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User Guide

Memory Enhancement Application Milestone 4 – Team Amazing Software Engineering Project SWEN 670 August 6, 2021

Version 1.0

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Revision History

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1. Introduction

This user guide document describes the functions and operation procedures of the Memory Enhancer mobile application developed by the Amazing Team. Its goal is to facilitate the usage of the application, and as such, its target audience is the end-user of the application.

2. Overview

In the United States of America, there is a small, but growing population of individuals experiencing short-term memory loss. This short-term memory loss may occur due to advancing age, a symptom of larger issues such as dementia. Life expectancy has increased significantly in the last 50 years. As such, people are living longer and require a longer, greater quality of life. Team Amazing's solution to this global issue, is the Memory Enhancer phone application, which acts like a cross between Apple's Siri and a friendly update reminder to serve the user as a personal assistant. The voice recognition technology utilized with this phone application will aid people with disabilities that impair their short-term memory. Once activated, the Memory Enhancer application will be listening to the user's conversations, and based on the mentioning of preset trigger words, the application will record user's spoken words as notes. When recalled by preset trigger words, the notes will be played back to the user via their Bluetooth headsets. The application will enable the user to customize their trigger words to record and playback notes; users will also be able to manage their notes, adding, editing, and deleting them as well as setting the lifespan of the notes.

3. Abbreviations/Acronyms/Definitions

AES	Advanced Encryption Standard	
App	Application	
OS	Operating system	
Transcription	The process of voice recognition and transcription to readable text	
Triggers	Words that help the application listen to, record, and playback notes.	

4. Hardware Specifications

The Memory Enhancer mobile application is designed to run on smartphones only. The application is not compatible with tablets, smartwatches, television and CarPlay devices. The application can be installed only on smartphones running Android and iOS platform.

5. Software Specifications

Running the application on Android devices requires a minimum Android OS version 9.0 (Android release **Pie**); ideally, version 10.0 (release **Q**) and version 11.0 (release **R**) are preferable.

Running the application on iOS devices requires a minimum version iOS 13.

6. Pages

The Memory Enhancer App has five main pages and four sub-pages that the user can navigate through. The Home page, Notes page, Settings page, and the Help screen are the five main pages. The four sub-pages are the General Settings, Trigger Words, Contact Us, and How-To Videos. Below, each page is shown along with the identification of different parts of the page.

6.1. Home Page/Navigation

On the Home page, the listening mode can be started and stopped. On this page, and every other page, to navigate through the application icons are displayed at the bottom of the page.



- 1. Start/Stop Listening Button
- **2.** Home Screen Navigation Button
- **3.** Notes Screen Navigation Button
- **4.** Settings Screen Navigation Button
- **5.** Help Screen Navigation Button

6.2. Notes Page

On the *Notes* page, notes are paired under different subjects, including Personal, Dinner, Lunch, Family & Friends, Medical, and Other. The Notes page also allows you to view notes, delete notes, edit notes, write new notes, and record notes.



- 6. Note Subject
- 7. Collapse/Expand Arrow for subject
- 8. Delete A Note
- **9.** Note with Timestamp (long press to view whole note).
- 10. Edit Note
- 11. Write Note
- 12. Record Note

6.3. Settings Page

The Settings page lets you change General Settings, as well as manage trigger words.



- 13. General Settings (change font size, etc.)
- **14.** Trigger Words (edit, add, and delete trigger words)

6.4. Help Page

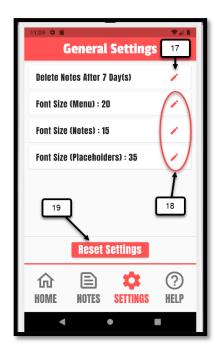
On the *Help* page, there is information about contacting Team Amazing and how-to videos to help in the operation of the application



- **15.** Contact Us (more info on how to contact Memory Enhancer App team.
- **16.** How-To Videos (tutorial videos on how to use the application)

6.5. General Settings Page

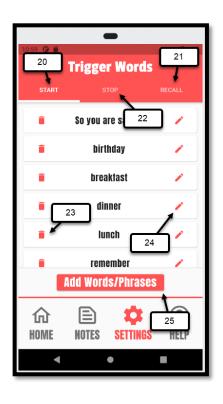
On the *General Settings* page, the font sizes for different features can be increased/decreased, as well as changing the number of days to keep a note before automatic deletion.



