MemorEz Developer Test Reports

Milestone 4 – Combined Version 1

Combined by James Eble

UMGC SWEN670 – Spring 2022 (From submissions by FlutteringMind and RememberAll)

Professor Dr. Mir Assadullah

Table of Contents (Section 1 – Patient Mode)

1 Introduction	7
1.1 Purpose	7
1.2 Application Overview	7
1.3 Technical Project Stakeholders	7
1.4 Cross Reference Documents	9
1.5 Definitions, Acronyms, and Abbreviations	10
2 Types of Testing	12
2.1 Smoke Testing	12
2.2 Unit Testing	12
2.3 Integration Testing	13
2.4 Functional Testing	13
2.5 Final Acceptance Testing	13
3 Items Not Tested	14
4 Functional Testing	15
4.1 Test Case 1	15
4.2 Test Case 2	17
4.3 Test Case 3	17
4.4 Test Case 4	18
4.5 Test Case 5	18
4.6 Test Case 6	19
4.7 Test Case 7	19
4.8 Test Case 8	20
4.9 Test Case 9	20
4.10 Test Case 10	21
4.11 Test Case 11	21
4.12 Test Case 12	22
4.13 Test Case 13	22
4.14 Test Case 14	23

SPRING 2022 - DEV TEST REPORTS

	4.15 Test Case 15	. 23
	4.16 Test Case 16	. 24
	4.17 Test Case 17	. 24
	4.18 Test Case 18	. 25
5 Final	Acceptance Testing	. 26
	5.1 NLU Interaction	. 26
	5.2 Profile	. 28
	5.3 Activate and Deactivate Listening Mode	. 30
	5.4 Create Notes	. 32
	5.5 Transcribe Notes	. 34
	5.6 Edit and Delete Notes	. 36
	5.7 Onboarding	. 38
	5.8 Support for Multiple Languages	. 40
	5.9 Notifications	. 42
	5.10 Display Events on Calendar	. 44
	5.11 Complete Health Check Task	. 46
	5.12 Complete Activity Task	. 48
	5.13 Change App Settings	. 50
	5.14 Search Notes in Calendar Screen	. 52
	5.15 Search Notes in Notes Screen	. 54
	5.16 Help	. 58
6 Unit	Testing	. 58
7 Defe	cts Identified	. 62
8 Exit C	Criteria	. 63
9 Appe	ndices	. 64
	9.1 Unit Test Results	. 64
	9.2 Credits & Contributions	. 64
	9.3 Credits to Previous Cohorts	64

Table of Contents (Section 2 – Caregiver Mode)

1 Intro	duction	65
	1.1 Background	65
	1.2 Application Overview	65
	1.3 Intended Audience	65
2 Softv	ware Test Plan – Applied	66
	2.1 Purpose	66
	2.2 Testing Scope	66
	2.2.1 Strategy	66
	2.2.2 Types of Testing Used	67
	2.2.3 Testing Verification	68
	2.3 Environment	68
	2.4 Roles and Responsibilities	69
	2.5 Schedule	70
	2.6 Defect Management	71
	2.6.1 Severity Classification	71
	2.7 Test Cases	72
	2.7.1 Test Case 1	72
	2.7.2 Test Case 2	72
	2.7.3 Test Case 3	73
	2.7.4 Test Case 4	73
	2.7.5 Test Case 5	73
	2.7.6 Test Case 6	74
	2.7.7 Test Case 7	74
	2.7.8 Test Case 8	74
	2.7.9 Test Case 9	75
	2.7.10 Test Case 10	75
	2.7.11 Test Case 11	75
	2.7.12 Test Case 12	76

SPRING 2022 – DEV TEST REPORTS

	2.7.13 Test Case 13	76
	2.8 Deliverables	77
3 Appe	endices	78
	3.1 References	78
	3.2 Unit Test Results	78
	3.3 Acronyms and Abbreviations	.78

SPRING 2022 – DEV TEST REPORTS

Revision History for Combined Development Test Reports

Version	Date	Reason	Approved By
1.0	4/1/2022	Milestone 4	James Eble

Section 1 – Patient Mode Test Report

1 Introduction

This document serves as a test report for the development team, FlutteringMind, to provide all the reports, status, and priority that was found during the testing of the MemorEZ application.

1.1 Purpose

The purpose of this test report is to document the testing strategy and results for the MemorEZ Application. The types of testing completed, items not tested, and results of tested features are also featured in this report. This report can be used as a test guide for the future cohorts on how they can complete their testing in the future and what items they should look out for during their testing.

1.2 Application Overview

The MemorEZ application was developed for the UMGC Software Engineering Project Spring 2022 term application team. The requirements for the project were presented by Dr. Mir Assaduallah, and further developed on suggestions by the team as well as subject matter experts. The purpose of the application is to provide an application in which the user can make notes to remind them of various activities. The application can also be used to create a calendar of events, and a checklist of activities. Notifications can also be used within the application. In addition to English, this application supports several other languages, including Spanish, Chinese, Arabic, and Portuguese.

1.3 Technical Project Stakeholders

As the project moves forward, each team member has taken two or more roles to contribute towards the project since the beginning of the project. Starting milestone 3, the intensity of taking multiple roles has increased tremendously. Table 1 shows the project stakeholders for the MemorEZ Application and all the roles that development team, FlutteringMind have performed:

Table 1Project Stakeholders

Name	Role(s)
Dr. Mir Assadullah	Stakeholder (Project Owner)
Andrea	Previous stakeholder (nursing homeowner)
Dr. Evangelista	Current stakeholder
Roy Gordon	Stakeholder (Project Advisor)
Selina Zaman	Project Manager, Business Analyst, Developer, Tester
Vanessa Stringer	Business Analyst, Developer
Joshua Fischer	UI/UX Designer, Developer
Daryle Urea	Lead Developer, Business Analyst, Tester
Joseph Jewell	Developer, Business Analyst, Tester
Anusha Ramanan	Tester, Business Analyst
Sean LaMonica	Tester, Business Analyst

1.4 Cross Reference Documents

For a better understanding purpose, there have been other documents that have been created by Team FlutteringMind during Milestones 1 and 2 which would be very useful to the reader to go through to cross reference while reading through this documentation. This cross-reference documentations can help guide the readers to more detailed information about a particular topic discussed within the Programmers Guide

The previous documents include the following:

- **Project Plan, Version number 1.3 from March 24, 2022** The purpose of the project plan is to document a plan to design and build the MemorEZ application that includes a patient mode with a caregiver mode to help assist users suffering from STML and their caregiver.
- Software Requirements Specification (SRS), Version number 1.2 from March 24, 2022 The SRS document is intended to describe the requirements, both functional and nonfunctional for release of the MemorEZ Application.
- Technical Design Document (TDD), Version number 1.1 from March 24, 2022 TDD provides a comprehensive look at the design and architecture of the MemorEZ application to assist individuals who are suffering from STML.
- **Programmer's Guide, Version number 1.0 from March 24, 2022** This document details programming for the implementation and the detailed instructions of implementation of the MemorEZ application including all the tools and development software that the development teams utilized.
- Deployment & Operation Guide (Runbook), Version number 1.0 from March 24, 2022 Runbook documentation describes all the steps and instructions in detail that all the team members who were involved as developers, testers, and DevSecOps performed, how they worked on, what they completed, and how they implemented the entire app together as a whole.
- User Guide, Version number 1.0 from April 1, 2022 The purpose of this User Guide document is to provide guidance for the MemorEZ Application. This document will guide users to navigate the application and aid with features, functionality, and troubleshooting.

1.5 Definitions, Acronyms, and Abbreviations

Table 1 shows the most used acronyms/abbreviations and their definitions:

Table 1

Acronyms, Abbreviations, and Definitions

Acronyms and Abbreviations	Definitions
PM	Project Manager
BA	Business Analyst
DSO	DevSecOps
Flutter	Framework for developing cross platform applications
Dart	Programming language used in the Flutter framework
STML	Short Term Memory Loss
UX	User Experience
UI	User Interface
NLP	Natural Language Processing
NLU	Natural Language Understanding
OS	Operating System
LEO	UMGC online platform class
iOS	iPhone operating system
Flutter CLI	Flutter Command-line tool
API	Application Program Interface
TTS	Text to Speech
AVD	Android Virtual Device
UMGC	University of Maryland Global Campus
VM	Virtual Machine
AWS	Amazon Web Services
HTML	HyperText Markup Language

SPRING 2022 – DEV TEST REPORTS

XML	Extensible Markup Language
SDK	Software Development Kit
IDE	Integrated Development Environment

2 Types of Testing

Along with quick Smoke testing in the beginning of each new build, to thoroughly test the application, team FlutteringMind members performed various types of testing. We followed the Trello board we created for our requirements to follow our testing. We utilized our test comments from Trello card in here for our test report. The types of testing we performed are as follows:

2.1 Smoke Testing

Smoke tests were performed by the testers from team FlutteringMind to verify the functionality of the features and sub features are behaving as expected. If any issues or errors were found, they were reported to the development team. After issues were fixed, these features went through smoke testing again. We followed all of the tests/requirements added in the Trello board as part of our Smoke test to ensure that the basic functionality is working properly. Below is a link for the Trello board to view all the team members' testing on the application for the project:

https://trello.com/b/8QXwf7N9/memorez-sprint-board



2.2 Unit Testing

Unit tests were written and executed by development team members. The code coverage expected by the unit testing is 80% as directed by the DevSecOps Team. A number of unit test cases are added in the document.

