

User Guide

for the Project of

Vocabuilder

Developed by: **Group 11**

(i.e. **Project ID: 11**)

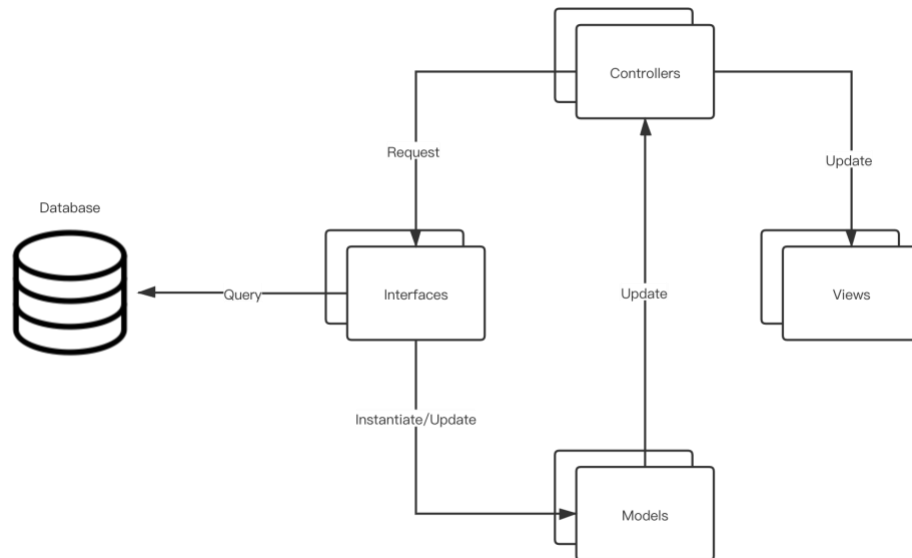
Date: **15th December 2019**

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1 Introduction

- This project was developed with **the separation of front-end and back-end**. The thinking of **MVC Design Pattern** was implemented in our project in order to reuse the codes and reduce the degree of coupling. The graph below is briefly showing our structure of this project:



- The resources of vocabulary list were found on the Internet. It was quite hard to find proper materials but we have tried our best. It would better to use the vocabulary list named as **“BOOK_FOR_TEST”** (only 100 words) for purpose of testing so that you could complete the whole process more rapidly.
- While testing the project you were supposed to close the current window when you would like to go back to the previous window, which would differ from the case of apps on mobile devices.

2 Get Started

Please open the Project of Vocabuilder via NetBeans and build the project. Then run the application, whose main class is the Start.java under the default package.



For the first time you run the application, it takes some time for a Derby database to be established in the project folder, and folder for the database will be named as “Vocabuilder_DB”.

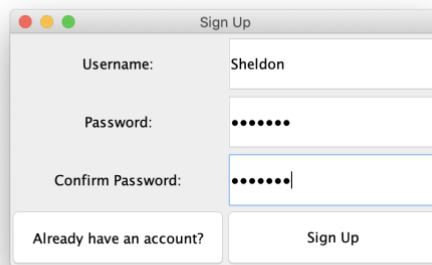
Later if you want to reestablish the database, please run the main method of class **Database.java** under the **database package** or just delete the folder for the database.



Even if you start the software when the database does not exist, the software will detect it and establish a new one.

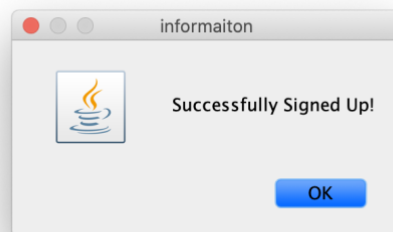
3 Sign Up & Sign In

In order to allow multiple users to use this software to help with their study of vocabularies, we will keep a **unique table** in the database to track the study status of every single user. So please sign up for the first time you use the software. And your password will be encrypted under SHA256.

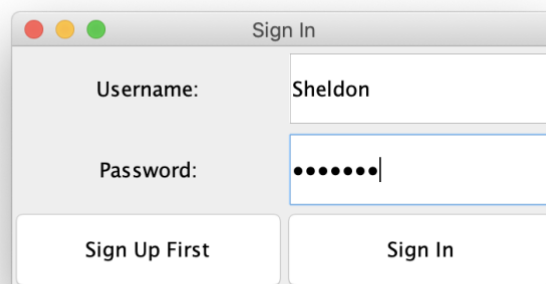


A macOS-style dialog box titled "Sign Up". It contains three text input fields: "Username:" with the text "Sheldon", "Password:" with masked characters ".....", and "Confirm Password:" with masked characters ".....". Below the fields are two buttons: "Already have an account?" and "Sign Up".

