USER MANUAL

VARPEDIA

DEVELOPED BY DANIEL KIM AND DENISE JARRY

First Edition

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TABLE OF CONTENTS

OVERVIEW

VARpedia is a multi-format encyclopaedia that integrates the four learning styles of the VARK model: visual, aural, read/write, and kinaesthetic.

In this application, you can make "Creations." These are videos which combine a Wikipedia search term, audio speech snippets, images and, optionally, music. You can Play and Delete any existing Creation that you have made.

You can also take a Vocabulary Test to test your learning progress.

FIRST TIME LAUNCH

Included in the application folder is: this User Manual pdf, VARpedia_group33.jar, VARpedia_group33_runscript.sh. flickr-api-keys.txt, and a 'music' folder with 3 .mp3 files.

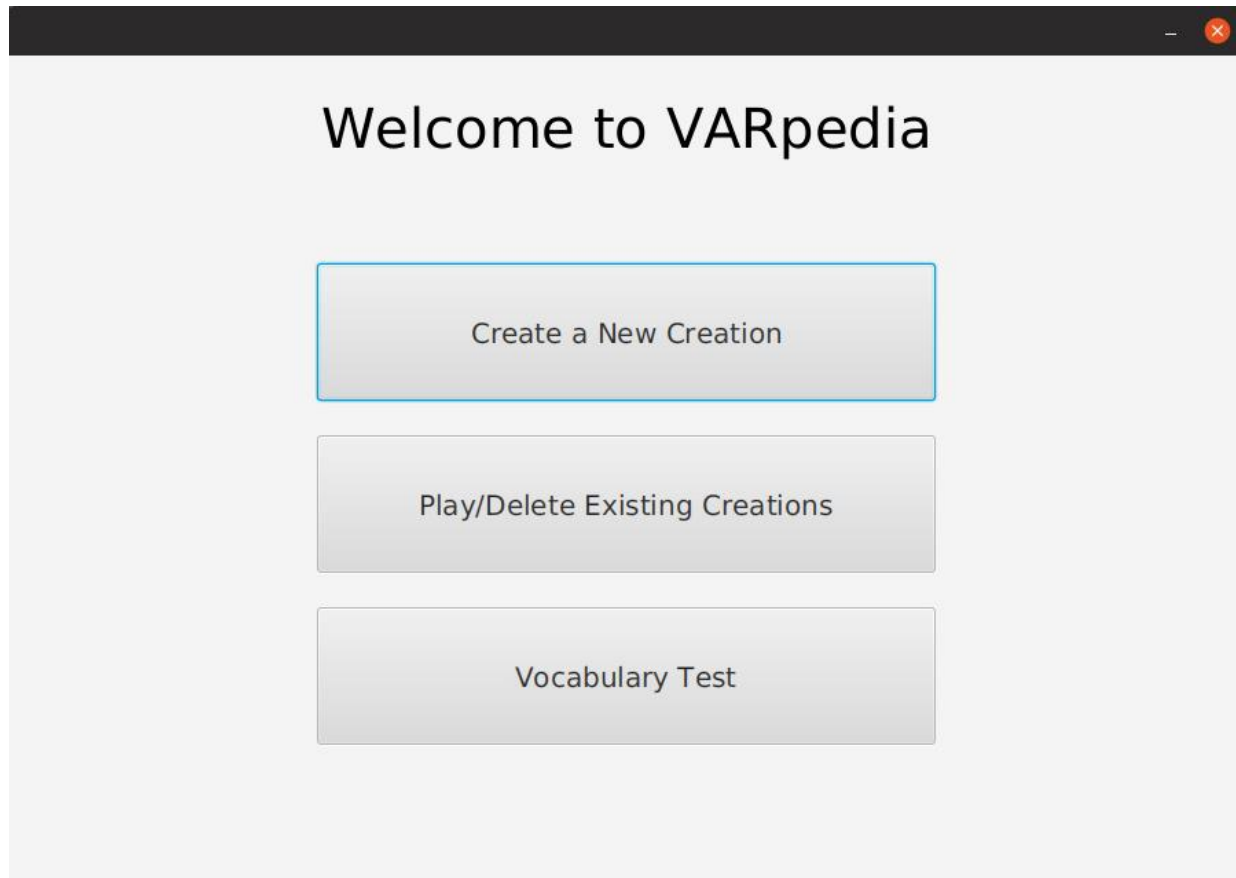VARpedia is designed to run on the VirtualBox Linux Image.

You must provide a Flickr API key. Edit the flickr-api-keys.txt file to include your API key. Do not change the formatting of this file.

Upon execution, the application will create a 'creations' folder that will store your Creations and some test revision content. It will also create a hidden '.temp' folder that is deleted when the program is closed. Do not edit either of these folders while the program is running. For optimal results, delete Creations through the application rather than by deleting the files.

To run the application:

1. Ensure that java version 13 is located at /usr/lib/jvm/jdk-13/bin/java
   Ensure that openjfx-13-rc+2_linux-x64_bin-sdk is in the Downloads folder
2. Open the terminal
3. Ensure VARPedia_Group33_runscript.sh, VARPedia_Group33.jar and , flickr-api-keys.txt, and 'music' folder are in the current working directory
4. Type and run: **chmod +x VARPedia_Group33_runscript.sh**
5. Finally, type and run: **./VARPedia_Group33_runscript.sh**
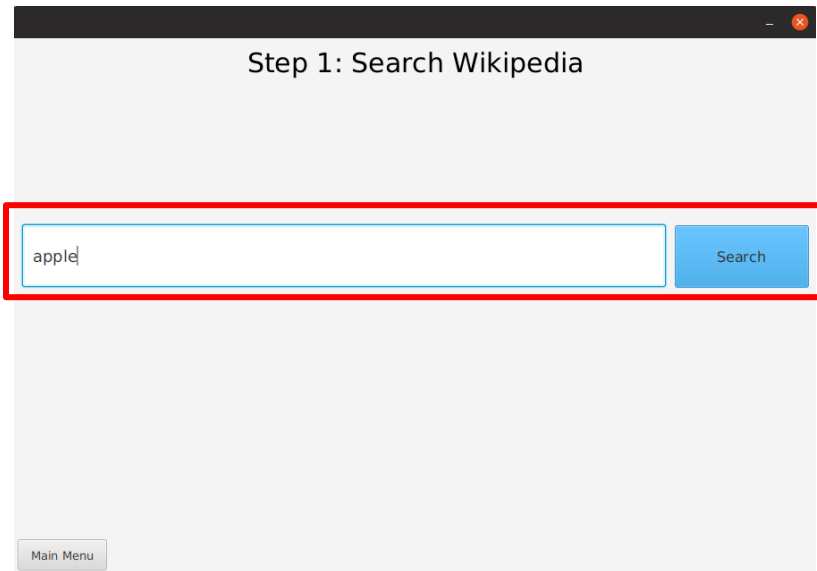
MAIN MENU SCREEN

Figure 1: The Main Menu Screen.

