
Group03

Memoir
UI Prototype Document
Version 1.3

Memoir	Version: 1.10
Software Architecture Document	Date: 29/07/2025
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 main use-case: Recover notes, view relationship graph Format file	Nguyễn Thị Trà My
17/07/2025	1.4	Add key scenario: Create and Manage Notes Linked to a Contact	Phạm Nam Huyền
19/07/2025	1.5	Add others screen description	Phạm Nam Huyền
26/07/2025	1.6	Restructure the document: <ol style="list-style-type: none"> 1. Splash screen 2. Main screen 3. Key scenarios <ol style="list-style-type: none"> 3.1. Contacts & Notes management 3.2. Upload/Download files from Cloud 	Phạm Nam Huyền
26/07/2025	1.7	Splash screen, Main screens Add flow diagram for each key scenario	Phạm Nam Huyền
28/07/2025	1.8	Contacts & Notes management	Phạm Nam Huyền
29/07/2025	1.9	Upload/Download files from Cloud	Phạm Nam Huyền
29/07/2025	1.10	Revise and enhance the document	Phạm Nam Huyền
01/08/2025	1.11	Remove “Upload files to Cloud” section Update UI for Note Detail screen	Phạm Nam Huyền

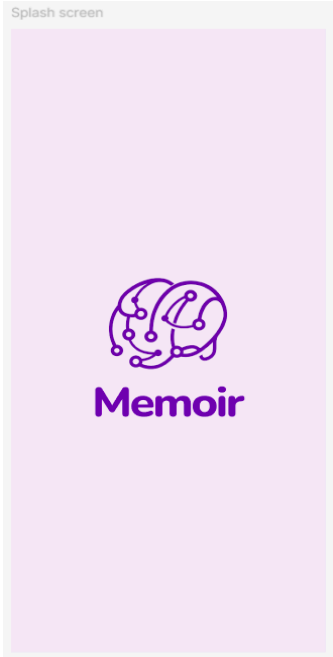
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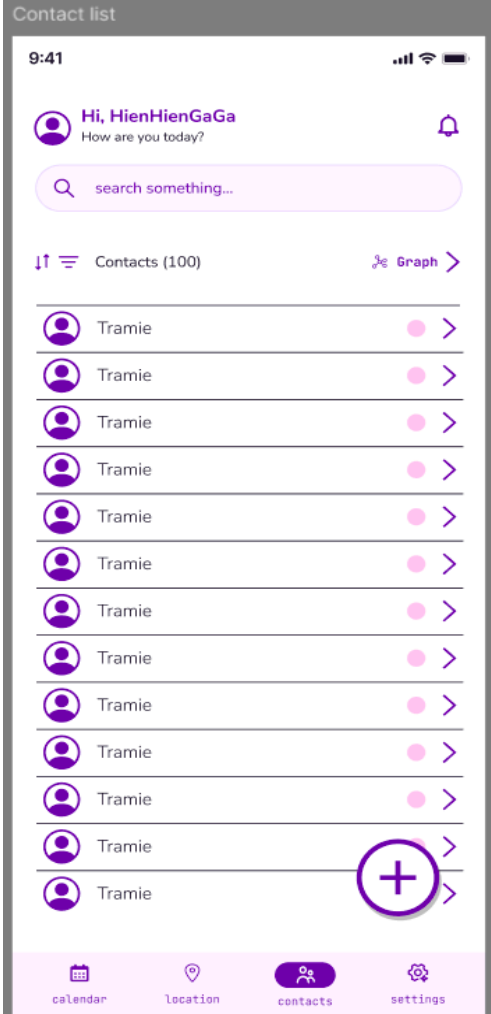
1. Splash screen

	<p>Purpose: Introduces the app brand (<i>Memoir</i>) and provides a smooth entry experience</p> <p>What it shows: Displays the app logo with a soft purple background. No interactive elements are present</p> <p>How users can use it: The screen automatically appears when the app launches. After a few seconds, it transitions to the <i>Login</i> screen (or <i>Contact list</i> if the user is already logged in)</p>
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2. Main screen