Successful sign up will be noticed by a dialog.



After successfully sign up your account, please sign in with your username and password.

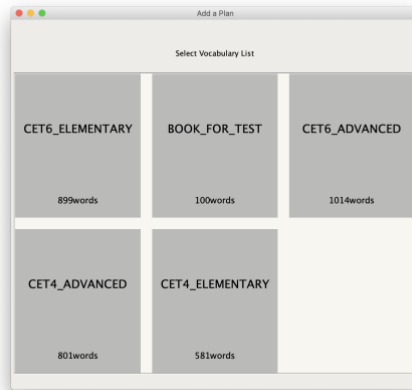


A macOS-style dialog box titled "Sign In". It contains two text input fields: "Username:" with the text "Sheldon" and "Password:" with masked characters ".....". Below the fields are two buttons: "Sign Up First" and "Sign In".

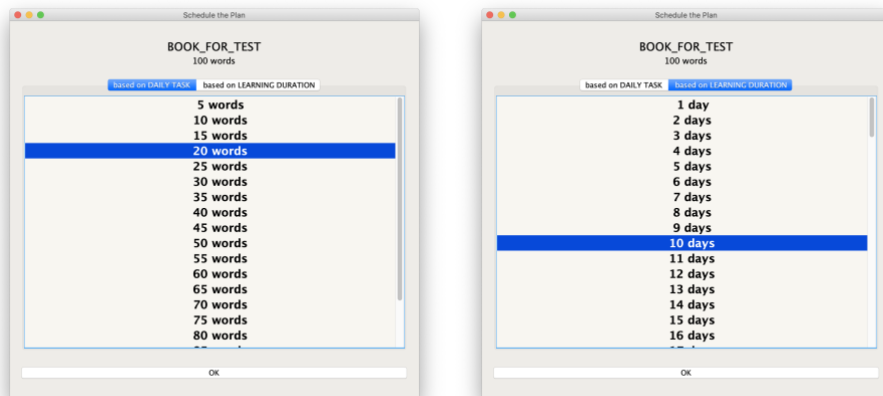
4 Add a Plan (As a New User)

You will be asked to add a plan to your account when you first sign in.

Here the term “**Plan**” consists of two things. One is the **Vocabulary List** you choose for the plan and the other is how you **Schedule** your study on this vocabulary list, either based on the daily tasks or based on the learning duration.



(Please select a vocabulary list for your plan.)

