
Group03

Memoir
UI Prototype Document
Version 1.3

Memoir	Version: 1.3
Software Architecture Document	Date: 09/07/2025
UI Prototype Document	

Revision History

Date	Version	Description	Author
09/07/2025	1.0	Introduction Add picture UI prototype	Phạm Nam Huyền
09/07/2025	1.1	Add main use-case: Manage Notes, View/Edit Notes Add main screen: Contact List, Calendar view	Phạm Nam Huyền
09/07/2025	1.2	Add main screens: setting, location Add use-cases: Back up & cloud sync, view contact location on the map	Nguyễn Thị Trà My
10/07/2025	1.3	Add use-case: Recover notes, view relationship graph Format file	Nguyễn Thị Trà My

Memoir	Version: 1.3
Software Architecture Document	Date: 09/07/2025
UI Prototype Document	

Table of Contents

1. Introduction	4
1.1. Purpose	4
1.2. Tools	4
1.3. Overview of Main Screens and Main Use-cases	4
2. Main Use-Cases:	6
2.1. Manage Notes	6
2.2. View/Edit Note	7
2.2.1. Contact Info	7
2.2.2. Notes list	8
2.2.3. Note details	9
2.3. Back up and cloud sync	10
2.4. Recover notes	11
2.5. View relationship graph	12
3. Main Screens	13
3.1. Screen 1: Contacts List	13
3.2. Screen 2: Meeting Locations	13
3.3. Screen 3: Calendar	14
3.4. Screen 4: Setting	15

Memoir	Version: 1.3
Software Architecture Document	Date: 09/07/2025
UI Prototype Document	

1. Introduction

1.1. Purpose

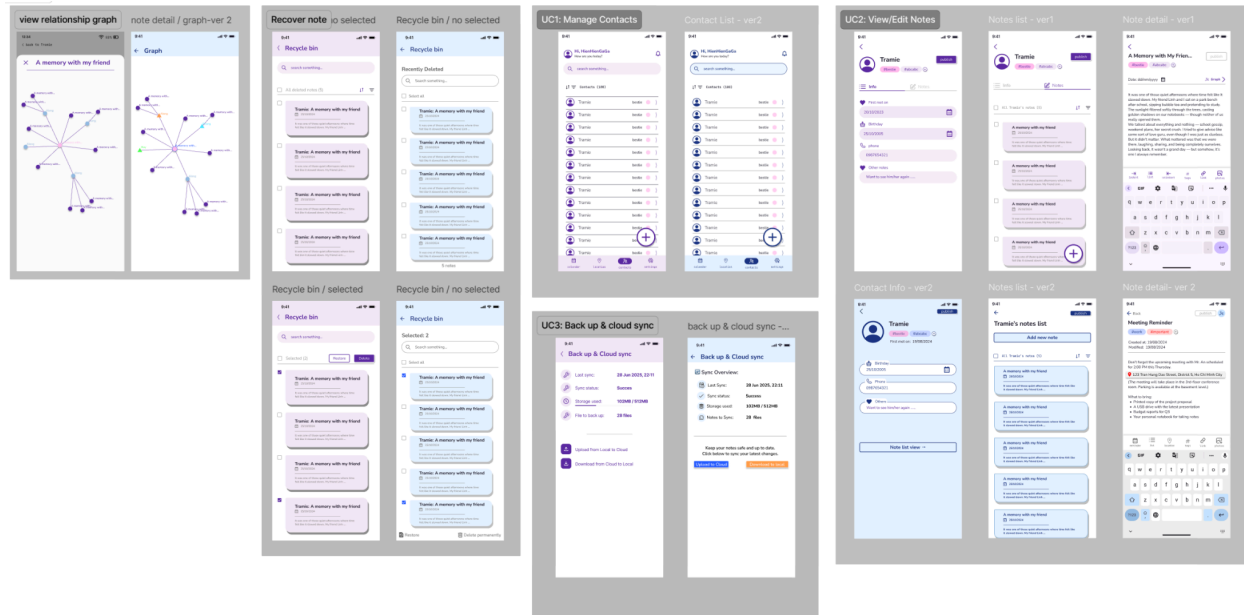
This document presents the User Interface (UI) prototype for the system. It aims to illustrate the visual structure and user interaction design for the main screens and use cases. The designs serve as the foundation for front-end development and usability validation with stakeholders.

