

Android Application – User Guide

Overview

Our application proposes a tool for a learner of a new language to practice its pronunciation. The learner is prompted with a list of words from which he can choose and record himself pronouncing it. The application then sends the record to a server running the forced (phoneme) alignment module, and receives scores for each phoneme. Finally, a visual feedback on the quality of pronunciation is displayed for each part of the chosen word.

User Guide

Entering the application:



Figure 1

After the opening screen, you will get to the menu, in which you can choose between 3 options:

1. Test mode –
The word is
randomly chosen
for you

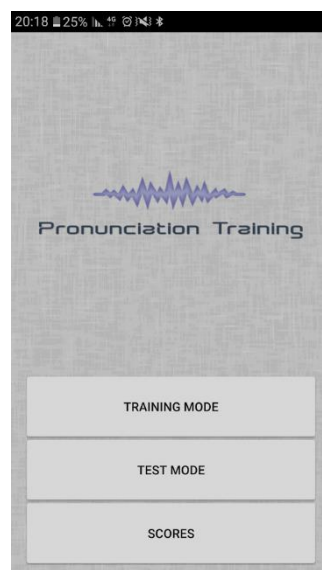


Figure 2 menu

2. Training mode –
Choose from a
list of words
3. Scores –
review your last
feedbacks for every
word



1. Training Mode

In this option, a list of words will be opened so that you can choose a specific word to record. (figure 2.1)

There is a quick search box for getting a particular word (figure 3.2), and an alphabet scroll bar for an easy access to words starting with a specific letter. (fig. 3.3)

Another function of this mode is to switch to a favorites list, where you can view all the words that were marked as favorites, and switch back to the full list.

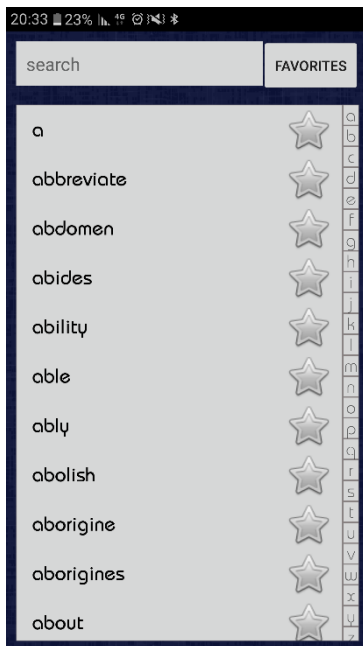


Figure 3.1 the words list

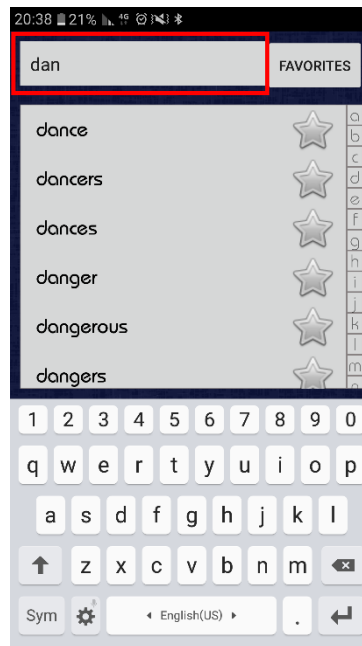


Figure 3.2 quick search box



Figure 3.3 scroll to the letter 'p'



Figure 3.4 favorite words marked in the full list



Figure 3.5 favorites list

2. Test Mode

In this option, the words will be picked randomly. Pressing SHUFFLE or shaking the device will draw new random word. To record it, press CHOOSE.

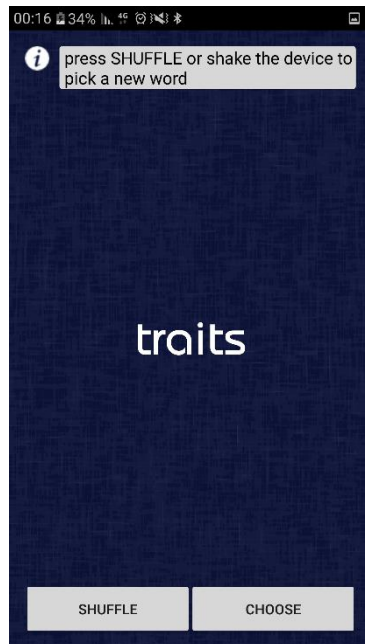


Figure 4.1 a random word



Figure 4.2 another word

After you select a word (in the Training Mode or the Test Mode),
The **recording screen** opens.

In this screen you are prompted to pronounce the selected word. (figures 5.1, 5.2)

You can listen to the record and rerecord it, until you press SUBMIT (figure. 5.3).

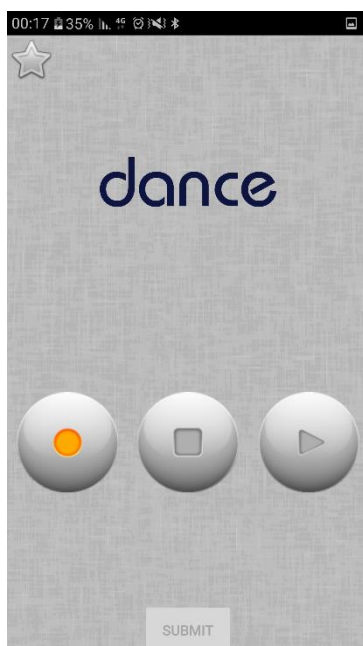


Figure 5.1 start recording



Figure 5.2 stop the recording

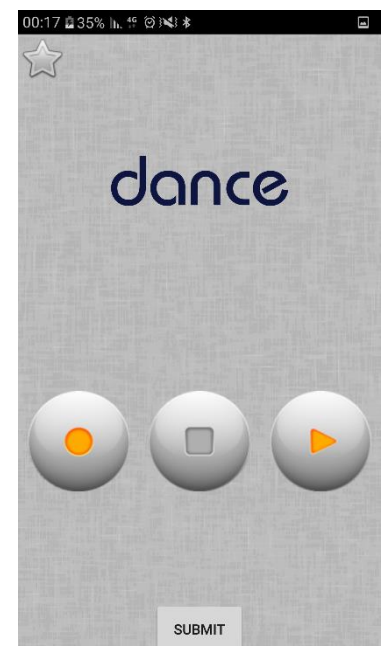


Figure 5.3 listen to the recording, rerecord or submit

After pressing submit the recording is transferred to the server, which is running the forced alignment algorithm and returns scores for each one of the word's phoneme.