2.1. Screen 1: Contacts List

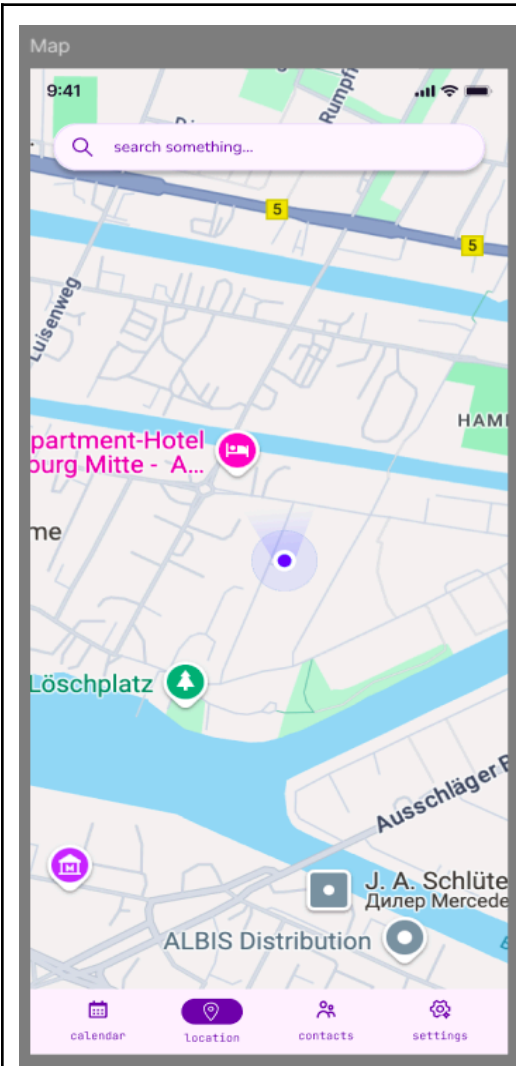
	<p>Purpose:</p> <p>This screen provides users with access to their saved contacts. It serves as the central hub for managing relationships, initiating note creation tied to a contact, and navigating to related details.</p> <p>UI elements:</p> <ul style="list-style-type: none"> • Greeting Header • Search Bar • Sort, Filter contact button • Total current contacts • View Graph button • Contact List Item <ul style="list-style-type: none"> ○ Profile icon ○ Contact name ○ Relationship label • Create Button (+) • Bottom Navigation bar <ul style="list-style-type: none"> ○ Calendar tab ○ Location tab ○ Contacts tab (current) ○ Settings tab
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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.

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2.2. Screen 2: Meeting Locations



Purpose:

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

UI elements:

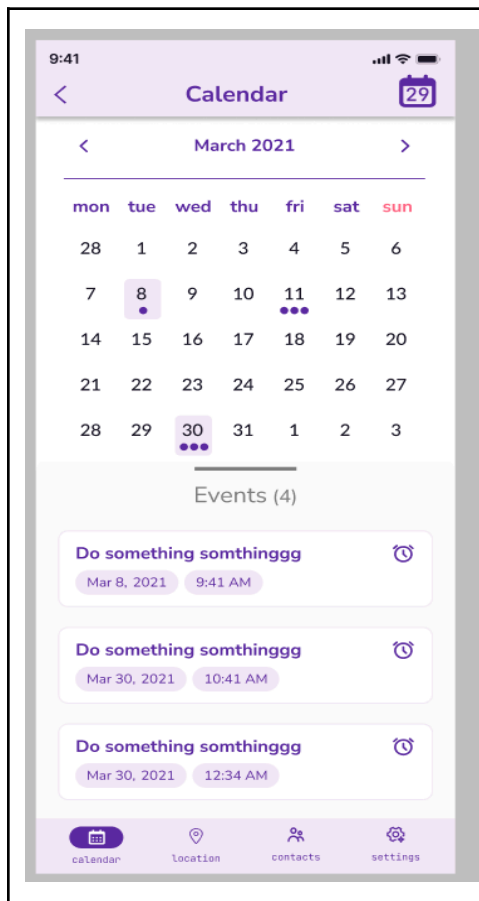
- Search bar
- Interactive Map View
- Pinned Locations
- Bottom Navigation Bar

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.

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2.3. 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:

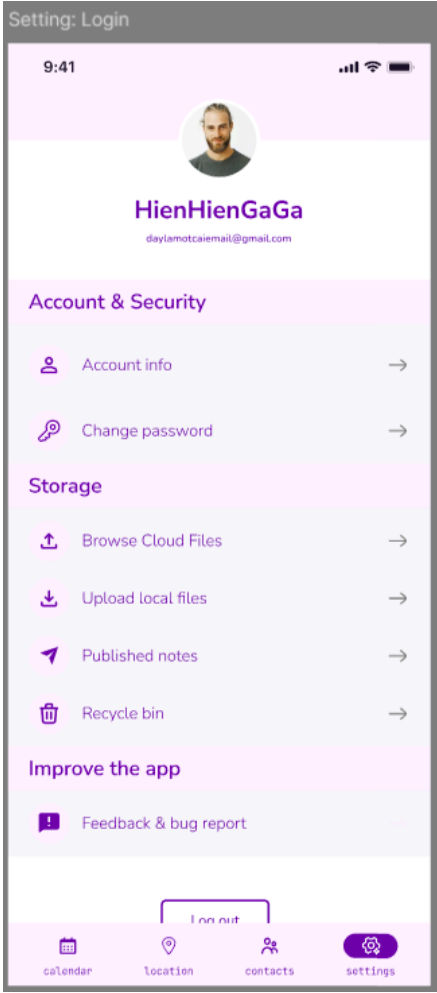
- Header
- Month Navigation
- Calendar Grid
- Events Cards
- Bottom Navigation Bar

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 the event:** Use the bottom tab bar to quickly jump to other parts of the app like Contacts or Settings.