1.2. Tools

- Design Tool: Figma
- Figma was used to create interactive and responsive UI designs. Its collaborative features enabled team members to co-design and iterate efficiently in real time.

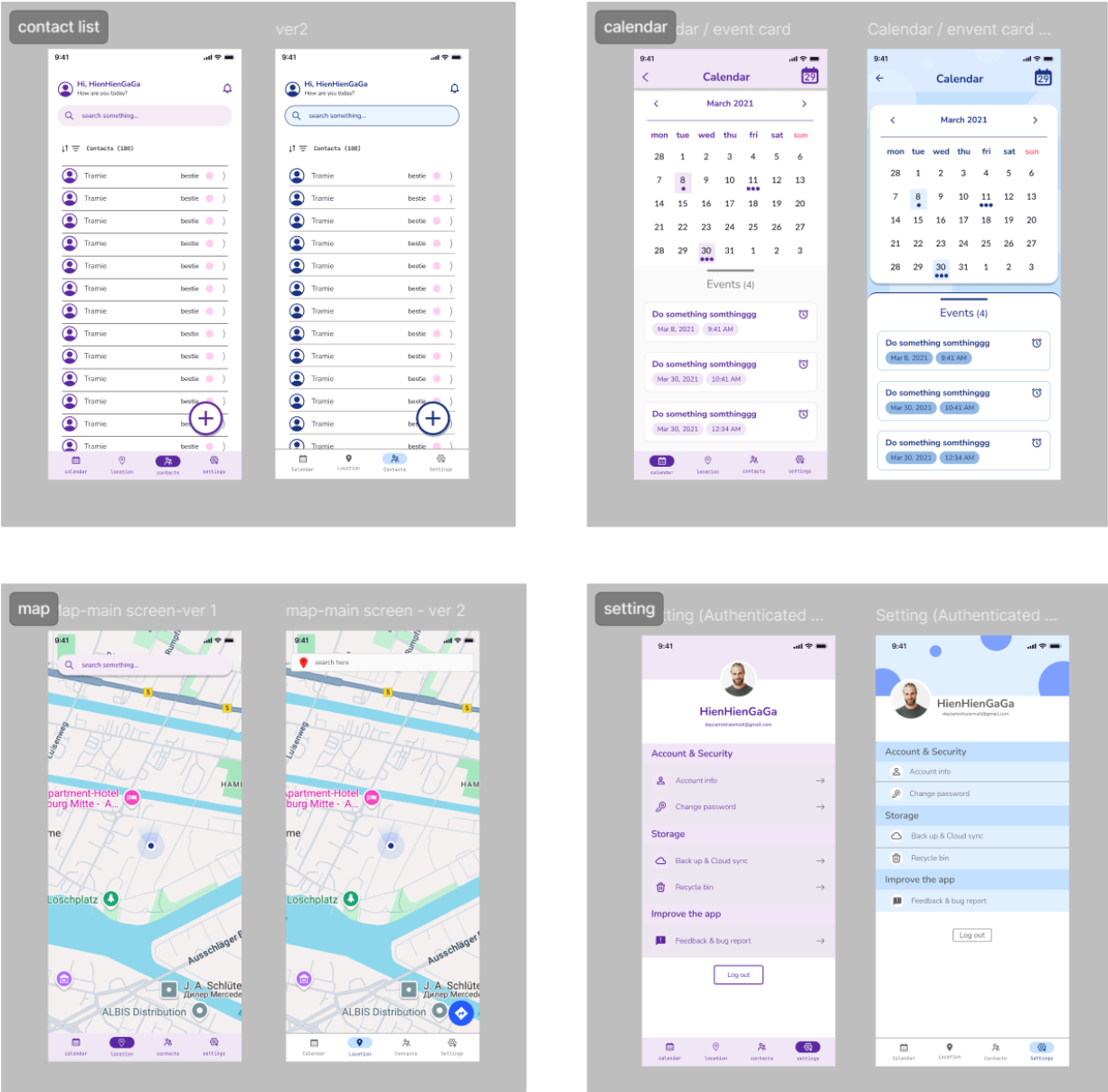
1.3. Overview of Main Screens and Main Use-cases

1.3.1. Main Use-cases



Memoir	Version: 1.3
Software Architecture Document	Date: 09/07/2025
UI Prototype Document	

