

# A8: High-fi Prototype

11/21

SparkBook

# Team



Elijah

Symbolic Systems '26



Luiza

Design + CS '28



Claire

Computer Science '27



Mikela

Symbolic Systems '27



# SparkBook

**“Spark your creativity.”**

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## Problem

Artists struggle to effectively and quickly store all of their various sources of inspiration in a centralized and organized structure. This makes it harder for them to go back to these sources when they are creating art.

## Solution

A digital notebook that allows artists to store multimedia sources of inspiration while smartly organizing them based on their chosen categories.

# Heuristic Evaluation Results

# Heuristic Evaluation Overview

**96** Total violations

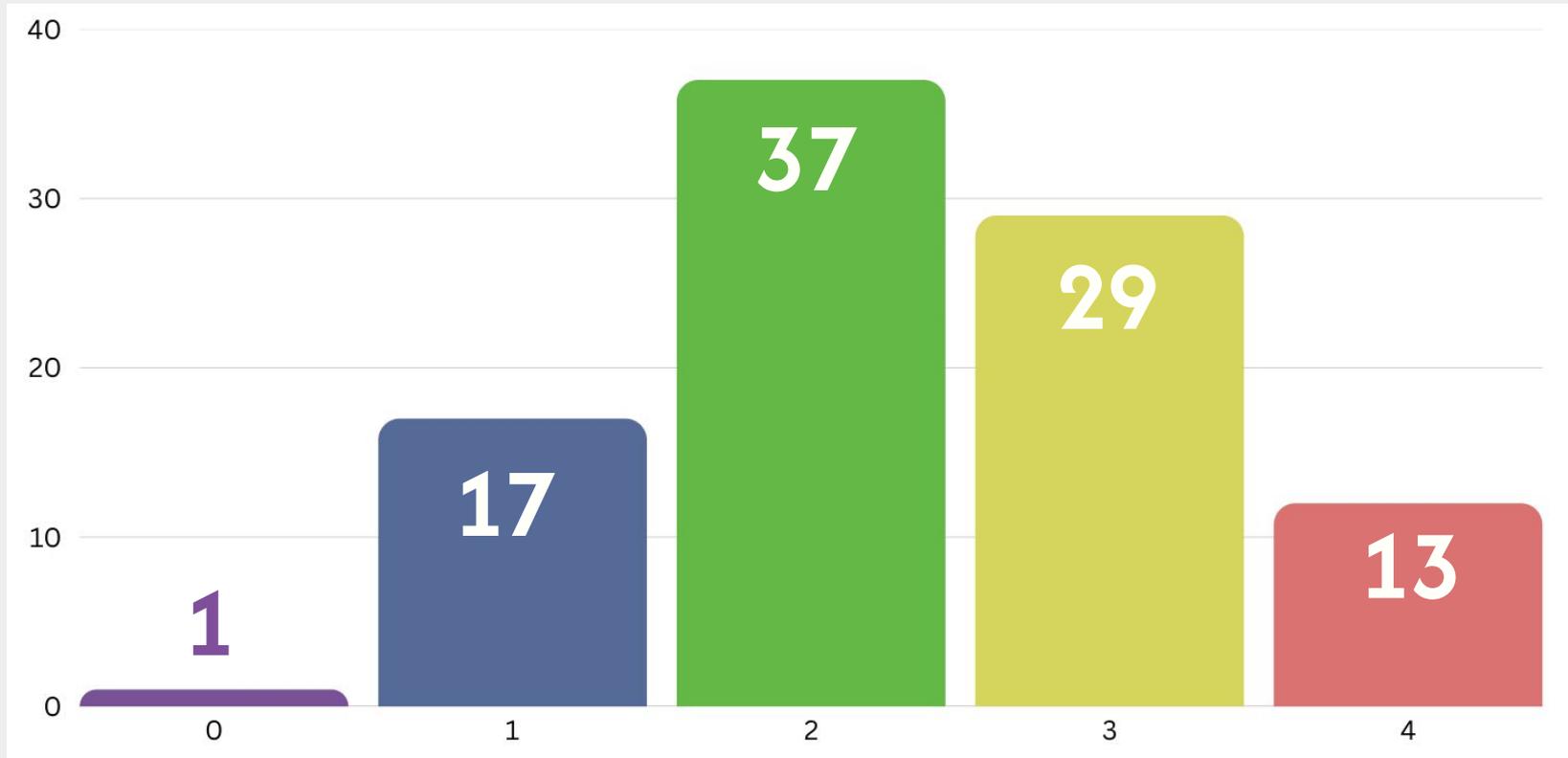
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1. Severity breakdown