- **17.** Change amount of time before notes delete
- **18.** Change the font sizes for notes, menus, etc.
- **19.** Reset Settings (convert changes back to original settings)

6.6. Trigger Words Page

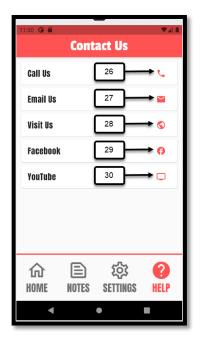
On the Trigger Words page, trigger words can be viewed, added, deleted, and edited.



- **20.** Start Tab with Triggers Words that will start recording
- **21.** Recall Tab with Trigger Words that will playback the notes
- **22.** Stop Tab with Trigger Words that will stop recording
- **23.** Delete Trigger Word
- **24.** Edit Trigger Word
- **25.** Add Trigger Word/Phrases

6.7. Contact Us Page

The Contact Us page contains the different ways to get connected to Team Amazing.



- **26.** Call Memory Enhancer App team
- **27.** Email Memory Enhancer App team
- 28. Visit Memory Enhancer Team website
- **29.** Visit Memory Enhancer Team Facebook page
- **30.** Visit Memory Enhancer Team YouTube page

7. Launching the application

The application can be launched by selecting the application icon (see image below):



Microphone permission

The first time the application is launched, the microphone permission will be requested to the user. Please authorize the microphone use for the Memory Enhancer application to function properly.

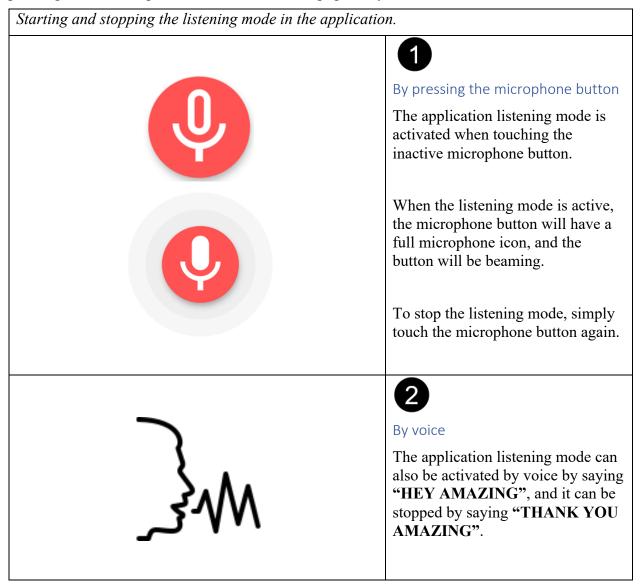
Note: iOS version may not ask for the microphone permission explicitly.

8. Step-by-Step Guides

Simple and brief step-by-step guides are given below for each major task in using the application.