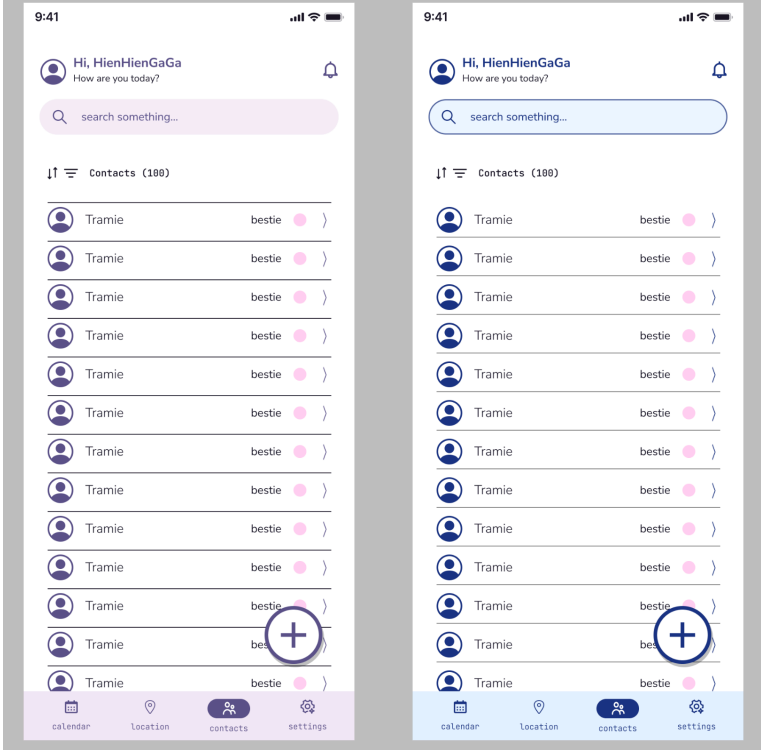
1.3.2. Main Screens



Memoir	Version: 1.3
Software Architecture Document	Date: 09/07/2025
UI Prototype Document	

2. Main Use-Cases:

2.1. Manage Notes



Purpose:

This screen provides users with access to their saved contacts. It serves as the central hub for managing relationships, initiating note creation tied to a contact, and navigating to related details.

UI elements:

- Greeting Header
- Search Bar
- Contact List Item
 - Profile icon
 - Contact name
 - Relationship label
- Bottom Navigation bar
- Create Button (+)

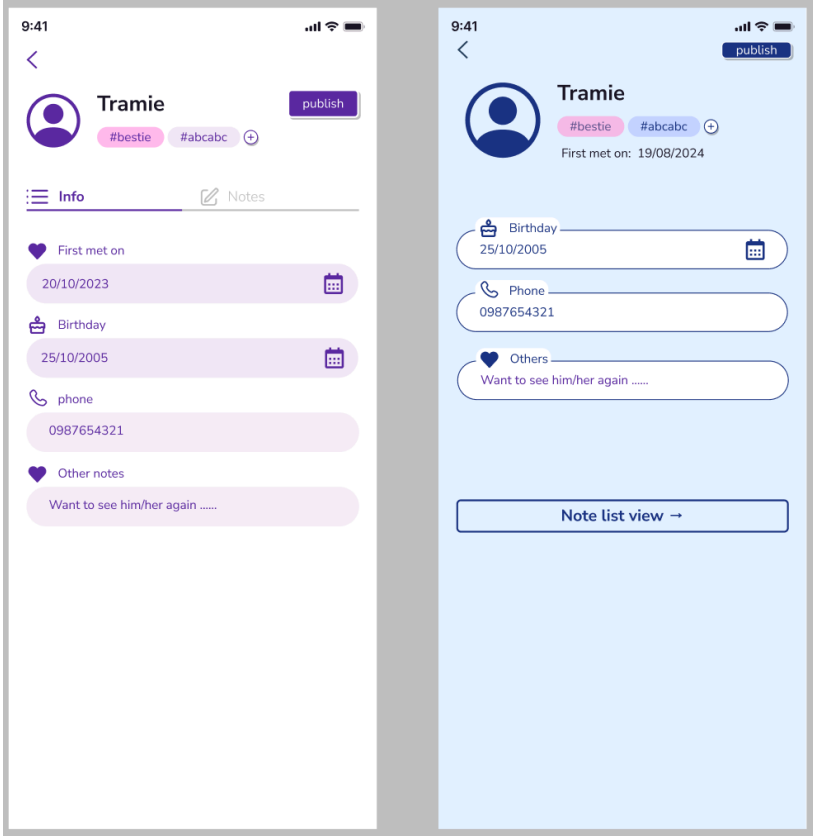
Usage:

- **Search Contacts:** Users can type into the search bar to find a specific contact by name, location, tags...
- **Browse and Select Contact:** Scroll through the list and tap on a contact to view their details, add notes, or link events.
- **Add New Contact or Note:** Tap the floating "+" button to initiate the creation of a new contact or a note associated with a contact.
- **Navigate Between Features:** Use the bottom navigation bar to switch between core screens: calendar, location map, contacts, and settings.