The entry point of the VARpedia application is the Main Menu screen (shown in Figure 1 above). This contains the option to:

- Create a New Creation: This leads to Step 1:Search Wikipedia, the first Step of the 5-Step Creation Making Process (see Page 4)

- Play/Delete Existing Creations: This leads to the Play screen where you can view all the previously created Creations (see Page 12)

- Vocabulary Test: This leads to the Vocabulary Test which tests your vocabulary knowledge (see Page 14)

5-STEP CREATION MAKING PROCESS

STEP 1: SEARCH WIKIPEDIA

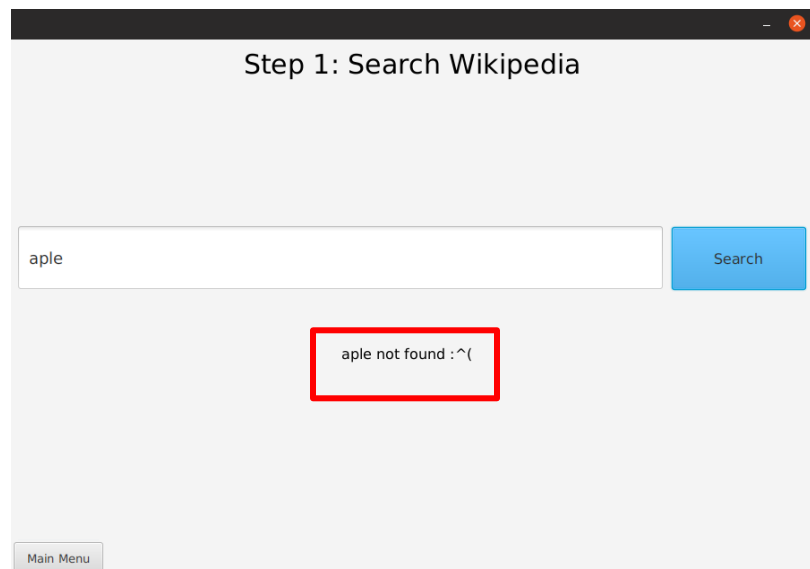*Figure 2: Type something in the Search Box*

To search on Wikipedia, type something in the Search Box then press 'Search'.

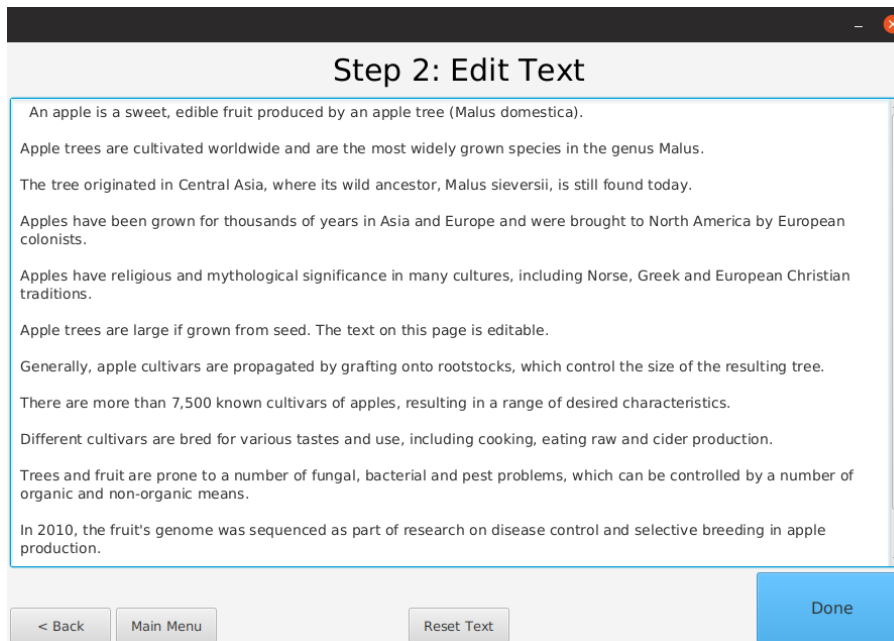If the search is successful, you will be automatically taken to Step 2: Edit Text (see Page 5).

If nothing is found on Wikipedia, a message will appear saying "not found :^(" (see Figure 3). Try searching for something else.

At any time, you can press the 'Main Menu' button on the buttom right to return to the Main Menu Screen.

Figure 3: The search was unsuccessful. Search for something else.
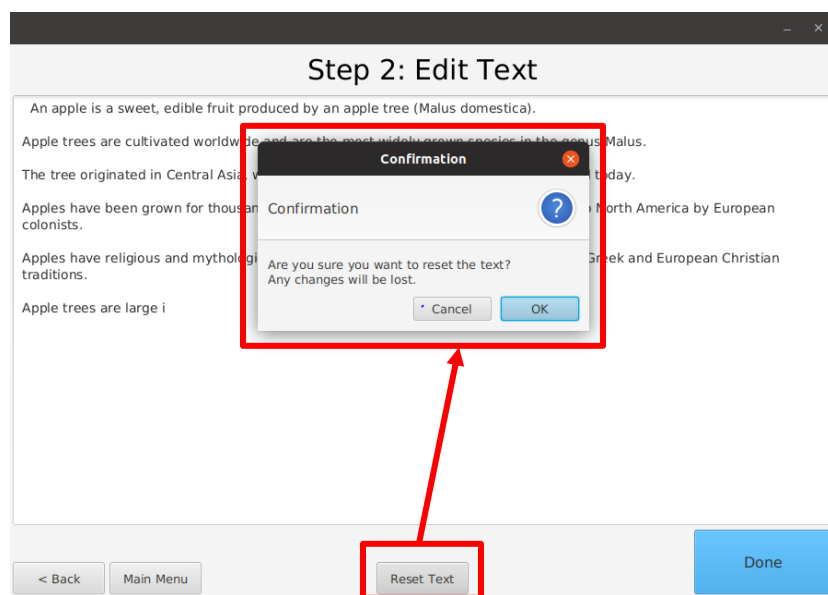
STEP 2: EDIT TEXT

This screen shows the result of your search on Wikipedia. You can edit the text.

