

SDP-16 Treasure

Treasure Box Braille

Software Requirements Document

Overview of the System

The Treasure Box Braille (TBB) System is an application whose purpose is to assist visually impaired students to learn the written language of Braille. The TBB runs on Scenario files which are automated lessons interactive lessons created by instructors for their students to use. Through our software application instructors will have the ability to create, edit and run scenario files. Visually impaired users will also be able to make use of screen readers in order to perform UI functions.

System Use Cases

Case #	Use Cases Description
1	Reading Scenarios <ul style="list-style-type: none">Scenarios can only be read if file name and contents are validThe software interprets scenarios correctly and follows instruction in the scenario
2	Creating Scenarios <ul style="list-style-type: none">User can use software to create a new scenario file and specify the contentsThe file that's created automatically follows all conventions required for scenario filesExisting scenario files can be edited by the user using the software to add, remove and edit the current scenario.
3	Recording Audio <ul style="list-style-type: none">User should be able to record audio and save it in the correct format using the program.User can refer to the created audio file by making the software add a reference to the scenario file.
4	File Explorer <ul style="list-style-type: none">User should visually be able to see the computers directory and contents to choose and create scenario files.
5	GUI <ul style="list-style-type: none">User interface should be easy to use and have all the functions that are implemented in the software's model.

Acceptance Use Cases

The software should have the following use cases by the end of its development cycle:

- Can successfully open Scenario files that pertain to the proper file syntax (proper name, commands order, command syntax, etc.)
- Properly formatted scenarios can be run by the TBB simulation software.
- Properly formatted scenarios can also be edited by the client by using the editor GUI.
- Editor GUI can create properly formatted scenarios and save it under a valid file name
- Have accessibility support for screen readers. (NVDA and ORCA)
- A file explorer should be used to let users choose their scenario files.
- File explorer should be compatible with the screen reader