Memoir	Version: 1.3
Software Architecture Document	Date: 09/07/2025
UI Prototype Document	

2.2. View/Edit Note

2.2.1. Contact Info

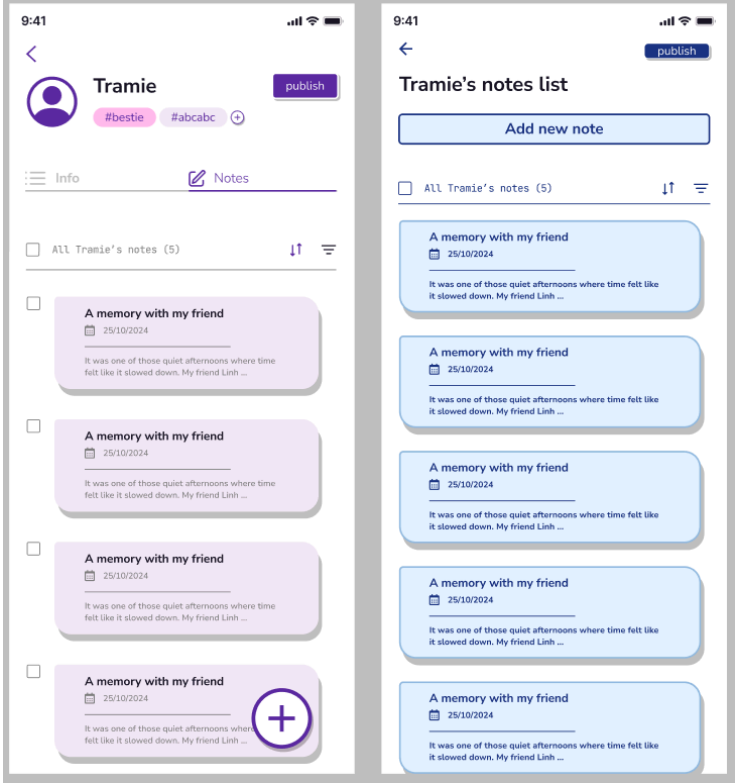
	<p>Purpose:</p> <p>This screen allows users to view and edit information related to a saved contact. It provides contextual information such as meeting history, tags, and personal notes, helping users keep track of relationships and important details.</p> <p>UI elements:</p> <ul style="list-style-type: none">● Contact Name● Associated tags● Publish button● Personal Info inputs (date first met, birthday, phone...)● Notes list access button (option Right)● Navigation back arrow
---	--

Usage:

- **View Relationship Details:** Users can see when they first met the contact, their birthday, phone number, and any custom notes they've added before.
- **Edit Information:** Users can update each field by tapping into it (ex: update birthday or phone number, add/change notes)
- **Manage Tags:** Tags like **#bestie** or **#abcabc** can be used to group and filter contacts later.
- **Navigate to Related Notes:** In Option B, the “**Note list view** →” button allows users to access all notes linked to this contact.
- **Save Changes:** Tapping the “**publish**” button commits any edits to the database or synced storage.

Memoir	Version: 1.3
Software Architecture Document	Date: 09/07/2025
UI Prototype Document	

2.2.2. Notes list



Purpose:

This screen allows users to **view, browse, manage all notes associated with a specific contact**, and note previews, filtering, sorting, adding new notes within the context of a person

UI elements:

Option Left:

- Contact Header: contact avatar, name (*Tramie*), tags “publish” button
- Tab Navigation: *Info* and *Notes* (active)
- Note Tools: Checkbox, Total count, Sort and Filter icons
- Note Cards: title, date (ex: 25/10/2024), content preview
- Create note button (“+”)

Option Right:

- Title Header
- Add New Note Button
- Note Tools
- Note Cards

Usage:

- **Browse Notes:** Scroll vertically to view all notes related to the contact.
- **Preview Content:** Glimpse note content without opening full details.
- **Add a New Note:**
 - Option A: Tap the **floating “+”** button.
 - Option B: Tap the **“Add new note”** button at the top.
- **Sort and Filter Notes:** Use toolbar icons to rearrange notes by date, tag, or other attributes.
- **Select Notes:** Use checkboxes to select one or multiple notes for future actions (e.g., batch delete, link).

