
<Group 03>

<Memoir>
Software Development Plan
Version <1.3>

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Revision History

Date	Version	Description	Author
30/05/2025	1.0	1. Introduction 2. Positioning	Phạm Nam Huyền
31/05/2025	1.1	4. Product Features 5. Non-Functional Requirements	Huỳnh Tuấn Phong
31/05/2025	1.2	3. Stakeholder and User Description	Nguyễn Thị Trà My
07/06/2025	1.3	Update missing context in product feature	Bùi Hải Long

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Vision (Small Project)

1. Introduction

- The purpose of this document is to collect, analyze, and define high-level needs and features of the Memoir app.
- It focuses on the capabilities needed by the stakeholders and the target users, and why these needs exist. The details of how the Memoir fulfills these needs are detailed in the use-case and supplementary specifications. It acts as a shared understanding among team members and stakeholders, ensuring everyone is aligned on the project's objectives and desired outcomes.

2. Positioning

2.1 Problem Statement

The problem of	In today's fast-paced digital world, people maintain an increasing number of personal and professional relationships, yet there is no dedicated tool that helps them systematically remember, organize, and revisit meaningful details about these connections.
affects	forget important dates, shared experiences, or even the people themselves.
the impact of which is	weakened relationships, reduced emotional connection, and missed opportunities to build or maintain deeper bonds.
a successful solution would be	“Relationship Memory Assistant” – an application that helps users preserve, organize, and maintain deep, personalized social connections through emotional memory support and relationship context management.

2.2 Product Position Statement

For	absent-minded people people with many relationships
Who	want to have the habit of keeping memories with their friends
The (product name)	Memoir
That	is an app that helps you remember and organize personal relationships by storing all meaningful details in one place.
Unlike	Capacities, Dextr, HumanNotes, Notion
Our product	Visualize social connections with graphs Have clear ADMIN permissions Focus on personal relationships – not just generic notes, by remembering emotional & contextual details

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3. Stakeholder and User Descriptions

3.1 Stakeholder Summary

Name	Description	Responsibilities
Mr. Mai Anh Tuan Mr. Nguyen Van Vu	Supervisor_oversees and supports the development team	<ul style="list-style-type: none"> • Monitor project progress, deadlines, and resource usage to keep the project on track. • Provide feedback and guidance during development. • Assist in solving technical or organizational issues.
Group 03	Development Team _student group developing the Memoir application	<ul style="list-style-type: none"> • Analyze requirements, design system architecture and software components. • Develop, test, debug, and deploy the application. • Write technical documentation, user manuals, and present progress and project outcomes. • Ensure the product meets the specified requirements, quality standards, and deadlines. • Continuously evaluate and improve the product based on user feedback and project supervisor.

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3.2 User Summary

Name	Description	Responsibilities	Stakeholder
Group 03	Admin_system administrator responsible for coordinating and maintaining the stable operation of the Memoir application	<ul style="list-style-type: none"> • Manage user accounts (activation, locking, password resets). • Monitor usage statistics and storage capacity. • Handle user feedback and error reports. • Send system notifications and perform regular data backups. • Oversee system errors and application performance monitoring. 	Group 03
Individual User	Individuals who need support in managing and organizing information about their personal relationships, including friends, family, and colleagues.	<ul style="list-style-type: none"> • Store and update detailed information about each person (name, birthday, photo, meeting place) • Add personal notes about preferences, impressions, and type of relationship • Categorize contacts using a tagging system (e.g., #family, #work_friends, #class12A1) • Set and manage reminders for important dates • Use the calendar feature to track special events • Synchronize data across devices 	Self-represented
Professional User	Professionals such as teachers, HR staff, or managers who need to manage information about multiple people in a work environment.	<ul style="list-style-type: none"> • Manage detailed information about students/employees/colleagues • Track important work-related events • Use the relationship visualization feature to understand group structures • Create and manage tags appropriate to the work environment • Use the map feature to track meeting/gathering locations • Ensure data security and synchronization 	Educational institutions and businesses

3.3 User Environment

- Most target users operate independently or as part of small teams, managing only their own contact information. However, users in specific roles—such as educators or HR staff—may need to manage contacts for larger groups, often ranging from 10 to more than 100 individuals.
- Users update information continuously and on an as-needed basis, such as when they meet a new person or obtain new details. A typical user may spend 5–15 minutes updating contact details or setting reminders, with occasional longer sessions dedicated to reviewing or organizing tags and managing relationship structures.
- The application is expected to be used primarily in mobile (Android). Users may access the system while at home, in the office, or on the move.