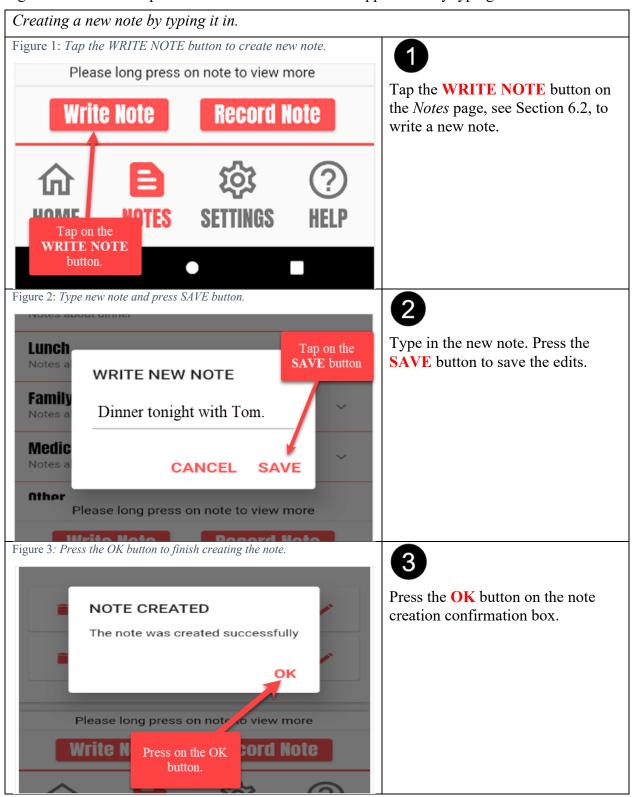
8.1. Starting and Stopping Listening Mode

The listening mode on the Memory Enhancer mobile can be started and stopped in two ways: by pressing on the microphone button on the home page or by voice.



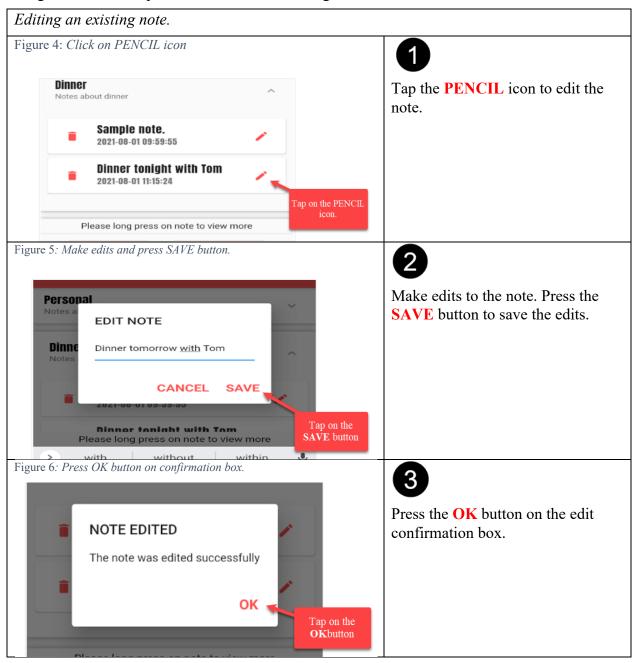
8.2. Write a New Note

Figures 1-3 shows the process to add a new note to the application by typing in the note.



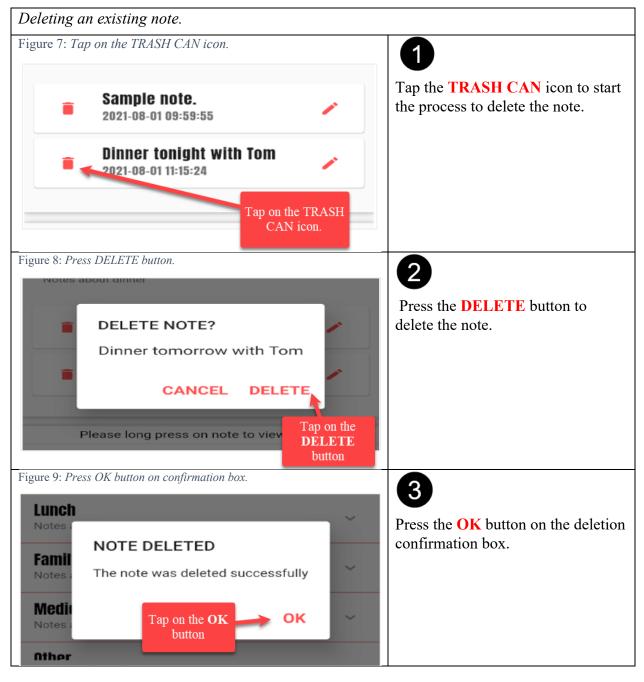
8.3. Edit a Note

In Figures 4-6, the steps on how to edit an existing note are shown.