Memoir	Version: 1.3
Software Architecture Document	Date: 09/07/2025
UI Prototype Document	

2.2.3. Note details

9:41

<

A Memory with My Frien...

publish

#bestie #abcbac

Date: dd/mm/yyyy

Graph

It was one of those quiet afternoons where time felt like it slowed down. My friend Linh and I sat on a park bench after school, sipping bubble tea and pretending to study. The sunlight filtered softly through the trees, casting golden shadows on our notebooks — though neither of us really opened them.

We talked about everything and nothing — school gossip, weekend plans, her secret crush. I tried to give advice like some sort of love guru, even though I was just as clueless. But it didn't matter. What mattered was that we were there, laughing, sharing, and being completely ourselves. Looking back, it wasn't a grand day — but somehow, it's one I always remember.

indent list unindent tags link photos

< GIF

q w e r t y u i o p

a s d f g h j k l

z x c v b n m

?123

9:41

< Back

publish

Meeting Reminder

#work #important

Created at: 19/08/2024
Modified: 19/08/2024

Don't forget the upcoming meeting with Mr. An scheduled for 2:00 PM this Thursday.

123 Tran Hung Dao Street, District 5, Ho Chi Minh City

(The meeting will take place in the 3rd-floor conference room. Parking is available at the basement level.)

What to bring:

- Printed copy of the project proposal
- A USB drive with the latest presentation
- Budget reports for Q3
- Your personal notebook for taking notes

reminder list location tags link photos

< GIF

q w e r t y u i o p

a s d f g h j k l

z x c v b n m

?123

Purpose:

This screen allows users to **view, edit, and enrich** the content of an individual note. Whether it's a memory, reminder, or meeting summary, this screen provides tools for formatting, tagging, attaching media, and linking related data like events or locations.

UI elements:

- Note Title
- Tags
- Graph link
- Rich Text Editor Area
- Editing Toolbar (Indent / List / Tags / Link / Photos)
- Keyboard shown to input

Usage:

- Edit Note Content:** Users can freely write or edit the note using the rich-text editor, with formatting and media tools.
- Tag Notes:** Tapping on the “Tags” tool allows users to label the note for easier filtering later.
- Add Attachments:** **photos, location** (ex: meeting place), **links** to other notes, **events or reminders**
- View Metadata:** In Option B, users see the note's creation and modification dates to track history.
- Publish Updates:** After editing, users tap the “**publish**” button to save the content.

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Page 9 of 15

Memoir	Version: 1.3
Software Architecture Document	Date: 09/07/2025
UI Prototype Document	

2.3. Back up and cloud sync

	<p>Purpose:</p> <p>The Backup & Sync screen allows users to safely store their notes in the cloud and keep data consistent across devices.</p> <p>It helps protect against data loss and ensures access to the latest updates anytime, anywhere.</p> <p>UI elements:</p> <ul style="list-style-type: none">• Upload button• Download button• Last Sync label• Sync Status• Files to Back Up label• Storage used label
--	---

Usage:

- Users can manually initiate a sync to upload their local notes to the cloud by tapping the "Sync Now" button.
- Key information such as last sync time, sync status, storage usage, and pending files is displayed to keep users informed of their backup status.

Memoir	Version: 1.3
Software Architecture Document	Date: 09/07/2025
UI Prototype Document	

2.4. Recover notes

Recycle bin / no selected

9:41

< Recycle bin

search something...

All deleted notes (5)

Tramie: A memory with my friend

It was one of those quiet afternoons where time felt like it slowed down. My friend Lark...

Tramie: A memory with my friend

It was one of those quiet afternoons where time felt like it slowed down. My friend Lark...

Tramie: A memory with my friend

It was one of those quiet afternoons where time felt like it slowed down. My friend Lark...

Tramie: A memory with my friend

It was one of those quiet afternoons where time felt like it slowed down. My friend Lark...