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- Currently, users typically rely on separate basic tools such as contact lists, calendar apps, and simple note-taking applications. However, these tools lack integration and advanced features.
- The proposed application addresses these limitations by offering a unified platform with enhanced capabilities:
 - Rich contact profiles with Markdown-formatted notes
 - Automatic reminders and calendar view for important dates
 - A tagging system to organize social groups
 - Visual mapping of meeting locations
 - Graph-based relationship visualization
 - Cloud synchronization and backups for data consistency
 - A well-organized UI that supports quick access to features and minimizes user effort

3.4 Alternatives and Competition

No.	Competitor	Strength	Weakness
1	Note Apps (Apple Notes, Google Keep)	<ul style="list-style-type: none"> • Easy to use, multi-platform synchronization (iOS, Android, Web) • Supports quick notes with images and audio • Deep integration with Apple and Google ecosystems 	<ul style="list-style-type: none"> • Not specialized for managing personal relationships, lacks advanced tagging features • Missing birthday/event reminders • No map or relationship graph features
2	Obsidian	<ul style="list-style-type: none"> • Strong for managing linked Markdown notes, easy to create knowledge graphs • Highly customizable with plugins • Fully supports offline use 	<ul style="list-style-type: none"> • Interface is not user-friendly for non-technical users • Lacks reminders and personal event management • Not designed for managing contacts or social relationships
3	Notion	<ul style="list-style-type: none"> • Versatile, allows creating complex databases and varied content types • Supports tagging, categorization, and inter-page linking • Suitable for project management, personal and team notes 	<ul style="list-style-type: none"> • Quite complex interface, requires time to learn • Not optimized for birthday reminders or intuitive relationship management • No support for meeting location maps
4	Logseq	<ul style="list-style-type: none"> • Powerful graph-based note management, supports Markdown, 	<ul style="list-style-type: none"> • Complex interface for new users • Lacks reminder or personal event

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		easy to build idea networks <ul style="list-style-type: none"> • Open-source and offline support • Extensible with plugins and customization 	features <ul style="list-style-type: none"> • Not optimized for contact or social network management
5	Evernote	<ul style="list-style-type: none"> • User-friendly interface, easy to use • Multi-platform support, fast cloud sync • Supports various note types including images, documents, audio • Strong search capabilities 	<ul style="list-style-type: none"> • Free version limits features • No advanced tagging system for relationship management • Missing birthday reminders and relationship map features

4. Product Features

No.	Feature	Description	Priority
1	Notes	save and display information about the person users are noting. (markdown can be used)	High
2	Support image	Together with text, users can also add image into their note for easier visualizing	High
3	Calendar	Calendar displays timestamp data in notes (anniversaries, debts, etc.)	High
4	Notification	Send notification to remind user of important event mark in the calendar	High
5	Tag & Filtering	Users can group note together using tag for easy management (#workfriend, #classmate2023, #family, #enemy)	High
6	Map	The map displays the location data contents in the note.	Medium
7	Graph	Users display notes data in graph form. Represents connections between people.	Medium
8	Full offline support	While not connected or sign-in, users can still fully use all the offline feature of the app	High
9	Registration	Users can create accounts by create username and password or using email, phone number or Google account.	High
10	Cloud Storage	Users can sign-in an account to store data on our server cloud	High

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11	Data synchronize	When signed-in and connected, update on users note will get updated on the server automatically.	High
12	Publish	Users can choose a specific note to publish on the app domain as a form of profile or CV	Low
13	Feedback	Users can submit feedback forms to the app.	Medium
14	Manage Feedback	Admin can manage User Feedback and Bug Reports	Medium
14	Server Management	Admin have full control over the server of the app	High
15	User Statistics	Admin can see statistic about many users	High
16	User Management	Admin manage user account deactivate, reset password, email user...	Medium
17	Receive server reports	Admin can read server status, log and crashes	Low
18	Perform Server Maintenance	Admin can restart or shutdown server for maintenance and update	High
19	Global Notification	Admin can notify user about server maintenance schedule, new feature or update	Medium

5. Non-Functional Requirements

- Performance:**
 The application should deliver a smooth, responsive user experience in real time, optimized for low battery consumption across mobile platforms.
- Platform Compatibility:**
 Development will begin with mobile platforms (Android/iOS), with potential expansion to other platforms if feasible.
- Hardware Requirements:**
 The app should run efficiently on mid-range and older mobile devices, avoiding reliance on high-end hardware to ensure accessibility for a broader user base.
- User Experience:**
 Memoir prioritizes quality and simplicity over feature bloat. It is not designed to be an all-in-one solution but rather a focused tool that works seamlessly out of the box—no login, complex setup, or onboarding steps required.
- Ease of Use:**
 A clean and intuitive interface will guide users through notes, relationships, and event tracking with minimal effort, emphasizing a frictionless and accessible design.
- Reliability:**
 The backend service should maintain a minimum of 99.9% uptime to ensure consistent availability and user trust.