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2.4. 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: editable avatar, username, non-editable email
- Scrollable List items:
 - Account information
 - Change password
 - Backup & Cloud sync (Browse Cloud files + Upload local files)
 - Publish note
 - Recycle bin
 - Feedback/bug report
- Log out button
- Bottom Navigation Bar

Usage:

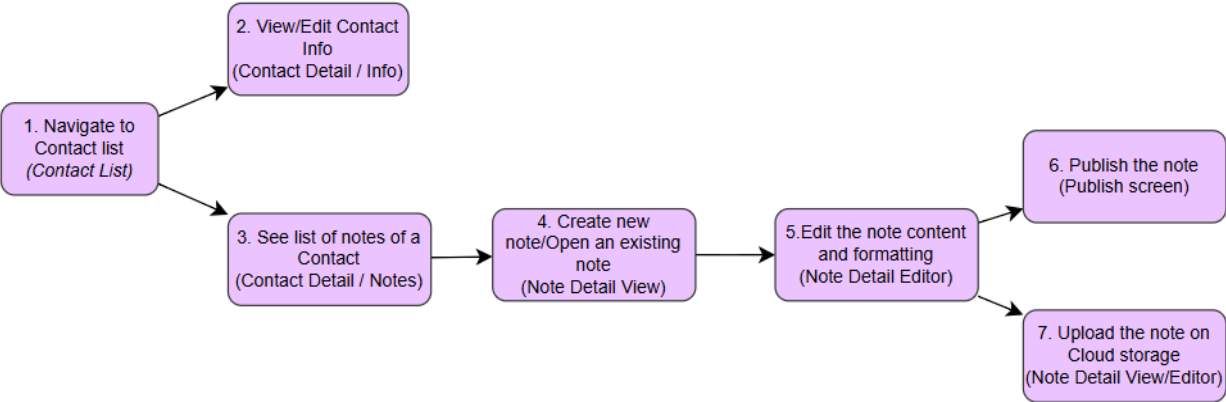
- **Account Information:** View and edit username or email if needed.
- **Change Password:** Users enter their current password, then set a new password and confirm it. The app checks for matching confirmation before applying the change.
- **Feedback / Bug Report:** Submit feedback or report issues directly 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.

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3. Key scenarios

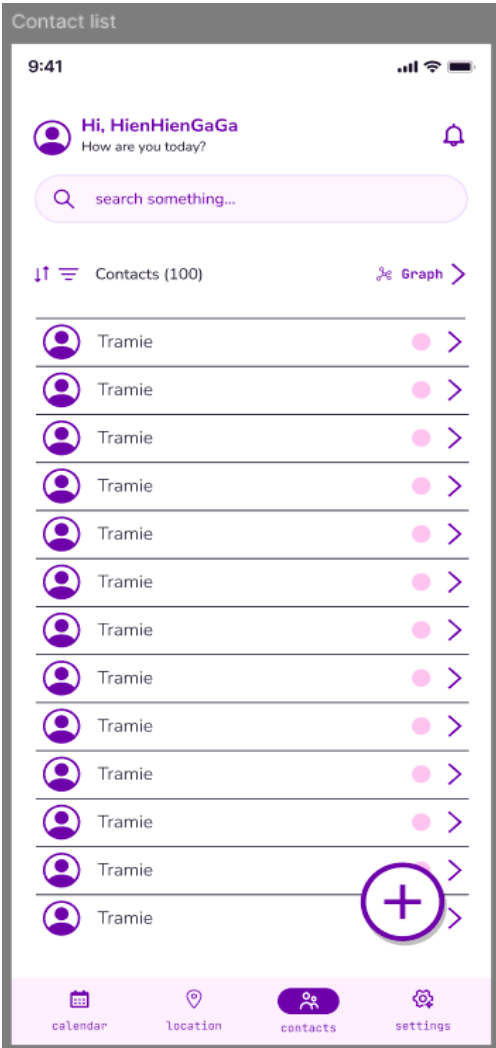
3.1. Common Flow Pattern: Contact & Note Management

3.1.1. Common Flow Diagram

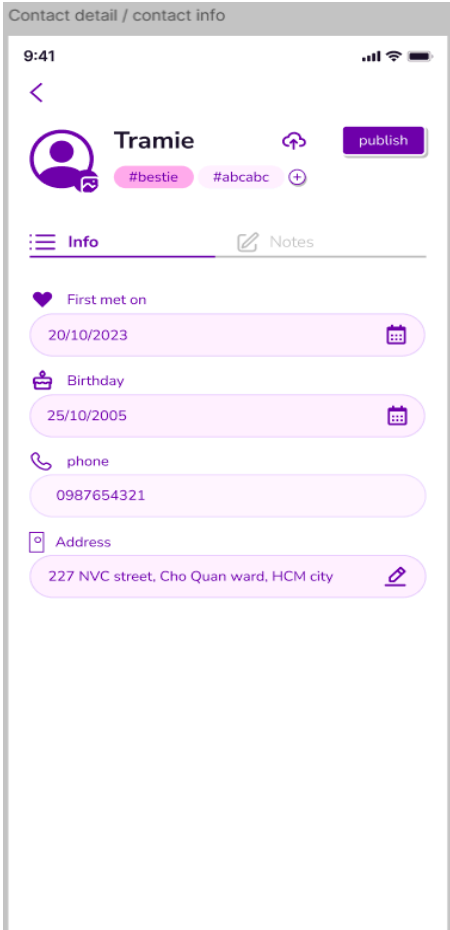


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3.1.2. Steps Description

Step	Description	Screen
1	<p>Navigate to Contacts List</p> <p>Screen name: Contact List</p> <p>Detail purpose, UI elements and usage is similar as Main screen: Contacts list</p>	