Recycle bin / selected

9:41

< Recycle bin

search something...

Selected (2)

Tramie: A memory with my friend

It was one of those quiet afternoons where time felt like it slowed down. My friend Lark...

Tramie: A memory with my friend

It was one of those quiet afternoons where time felt like it slowed down. My friend Lark...

Tramie: A memory with my friend

It was one of those quiet afternoons where time felt like it slowed down. My friend Lark...

Tramie: A memory with my friend

It was one of those quiet afternoons where time felt like it slowed down. My friend Lark...

Restore

Delete

Recycle bin / no selected

9:41

< Recycle bin

search something...

Recently Deleted

Select all

Tramie: A memory with my friend

It was one of those quiet afternoons where time felt like it slowed down. My friend Lark...

Tramie: A memory with my friend

It was one of those quiet afternoons where time felt like it slowed down. My friend Lark...

Tramie: A memory with my friend

It was one of those quiet afternoons where time felt like it slowed down. My friend Lark...

Tramie: A memory with my friend

It was one of those quiet afternoons where time felt like it slowed down. My friend Lark...

Tramie: A memory with my friend

It was one of those quiet afternoons where time felt like it slowed down. My friend Lark...

5 notes

Recycle bin / selected

9:41

< Recycle bin

search something...

Selected: 2

Select all

Tramie: A memory with my friend

It was one of those quiet afternoons where time felt like it slowed down. My friend Lark...

Tramie: A memory with my friend

It was one of those quiet afternoons where time felt like it slowed down. My friend Lark...

Tramie: A memory with my friend

It was one of those quiet afternoons where time felt like it slowed down. My friend Lark...

Tramie: A memory with my friend

It was one of those quiet afternoons where time felt like it slowed down. My friend Lark...

Tramie: A memory with my friend

It was one of those quiet afternoons where time felt like it slowed down. My friend Lark...

Restore

Delete permanently

Purpose:

The Recycle Bin allows users to **view, restore, or permanently delete** notes that have been recently removed.

This feature offers a safety net, giving users time to recover deleted content before it is permanently erased.

UI elements:

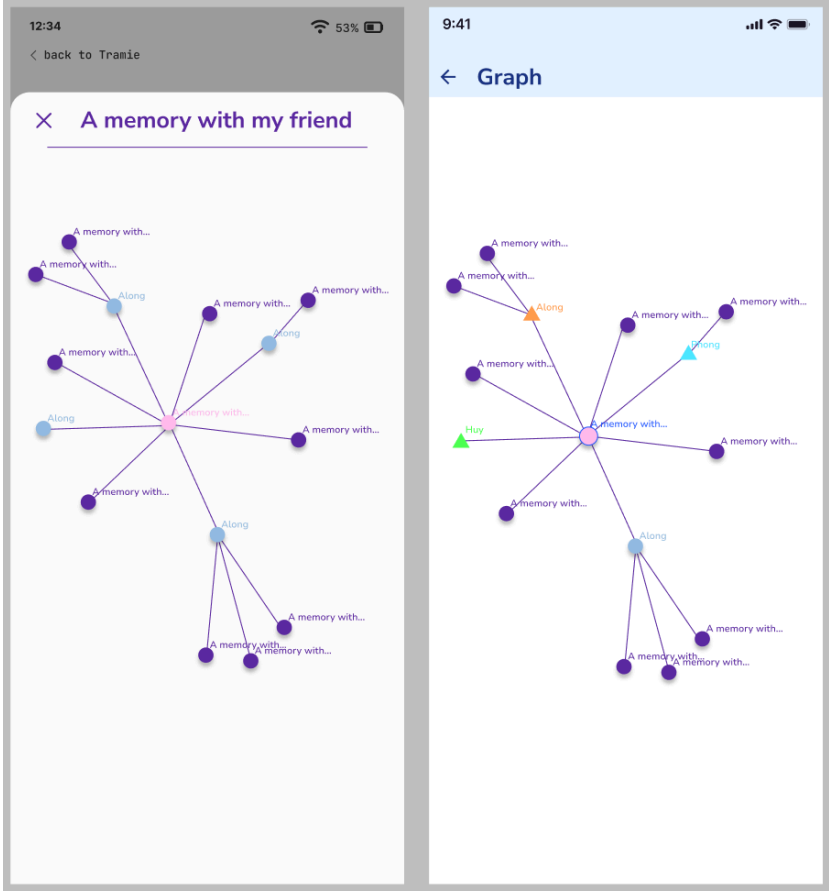
- Checkboxes
- Select All label
- Restore button
- Delete Permanently button
- Confirmation dialog

Usage:

- Users can select one, multiple, or all deleted notes using checkboxes.
- After selection, they can choose to either restore the selected items or delete them permanently.
- A warning is shown before permanent deletion to prevent accidental data loss.