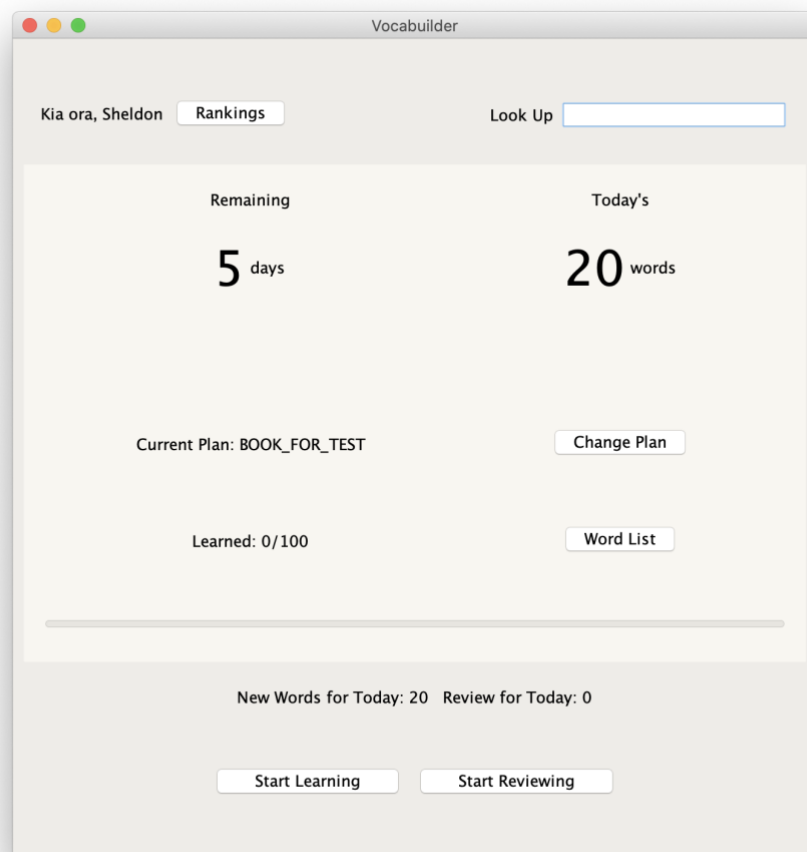


(Please schedule your plan either based on the daily tasks or based on the learning duration.)

5 Home Page

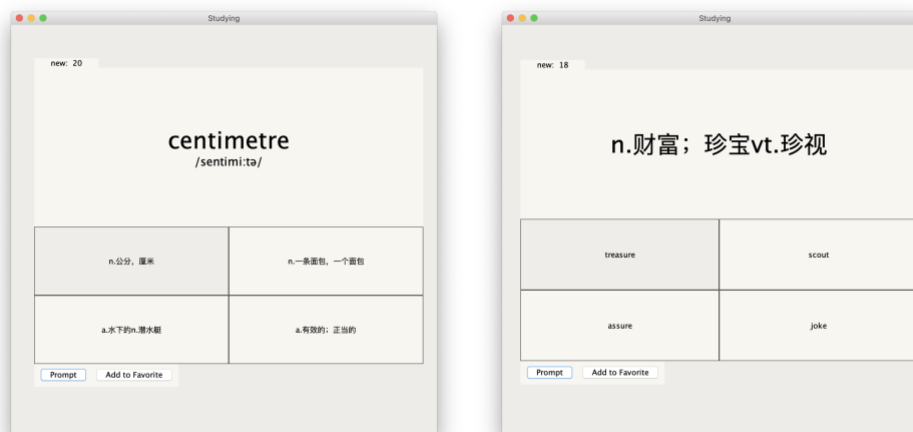
Then the software will lead you to the home page, which shows all the information about your current study plan. And we have also designed some handy functionalities to help with your study, which will be introduced later.

The remaining days for you to complete the current plan and the tasks of today's are shown at the top of the home page. And you can check your current study status today at the bottom of the home page.

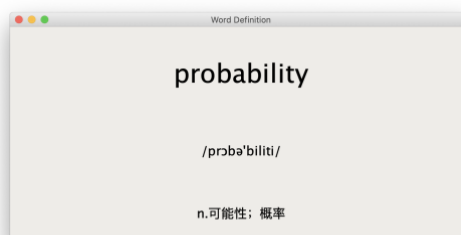
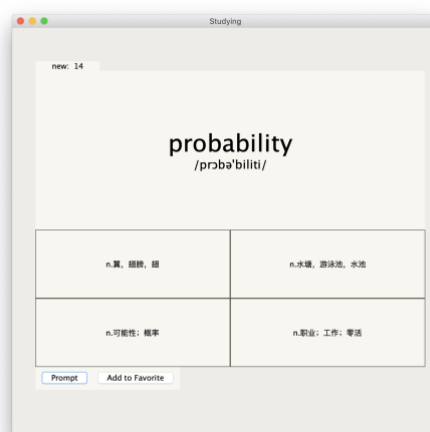


6 Start Learning

You can start learning on **today's task** of your current plan by clicking the button at the bottom of the home page named as “Start Learning”. Please note that in order to ensure the fluency of our system, only 100 vocabularies will be firstly loaded if the number of today's tasks is more than 100.

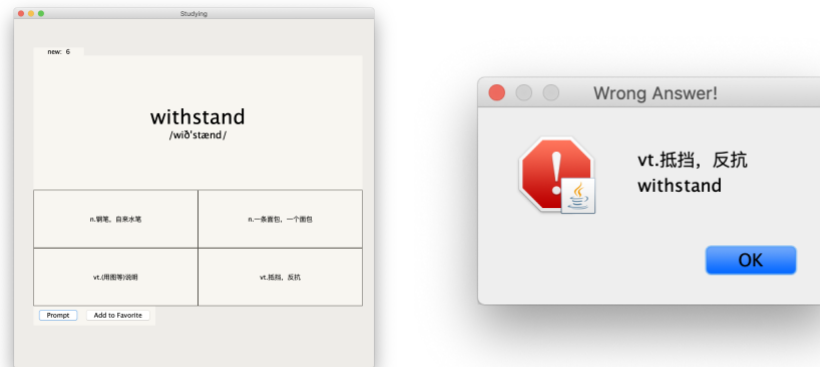


(There are **TWO** types of tests that will be given by the software. One is by giving the English vocabularies and to let you select the right definitions. The other is by giving the definitions of vocabularies in Chinese and to let select the right vocabularies in English.)



