases:

- Successfully opens and correctly displays a scenario text file
- Allows editing and saving of an imported scenario text file
- Throws error if imported file is not a scenario file
- New scenario files can be created, edited and saved
- Scenario files can be tested using virtual TBB
- Usable by someone who is visually impaired