Requirements

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Introduction

Purpose

The authoring app was created in order to help teachers or people with disabilities who are visually impaired create files for the Treasure Box Braille reader (TBB). The TBB would allow users to interact with a braille unit that can display letters or number and also answer questions. The authoring app is what is used to design the questions for the TBB.

Objective

Our objective as a group is to create a desktop application that is used to design the scenario files. Below is a list of requirements that we needed to include in the application

- Read any scenarios files
- Edit any scenario files
- Create new scenario files
- Test any scenario file
- Save both changes and new files to the local computer
- Record audio

General Use

The application is designed to be used with the TBB scenario files. These files can be read on a TBB device to help the visually impaired learn braille. The use of the authoring app is the help create these files in the simplest way possible which still having accessibility options.

Use Cases

The application will allow you to do the follow:

- Create a new scenario file of a name of your choice, be able to save it and run it from the same window.

- Edit an existing scenario file that is saved to your computer. You will be able to update the contents by deleting or editing as well as being able to save any changes and running the file.
- Run an existing scenario file. This simulates in the TBB environment which allows you to make changes accordingly.

Acceptance Test Cases

- Does the application provide a description of all the elements.
- Does the application allow the user to create new scenario files and add content to them?
- Does the application allow loading of a text file so that they can preview or edit their scenario?
- Does the application accurately display braille as indicated by the user?
- Does the application allow you to edit anywhere in the file with ease?

Specific Requirements

Interfaces

- **Home**
  - The home interface contains all the actions needed to created, edit and run scenario files
- **Scenario Creator**
  - Scenario creator is a window that allows you to create new scenarios
- **Scenario Editor**
  - Scenario editor has the same look as the creator except it adds in any already saved data from the file
- **Recording**
  - Opens up an audio recorder where you can create new audio

Function Requirements

- o **View Scenarios**
    - The user should be able to import an already made scenario file and have is displayed on the editor.
- o **Edit Scenarios**
    - The user should be able to edit an already made scenario file using an easy to use interface.
- o **Save Changes to Scenarios**
    - A user should be able to save the file and have it save to a specific location.
- o **Creating new Scenarios**
    - A user should be able to create new scenario files with an easy to use interface and options.
- o **Test Scenarios**
    - A user should be able to test their files at any time.
- o **Record Audio**
    - A user should be able to Record their own audio to add to the files and have it save in a certain location.
- o **Accessibility support**
    - A visually impaired user should be able to use the application based off accessibility support that has been implemented in the form of text-speech or screen readers.