The application converts it into a visual feedback for each letter of the word, coloring it according to the quality of pronanciation: Green for good, yellow for medium and red for bad.

After getting the feedback you can choose whether to try to pronounce this word again or go back to choose another word.

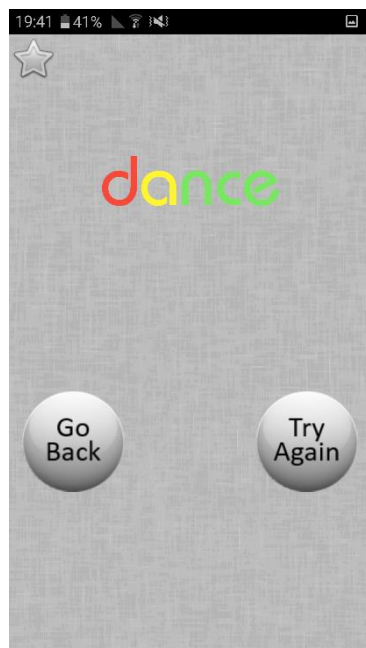


Figure 5.4 feedback of the word 'dance'

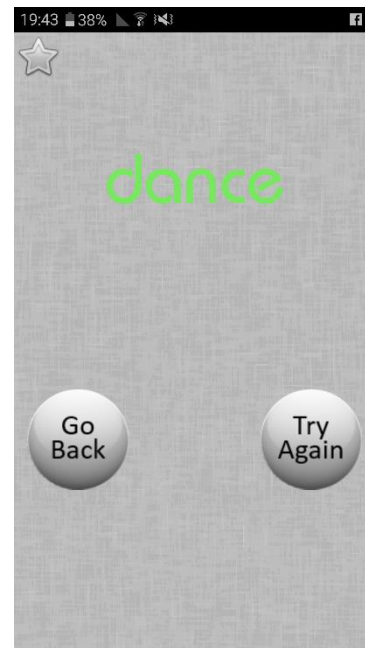


Figure 5.5 perfect feedback on the word 'dance'

You can also add the chosen word to your favorite list by pressing the star on the upper left side. (figure 5.6)

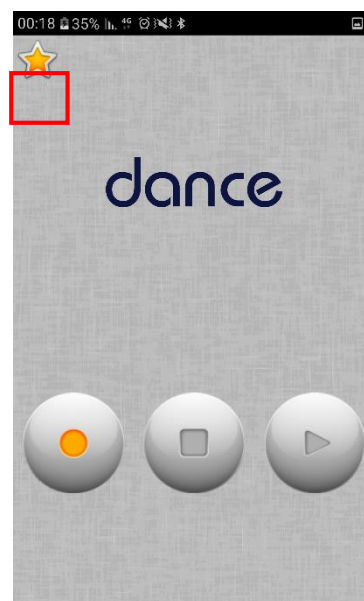


Figure 5.6 add to favorites

3. Scores Table

A meaningful tool that allows the user to track his progress for any particular word, and so advance.

In this option, you can review your previous results.

Each word that was recorded and got feedback is saved so that you can listen again to the record and see your score.

To cleae all the scores press CLEAR

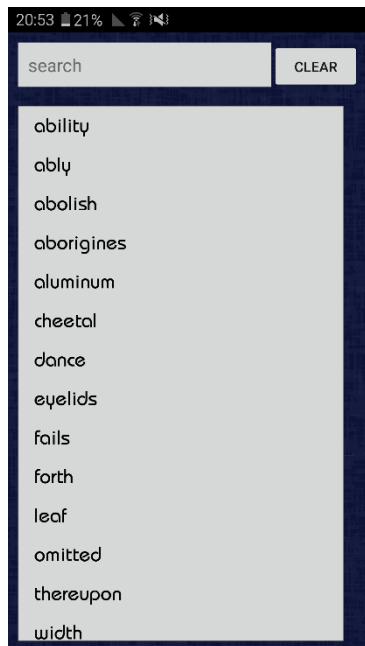


Figure 6.1 the recorded words

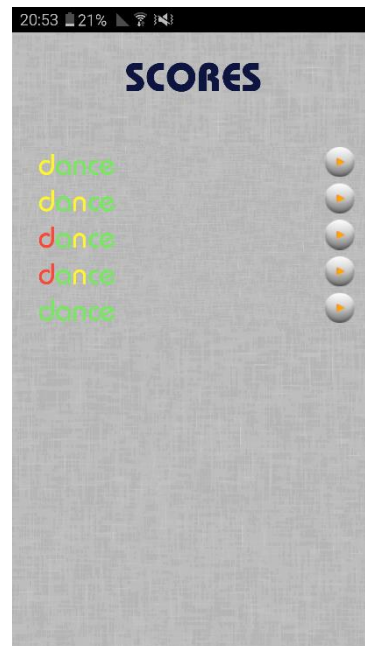


Figure 6.2 the scores for specific word