Memoir	Version: 1.3
Software Architecture Document	Date: 09/07/2025
UI Prototype Document	

2.5. View relationship graph



The image displays two mobile application screens side-by-side, illustrating a relationship graph interface. The left screen shows a graph with a central pink node labeled 'A memory with...' and several surrounding nodes, some labeled 'Along'. The right screen shows the same graph but with a different central node highlighted in blue and labeled 'A memory with...'. The right screen also shows a 'Graph' button in the top left corner.

Purpose:

This screen presents a visual overview of the relationships between notes and associated contacts. The root note is visually distinguished with a blue border and label, while notes and contacts are represented as circles and triangles.

UI elements:

- Note nodes (circle)
- Contact nodes (triangle)
- Lines/Edges

Usage:

- Users access the graph by tapping the graph button on a note.
- The selected note appears as the **root node**, styled with a blue border and label.
 - **Clicking the root note** opens the full note view.
 - **Clicking a linked note** reloads the graph with that note as the new root.
 - **Contacts** are shown as triangles and are linked to related notes. This interaction allows users to navigate relationships between notes and contacts through a visual and intuitive layout.

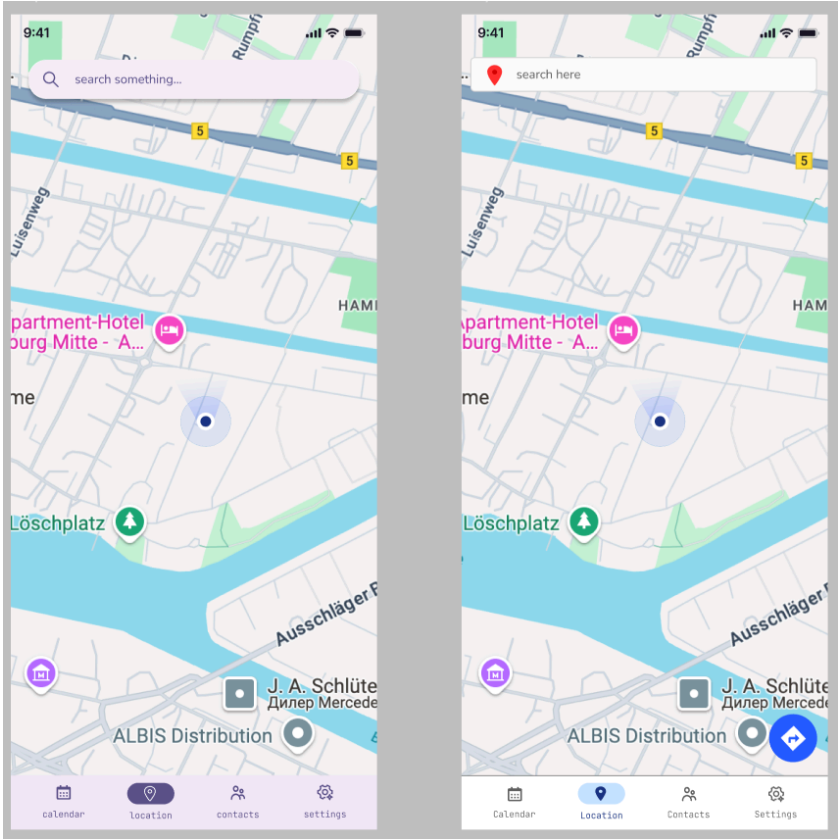
Memoir	Version: 1.3
Software Architecture Document	Date: 09/07/2025
UI Prototype Document	

3. Main Screens

3.1. Screen 1: Contacts List

This screen has the same functionality with Screen in [Use-Case 1: Manage Notes](#)

3.2. Screen 2: Meeting Locations



Purpose:
The Locations page helps users **view, search, and interact** with location data associated with their notes.