2.3 Integration Testing

Integration testing was performed for the integration of the MemorEZ application. The purpose of this testing was to confirm that the NLU was returning the proper response to spoken transcriptions from the MemorEZ application. Also sending tasks from caregiver to patient also had multiple rounds of integration testing.

2.4 Functional Testing

Functional tests were performed by team members from FlutteringMind while we tested throughout the application new feature and sub features were implemented. The purpose of the functional testing was to complete testing to ensure that each feature and sub-features are functioning properly.

2.5 Final Acceptance Testing

Functional tests were performed by team members from FlutteringMind while we tested throughout the application new feature and sub features were implemented. The purpose of the functional testing was to complete testing to ensure that each feature and sub-features are functioning properly.

3 Items Not Tested

A few items were not tested for a variety of reasons. First, part of the NLU software was not tested, as it was tested by team Mesmerize. Second, Caregiver mode was not tested by team FlutteringMind, but by our partner team, RememberAll. Finally, the encryption feature was not directly tested, other than ensuring information was saved correctly. This was not directly tested through acceptance testing.

4 Functional Testing

Below a list of functional test cases in the tables:

4.1 Test Case 1

Test Number	1	
Feature Being Tested	On-boarding voice assistance	
Test Process/Steps	Open the MemorEZ app.	
	2. Select the language.	
	3. Click Next.	
	4. Select Yes to have permission to access the microphone.	
	5. Enter the phone number, password.	
	6. Select Allow to allow the MemorEZ app to record audio.	
	7. Select Allow to allow the MemorEZ app to take pictures and record video.	
	8. Select Allow to allow the MemorEZ app to access photos, media, and files on your device.	
	 Select Allow to allow the MemorEZ app to send and view SMS messages. 	
	10. Click Next.	
	11. Enter Phone Number, Password, confirm password in Set Up	
	12. Caregiver screen	
	13. Click Signup	
	14. Enter Full Name, Phone and Date of Birth in About Me screen	
	15. Click Next.	
	16. Click Next in the App walk through screen.	
	17. Click Next	
	18. User is taken to Settings page	
Expected Result	The user should be able to complete the onboarding process successfully and the system should redirect the user to the Menu screen.	
Assumptions	The user must be a first-time registered user to login to the application.	

SPRING 2022 – DEV TEST REPORTS

Actual Result	The user can complete the onboarding process successfully and the system redirects the user to the Menu screen.	
Pass/Fail	Pass	

4.2 Test Case 2

Test Number	2	
Feature Being Tested	Accessing the application for existing user	
Test Process	1. The user opens the app	
Expected Result	The app displays the menu screen for the user	
Assumptions	The user must be registered to use the application with all permissions previously approved on the device.	
Actual Result	The app displays the menu screen for the user	
Pass/Fail	Pass	

4.3 Test Case 3

Test Number	3	
Feature Being Tested	Complete Health Check Task	
Test Process	1. In the app, click Tasks button	
	2. Click the Health task from Active Tasks list	
	3. Click Great icon	
Expected Result	The app should display "Task completed" message and the task should be removed from Active Tasks list	
Assumptions	The user must be assigned or scheduled a Health Check (mood) task from the admin/caregiver mode.	
Actual Result	The app displays "Task completed" message and the task is removed from Active Tasks list	
Pass/Fail	Pass	

4.4 Test Case 4

Test Number	4
Feature Being Tested	Viewing and completing a task
Test Process	In the app, click Tasks button Click an activity task in the Active tasks
Expected Result	The app should display "Task completed" message and the task should be removed from Active Tasks list
Assumptions	The user must be assigned or scheduled tasks from the admin/caregiver mode.
Actual Result	The app displays "Task completed" message and the task is removed from Active Tasks list
Pass/Fail	Pass

4.5 Test Case 5

Test Number	5
Feature Being Tested	Viewing the Calendar
Test Process	 In the app, click the Calendar button. Click the date that has an event (black dot).
Expected Result	The event should be displayed under that date in the calendar.
Assumptions	The user must be assigned or scheduled events or appointments
Actual Result	The event displays under that date in the calendar.
Pass/Fail	Pass

4.6 Test Case 6

Test Number	6
Feature Being Tested	3.1.6.1 Profile
Test Process	1. In the App, click Profile button.
Expected Result	The user should be able to see About Me, Contacts, Care team, Transportation, Medications, Allergies, Past Medical History sections in the profile screen.
Assumptions	The user must have the profile completed from the caregiver mode
Actual Result	User can see About Me, Contacts, Care team, Transportation, Medications, Allergies, Past Medical History sections in the profile screen.
Pass/Fail	Pass

4.7 Test Case 7

Test Number	7
Feature Being Tested	Settings
Test Process	1. The user goes to the Menu screen
	2. The user selects the Settings option from the Menu
Expected Result	The system displays the settings section of the user
Assumptions	The user must have the profile completed from the caregiver mode
Actual Result	The system displays the settings section of the user
Pass/Fail	Pass

4.8 Test Case 8

Test Number	8
Feature Being Tested	Accessing the Help Page
Test Process	1.In the app, click Help button
	2.Click Overview of Notes topic in Notes section
Expected Result	The user should be able to see the help topics for Tasks, Notes, Calendar, Profile, Settings and chat
	The system should display the overview of the Notes screen and the related video.
Assumptions	The user must have contacts assigned to help page options from the admin/caregiver mode
Actual Result	The user can see the help topics for Tasks, Notes, Calendar, Profile, Settings, and chat The system displays the overview of the Notes screen and the related video.
Pass/Fail	Pass

4.9 Test Case 9

Test Number	9 Search Notes
Feature Being Tested	Search Function in Calendar
Test Process	1.In the app, click Calendar button.
	2. The user enters text in the search text field
Expected Result	The system should display a list of notes that match the search
Assumptions	The user must be assigned or scheduled a task or reminder from the admin/caregiver mode
Actual Result	The user is able to search for the notes in the Calendar
Pass/Fail	Pass

4.10 Test Case 10

Test Number	10 Search Notes
Feature Being Tested	Search Function in Notes
Test Process	1.In the app, click the Notes button.
	2. The user enters text in the search text field
Expected Result	The system should display a list of notes that match the search
Assumptions	The user must be assigned or scheduled a task or reminder from the admin/caregiver mode
Actual Result	The user is able to search for the notes in the Notes
Pass/Fail	Pass

4.11 Test Case 11

Test Number	11
Feature Being Tested	Using the Microphone button
Test Process	1. The user selects the microphone button once
	2. The user begins to speak
	3. The user selects the microphone button again to stop the microphone
	4. The notes from what user is saying gets saved
Expected Result	The system saves the notes
Assumptions	The user must have a device with a microphone and permissions to access device resources granted
Actual Result	System saves the note
Pass/Fail	Pass

4.12 Test Case 12

Test Number	12
Feature Being Tested	Add Note
Test Process	 In the App click the notes button. In the Notes screen, click the Add Notes button (+ button). Enter the note text. Select Date and time. Also select yes to send reminder notification. Click Save Note.
Expected Result	The system should save the note.
Assumptions	None
Actual Result	System saves the notes in the account
Pass/Fail	Pass

4.13 Test Case 13

Test Number	13
Feature Being Tested	Modify/Edit Note
Test Process	In the App click the notes button.
	In the Notes screen, click the existing Note.
	Edit the note.
	Click Save Note.
Expected Result	The system saves the note
Assumptions	None
Actual Result	Systems updates the notes as the user modifies the notes
Pass/Fail	Pass

4.14 Test Case 14

Test Number	14
Feature Being Tested	Delete Note
Test Process	 In the App click the notes button. In the Notes screen, click the existing Note. Click Remove Note.
Expected Result	The system deletes the note
Assumptions	The system must have previously entered note stored
Actual Result	The system deleted notes
Pass/Fail	Pass

4.15 Test Case 15

Test Number	15
Feature Being Tested	Recall Note
Test Process	1. The user activates the microphone and speaks.
	2. User asks the system about the notes the system just added
Expected Result	The System responds to the user from what it saved previously
Assumptions	The system must have listened mode activated.
Actual Result	
Pass/Fail	Pass

4.16 Test Case 16

Test Number	16
Feature Being Tested	Activating Listening Mode
Test Process	1. The user taps the microphone
Expected Result	The system activates listening mode and displays an indicator
Assumptions	The user must have a device with a microphone and permissions to access device resources granted.
Actual Result	
Pass/Fail	Pass

4.17 Test Case 17

Test Number	17
Feature Being Tested	Deactivating Listening Mode
Test Process	1. The user taps the microphone
Expected Result	The system deactivates listening mode, turns off the device microphone, and stop listening to speech
Assumptions	The user must have a device with a microphone and permissions to access device resources granted.
Actual Result	
Pass/Fail	Pass