You can use normal keyboard shortcuts: Crtl+C to copy, Ctrl+V to paste, Ctrl+Z to undo and Ctrl+Shift+Z to redo.

Figure 4: You can edit the text on this screen.

You can reset the text by pressing the 'Reset Text' button and pressing 'OK' on the confirmation (see Figure 5).

When you are finished, press 'Done' to proceed to Step 3: Create Audio (see Page 6).

Figure 5: Resetting the text.

At any time, you can press the '<Back' button to return to Step 1: Search Wikipedia. You can also press the 'Main Menu' button to return to the Main Menu screen.

6

STEP 3: CREATE AUDIO

To create an Audio Snippet (see Figure 6):

1. Highlight some text from the textbox
2. Select a voice from the drop-down box
3. Write a name (or you can use the name already provided)
4. Press 'Create Audio Snippet'

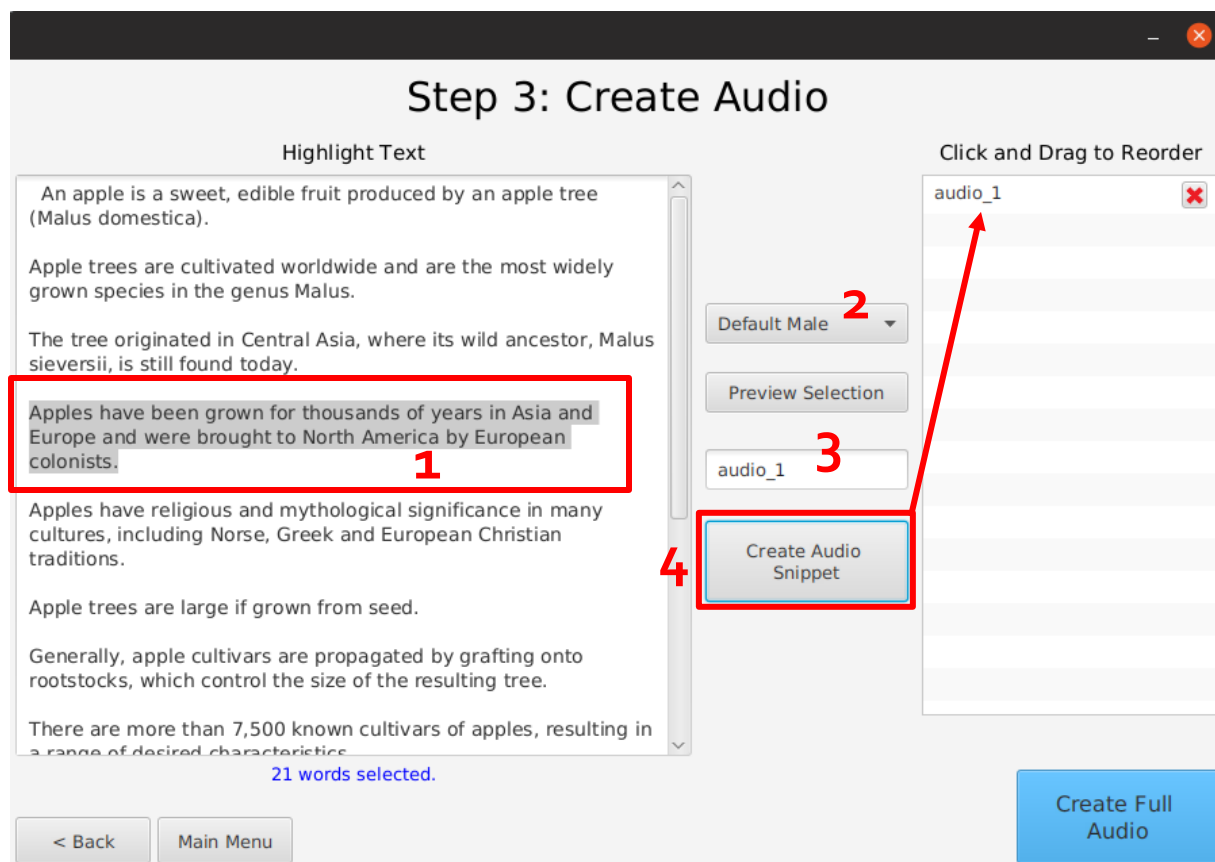Your Audio Snippet will appear in the list on the right.

Figure 6: Creating an Audio Snippet.

You can also highlight some text, select a voice from the drop-down box, then press 'Preview Selection' to hear what it sounds like.

7

If the 'Preview Selection' or 'Create Audio Snippet' buttons are greyed out it is because:

1. You have too many words selected, or no words selected OR
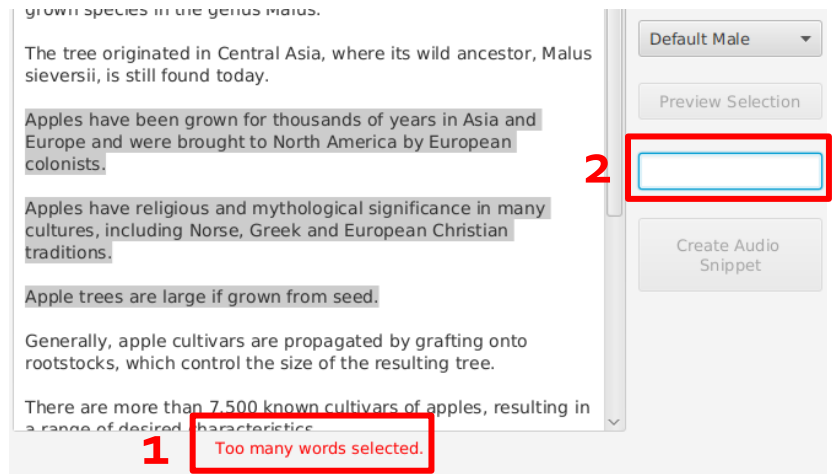2. there is nothing written in the Audio File Name box.