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2	<p>View/Edit contact info</p> <p>Screen name: Contact info</p> <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● Upload button● Personal Info inputs (date first met, birthday, phone...)● Notes list access button (option Right)● Navigation back arrow	
	<p>Usage:</p> <ul style="list-style-type: none">● 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: “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.	

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3

See list of notes for that contact

Screen name: 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:

- Contact Header: contact avatar, name (*Tramie*), tags
- “publish” button
- Tab Navigation: *Info* and *Notes* (active)
- Note Tools: Checkbox, Total count, Sort and Filter icons
- List of Note Cards: title, date (ex: 25/10/2024), content preview
- Create note button (“+”)
- *Upload button* to upload the note to cloud
- When a note card is selected, the Delete note is available

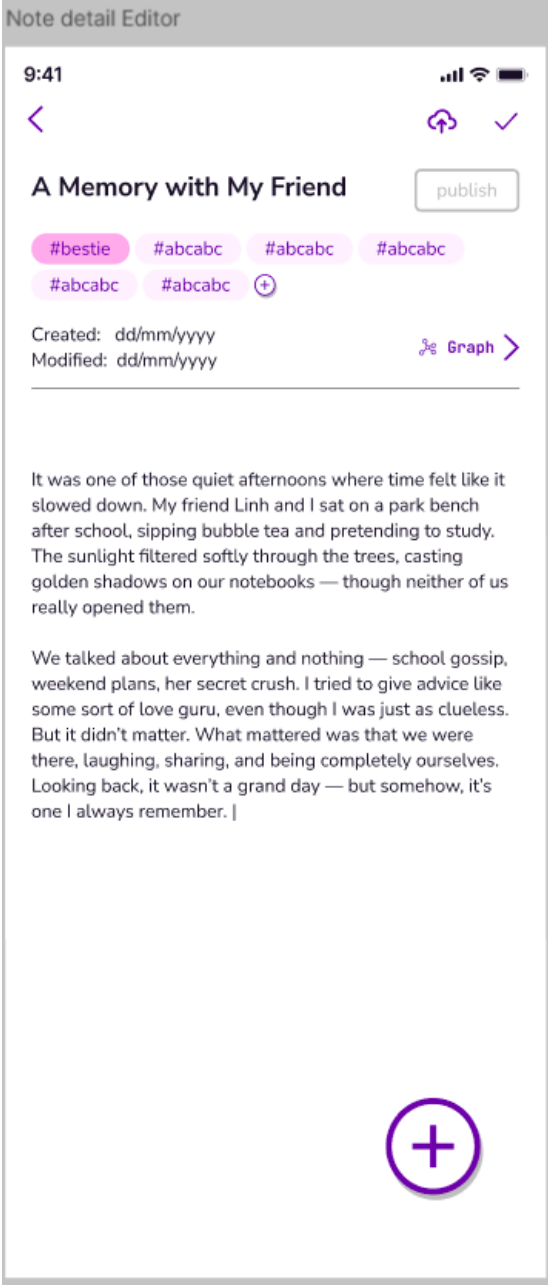
Usage:

- **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:** Tap the **floating “+”** button.
- **Sort and Filter Notes:** Use toolbar icons to rearrange notes by date, tag, or other attributes.
- **Select Notes:** Use checkboxes or long-press to select one or multiple notes for future actions (e.g., batch delete, link).
- **Upload to cloud:** Tap Upload if ty want to store the note on the Cloud storage
- **Delete** the selected note(s)