4.18 Test Case 18

Test Number	18
Feature Being Tested	Notification reminder
Test Process	1. The user taps the microphone
Expected Result	System should send a notification
Assumptions	The user must have a device with a microphone and permissions to access device resources granted.
Actual Result	System sends a notification
Pass/Fail	Pass

5 Final Acceptance Testing

The following sections show the User Acceptance Testing completed by team Fluttering Mind

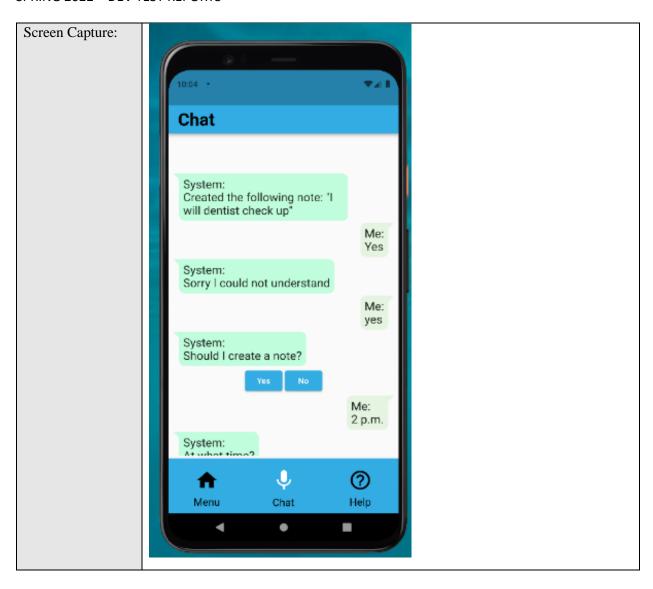
5.1 NLU Interaction

Table 1 shows the NLU Interaction test:

Table 1

NLU Interaction

Test Name:	NLU Interaction
Test Type:	User Acceptance Testing
Test Date:	03/28/2022
Test Conductor:	Anusha Ramanan
	Sean LaMonica
	Selina Zaman
Witnesses	Eyob Woldehana
	Johnnie Webb
Software Version:	Android Studio Arctic Fox 2020.3.1
	Android Studio Bumble Bee 2021.1.1
Emulator Version:	Android Pixel 5 API 28
	Android Pixel 4 API 28
	• iPhone 12 Pro
Steps:	In application, click the Microphone Icon
	2. Speak a key phrase such as Make Appointment
Expected Result:	Application should ask for more information, such as date and time of
	appointment, and ask to create a note.
Issues:	None
Status:	Pass



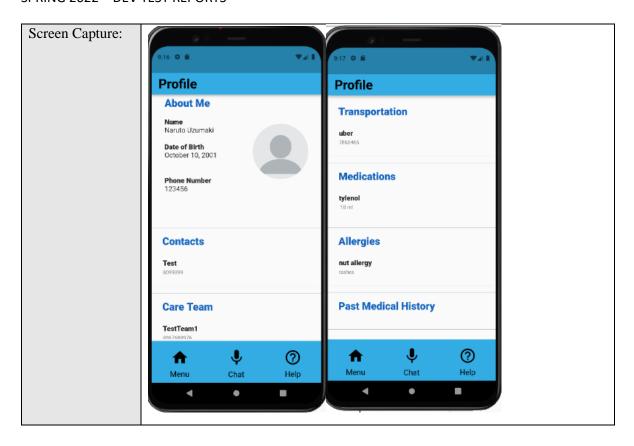
5.2 Profile

Table 2 shows the profile test:

Table 2

Profile

Test Name:	Profile
Test Type:	User Acceptance Testing
Test Date:	03/28/2022
Test Conductor:	Anusha Ramanan
	Sean LaMonica
	Selina Zaman
Witnesses	Eyob Woldehana
	Johnnie Webb
Software	Android Studio Arctic Fox 2020.3.1
Version:	Android Studio Bumble Bee 2021.1.1
Emulator	Android Pixel 5 API 28
Version:	Android Pixel 4 API 28
	• iPhone 12 Pro
Steps:	1. In the App, click the Profile button.
Expected Result:	The user should be able to see About Me, Contacts, Care team,
	Transportation, Medications, Allergies, Past Medical History sections in the profile screen.
Issues:	
Status:	Pass

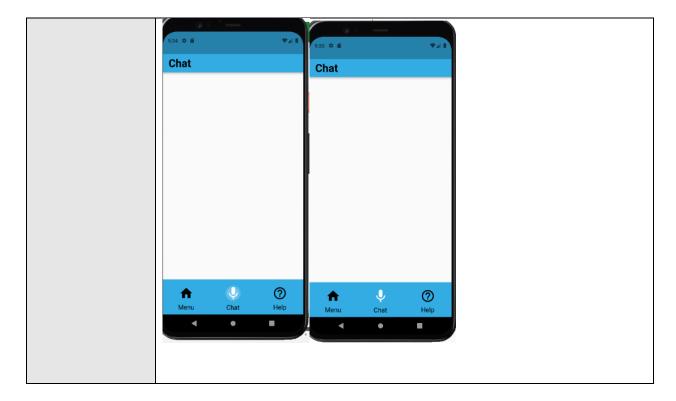


5.3 Activate and Deactivate Listening Mode

Table 3 shows the activate/deactivate listening mode test:

Table 3Activate/Deactivate Listening Mode

Test Name:	Activate and descrive listening made
Test Name:	Activate and deactivate listening mode
Test Type:	User Acceptance Testing
Test Date:	10/28/2021
Test Conductor:	Anusha Ramanan
	Sean LaMonica
	Selina Zaman
Software Version:	Eyob Woldehana
	Johnnie Webb
Witnesses	Android Studio Arctic Fox 2020.3.1
	Android Studio Bumble Bee 2021.1.1
Emulator Version:	Android Pixel 5 API 28
	Android Pixel 4 API 28
	• iPhone 12 Pro
Steps:	Activate Listening mode
	1. In the app, select chat/microphone button
	Deactivate Listening mode
	2. In the app, select chat/microphone button again
Expected Result:	1.The System should display an indicator that the microphone is recording.
	2. The System should deactivate the listening mode, turn off the device microphone, and stop listening to speech.
Issues:	
Status:	Pass
Screenshot:	



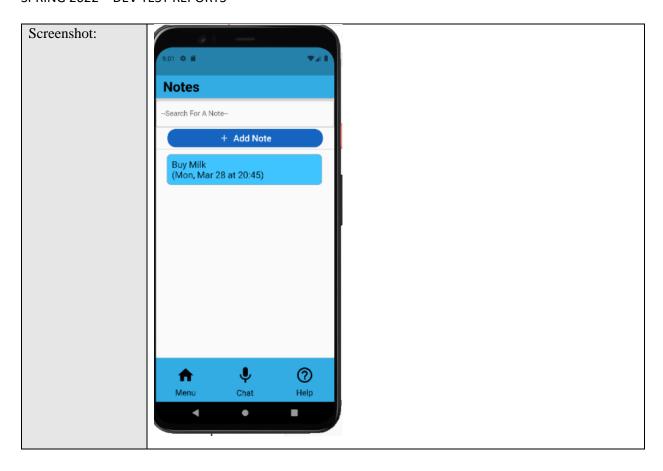
5.4 Create Notes

Table4 shows the create notes test:

Table 4

Create Notes

Test Name:	Create notes
Test Type:	User Acceptance Testing
Test Date:	03/27/2022
Witnesses	Anusha Ramanan
	Sean LaMonica
	Selina Zaman
Test Conductor:	Eyob Woldehana
	Johnnie Webb
Software Version:	Android Studio Arctic Fox 2020.3.1
	Android Studio Bumble Bee 2021.1.1
Emulator Version:	Android Pixel 5 API 28
	Android Pixel 4 API 28
	• iPhone 12 Pro
Steps:	2. In the App click the notes button.
	3. In the Notes screen, click the Add Notes button (+ button).
	4. Enter the note text. Select Date and time. Also select yes to send reminder notification.
	5. Click Save Note.
Expected Result:	The system should save the note.
Issues:	
Status:	Pass



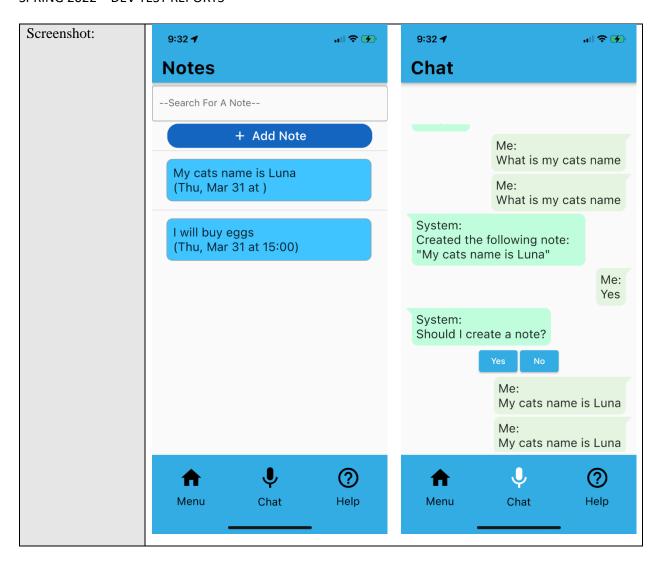
5.5 Transcribe Notes

Table 5 shows the transcribe notes test:

Table 5

Recall Notes

Test Name:	Recall notes
Test Type:	User Acceptance Testing
Test Date:	10/30/2021
Test Conductor:	Anusha Ramanan
	Sean LaMonica
	Selina Zaman
Software Version:	Eyob Woldehana
	Johnnie Webb
Witnesses	Android Studio Arctic Fox 2020.3.1
	Android Studio Bumble Bee 2021.1.1
Emulator Version:	Android Pixel 5 API 28
	Android Pixel 4 API 28
	• iPhone 12 Pro
Steps:	1. Navigate to the "Chat" Section.
	2. Created a note that said, "My cat's name is Luna."
	3. Navigated to notes and made sure the note was saved.
	4. Navigated back to "Chat."
	5. Asked the chat "What is my cat's name?"
	6. The chat gave me my cat's name.
Expected Result:	The notes should be recalled.
Issues:	
Status:	Pass



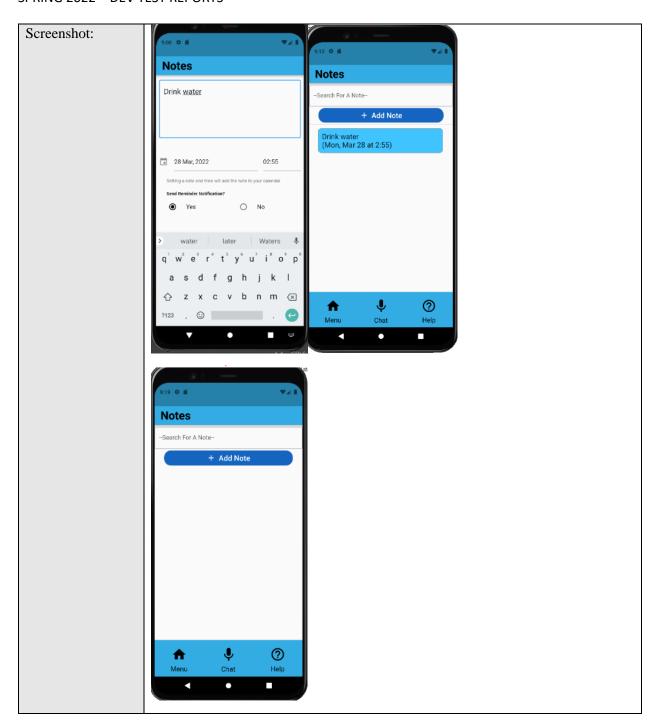
5.6 Edit and Delete Notes

Table 6 shows the edit/delete notes test:

Table 6

Edit/Delete Notes

Test Name:	Edit and Delete Notes
Test Type:	User Acceptance Testing
Test Date:	03/27/2022
Test Conductor:	Anusha Ramanan
	Sean LaMonica
	Selina Zaman
Software Version:	Eyob Woldehana
	Johnnie Webb
Witnesses	Android Studio Arctic Fox 2020.3.1
	Android Studio Bumble Bee 2021.1.1
Emulator Version:	Android Pixel 5 API 28
	Android Pixel 4 API 28
	• iPhone 12 Pro
Steps:	1. In the App click the notes button.
	2. In the Notes screen, click the existing Note.
	3. Edit the note.
	4. Click Save Note.
	5. Click the existing note.
	6. Click Remove Note.
Expected Result:	The notes should be edited and deleted.
Issues:	
Status:	Pass



5.7 Onboarding

Table 7 shows the onboarding test:

Table 7

Onboarding

Test Name:	Onboarding				
Test Type:	User Acceptance Testing				
Test Date:	03/27/2022				
Test Conductor:	Anusha Ramanan				
	Sean LaMonica				
	Selina Zaman				
Software Version:	Eyob Woldehana				
	Johnnie Webb				
Witnesses	Android Studio Arctic Fox 2020.3.1				
	Android Studio Bumble Bee 2021.1.1				
Emulator Version:	Android Pixel 5 API 28				
	Android Pixel 4 API 28				
	• iPhone 12 Pro				
Steps:	1. Open the MemorEZ app.				
	2. Select the language.				
	3. Click Next.				
	4. Select Yes to have permission to access the microphone.				
	5. Enter the phone number, password.				
	6. Select Allow to allow the MemorEZ app to record audio.				

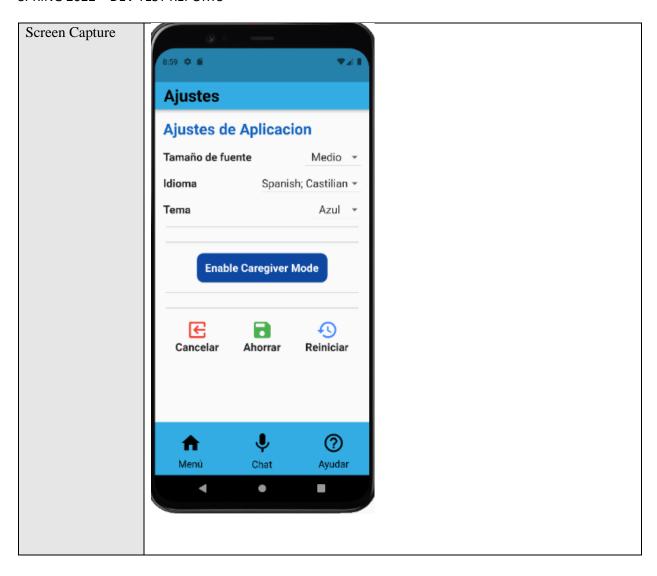
	7. Select Allow to allow the MemorEZ app to take pictures and record video.				
	8.Select Allow to allow the MemorEZ app to access photos, media, and files on your device.				
	on your device.				
	9.Select Allow to allow the MemorEZ app to send and view SMS messages.				
	10. Click Next.				
	13. Click Next in the caregiver sign up screen.				
	14.Enter Full Name, phone and Date of Birth in About Me screen				
	15. Click Next.				
	16.Click Next in App walk through screen				
Expected Result:	The user should be able to complete the onboarding process successfully and the				
	system should redirect the user to the Menu screen.				
Issues:					
Status:	Pass				
Screenshot:	Select Language Please select your primary language. Language English CALENDAR PROFILE SETTINGS Menu TASKS NOTES CALENDAR PROFILE SETTINGS				

5.8 Support for Multiple Languages

Table 8 shows the support for multiple languages test:

Table 8Multiple Languages Support

Test Name:	Support for multiple languages				
Test Type:	User Acceptance Testing				
Test Date:	03/28/2022				
Test Conductor:	Anusha Ramanan				
	Sean LaMonica				
	Selina Zaman				
Witnesses	Eyob Woldehana				
	Johnnie Webb				
Software Version:	Android Studio Arctic Fox 2020.3.1				
	Android Studio Bumble Bee 2021.1.1				
Emulator Version:	Android Pixel 5 API 28				
	Android Pixel 4 API 28				
	• iPhone 12 Pro				
Steps:	1. In the app, click Settings.				
	2. Click language dropdown.				
	3. In the language drop down select Spanish.				
	4. Click save.				
Expected Result:	The app should display English, Spanish, Portuguese, Chinese, Arabic options in the language dropdown.				
	The settings should be displayed in the selected language.				
Issues:					
Status:	Pass				



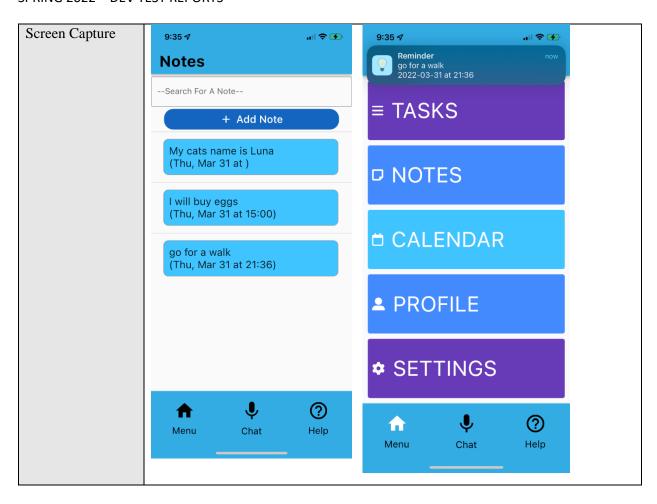
5.9 Notifications

Table 9 shows the notifications test:

Table 9

Notifications

Test Name:	Notifications				
Test Type:	User Acceptance Testing				
Test Date:	03/28/2021				
Test Conductor:	Anusha Ramanan				
	Sean LaMonica				
	Selina Zaman				
Witnesses	Eyob Woldehana				
	Johnnie Webb				
Software Version:	Android Studio Arctic Fox 2020.3.1				
	Android Studio Bumble Bee 2021.1.1				
Emulator Version:	Android Pixel 5 API 28				
	Android Pixel 4 API 28				
	• iPhone 12 Pro				
Steps:	Navigate to "Settings" Then "Caregiver Mode"				
	2. Logged onto "Caregiver Mode."				
	3. Created a note with a send notification feature.				
	4. Exited Caregiver mode and waiting in patient mode.				
	5. The notification appeared on the phone at the appropriate time.				
Expected Result:	Notification was sent to the phone.				
Issues:					
Status:	Pass				

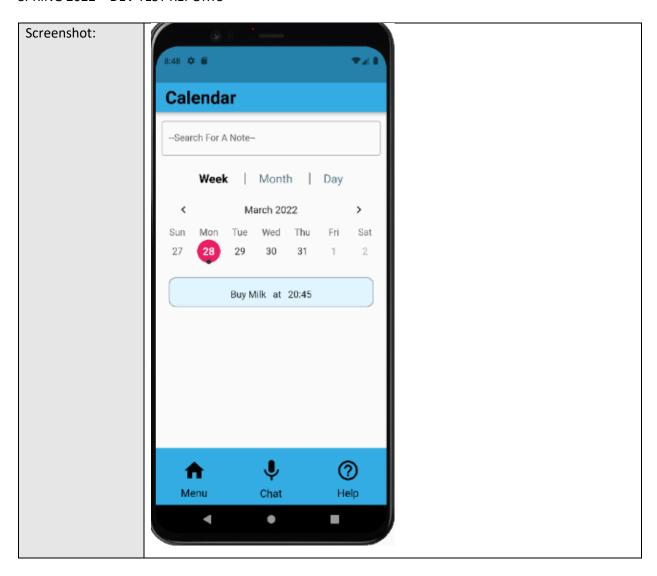


5.10 Display Events on Calendar

Table 10 shows the display events on calendar test:

Table 10Display Events on Calendar

Test Name:	Display Events on Calendar			
Test Type:	User Acceptance Testing			
Test Date:	03/28/2022			
Test Conductor:	Anusha Ramanan			
	Sean LaMonica			
	Selina Zaman			
Witnesses	Eyob Woldehana			
	Johnnie Webb			
Software Version:	Android Studio Arctic Fox 2020.3.1			
	Android Studio Bumble Bee 2021.1.1			
Emulator Version:	Android Pixel 5 API 28			
	Android Pixel 4 API 28			
	iPhone 12 Pro			
Steps:	1. In the app, click the Calendar button.			
	2. Click the date that has an event (black dot).			
Expected Result:	The event should be displayed under that date in the calendar.			
Issues:				
Status:	Pass			

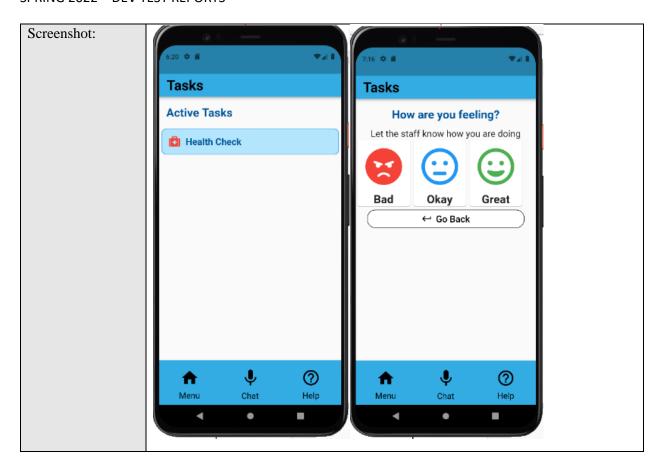


5.11 Complete Health Check Task

Table 11 shows the complete health check task test:

Table 11Display Events on Checklist

Test Name:	Complete Health Check Task				
Test Type:	User Acceptance Testing				
Test Date:	03/29/2022				
Test Conductor:	Anusha Ramanan				
	Sean LaMonica				
	Selina Zaman				
Witnesses	Eyob Woldehana				
	Johnnie Webb				
Software Version:	Android Studio Arctic Fox 2020.3.1				
	Android Studio Bumble Bee 2021.1.1				
Emulator Version:	Android Pixel 5 API 28				
	Android Pixel 4 API 28				
	• iPhone 12 Pro				
Steps:	1. In the app, click Tasks button				
	2. Click the Health task from Active Tasks list				
	3. Click Great icon				
Expected Result:	The app should display "Task completed" message and the task should be				
	removed from Active Tasks list				
Issues:					
Status:	Pass				



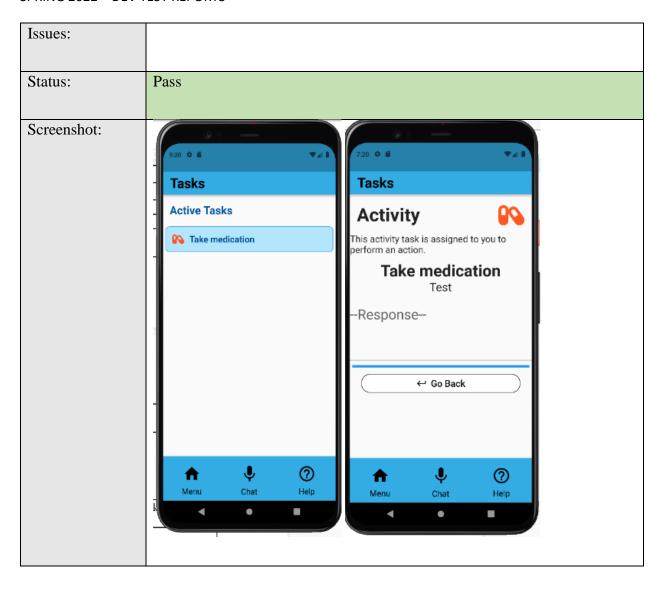
5.12 Complete Activity Task

Table 12 shows the complete activity task test:

Table 12

Change Theme Settings

Test Name:	Complete activity task				
rest rame.	Complete activity task				
Test Type:	User Acceptance Testing				
J F					
Test Date:	03/29/2022				
Test Conductor:	Anusha Ramanan				
	Sean LaMonica				
	Selina Zaman				
Witnesses	Eyob Woldehana				
	Johnnie Webb				
Software	Android Studio Arctic Fox 2020.3.1				
Version:	Android Studio Bumble Bee 2021.1.1				
Emulator	Android Pixel 5 API 28				
Version:	Android Pixel 4 API 28				
	• iPhone 12 Pro				
Steps:	1. In the app, click Tasks button				
	2. Click an activity task in the Active tasks				
Expected Result:	The app should display "Task completed" message and the task should be				
	removed from Active Tasks list				



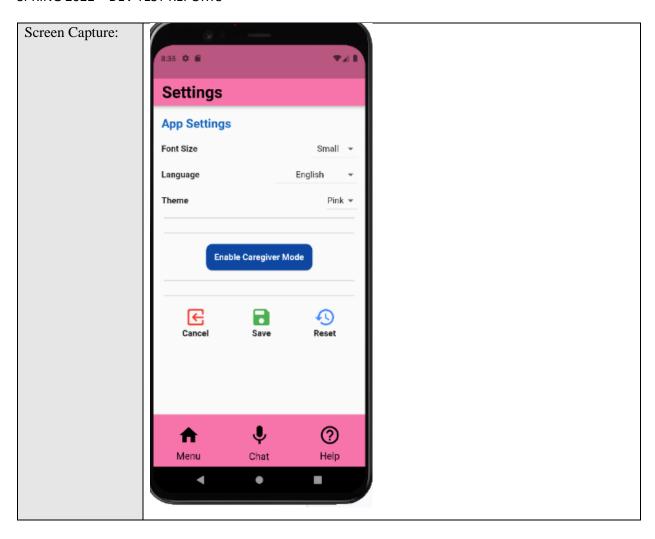
5.13 Change App Settings

Table 13 shows the change app settings test:

Table 13

Change App Settings

Test Name:	Change App Settings				
Test Type:	User Acceptance Testing				
Test Date:	03/28/2022				
Test Conductor:	Anusha Ramanan				
	Sean LaMonica				
	Selina Zaman				
Witnesses	Eyob Woldehana				
	Johnnie Webb				
Software Version:	Android Studio Arctic Fox 2020.3.1				
	Android Studio Bumble Bee 2021.1.1				
Emulator Version:	Android Pixel 5 API 28				
	Android Pixel 4 API 28				
	• iPhone 12 Pro				
Steps:	1.In the app, click the Settings button.				
	2.Select the following in the app settings dropdowns.				
	Font - small, Language - Portuguese, Theme - pink				
	3. Click Save.				
Expected Result:	The settings should be displayed based on the selection made.				
Issues:					
Status:	Pass				