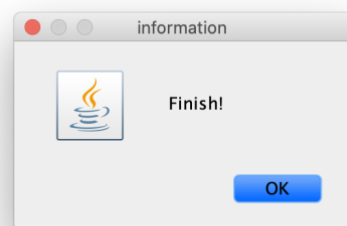
(If you choose to see the **prompt** of the vocabulary you are **NOT** considered to have the

knowledge of this vocabulary. Therefore, after you close the prompt dialog the software will move to the next vocabulary and you will be tested **AGAIN** on this vocabulary later in the learning process.)



(Also, if you have chosen a wrong answer definitely you are **NOT** considered to have the knowledge of this vocabulary. Therefore, you will be tested **AGAIN** on this vocabulary later in the learning process.)

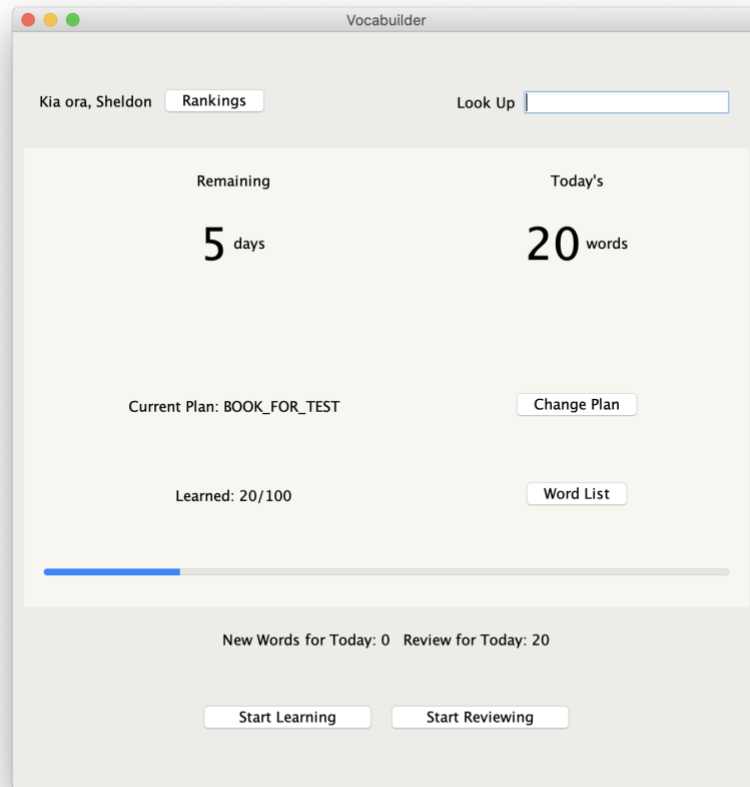
After you have completed all the tasks of today's, you can start reviewing on them.



If you attempt to continue learning after you have finished today's tasks, the new vocabularies of tomorrow will be fed until you have completed your current plan.

7 Start Reviewing

To start reviewing the vocabularies you have learned, please click the button at the bottom of the home page named as “Start Reviewing”.



(You can see a **progress bar** on the home page showing your achievement on the current learning plan.)



(The interface is almost the same as that is shown when you are learning the vocabularies.)