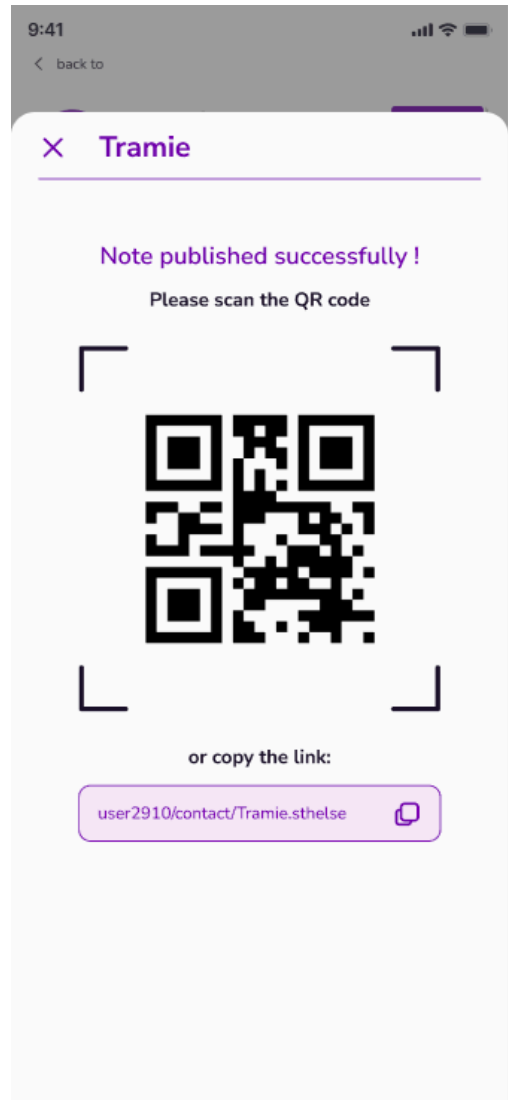
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4	<div><div>Create or open a note</div><div>Screen name: Notes Detail View</div><div><div>Purpose:</div><div>To allow users to read a saved note in a clean, non-editable format, while viewing associated metadata (tags, timestamps, etc.) and options to explore related connections (Graph view)</div></div><div><div>UI elements:</div><div><div><div>• Top-left: Back button to return to the previous screen</div><div>• Top-right: Edit button to turn to edit mode</div><div>• Note Metadata Section, including:<div><div>○ Note title (ex: “A Memory with My Friend”) – non-editable</div><div>○ Publish button (visible, active) – allows user to publish note if still in draft</div><div>○ Upload button</div><div>○ Tag chips (e.g., #bestie, #abccabc)</div><div>○ Add tag (+) icon</div><div>○ Timestamps: Created & Modified</div><div>○ Graph view icon to explore note relationships</div></div></div><div>• Note content viewer (non-editable scrollable text)</div></div></div></div><div><div>Note detail View</div><div><div>9:41</div><div><div></div><div></div><div></div></div></div><div><div><</div><div></div><div></div><div></div></div><div><div>A Memory with My Friend</div><div>publish</div></div><div><div>#bestie</div><div>#abccabc</div><div>#abccabc</div><div>#abccabc</div><div>#abccabc</div><div>#abccabc</div><div></div></div><div><div>Created: dd/mm/yyyy</div><div>Modified: dd/mm/yyyy</div><div></div><div>Graph ></div></div><div><div>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.</div><div>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.</div></div></div></div>
	<div><div>Usage:</div><div>Read the note’s content, View all tags and creation/modification info, Tap Graph icon to visualize connections, Tap Publish if they want to share the note, Tap Upload if ty want to store the note on the Cloud storage, Tap Back to return to the previous screen</div></div>