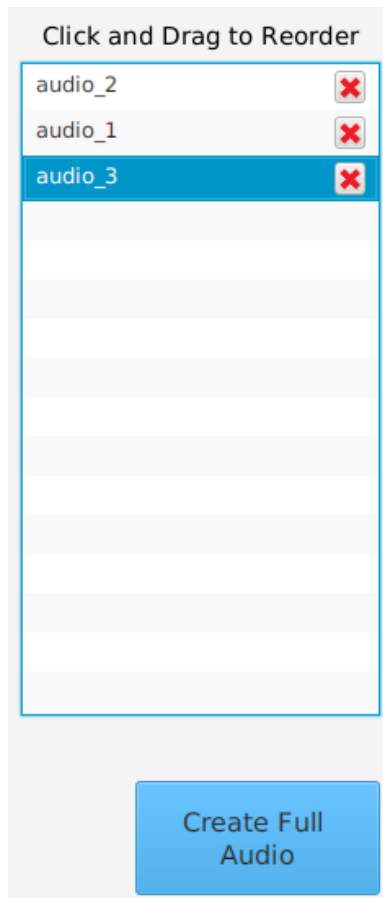*Figure 6: Greyed out buttons when Creating an Audio Snippet.*

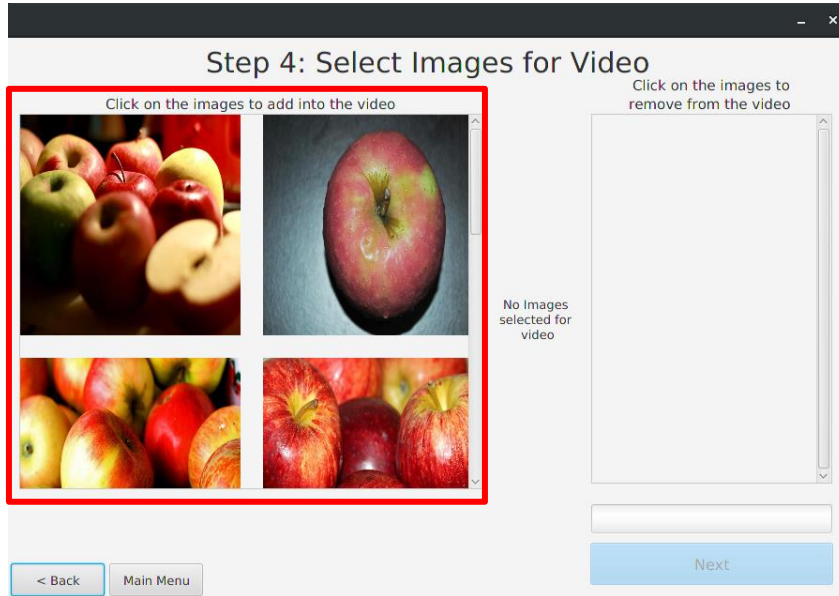Audio files can be deleted by pressing the red 'X'.

You can change the order of the audio files by clicking and dragging them. The final Creation will have audio in this order.

When you are finished, press 'Create Full Audio' to proceed to Step 5: Select Images for Video.

Figure 7: Reordering and deleting.

At any time, you can press the '< Back' button to return to Step 2: Edit Text. You can also press the 'Main Menu' button to return to the Main Menu Screen.

8

STEP 4: SELECT IMAGES FOR VIDEO
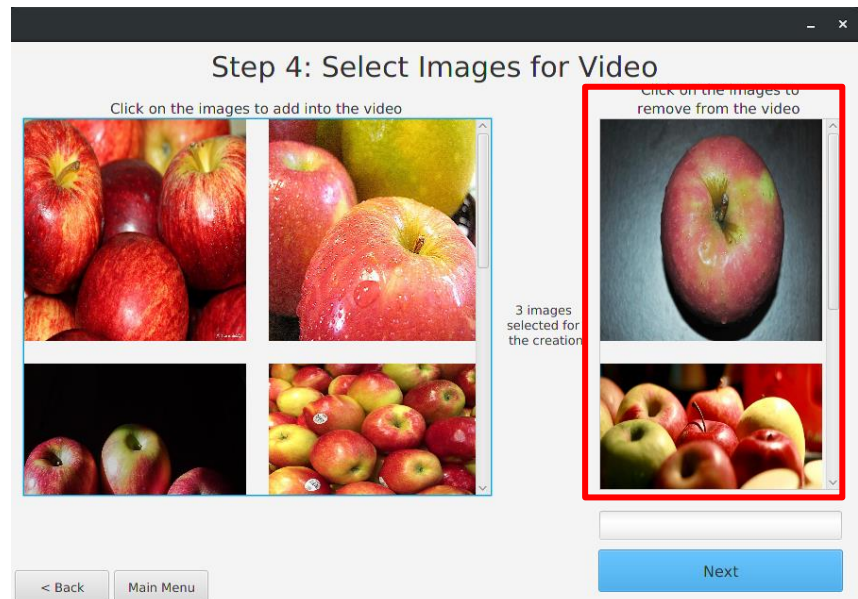

You can select images for the creation.

Images will be downloaded from Flickr upon entering the page.

By clicking on the images shown in the red outline (see Figure 8), those images will be selected, in order, to go into the final creation.

Figure 8: Selecting Images for the Creation.

Selected images go into the box shown in the red outline (see Figure 9).

By clicking on these images, they will be taken out of the final creation and put back into the list of selectable images.

Figure 9: Removing images from the Creation.