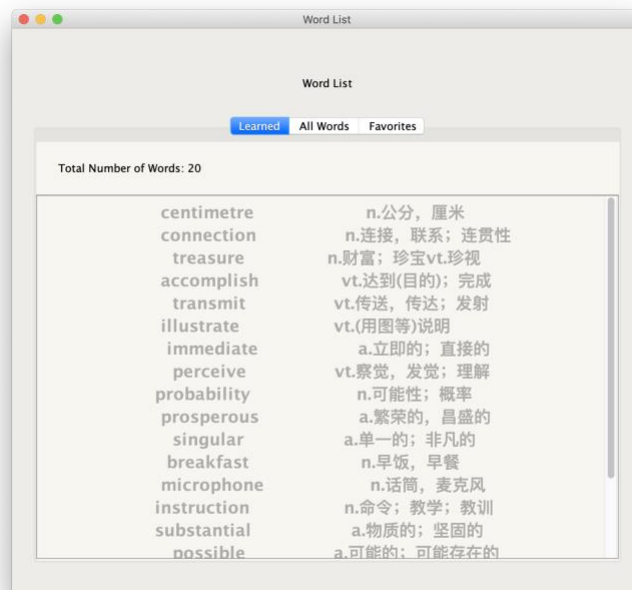
And you may notice that while you are learning or reviewing these vocabularies you can add them to your **favorites**, so that you can check them later in your Word List and review them particularly.)

The strategy of feeding the reviewing vocabularies is that the vocabularies learned **more recently** will have the priority to be reviewed.

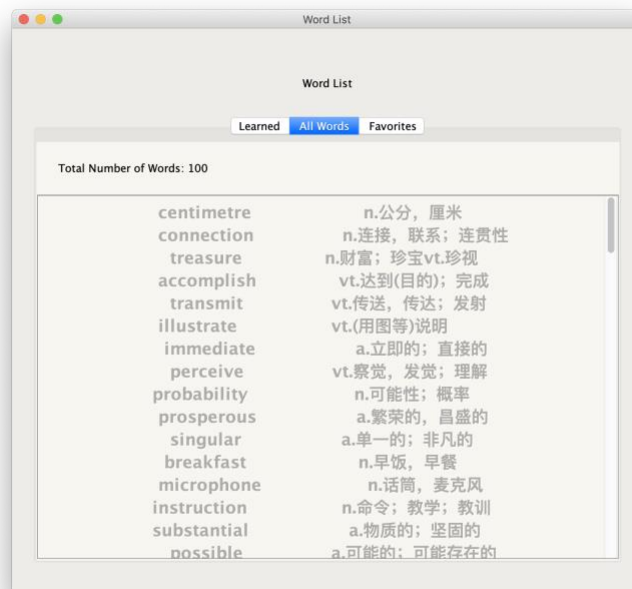
We also attached an “**aging degree**” to every vocabulary indicating the times that the vocabulary has been learned. The aging degree will be increased if and only if you have made a correct answer on it during learning or reviewing process. After you have completed the reviewing tasks today, you can continue reviewing the vocabularies with the smallest aging degree and the earliest first-learned time.

8 Word List (Introducing “My Favorites”)

This is the place where stores all the information about the words of your current plan.



(All the words that you have learned in the current plan.)



(Just all the words in your current plan, i.e. all the words in the current vocabulary list.)

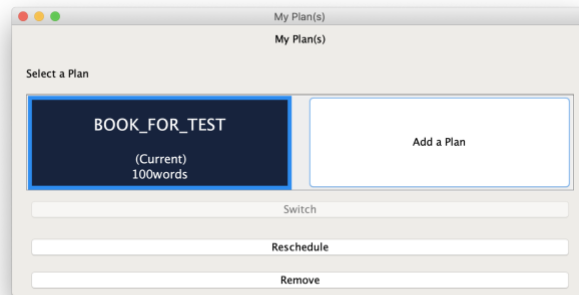
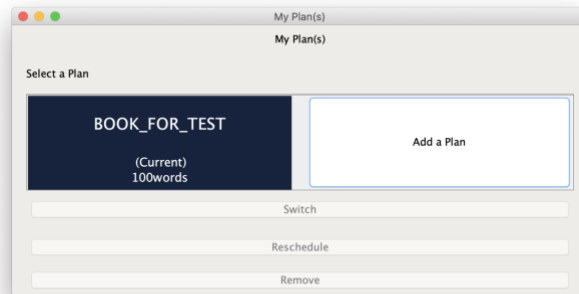
And the **“Favorites”** Word List stores all the words you have marked as “favorite” in the current plan. And you can start learning them **PARTICULARLY**.