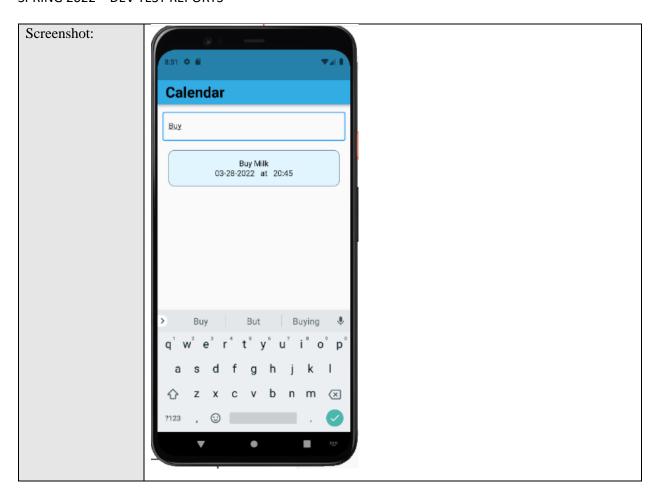
5.14 Search Notes in Calendar Screen

Table 14 shows the search notes in calendar screen test

Table 14

Search Notes

Test Name:	Search Notes			
Test Type:	User Acceptance Testing			
Test Date:	03/28/2022			
Test Conductor:	Anusha Ramanan			
	Sean LaMonica			
	Selina Zaman			
Witnesses	Eyob Woldehana			
	Johnnie Webb			
Software Version:	Android Studio Arctic Fox 2020.3.1			
	Android Studio Bumble Bee 2021.1.1			
Emulator Version:	Android Pixel 5 API 28			
	Android Pixel 4 API 28			
	• iPhone 12 Pro			
Steps:	1.In the app, click the Calendar button.			
	2.Enter text in the search field.			
Expected Result:	The system should display a list of notes that match the search			
Issues:				
Status:	Pass			



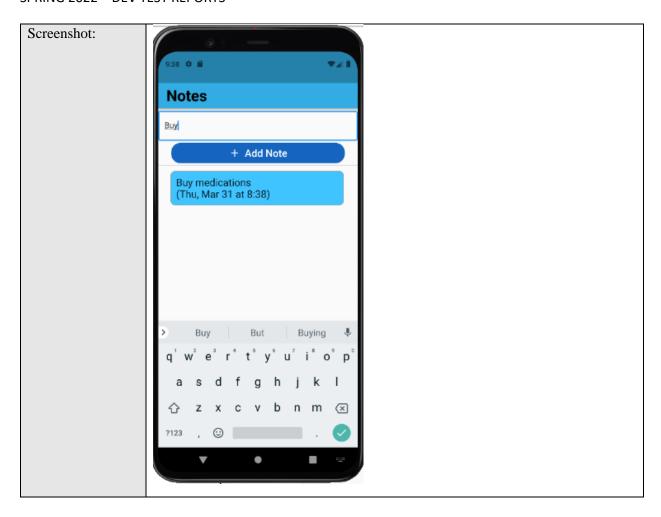
5.15 Search Notes in Notes Screen

Table 15 shows the search notes in notes screen test

Table 15

Search Notes

Test Name:	Search Notes			
Test Type:	User Acceptance Testing			
Test Date:	03/28/2022			
Test Conductor:	Anusha Ramanan			
	Sean LaMonica			
	Selina Zaman			
Witnesses	Eyob Woldehana			
	Johnnie Webb			
Software Version:	Android Studio Arctic Fox 2020.3.1			
	Android Studio Bumble Bee 2021.1.1			
Emulator Version:	Android Pixel 5 API 28			
	Android Pixel 4 API 28			
	• iPhone 12 Pro			
Steps:	1.In the app, click the Notes button.			
	2.Enter text in the search field.			
Expected Result:	The app should display the respective note.			
Issues:				
Status:	Pass			



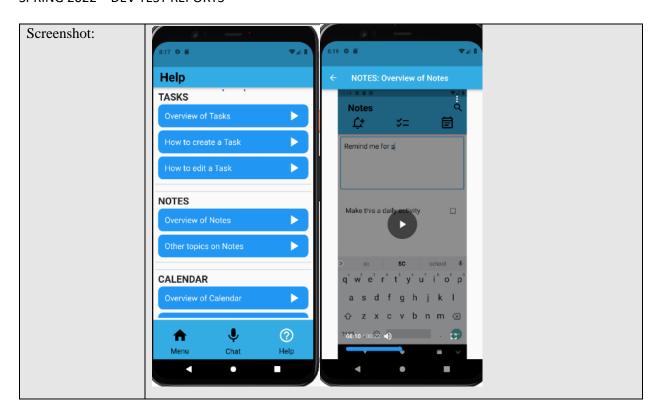
5.16 Help

Table 16 shows the help test:

Table 16

Help

Test Name:	Help				
Test Type:	User Acceptance Testing				
Test Date:	03/28/2022				
Test Conductor:	Anusha Ramanan				
	Sean LaMonica				
	Selina Zaman				
Witnesses	Eyob Woldehana				
	Johnnie Webb				
Software Version:	Android Studio Arctic Fox 2020.3.1				
	Android Studio Bumble Bee 2021.1.1				
Emulator Version:	Android Pixel 5 API 28				
	Android Pixel 4 API 28				
	• iPhone 12 Pro				
Steps:	1. In the app, click Help button				
	2. Click Overview of Notes topic in Notes section				
Expected Result:	The user should be able to see the help topics for Tasks, Notes, Calendar, Profile,				
	Settings, and Chat				
T	The system should display the overview of Notes screen and the related video.				
Issues:					
Status:	Pass				



6 Unit Testing

The following unit tests were identified and modified as original requirements in precious documents and are listed here. These unit tests were run and approved by the developers and testers in the team of the MemorEZ application.

General Tests:

1. Application Opens Up

Success case: The application opens up to the Menu screen in Patient mode

2. The system successfully completes onboarding credentials

Success case: The system asks for Caregiver Credentials, App Settings, and gives Patient Intro Video when first opened

3. From any page, click Menu

Success case: The application will bring the user to the home screen.

4. From any page, click on Chat

Success case: The application will bring you to the chat screen.

5. From any page, click on Help

Success case: The application will navigate to the Help screen.

Menu Screen:

6. Click on "Tasks"

Success case: The screen will navigate to the Tasks section.

7. Click on "Notes"

Success case: The screen will navigate to the Notes section.

8. Click on "Calendar"

Success case: The screen will navigate to the Calendar section.

9. Click on "Profile"

Success case: The screen will navigate to the Profile section.

10. Click on "Settings"

Success case: The screen will navigate to the Settings section.

Tasks Screen:

11. Double tap on Active Task

Success case: Task moves to Completed Task.

12. Double tap on Completed Task

Success case: Task moves to Active Task.

13. The user can complete a mood task

Success case: The user completes the mood task and results are sent to the caregiver.

Note Screen:

14. Search for note

Success case: Searched note will appear.

15. Add Note

Success case: Note will be added

16. Delete Note

Success case: Note is deleted.

17. Update Note

Success case: Note will be updated.

Calendar Screen

18. View the Calendar in week, month, or day

Success case: Ability to view the calendar in week, month, and day mode.

19. Click a date to see note/appointment

Success case: Note/appointment appears when clicking on a day.

20. Search for a note/appointment

Success case: Note appears when searching for the note/appointment.

Profile Screen

21. User can view self-profile information

Success case: User can view the self-profile in read only mode.

22. User can view contacts information

Success case: User can view the contacts in read only mode.

23. User can view care team information

Success case: User can view the care team information in read only mode.

24. User can view preferred transportation information

Success case: User can view the preferred transportation in read only mode.

Settings Screen

25. User can change the font size

Success case: The user can change the font size to small, medium, or large.

26. User can change the language

Success case: User can change the language to English, Spanish, Portuguese, Chinese, or Arabic.

27. User can change the color of the app

Success case: User can change the color to pink or blue.

28. User can login to caregiver mode

Success case: User clicks the caregiver mode button to login to and enable caregiver mode.

29. User can select cancel, save, or reset

Success case: The user can cancel changes, save changes, or reset changes that were made.

Chat Screen

30. User can enable/disable the Speech-to-text feature

Success case: The user can click the microphone to enable the speech-to-text feature.

31. Manage a note

Success case: The user can make changes to notes or add notes using the speech-to-text feature.

Help Screen

32. Assistance on Tasks

Success case: The user can watch videos of the overview of the tasks option, how to create a task, and how to edit a task.

33. Assistance on Notes

Success case: The user can watch a video on the overview of notes, and other topics on notes.

34. Assistance on Calendar

Success case: The user can watch a video on the overview of the calendar, and other topics on the calendar.

35. Assistance on Profile

Success case: The user can watch a video on the overview of the profile, and other topics on the profile.

36. Assistance on Settings

Success case: The user can watch a video on the overview of the settings, and other topics on the settings.