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5	<p>Edit content and format the note Screen name: Note Detail Editor</p> <p>Purpose: To let users edit the title, content, and metadata of a note</p> <p>UI elements:</p> <ul style="list-style-type: none"> • <i>Top-left: Back button</i> to exit editing mode • <i>Top-right: Tick button</i> to save the note + <i>Upload button</i> to upload the note to cloud • <i>Note Metadata Section</i>, similar with Note Detail view but editable • <i>Note content editor</i> (multi-line text area) • <i>Floating Action Button (FAB)</i> with purple “+” icon in the lower-right => Open the toolset to editing the note <p>Usage:</p> <ul style="list-style-type: none"> • 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 	
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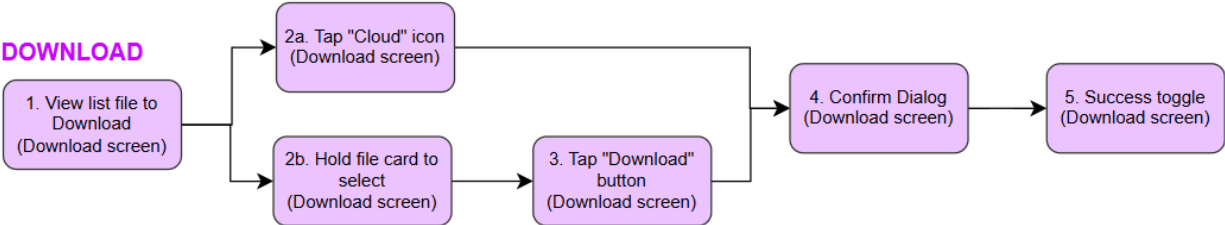
6	<p>Publish the note Screen name: Publish</p> <p>Purpose: This screen confirms that a note has been successfully published and provides options for sharing the note via a QR code (scan to access), or by copying a shareable link</p> <p>UI elements:</p> <ul style="list-style-type: none"> - Success Message: “Note published successfully!” - Instructional text: “Please scan the QR code” - QR code - Link Display with copy button <p>Usage:</p> <ul style="list-style-type: none"> • Share via QR code (<i>someone else can scan it from their phone</i>) • Copy the link and paste it anywhere (<i>chat, email, browser</i>) <p>=> Ideal for quick sharing without login or authentication flows</p>	 <p>The screenshot shows a mobile app interface. At the top, the status bar displays the time 9:41 and signal icons. Below the status bar is a navigation bar with a back arrow and the text 'back to'. The main content area has a purple header with a close button (X) and the title 'Tramie'. Below the header, a purple message box contains the text 'Note published successfully !' and 'Please scan the QR code'. In the center, there is a large QR code framed by a purple L-shaped border. Below the QR code, the text 'or copy the link:' is displayed. At the bottom, there is a purple button with the text 'user2910/contact/Tramie.sthelse' and a copy icon.</p>
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7	<p>Upload a specific note on the CCloud Storages Screen name: Note Detail View</p> <p>Purpose: This screen confirms that the note has been successfully downloaded from the cloud to the user's local storage. It visually indicates that the note is now available offline and synced.</p> <p>UI elements: Most of the interface is identical to the standard Note Detail view, including: <i>Title of the note, List of tags, Created and Modified date, Graph view button, Note text area, Floating Action Button (FAB)</i></p> <p><i>However, this screen includes two updated elements indicating a successful download:</i></p> <ul style="list-style-type: none"> - <i>Cloud icon (top right) colored green</i> - <i>Green confirmation bar at bottom as an alert to notify the user of success.</i> 	
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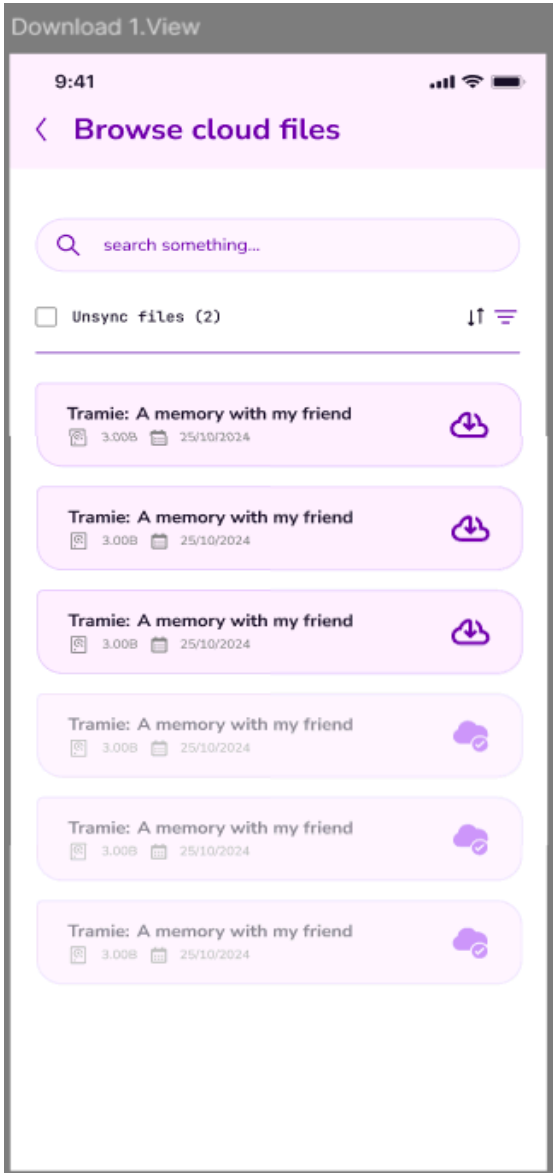
3.2. Download files from Cloud storage