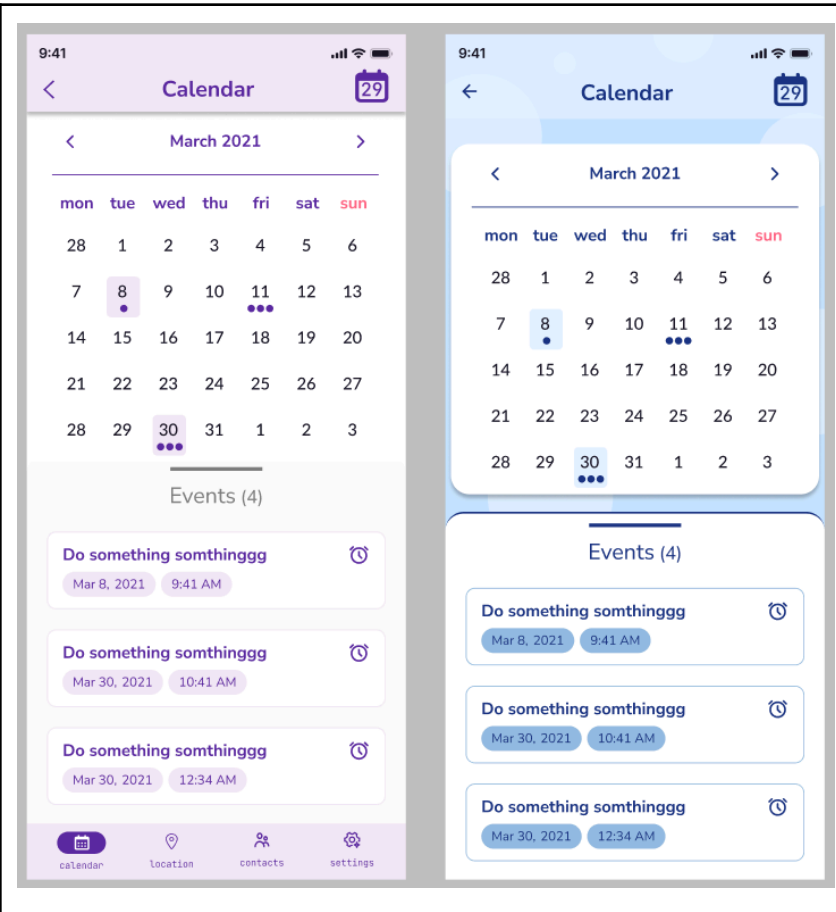
UI elements:

- Search bar
- Interactive Map View
- Pinned Locations
- Bottom Navigation Bar

Usage: Users can search for a place using the search bar or navigate to this page by clicking a location tag from within a note.

Memoir	Version: 1.3
Software Architecture Document	Date: 09/07/2025
UI Prototype Document	

3.3. Screen 3: Calendar



Purpose:

This screen helps users view and manage scheduled events associated with their notes or reminders. It provides a calendar view to navigate by date and a timeline of events for easy reference and interaction.

UI elements:

- Header
- Month Navigation
- Calendar Grid
- Events Cards
- Bottom Navigation Bar (Option Left)

Usage:

- **Browse Events by Date:** Tap on a specific date to view events scheduled for that day.
- **Scroll Through Events List:** View all events for the selected month in a vertical list.
- **See Event Details at a Glance:** Each event block includes its title, time, and a visual hint that it is timed or has a reminder.
- **Navigate Between Months:** Use arrow buttons to move between past or upcoming months.
- **Access Notes associated with event:** Use the bottom tab bar to quickly jump to other parts of the app like Contacts or Settings.

Memoir	Version: 1.3
Software Architecture Document	Date: 09/07/2025
UI Prototype Document	

3.4. Screen 4: Setting

Purpose:

This screen allows users to **manage** their account, preferences, data synchronization, and app behavior. It centralizes key actions like editing personal information, handling backups, and managing deleted notes.

UI elements:

- Header
- List items:
 - Account information
 - Change password
 - Feedback/bug report
 - Backup & Cloud sync
 - Recycle bin
- Log out button
- Bottom Navigation Bar

Usage:

- **Account Information:** View and edit username or email if needed.
- **Change Password:** Users enter their current password, then set a new password and confirm it. The app checks for matching confirmation before applying the change.
- **Feedback / Bug Report:** Submit feedbacks or report issues directly to the development team.
- **Backup & Cloud Sync:** Manually sync notes to the cloud, view last sync time, monitor storage usage.
- **Recycle Bin:** View recently deleted notes, restore or permanently delete them.