




Test Plan Document

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Revision History

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1. Introduction

1.1 Purpose

The purpose of this Test Plan is designed to prescribe the approach, scope, resources, and schedule of all Short-Term Assistance App testing activities.

The test plan identifies the following: test cases, test features, testing type, testing personnel responsibility, resources, schedule, and risk associate with the test plan.

1.2 Scope

1.2.1 In scope

All the Mnemosyne mobile application features, defined in the software requirement specification, shall be tested. The features to be tested are:

1. Record Speech
2. Save and Retain Text
3. Voice Recognition Training
4. Record Speech of User only
5. Visual Options
6. Searching Text
7. Training Videos
8. Send notification to users

QA tests are too tedious or complex for human testers; as a result, that automated testing will be executed alongside manual testing to assure quality and faster release of the product.

In the Mnemosyne project, two types of testing should be conducted.

Unit Testing: Functional of the program is broken down into testable behaviors that can test as individual units.

Integration Testing: The model of each component of the software combined and test it all together as a group.

1.2.2 Out of Scope

Features and functionalities not included in the Software Requirement Specification shall not be tested. Features and functionalities not be tested are

1. User Interface
2. Database logical
3. Hardware Interface
4. Communication Interface
5. Software Interface

1.3 Test Objective

The test objective is to verify the functionality of the Short Memory Assistance App. Therefore, the project should focus on testing features such as Speech to Text Converter, Search bar, User voice recognition, training videos, etc. On guaranteeing all these operations can generally work in the natural business environment. Furthermore, this software test plan aims to communicate a detailed plan for running development tests to the development team and stakeholders.

1.4 Intended Audience

The appropriate audience for this test plan document includes the following: Project Manager, Project Team, and the testing team.

1.5 Roles and Responsibilities

This test plan document contains the resource requirements. In addition, below are the details of the roles and associated responsibilities of team members.

Number		Role	Responsibilities
1	Damion Sevilla	Tester	Identifies and describes test tools/techniques. Verify and assess the test approach. Execute the test. Log results. Report defects or bugs.
2	Debashis, Austin, Didimus	Developers	Implement test cases, test programs, and test suites
3	Michael Le	Project Manager	Define directions and acquire appropriate resources
4	Prince	BA	Performs quality assurance and check to confirm whether the testing process is meeting specified requirements.

1.6 Testing Schedule

Task	Members		Estimated Effort
Create Test Specification	BA	Prince	8 hours
Perform Task Execution	Tester, Test Administrator	Damion Sevilla	20 hours
Test Report	Tester	Damion Sevilla	5 hours
Test Delivery	Tester	Damion Sevilla	3 hours

1.7 Key Milestone

Activity	Milestone
Task Execution	Completed Task Execution
Test Report	Completed Test Report

1.8 Testing Approach

In the Mnemosyne project, two types of testing should be conducted:

Unit Testing: Individual units or modules of the software will be tested individually.

Integration Testing: Individual units are combined and tested as a group.

1.9 Test Automation

Test automation tools are used to test models of the software. The JUnit tool will be used to execute the test cases, while the Junit test suite will be used to conduct integration testing.

2. Test Cases & Functional Requirements

Test Case #	Test Case Description	Pre-requisites	Test Steps
1	Verify that speech is converted to text	Test Case 3 successful	<ol style="list-style-type: none">1. Start recording speech using the programmed phrase.2. View the screen to see if the speech is converted
2	Verify that text files are saved	Test Case 1 successful	<ol style="list-style-type: none">1. Follow Test Case 12. Choose the option to save the text in a file.3. View the saved text files to verify the new file is saved.
3	Verify software recognizes distinct phrases	Test Case 5 successful	<ol style="list-style-type: none">1. Use the trigger phrase to start the voice-to-text conversion.2. Verify that Test Case 1 can start with the trigger phrase/word.
4	Verify the software recognizes only the user's voice in the conversation	The app starts up and is running	<ol style="list-style-type: none">1. Start a conversation with another person.2. Use specific phrases for tracking speech conversion.3. Watch the screen to see if only the user's voice is converted to text
5	Verify the settings/options menu is functional	The app starts up and is running	<ol style="list-style-type: none">1. Choose the settings/options button to open up that portion of the app.

			2. Change accessibility settings and verify if the changes are made.
6	Verify the search bar is functional	Test Case 2 is successful	<ol style="list-style-type: none"> 1. Click on the search bar and enter in a keyword. 2. Choose the search option. 3. Verify that related text files are shown from the search.
7	Verify the training videos are functional	Test case 5 Successful	<ol style="list-style-type: none"> 1. Open Settings menu 2. Select the training videos option. 3. Click on one of the training videos. 4. Verify the training videos run properly
8	Verify Notifications	Test case 5 successful	<ol style="list-style-type: none"> 1. Open settings menu. 2. Set a time for the notification banner. 3. Verify that the notification appears at the designated time.

3. Testing Criteria

3.1 Suspension Criteria

Testing shall be suspended for a test case when a defect causes testing to come to a halt.

3.2 Resumption Criteria

Resumption of testing will occur when the defect is presumably fixed.

3.3 Test Completeness

Testing will be complete when the test cases have all been concluded, and upon completing the steps, all of the tested portions of the software run as expected and required.

3.4 Test Deliverables

The test deliverables will include:

- Test Plan
- Test Report
- Defect Report

4. Resource & Environment Needs

4.1 Testing Tools

- Requirement Tracking Tool
- JUnit Tool

4.2 Testing Environment

The following mobile software operating systems are required.

- All mobile phones that support the Android operating system
- All mobile phones that support the iOS operating system

Appendix A: Terms/ Acronyms

TERM/ACRONYM	DEFINITION
API	Application Program Interface
QA	Quality Assurance

Appendix B: References

Guru99. (2021). *Test Plan Template: Sample Document with Web Application Example*. Guru99.
<https://www.guru99.com/test-plan-for-project.html>.

Appendix C: Test Execution Template

Test Name:	
Test Start Date & Time:	
Test End Date & Time:	
Test Conductor:	
Software Versions:	
Test Environment:	
Witnesses:	
Deviations:	
Issues Opened:	

Action Items Opened:	
Status:	<input type="checkbox"/> <i>Pass</i> <input type="checkbox"/> <input type="checkbox"/> <i>Pass w/exceptions</i> <i>Fail</i>
Test Conductor Signature/ Date:	
Witness Signature/ Date:	
Customer Signature/ Date:	