3.2.1. Flow diagram

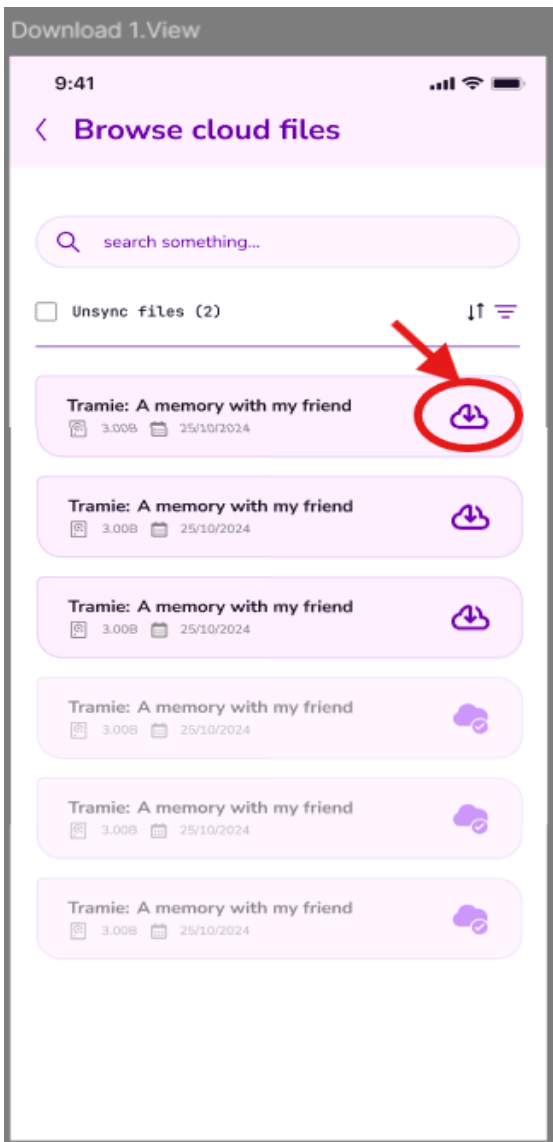


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3.2.2. Steps description

1	<p>View list files to Download</p> <p>Purpose: Show list of cloud files that can be downloaded to the device</p> <p>UI elements:</p> <ul style="list-style-type: none"> ● Search bar ● Filter & sort icon ● Checkbox to select all available files ● File cards with: <ul style="list-style-type: none"> ○ File name ○ Size ○ Upload date ○ Download icon for each file <p>Usage: Scroll through the list, search for a specific file, and tap on the download icon to download individually. Alternatively, long press to activate batch selection</p>	
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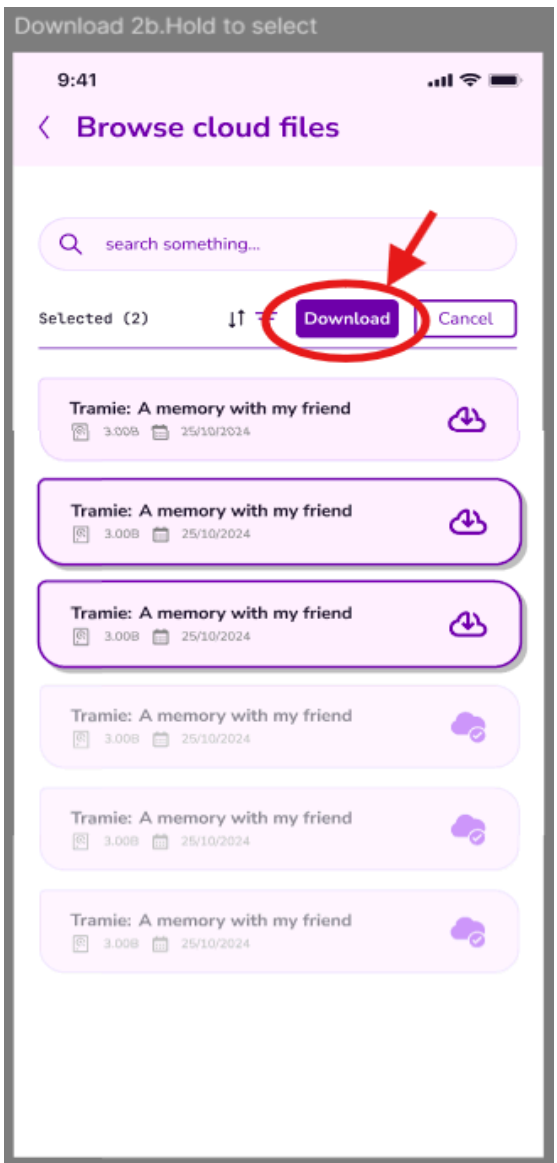
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2a	<p>Click Button to Download a File</p> <p>Purpose: Allow user to download a single file directly.</p> <p>UI elements:</p> <ul style="list-style-type: none">• Same list layout with screen 1 <p>Usage: Tap the download icon on the right of any file to start the download immediately</p>	 <p>The screenshot shows a mobile application interface titled 'Download 1.View'. At the top, there's a status bar with the time '9:41' and signal/battery icons. Below is a header with a back arrow and the text 'Browse cloud files'. A search bar with the placeholder 'search something...' is present. Below the search bar, there's a section 'Unsync files (2)' with a sort icon. A list of files follows, each with the title 'Tramie: A memory with my friend', a file icon, the size '3.00B', and the date '25/10/2024'. The first file's download icon (a cloud with a downward arrow) is circled in red, with a red arrow pointing to it from the left. The other files have either a download icon or a checkmark icon.</p>
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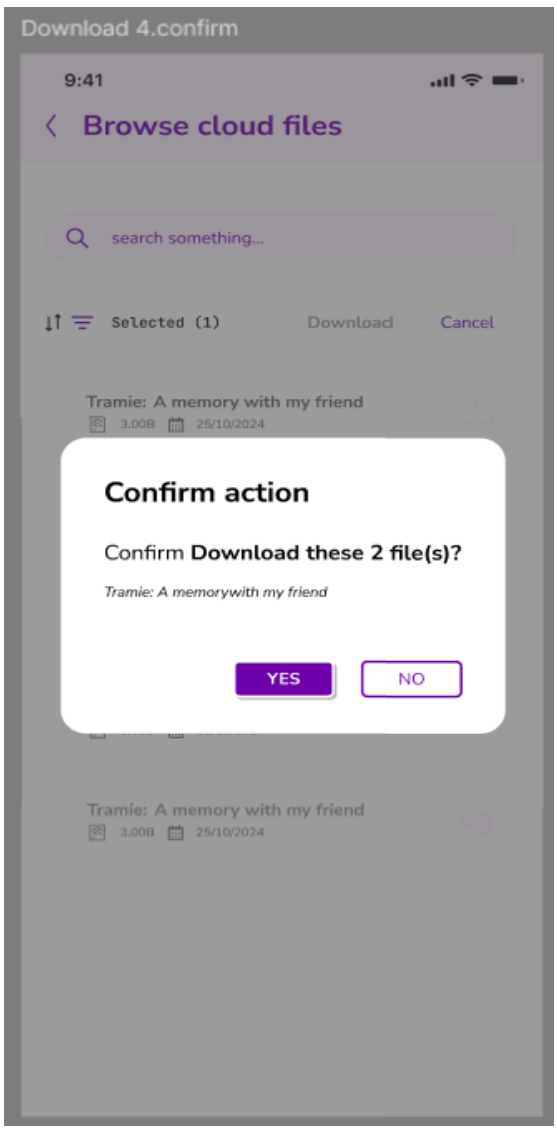