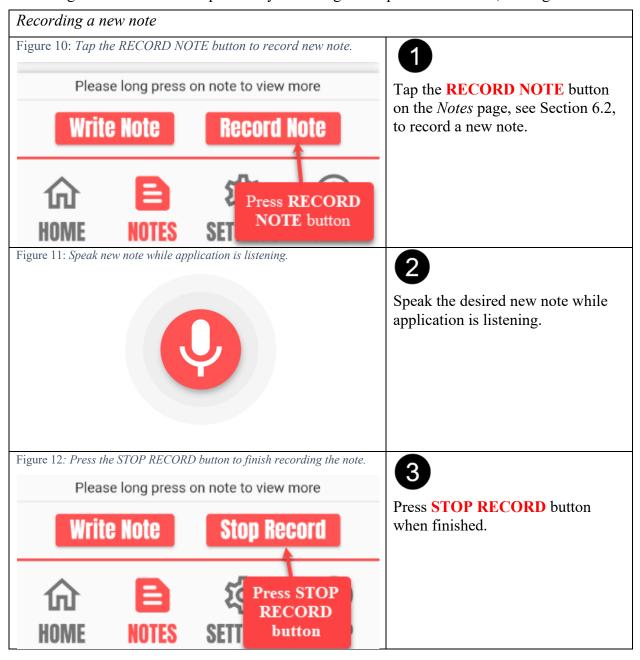
8.4. Delete a Note

The process of deleting an existing note is shown below in Figures 7-9.



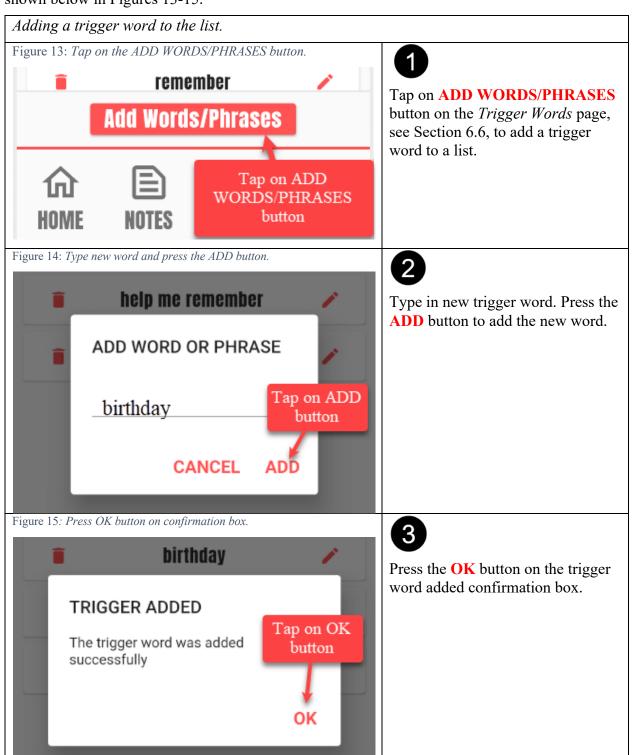
8.5. Record a Note

Recording a note can be accomplished by following the steps laid out below, see Figures 10-12.