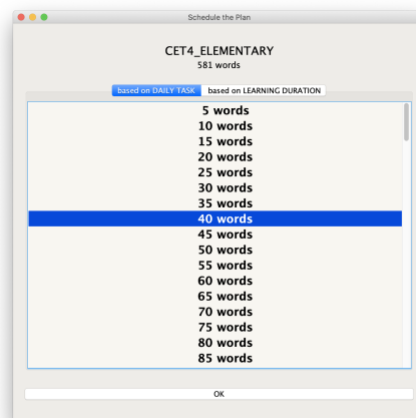
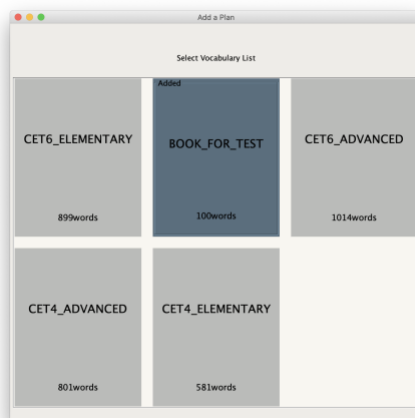
(And of course, you can remove the words from your favorites while learning or reviewing them.)

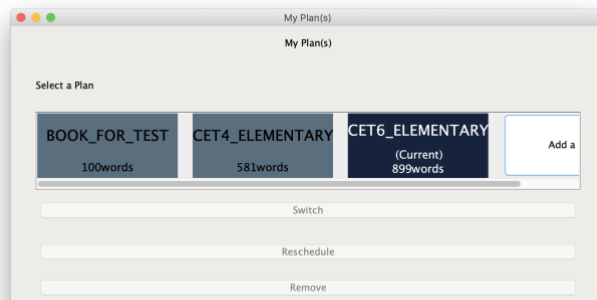
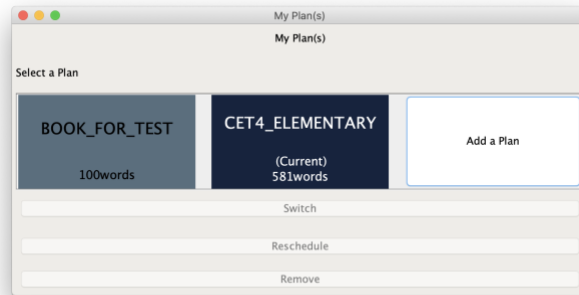
9 Change Plan

We have also provided multiple approaches to manage your plans so that you can customize your study plans and adjust them conveniently. Please click the button “Change Plan” on your home page to manage your plans.

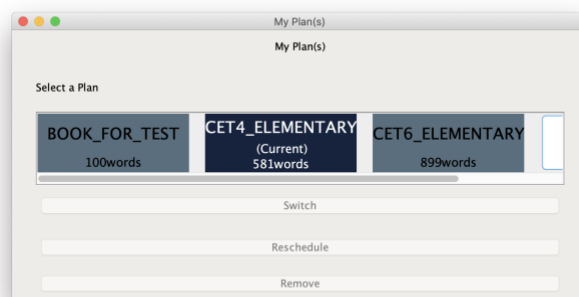
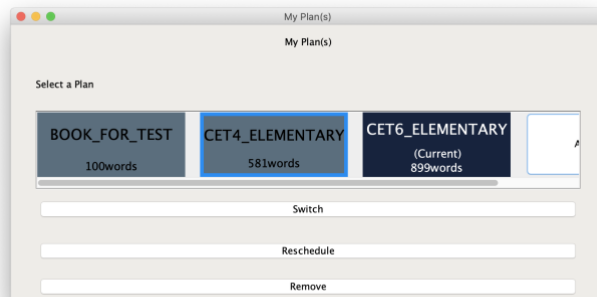


Firstly, you can add multiple plans to your account and you need to choose a vocabulary list for each plan and schedule them.