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2b	<p>Hold to Select Multiple Files</p> <p>Purpose: Enable multi-select for batch download.</p> <p>UI elements:</p> <ul style="list-style-type: none">• File cards highlighted with borders• Selection header showing count (ex: "Selected (2)")• Download and Cancel buttons shown at the top <p>Usage: Long-press any file card → select additional files → tap the Download button</p>	
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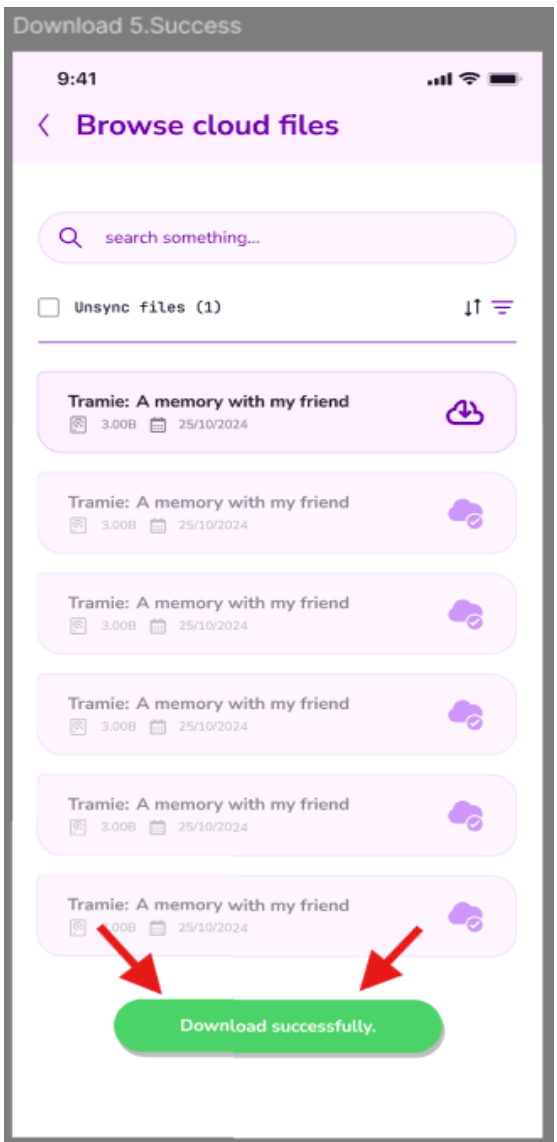
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3	<p>Click Download Button (from 2b)</p> <p>Purpose: Confirm action and initiate batch download.</p> <p>UI elements:</p> <ul style="list-style-type: none">• Same screen as 2b• Download button <p>Usage: Tap the Download button to proceed with downloading all selected files</p>	
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4	<p>Confirm Dialog</p> <p>Purpose: Verify user's intention to download selected files.</p> <p>UI elements:</p> <ul style="list-style-type: none">• Dialog box• List of selected files• Two buttons: YES and NO <p>Usage: Click YES to proceed with downloading the files, or NO to cancel</p>	 <p>The screenshot shows a mobile application interface. At the top, the status bar displays the time 9:41 and signal strength. The app's header is 'Download 4.confirm'. Below this is a 'Browse cloud files' screen with a search bar and a list of files. A 'Confirm action' dialog box is overlaid on the screen, asking the user to confirm downloading 2 files. The dialog has a title 'Confirm action', a message 'Confirm Download these 2 file(s)?', and two buttons: 'YES' and 'NO'. The background screen shows a file named 'Tramie: A memory with my friend' with a size of 3.00B and a date of 25/10/2024.</p>
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5	<p>Success Notification</p> <ul style="list-style-type: none"> ● Purpose: Notify user that the download(s) completed successfully. ● What it Shows (UI elements): <ul style="list-style-type: none"> ○ Same file list ○ Downloaded files show a checkmark/downloaded icon ○ Green success message: “Download successfully” ● How Users Can Use It: User can now open downloaded files, or repeat the process for other files. 	
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