37. Assistance on Chat

Success case: The user can watch a video on the overview of the chat, and other topics on the chat.

7 Defects Identified

A defect was found when searching for a note. When searching for a note, if the user then clicks the "+" button to create a note, all notes will then get deleted. This defect is of medium severity, as it could affect the overall function of the application.

Another defect that was found is that long notes are clipped in the calendar, and then will display beyond their bounds. This defect is of low severity, as it does not affect the overall function of the application.

8 Exit Criteria

The exit criteria for the completion of testing are the following:

- All user acceptance testing is completed, and issues are reported back to the development team in order for them to correct the issue.
- All unit testing is performed on the application, with 90% coverage of the application.
- Issues that have been found have been documented for the development team to see.
- There are no other test cases that need to be run, as determined by the team.

9 Appendices

9.1 Unit Test Results

# of Tests	# Pass	# Non-Pass	% Pass	% Non-Pass
52	28	24	53.8	46.2

9.2 Credits & Contributions

Below are the members that contributed or will contribute to the development of this application:

The following members contributed to the development of this software:

- Dr. Mir Mohammed Assadullah (Product Owner, Stakeholder)
- Dr. Andrea Evangelista (Subject Matter Expert)
- Roy Gordon (Mentor)
- James Eble
- Brian Avadikian
- Selina Zaman
- Lizset Chavez Chacaltana
- Robert Edwards
- Joshua Fischer
- Joseph Jewell
- Sean LaMonica
- Andrew Nicolette
- Anusha Ramanan
- Yusufu Sanu
- Vivek Singh
- Vanessa Stringer
- Daryle Urrea
- Johnnie Webb
- Eyob Woldehana
- Robert Wren

9.3 Credits to Previous Cohorts

Johnny Lockhart, Jeroen Soeurt, Michelle Monfort, Robert Wilson, Ayodeji Famudehin, Chauntika Broggin, Christian Ahmed, Mitchell Olshansky, Mod Drammeh, Nicholas Ballo, Shawn Kelly, Raul Benavides, Maddison Dunning, Alec Baileys, Benjamin Cushing, Elshaday Mesfin, Tyler Puschinsky, Michael Le, Debashis Jena, Austin Johnson, Prince Antwi Aboagye, Didimus Kimbi, Damion Sevilla, Rebecca Johnson, Addisu Worku, Matthew Setiawan, Obinna Okonkwo, Andrew Rohn, Joseph Kalfus, Firehiwot Chari, Eskedar Endashw, Malik Webster, Leela Subramanian, Presley Muwan, Christian Cruz Jimenez, Daniel Avery, Karen Crumb, Kevin Bell, Sami Salim, Teresa Balbi, Endalkachew Girma

Section 2 – Caregiver Mode Test Report

1 Introduction

1.1 Background

As a part of RememberAll's Milestone 2 deliverables, a Software Test Plan was developed and included in the documentation suite within the overall Project plan. The purpose of this document is to present the results of that test plan in a central location.

1.2 Application Overview

The MemorEZ mobile application has been developed to provide an application that is useful for individuals with short term memory loss (STML) and their caregivers. The application gives the user a way to save important events when they arise and save relevant personal information that can be accessed when needed. It also gives a caregiver the ability to remind a STML user to do something important at a specific time and know that it was done.

1.3 Intended Audience

This document is intended for stakeholders, project managers, business analysts, project testers, project developers, and interested users to explain the testing procedures, and show the specific acceptance cases tested with results.

2 Software Test Plan – Applied

The Software Test Report shows the results of the Test Plan that was implemented throughout the major development phase (Milestone 3), and provides the final capstone set of test cases presented in the main text of this report. The results of continuous testing that took place throughout the semester can be seen by visiting United Global Master Coders Trello environment for this development effort at: MemorEZ Sprint Board | Trello, and will be included in the Appendix of this report.

2.1 Purpose

The purpose of this document is to present the results of that test plan in a central location and provide links/visibility to the > 200 individual smoke/integration tests that took place throughout the development process. This document also covers the results of the acceptance test cases that were included in the project plan.

2.2 Testing Scope

Features that will be tested in the Final Test Suite:

- 1. The application has two distinct modes: Caregiver and User.
- 2. Application settings are able to be viewed.
- 3. Application settings are able to be edited.
- 4. An STML Users Profile is able to be viewed.
- 5. An STML Users Profile is able to be edited while in a Caregiver Mode.
- 6. As an STML user I can view a calendar with a list of events.
- 7. As an STML user I can edit events on my calendar.
- 8. As an STML user I can view notes / reminders.
- 9. As an STML user I can create, edit, and delete notes/reminders.
- 10. As an STML User I can view resources available to me.
- 11. As a Caregiver I can edit the resources displayed to the STML User.
- 12. As an STML User I can view transportation resources available to me.
- 13. As a Caregiver I can edit the transportation resources displayed to the STML User.

Features outside of the testing scope for Team RememberAll:

- Documenting each iOS and Android version that the application does not work on.
- Performance metrics like application responsiveness.

2.2.1 Strategy

The strategy for RememberAll's testing was derived from the project plan and implemented over the 7 weeks of development. Continuous integration testing (Smoke Testing) was utilized as one of the main test methods. Over 200 of these tests were conducted and documented in the Trello Board.

Unit testing was utilized for the LEX/chatbot functionality to ensure and validate that all the functionality developed by the previous semester was pulled forward into this semester.

Lastly, this test report presents the results of the Acceptance and System test cases performed on the end product.

2.2.2 Types of Testing Used

NOTE- The following testing definitions are pulled directly from the RememberAll Project plan for your reference.

Unit testing – testing sections of code independently before integration.

Due to time constraints and limited resources, developers will conduct unit tests during development. Testing sections of code in isolation makes it easier to find bugs and easier to find the cause of bugs. Conversely, testing after integration brings questions of whether the issue is caused by the unit, by the main codebase, or by an interaction between the two. Unit testing prior to integration avoids those questions.

Smoke testing – testing the basic functionality of the existing software after something is integrated/added.

Smoke testing will be completed whenever something new is being added to the main codebase. Commits will not be added to the main branch unless it is verified that the set of tests have been completed. RememberAll and FlutteringMind will have a coordinated set of use cases tests designed in collaboration with the overall project manager. These use cases will be tested and recorded according to the acceptance testing requirements described below.

The set of tests will be created by finding the most critical tasks performed in the app and developing simple tests that show each of those tasks can still be completed. The set of tests will be updated once new features are added to the application. Critical features and functionalities that are added early in development will be part of smoke tests for features added later.

The set of tests will be run frequently, so it is important for the tests to require little time and effort, while covering the most important parts of the application.

Acceptance testing – testing whether the product complies with requirements and meets the needs of the end-users.

Acceptance testing for the application must validate that each feature of the application's UI fulfills its purpose. Each screen of the UI warrants a test suite comprised of test cases. Each test case should correspond to a screen feature. Each test case includes: A Test Case ID Number for identification, the feature being tested, a test process description, an expected result, any assumptions, an actual result, an indication of pass or fail.

Acceptance tests will be conducted at the end of each sprint. With limited external resources the team members may volunteer to be an acceptance test subject.

System testing – the overall testing of an assembled product.

System testing is the formal testing stage to ensure the app works as expected and handles interactions in an acceptable manner. This step of testing will be conducted at the end of the main development phase.

2.2.3 Testing Verification

In order to provide redundancy and transparency in the testing process, each test will have a witness from the other development team. These testers and witnesses will coordinate the tests via Microsoft Teams, where screen sharing will enable the witnesses to easily verify the results of the testers.

2.3 Environment

The MemorEZ application will be developed and tested in the Android Studio IDE, version Arctic Fox 2020.3.1. Tests will be conducted using the two most common Android or iOS versions and noted in the test report.

2.4 Roles and Responsibilities

NOTE- The following roles and responsibilities are pulled directly from the RememberAll Project plan for your reference.

Table 1: RememberAll Testing Responsibilities

Role	Table 1: RememberAll Testing Responsibilities Responsibilities	Name
Project Manager	 Organizing tasks Deciding when to address which defects Determining when suspension and resumption criteria are met Ensuring that testing processes are followed in accordance with the test plan 	Brian Avadikian
Developer	 Creating and running unit tests during development Verifying that tests are run by other team members 	Yusufu Sanu Vivek Singh Lizset Chavez
Developer/Tester	 Creating and running unit tests during development Verifying that tests are run by other team members Creating and running smoke tests and 	Johnnie Webb Genet Asmelash
	system tests	Robert Edwards
Business Analyst/Tester	 Helping developers create unit tests during development Verifying that tests are run by other team members Creating and running smoke tests and system tests 	Eyob Woldehana

2.5 Schedule

Feature testing should start by week 6 (February 13) and continue through development. Final usability testing should be in week 11 (March 20) and end by March 26. Final test report is due for Milestone 4 on April 2.