9

Once images have been selected, you can click on the 'Next' button to proceed to Step 5: Finalise Creation.
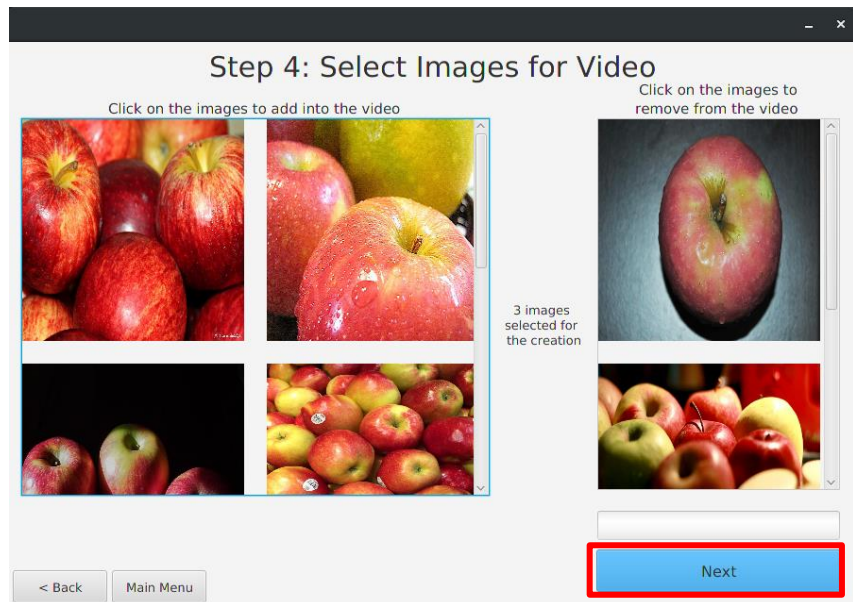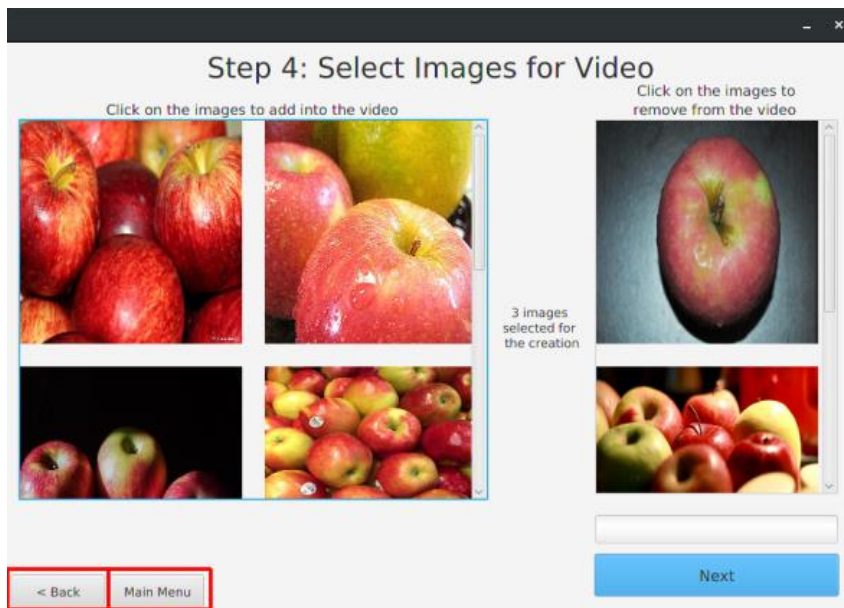

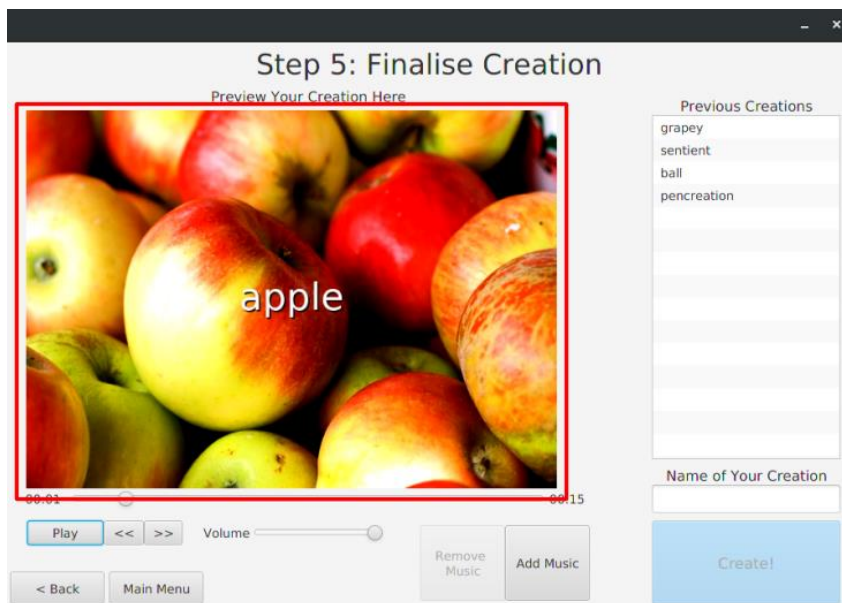*Figure 10: Click Next to proceed to Step 5: Preview*

At any time, you can press the '<Back' button to return to Step 3: Create Audio.

You can also press the 'Main Menu' button to return to the Main Menu Screen.

Figure 11: Returning to Step 3: Create Audio or the Main Menu

Figure 12: A preview of your Creation.

Upon finishing the image selection in Step 4, a preview of the Creation will be made.

On this Finalise Creation screen, the Creation preview can be viewed so you can decide if you are happy with it.

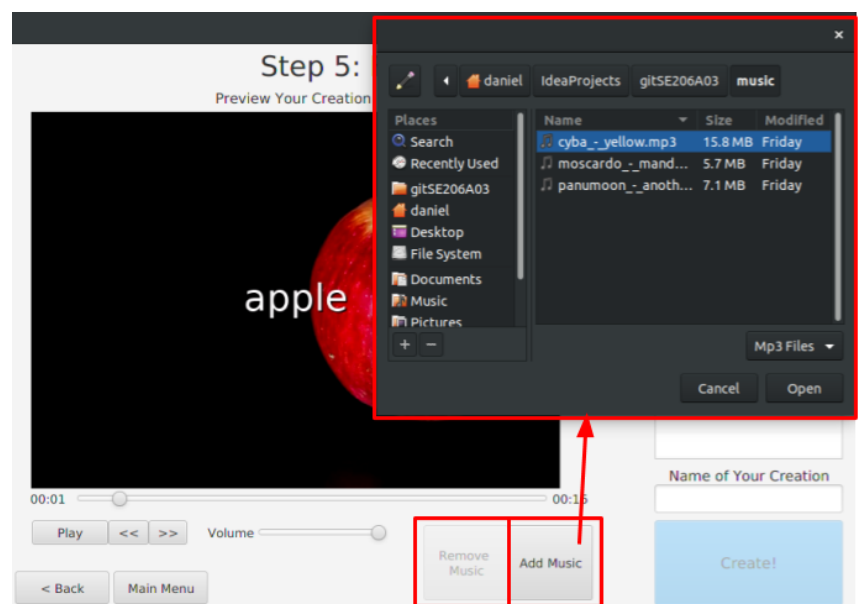The Creation is played in the media player shown in the red outline.