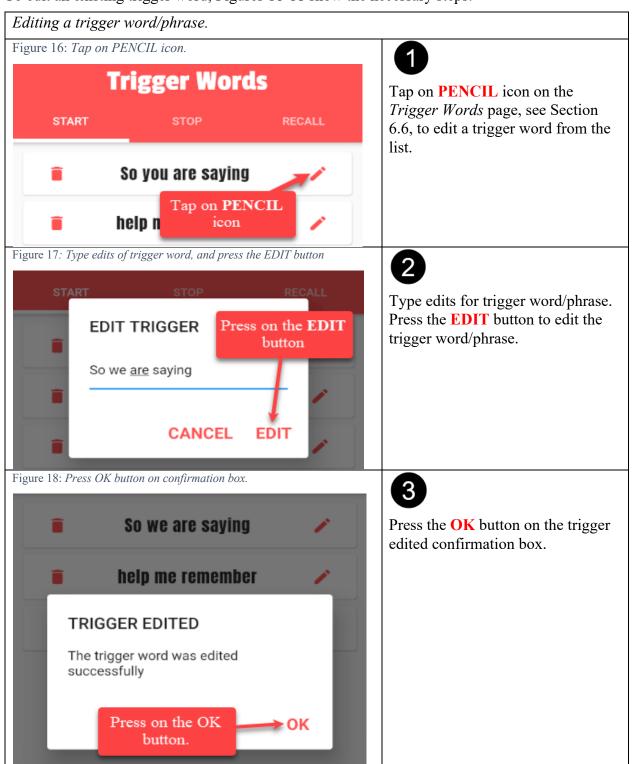
8.6. Add a Trigger Word

There are three easy steps to add a trigger word to one of the trigger words lists. The steps are shown below in Figures 13-15.



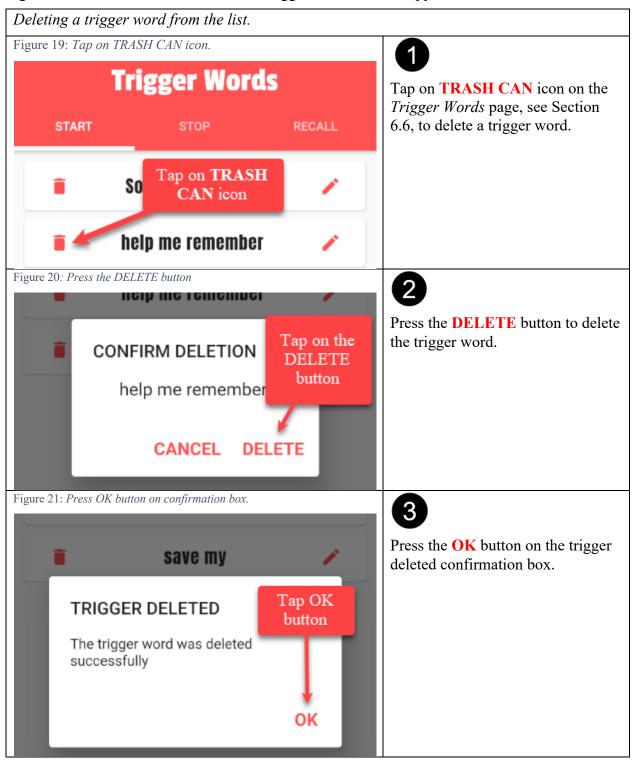
8.7. Edit a Trigger Word

To edit an existing trigger word, Figures 16-18 show the necessary steps.