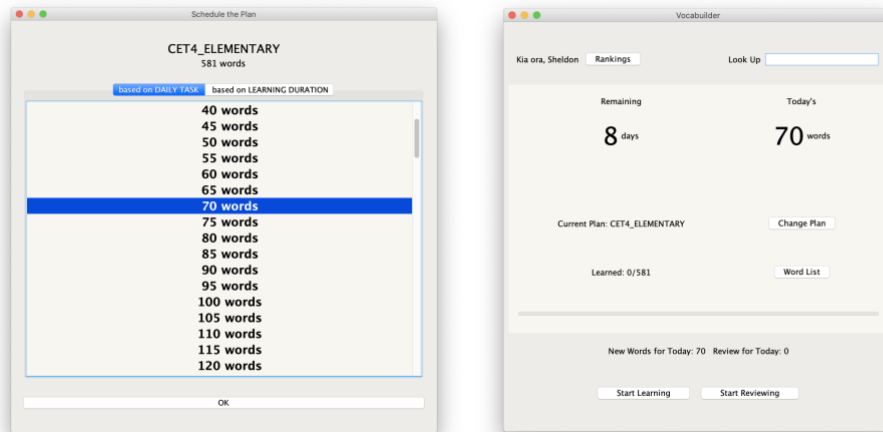




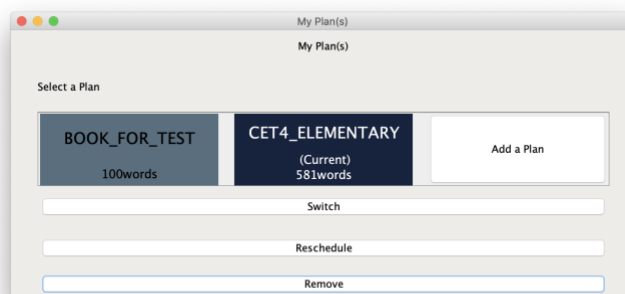
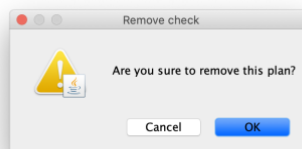
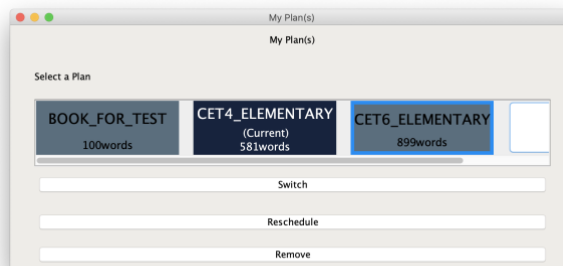
Then you can switch between them as you wish.



You can also **reschedule** the plan without changing the vocabulary list attached to it.



Plans are also removable in the case of you do not need them any longer. And if you remove the current plan then the current plan will be the first plan left in the list.



10 Rankings

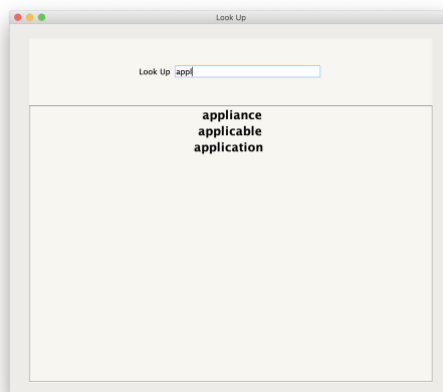
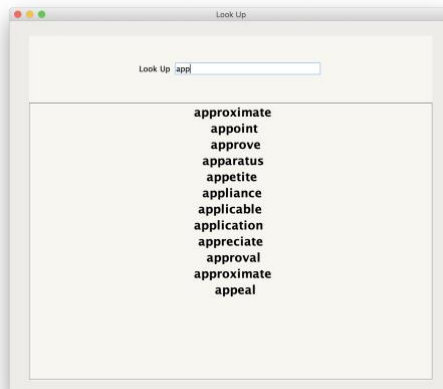
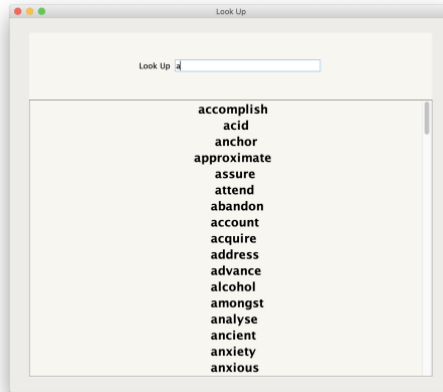
A ranking list among all the users of this software is provided to promote our users to complete their study plans. Please click the button on the top-left corner of the home page to see the Rankings.



Rankings		
Rank	Username	Learned Words
1	Sheldon	58
2	Leonard	30
3	Penny	6

11 Look Up

We have provided a functionality for users to look up vocabularies as is similar to a dictionary. The result list is **dynamically refreshed** every time you type in a character from your keyboard.





(DYNAMICALLY REFRESHED)

(Select the vocabulary you look for to see the definition.)