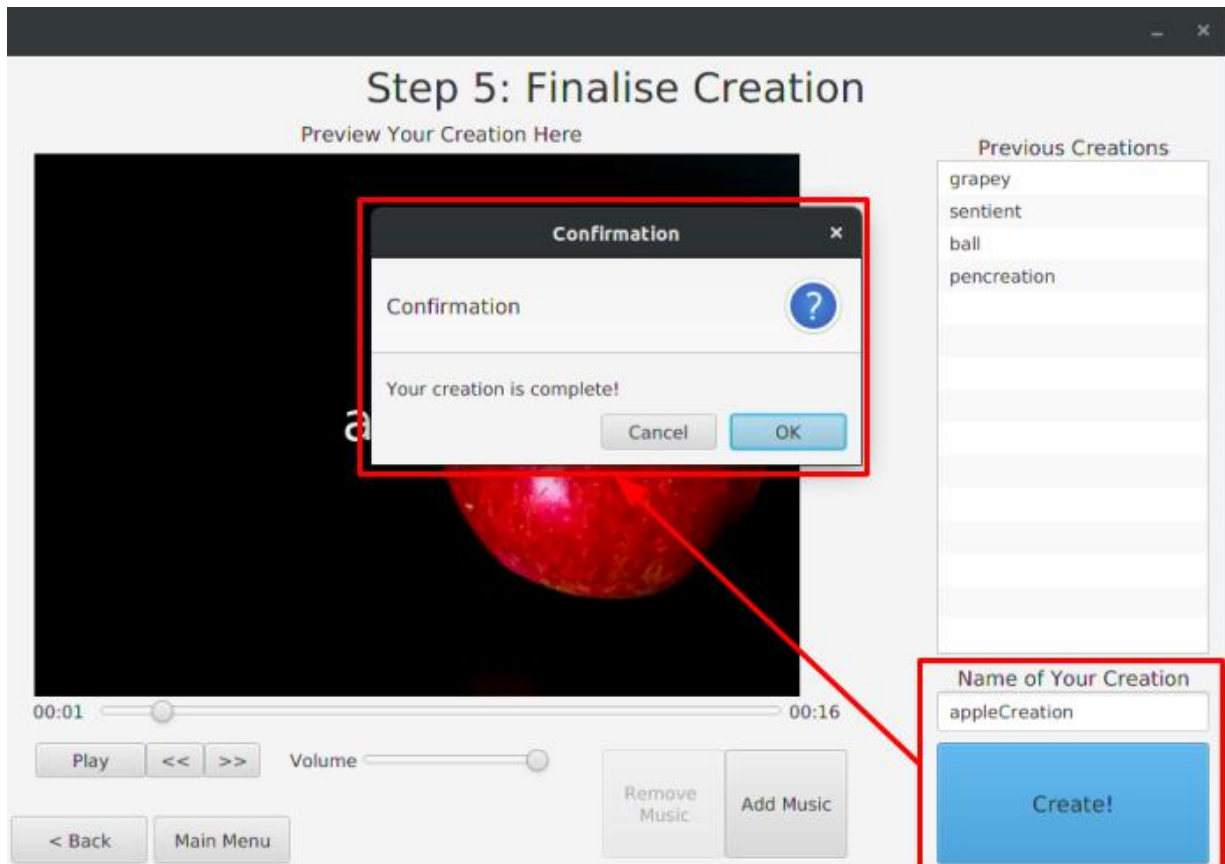See Page 17 for an overview of video playback manipulation.

Background music can be added/removed to the Creation.

Upon selecting 'Add Music' (shown in the red box), a pop-up will appear allowing you to browse for a music file. Selecting one of these music files will add the selected music to the Creation.

Upon selecting the 'Remove Music' (shown in the red box), previously added music will be deleted.

Figure 13: Adding music to your Creation.
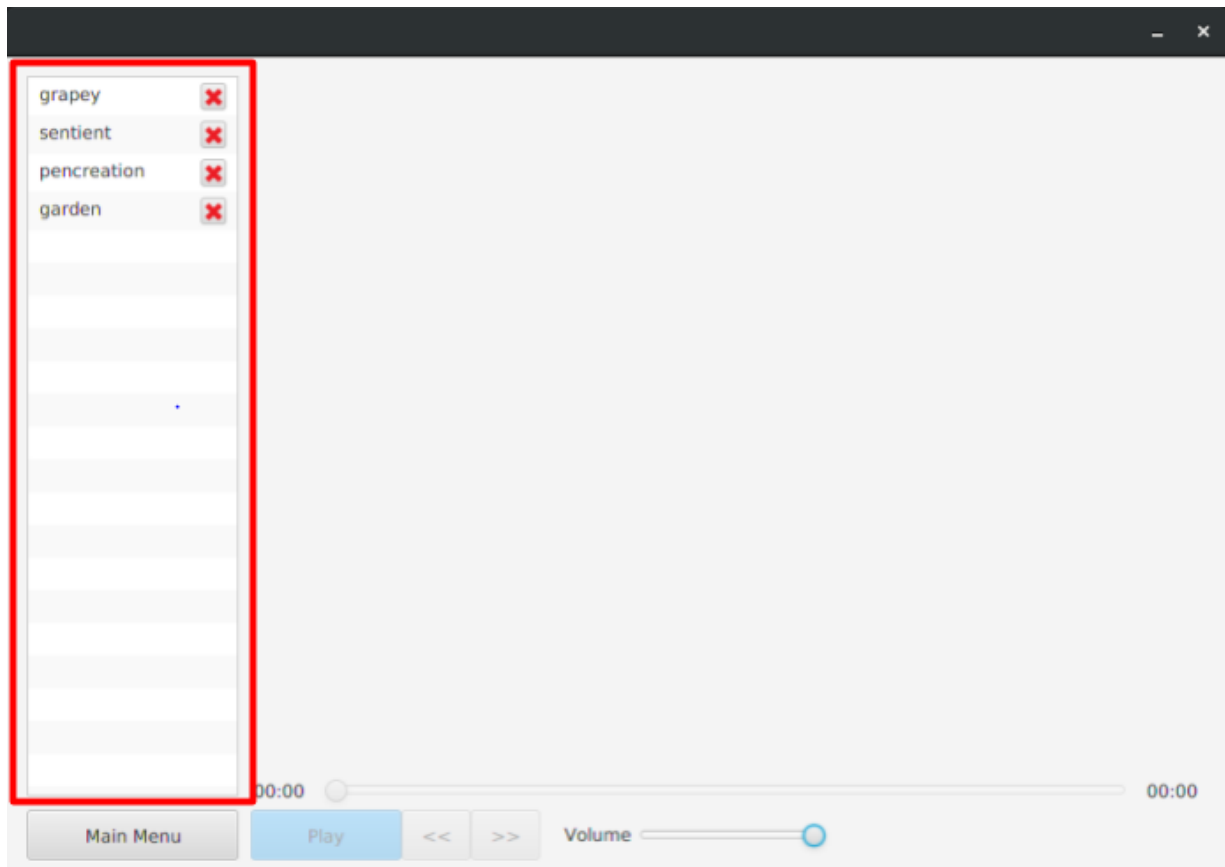
11

Figure 14: Naming and saving your Creation

You can give your Creation a name in the text area (shown in the bottom right red outline of Figure 14), or use the name that is already provided.