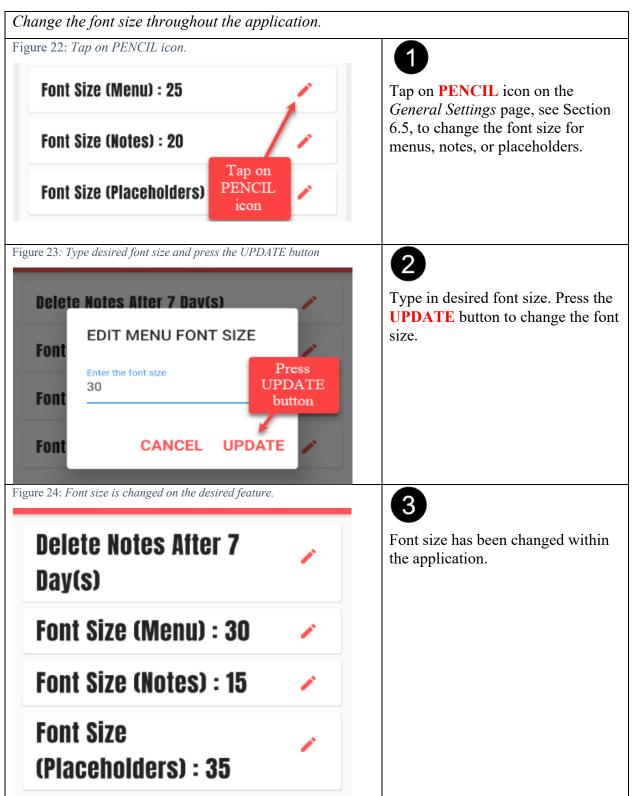
8.8. Delete a Trigger Word

Figures 19-21 illustrates how to delete a trigger word from the application.



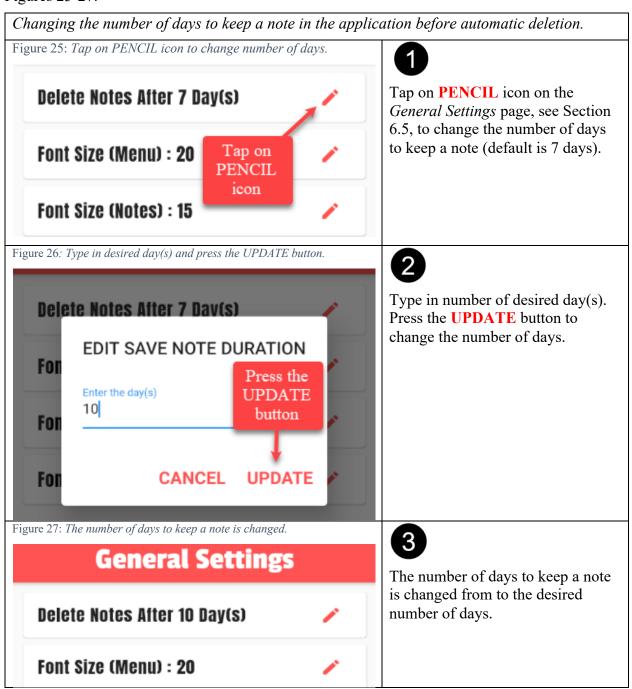
8.9. Change Font Sizes

In Figures 22-24, the steps for how to increase and decrease the font size within the application are shown.



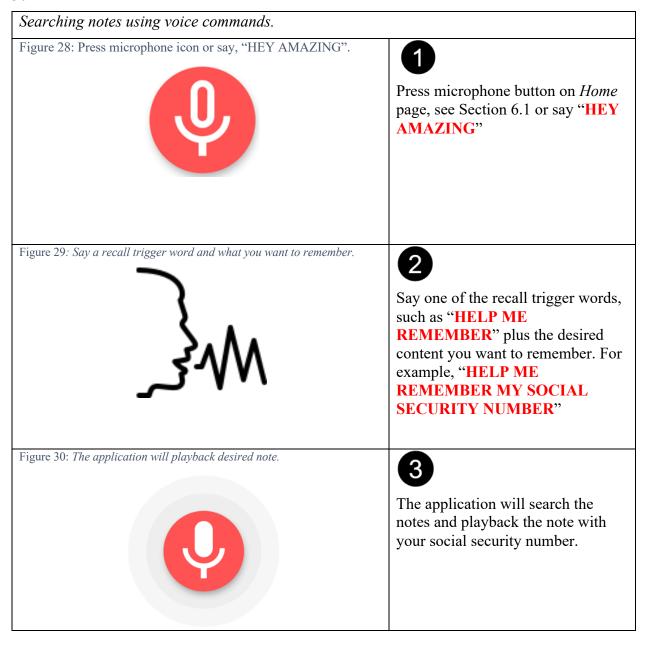
8.10. Change How Many Days to Keep a Note

To change the number of days to keep a note in the application, follow the steps shown below in Figures 25-27.