Table 2: Schedule for Sprint Testing

Test Type	Start Date	End Date
Sprint 1 Feature Testing	February 13	February 19
Sprint 2 Feature Testing	February 20	February 26
Sprint 3 Feature Testing	February 27	March 5
Sprint 4 Feature Testing	March 6	March 12
Sprint 5 Feature Testing	March 13	March 19
Sprint 6 Feature Testing	March 20	March 26
Final Sprint Feature Testing	March 27	April 2nd
Final Acceptance Testing	March 31	April 2nd

2.6 Defect Management

Throughout the development process approximately 44 defects / deficiencies were introduced, identified by the defect management process, and resolved. These defects originated after a failed integration test noted in Trello. After a deficiency was identified it was given its own "problem tile" so it can be tracked to its resolution.

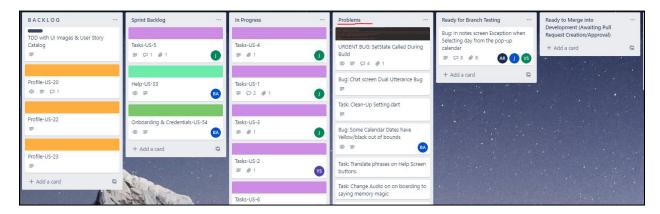


Figure 1: Trello problem tiles

2.6.1 Severity Classification

The severity classification table below can be used as a reference while perusing the Trello board problem reports / tickets. The following table describes how priorities were assigned to each Trello card based on the level of importance of a defect.

Table 3: Severity Table

Severity	Definition
(S1) – URGENT BUG	A defect prevents testing or causes the application to become unstable. / Crashing
(S2) – URGENT TASK	A feature does not meet requirements and impacts the overall functionality of the application.
(S3) - BUG	A feature does not meet requirements but does not have a major impact on the application.
(S4) - TASK	Cosmetic issues with no functional impact.

2.7 Test Cases

The following test cases were developed by the overall project manager in an effort to standardize the cases for testing. We have 13 test cases presented below.

Testing was conducted with the following setup:

Type of Testing	Acceptance Testing	
Testing Date	March 31,2022	
Testers	Johnnie Webb/Eyob Woldehana	
Witness	Anusha Ramanan/ Selina Zaman/Sean LaMonica	
Android Studio version	Android Studio Arctic Fox 2020.3.1 Patch 4	
Emulator version	Emulator Nexus 6 API 29	
Android version	Android 10.0	

2.7.1 Test Case 1

Test ID Number	#1
Feature Being Tested	6.1 Change User Mode to Caregiver Mode
Test Process	1. Open the app and switch to caregiver mode
Expected Result	The state of the app should switch to caregiver
	mode
Assumptions	The user must be a first-time registered user to
	login to the application.
Actual Result	Works as expected
Pass/Fail	Pass

2.7.2 Test Case 2

Test ID Number	#2
Feature Being Tested	6.2 View MemorEZ App Settings
Test Process	1. Put the app in caregiver mode
	2. Move to settings screen
Expected Result	The caregiver should be able to view settings
Assumptions	The user must be registered to use the
	application with all permissions previously
	approved on the device.
Actual Result	Works as expected
Pass/Fail	Pass

2.7.3 Test Case 3

Test ID Number	#3
Feature Being Tested	6.3 Edit MemorEz app settings
Test Process	1. Place the application in caregiver mode
	2. Navigate to the settings section
	3. Change the setting
	4. Exit the application
	5. Open the application
	6. Navigate to settings
Expected Result	The caregiver should see the changed setting
Assumptions	The user must be registered to use the
	application with all permissions previously
	approved on the device.
Actual Result	Works as expected
Pass/Fail	Pass

2.7.4 Test Case 4

Test ID Number	#4
Feature Being Tested	6.4 View STML User Profile
Test Process	1. Place the application in caregiver mode
	2. Navigate to the profile section
Expected Result	The user should be able to view the STML profile
Assumptions	The user must have the profile completed from
	the caregiver mode
Actual Result	Works as expected
Pass/Fail	Pass

2.7.5 Test Case 5

Test ID Number	#5
Feature Being Tested	6.5 Edit the STML user profile
Test Process	1. Place the application in caregiver mode
	2. Navigate to the profile section
	3. Edit the profile section
	4. Close the app
	5. Re-open the app in the app and navigate to the
	profile section
Expected Result	The user should be able to see their changes to
	the profile
Assumptions	The user must have the profile completed from
	the caregiver mode
Actual Result	Works as expected
Pass/Fail	Pass

2.7.6 Test Case 6

Test ID Number	#6
Feature Being Tested	6.6 View STML user calendar
Test Process	1. Place the application in caregiver mode
	2. Navigate to the calendar section
Expected Result	The user should be able to view the calendar
Assumptions	The user must be assigned or scheduled events
	or appointments
Actual Result	Works as expected
Pass/Fail	Pass

2.7.7 Test Case 7

Test ID Number	#7
Feature Being Tested	6.7 Edit STML User Calendar
Test Process	1. Place the application in caregiver mode
	2. Make edit on the note section
	3. Close the app
	4. Re-open the app and navigate to the calendar
	section
Expected Result	The user should be able to see their edit in the
	calendar
Assumptions	The user must be assigned or scheduled events
	or appointments
Actual Result	Works as expected
Pass/Fail	Pass

2.7.8 Test Case 8

Test ID Number	#8
Feature Being Tested	6.8 View STML user Notes
Test Process	1. Place the application in caregiver mode
	2. Navigate to the Notes section
Expected Result	The user should be able to view automatic
	reminders for the STML patient
Assumptions	The user must have reminders set
Actual Result	Works as expected
Pass/Fail	Pass

2.7.9 Test Case 9

Test ID Number	#9	
Feature Being Tested	6.9 Add/Edit STML user Notes	
Test Process	1. Place the application in caregiver mode	
	2. Navigate to the Notes section	
	3. Add a Note and edit a reminder	
	4. Close the app	
	5. Re-open the app and navigate to caregiver	
	mode	
	6. Navigate to the Notes section	
Expected Result	The user should be able to see the Notes	
	addition/edit	
Assumptions	None	
Actual Result	Works as expected	
Pass/Fail	Pass	

2.7.10 Test Case 10

Test ID Number	#10
Feature Being Tested	6.10 View STML User Medication
Test Process	1. Place the application in caregiver mode
	2. Navigate to the Medication
Expected Result	The user should be able to see the STML user
	resources
Assumptions	The user must have Medication set
Actual Result	Works as expected
Pass/Fail	Pass

2.7.11 Test Case 11

Test ID Number	#11
Feature Being Tested	6.11 Edit STML user Medication
Test Process	1. Place the application in caregiver mode
	2. Navigate to the Medication section
	3. Edit a resource
	4. Close the app
	5. Re-open the app and navigate to caregiver
	mode
	6. Navigate to the Medication section
Expected Result	The user should be able to see the Medication
	edit
Assumptions	The user must have Medication set
Actual Result	Works as expected
Pass/Fail	Pass

2.7.12 Test Case 12

Test ID Number	#12	
Feature Being Tested	6.12 View Transportation Resources	
Test Process	1. Place the application in caregiver mode	
	2. Navigate to the Transportation section	
Expected Result	The user should be able to see the transportation	
	resources	
Assumptions	The user must have resources set	
Actual Result	Works as expected	
Pass/Fail	Pass	

2.7.13 Test Case 13

Test ID Number	#13	
Feature Being Tested	6.13 Edit Transportation Resources	
Test Process	1. Place the application in caregiver mode	
	2. Navigate to the resources section	
	3. Edit a transportation resource	
	4. Close the app	
	5. Re-open the app and navigate to caregiver	
	mode	
	6. Navigate to the Transportation section	
Expected Result	The user should be able to see the transportation	
	resource edit	
Assumptions	The user must have resources set	
Actual Result	Works as expected	
Pass/Fail	Pass	

2.8 Deliverables

Table 4: Testing Deliverables and Dates

Deliverable	Date
Test Plan	Due for Milestone 2 on 2/5/2022
Test Cases	Due after each Code Sprint – Weekly
Test Suites	Due after each Code Sprint – Weekly
Test Report	Due for Milestone 4 on 4/2/2022

3 Appendices

3.1 References

RememberAll (2022, April 01) Project Plan. Retrieved from

 $\frac{https://umgcdev361.sharepoint.com/:w:/r/sites/SWEN670Spring2022/Shared%20Documents/Team%20B/Milestone%204%20Deliverables/RememberAll%20-$

 $\underline{\%20Project\%20Plan\%204.0.docx?d=w634fa7a3fdec49a0adc8b1d011c3ccb5\&csf=1\&web=1\&e=5\\\underline{OLfxa}$

3.2 Unit Test Results

Number of Tests	Number Pass	Number Non-Pass	% Pass	% Non-Pass
52	28	24	53.8	46.2

3.3 Acronyms and Abbreviations

Acronym	Definition
API	Application Programming Interface
арр	application
iOS	iPhone Operating System
LEX	Amazon Web Service for building conversational interface functionality into an application
OS	Operating System
STM	Short Term Memory
STML	Short Term Memory Loss
SWEN	Software Engineering
UI	User Interface
UX	User Experience
UMGC	University of Maryland Global Campus