Upon pressing the 'Create!' button, a pop-up will appear showing that the Creation was successfully made. Pressing 'OK' will take you back to the Main Menu.

At any time, you can press the '<Back' button to return to Step 4: Select Images for Video. You can also press the 'Main Menu' button to return to the Main Menu Screen.
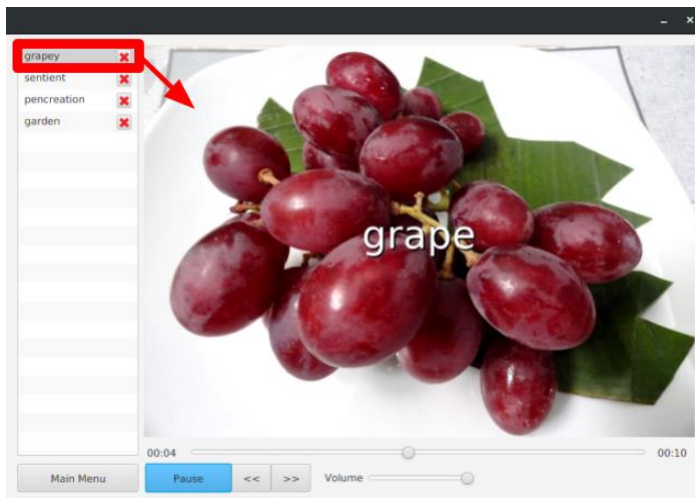
PLAY/DELETE EXISTING CREATIONS

OPENING THE SCREEN

Figure 15: The list of Creations

Upon opening the Play/Delete Existing Creations Screen, Figure 11 shows what you will see. All the Creations that are currently in the application can be seen on the left, as shown by the red outline in Figure 11.

PLAY CREATION

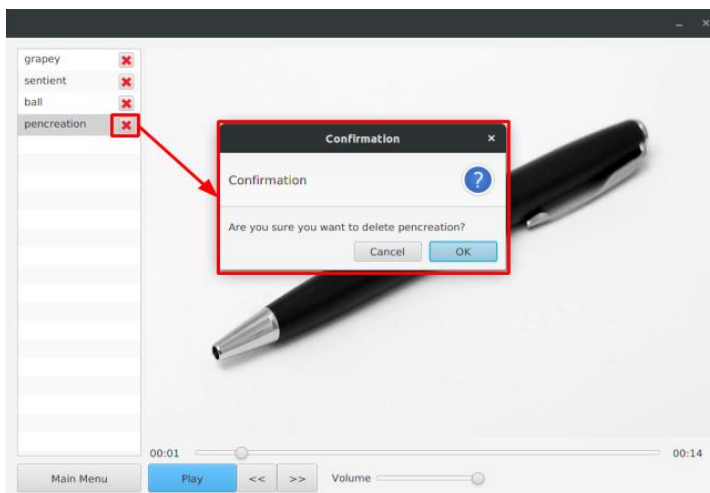*Figure 16: Creation Auto-Play*

To select a creation, click on the labelled panels in the list.

Upon selecting the Creation to play, VARpedia will automatically start playing the Creation.

See Page 17 for an overview of video playback manipulation.

DELETE CREATION

Figure 17: Deleting a Creation

By selecting the 'X' icon next to a Creation, the Creation will begin it's deleting phase.

Once 'OK' is selected, the Creation will be deleted. If 'Cancel' is selected, then the Creation will not be deleted.
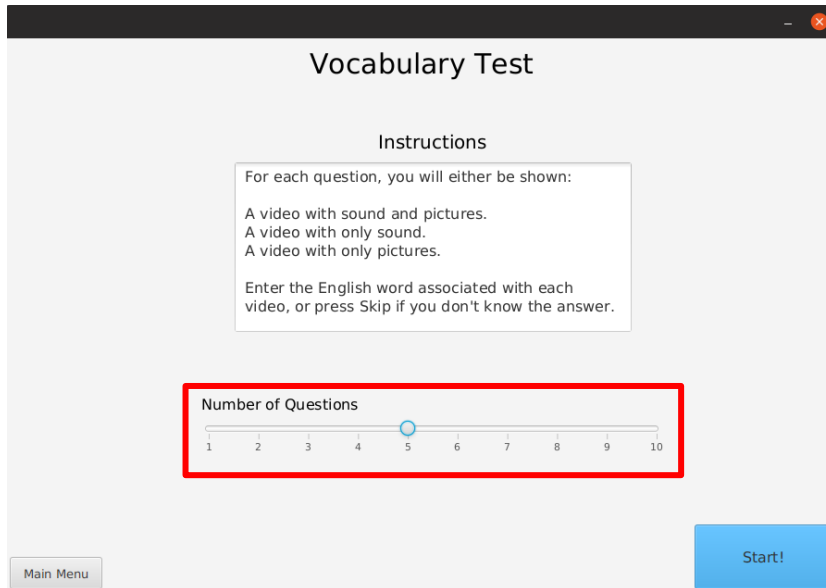
At any time, you can press the 'Main Menu' button to return to the Main Menu Screen.
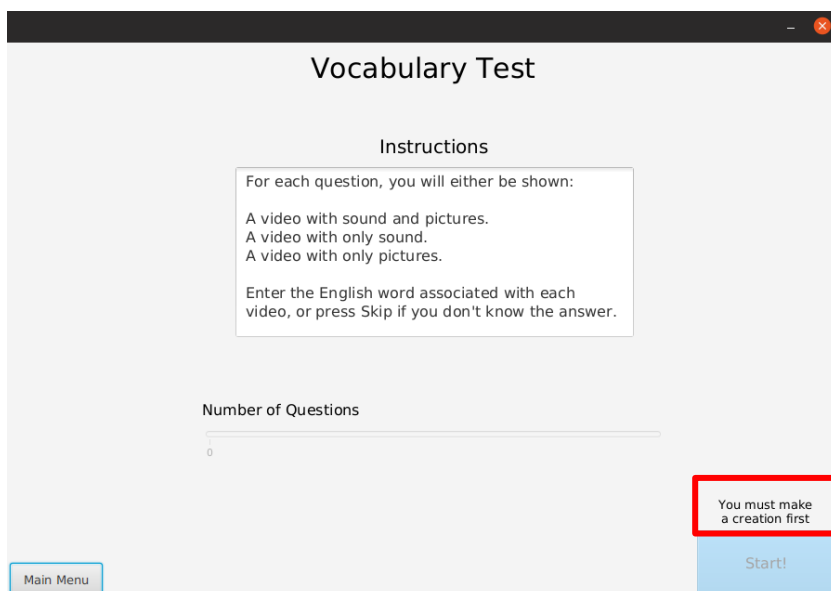
14

VOCABULARY TEST

INSTRUCTION SCREEN

This screen includes the instructions for the Vocabulary Test.