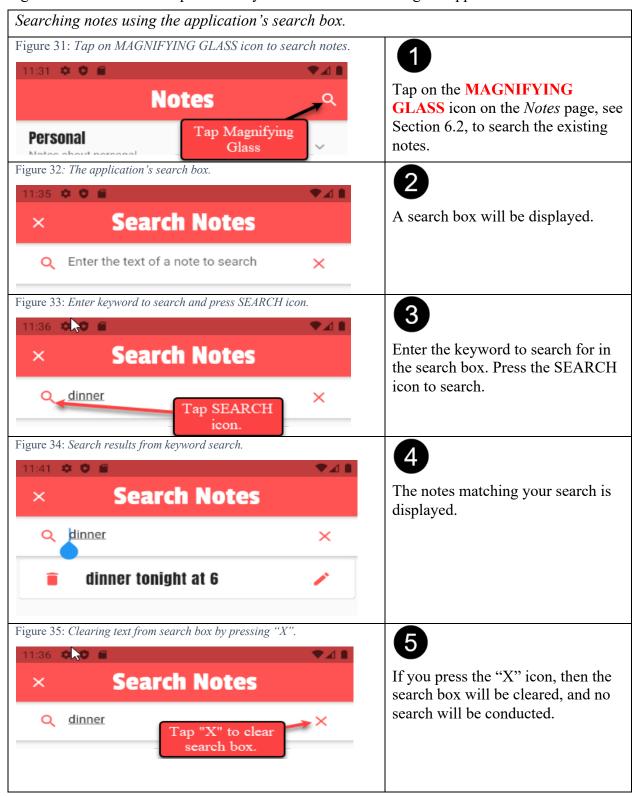
8.11. Search Note Using Voice

To search notes using voice, the following steps shown below can be followed, see Figures 28-30.



8.12. Search Note Using Search Box

Figures 31-35 show the steps necessary to search for notes using the application's search box.



9. Troubleshooting

This section of the user guide is to help with common issues that may occur when using the application.

1. Application unexpectedly crashes.

On Android, open **Settings** on the device. Under **Settings**, there should be an App Library where all the apps that are installed on the device are listed. Select *Memory Enhancer App* from the list. On the *App info* page for *Memory Enhancer App*, click **Force stop**. This will stop the application. Navigate back to the device's home page and start the *Memory Enhancer App* again.

2. Cannot find a created note.

When created, the notes are paired according to subject. Check under the subject that the note would be under. For example, a note about a doctor's appointment would be categorized under *Medical*. If you still cannot find it, look under the *Other* category or use the search functions described in Section 7.11 or Section 7.12.

3. Application is not recording my speech.

The device microphone may not have the correct permissions to record audio. On an Android, open the Chrome application and press on the microphone button. When prompted "Allow Chrome to record your audio," select "While using this app." Next, Google will prompt: "Allow Google to record your audio," select "All the time." Then, try to run the application again. If the application prompts you to give permission to record audio, select "While using this app."

4. Font size is too small

Navigate to the Settings page in the application. Select General Settings. On this page follow the instructions in Section 7.9.

5. Microphone Permission issue on iOS devices

Go to *Settings* > *Privacy* > *Microphone* and enable the Memory Enhancer application. Go to *Settings* > *Privacy* > *Speech Recognition* and enable the Memory Enhancer application.

6. Any other issues that are not listed

Please contact our team at me.teamamazing@gmail.com or visit our YouTube page for some how-to videos on how to use the application.