
Group05

SoulNote
<Iteration/ Master> Test Plan

Version <1.0>

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Revision History

Date	Version	Description	Author
23/07/2025	1.0	Introduction	Ly Quoc Thanh
23/07/2025	1.0	Target Test Items	Ly Quoc Thanh
29/07/2025	1.0	Environmental Needs	Nguyen Le Quang
29/07/2025	1.0	Responsibilities, Staffing, and Training Needs	Nguyen Le Quang

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<Iteration/ Master> Test Plan

1. Introduction

The Test Plan Document is a structured guide that outlines how testing will be conducted to ensure the software product meets both functional and non-functional requirements.

Objectives:

- Define the scope, strategy, and goals of testing.
- Identify testable and non-testable features.
- Establish success criteria and testing process.

Content Includes:

- Test items, approach, responsibilities
- Tools, resources, and schedule
- Risks and contingency plans

Target Users:

- Testers
- Developers
- Project managers
- Stakeholders

Key Features:

- Clear scope and objectives
- Defined roles and timeline
- Risk and defect management
- Requirement traceability

This document ensures a systematic and efficient testing process, improving product quality and team collaboration.

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2. Target Test Items

Feature	Test Area	Description
User Registration	Functionality, Security, Error Handling	Verify a new user can create an account with valid data and check for proper error handling with invalid/duplicate data.
User Login	Functionality, Security, Error Handling	Verify a registered user can log in with valid credentials and is blocked by invalid ones. Test for account lockout after multiple failed attempts.
User Logout	Functionality, Security	Verify a user can log out, which invalidates their session. Test the session timeout auto-logout feature.
Update Profile	Functionality, UI/UX, Error Handling	Verify a user can update their profile information (name, avatar, email) and that validation for invalid inputs works correctly.
Reset Password	Functionality, Security, Error Handling	Verify the password reset flow, including sending a secure link to a valid email and handling invalid/expired links.
Create Memories	Functionality, Usability, Error Handling	Verify a user can create a new memory with text, media, tags, location, and emotion. Test for invalid inputs and save failures.
Edit Memory	Functionality, Data Integrity	Verify a user can successfully edit the content of an existing memory and the changes are saved.
Delete Memory	Functionality, Confirmation	Verify a user can delete a memory after a confirmation prompt, and the memory is permanently removed.
Browse Memories (Timeline)	Functionality, UI/UX, Performance	Verify that a user's memories are displayed correctly in a chronological timeline view.

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Filter Memories	Functionality, Performance	Verify that memories can be accurately filtered by date, hashtag, keyword, and emotion, and that "no results" scenarios are handled.
Share Memories	Functionality, Security, Integration	Verify a user can generate a shareable link for a memory and that privacy settings preventing sharing are respected.
View Emotion Report	Functionality, Performance, UI/UX	Verify that graphical reports of emotional trends are generated correctly for selected time ranges and handle cases with no data.
Change Theme	Functionality, UI/UX, Persistence	Verify a user can switch between dark and light themes and that the choice is saved for future sessions.
Set Reminders	Functionality, Usability, Notification	Verify a user can set up and save periodic reminders to be delivered via in-app notification or email.
Delete Account	Functionality, Security, Data Integrity	Verify a user can permanently delete their account and all associated data after a password confirmation step.
View All Users (Admin)	Functionality, Security, UI/UX	Verify an admin user can view a complete list of all registered users in the system.
Delete User (Admin)	Functionality, Security, Confirmation	Verify an admin user can permanently delete a user's account from the system.
Monitor Activity Logs (Admin)	Functionality, Security, Performance	Verify an admin can access and view system activity logs for auditing and monitoring purposes.

3. Environmental Needs

This section presents the non-human resources required for the Test Plan.

3.1 Hardware Requirements

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Component	Specification	Notes
Web Server	AMD EPYC / Intel Core Xeon, 1 TB RAM, 10 Petabyte SSD, NVIDIA A series / AMD MI	Sufficient for hosting and computing tasks. Dedicated GPU to accelerate model speed.
Client Desktop (Windows)	AMD Ryzen 5 / Intel Core i5, 8 GB RAM, 256 GB SSD	Balanced performance for testing and browser tasks.
Client Desktop (macOS)	Apple M1 / Intel Core i5, 8 GB RAM, 256 GB SSD	Supports macOS Big Sur or newer.
Mobile Devices (iOS)	iPhone 8 or newer	Ensures compatibility with iOS 14 or later.
Mobile Devices (Android)	Mid-range Android devices (e.g., Samsung Galaxy A series or equivalent)	Compatible with Android 9 (Pie) or newer.
Network Requirements	50–100 Mbps internet connection, or 4G and higher for mobile devices	Stable connection for real-world testing.

Notes:

- Hardware prior to 2014 is considered outdated and not recommended for testing.
- Server handles most of the workload; client devices only need to load browsers effectively.

3.2 Software in the Test Environment

The following base software elements are required in the test environment for this *Test Plan*.

Software Name	Purpose	Version	Type and Other Notes
Firefox	Execute application for web browser	Latest	Internet Browser
Google Chrome	Execute application for web browser	131.0.6778.140	Internet Browser
Microsoft Edge	Execute application for web browser	131.0.2903.86	Internet Browser
Windows 10, 64bit	Test client OS	22H2	Operating System
Windows 11, 64 bit	Test client OS	23H2	Operating System
macOS 13 Ventura	Test client OS	13.5.1	Operating System
macOS 14 Sonoma	Test client OS	Latest	Operating System
Ubuntu Linux	Test environment for server-side	20.04 LTS	Operating System
Gmail	Test email client functionality	Latest	eMail Client Software

Note: Android OS not listed since tests on Android will use browsers that match desktop browser compatibility.

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3.3 Productivity and Support Tools

The following tools will be employed to support the test process for this *Test Plan*.

Tool Category or Type	Tool Brand Name	Vendor or In-house	Version
Write test cases	Microsoft Excel	Microsoft	Version 2410 (Build 16.0.18129.20158)
Bug reports & failed test logs	Microsoft Excel	Microsoft	Version 2410 (Build 16.0.18129.20158)

4. Responsibilities, Staffing, and Training Needs

4.1 People and Roles

This table shows the staffing assumptions for the test effort.

Human Resources		
Role	Minimum Resources Recommended (number of full-time roles allocated)	Specific Responsibilities or Comments
Test Manager	Ly Quoc Thanh	Provides management oversight. Responsibilities include: <ul style="list-style-type: none"> planning and logistics agree mission identify motivators acquire appropriate resources present management reporting advocate the interests of test evaluate effectiveness of test effort
Tester	Ly Quoc Thanh Nguyen Le Quang Huynh Van Sinh Nguyen Tan Van Pham Quang Thinh	Implements and executes the tests. Responsibilities include: <ul style="list-style-type: none"> implement tests and test suites execute test suites log results analyze and recover from test failures document incidents

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Human Resources		
Role	Minimum Resources Recommended (number of full-time roles allocated)	Specific Responsibilities or Comments
Test System Administrator	Ly Quoc Thanh Nguyen Le Quang Huynh Van Sinh Nguyen Tan Van Pham Quang Thinh	Ensures test environment and assets are managed and maintained. Responsibilities include: <ul style="list-style-type: none"> • administer test management system • install and support access to, and recovery of, test environment configurations and test labs