You can select the number of questions to include in the test. The number of questions available depends on how many Creations you have made, up to a maximum of 10.

Press 'Start!' to begin the test.

Figure 18: The Vocubulary Test Instruction Screen. You can select the number of questions.

If you don't have any creations saved, there will be no questions available. You can't start the test.

You must return to the Main Menu Screen and Create a New Creation.

Figure 19: There are no questions availale. You must make a Creation first.

15

Figure 20: A typical Vocabulary Test question screen.

1. This text tells you what type of video is playing. 'Only Pictures' means there is no sound. 'Only Sound' means there are are no pictures. 'Sound and Pictures' means there it has both sound and pictures.

2. This tells you what question you are on and how many questions you have got Incorrect or Correct so far.

3. The video playback buttons. See Page 17 for an overview of video playback manipulation.

4. This will tell you what letter the answer starts with. See Figure 21.

5. You can Skip the current question. This will count as an Incorrect answer.

6. This is where you type and Submit your answer. A pop-up will show if you are correct or incorrect (see Figure 22). Press 'OK' to proceed.
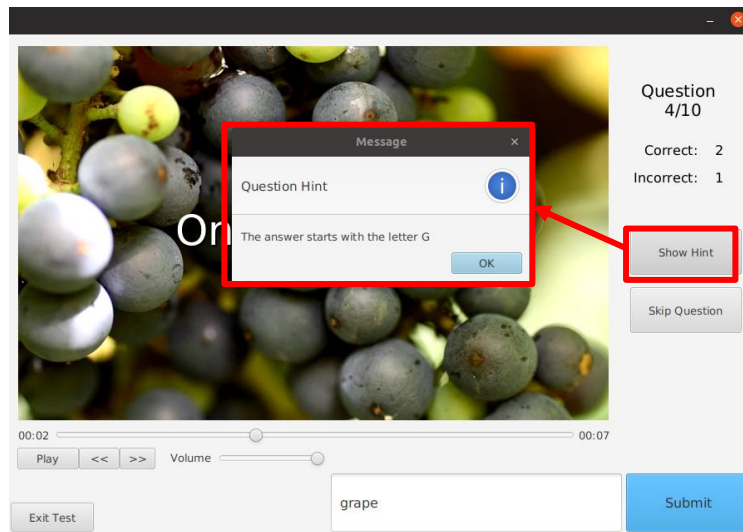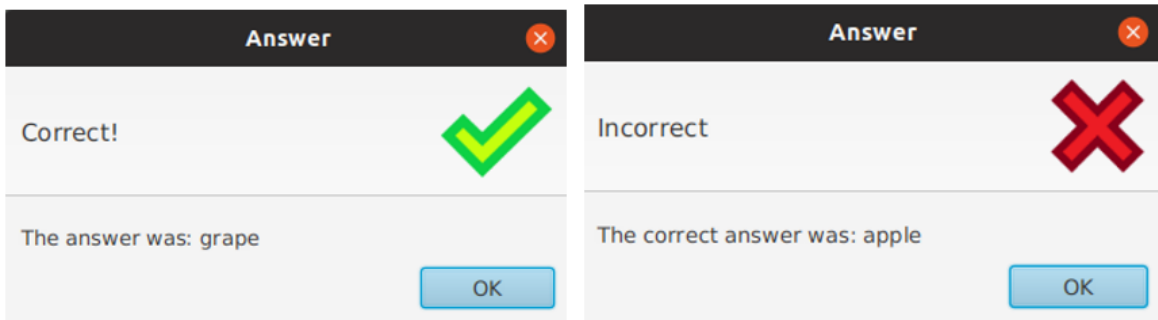

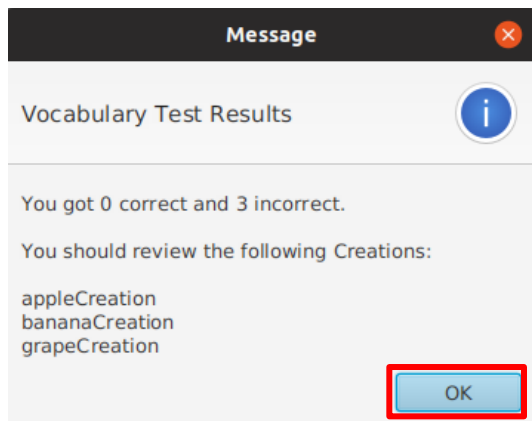*Figure 21: Pressing the Show Hint button.*

Figure 22: A pop-up showing if you are correct or incorrect.

END OF THE TEST

After the last question, a popup will tell you your results.

Pressing 'OK' will take you back to the Vocabulary Test Instruction Screen.

Figure 23: Vocabulary Test results.

17

VIDEO PLAYBACK MANIPULATION

On any screen with a Creation video, there will be a panel underneath that allows for manipulation of the video.

Figure 25: The video playback manipulation panel.

- Play/Pause button: Plays/Pauses the Creation playing
- '>>' button: skips 2 seconds ahead of the current time
- '<<' button: goes back 2 seconds of the current time
- Video Scrubber: allows for skipping/back-tracking to a specific time in the video.
- Volume bar: increase/decrease volume

Figure 25: The Repeat Button.

Upon finishing a creation, the play/pause button will turn into a repeat button. By pressing this, the creation will be repeated.

MEMORY ISSUE FIX

If you encounter the following error:

```
 ***MEMORY-ERROR***: java[6121]: GSlice: assertion failed: sinfo-
>n_allocated > 0
```

this can be fixed by running the following command in the Linux Terminal:

export G_SLICE=always-malloc evolution

MUSIC CREDIT

1.

"Music "another perspective" by Panu featuring airtone and onlymeith

Available at http://ccmixter.org/files/panumoon/60396

Under CC BY license https://creativecommons.org/licenses/by-nc/3.0/"

2.

"Music "Mandolin chinese(moscardo remix)" by moscardio

Available at http://ccmixter.org/files/moscardo/60170

Under CC BY license https://creativecommons.org/licenses/by-nc/3.0/"

3.

"Music "Yellow" by cyba

Available at http://ccmixter.org/files/cyba/60166

Under CC BY license https://creativecommons.org/licenses/by-nc/3.0/"