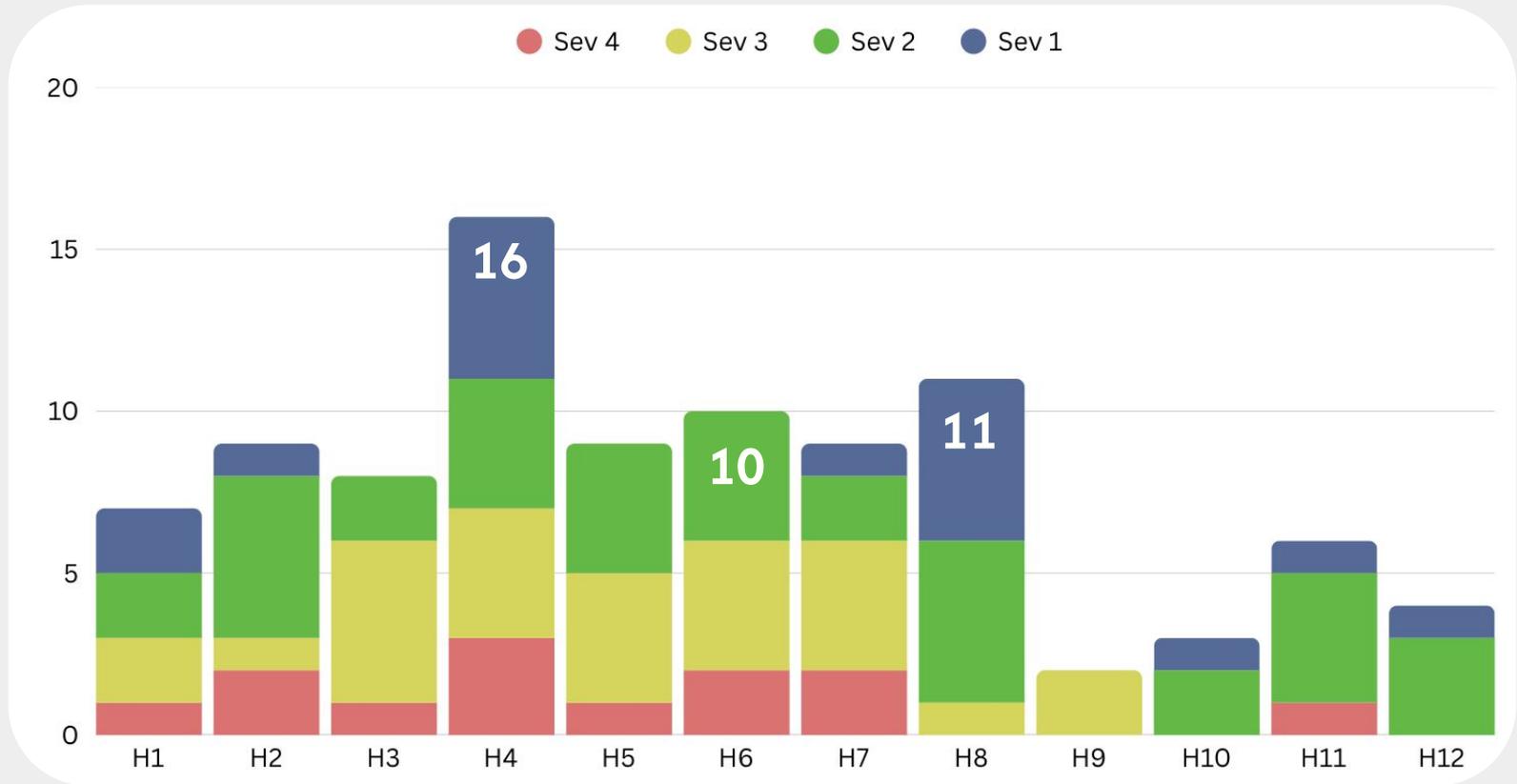
2. Heuristic breakdown

3. Takeaways

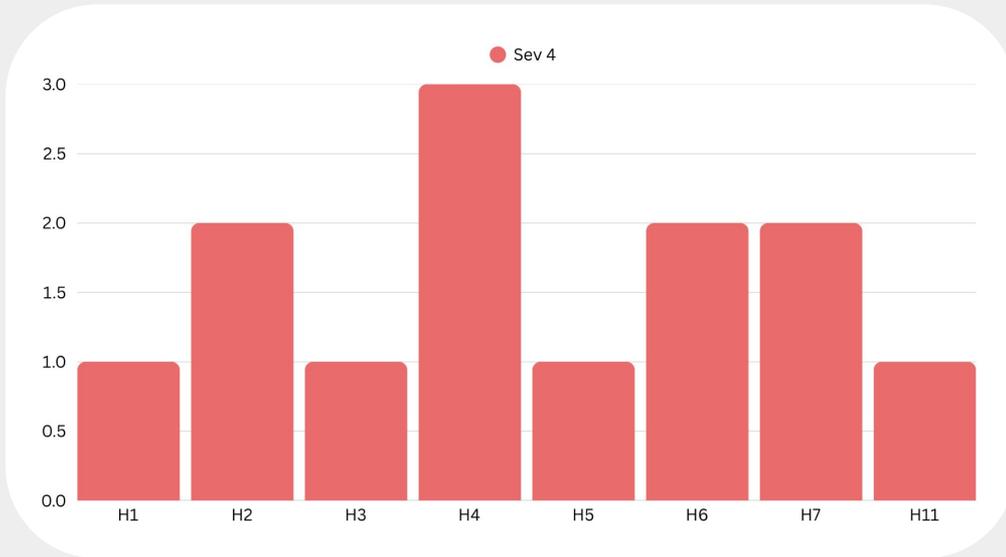
# Severity Overview



# Heuristics Overview



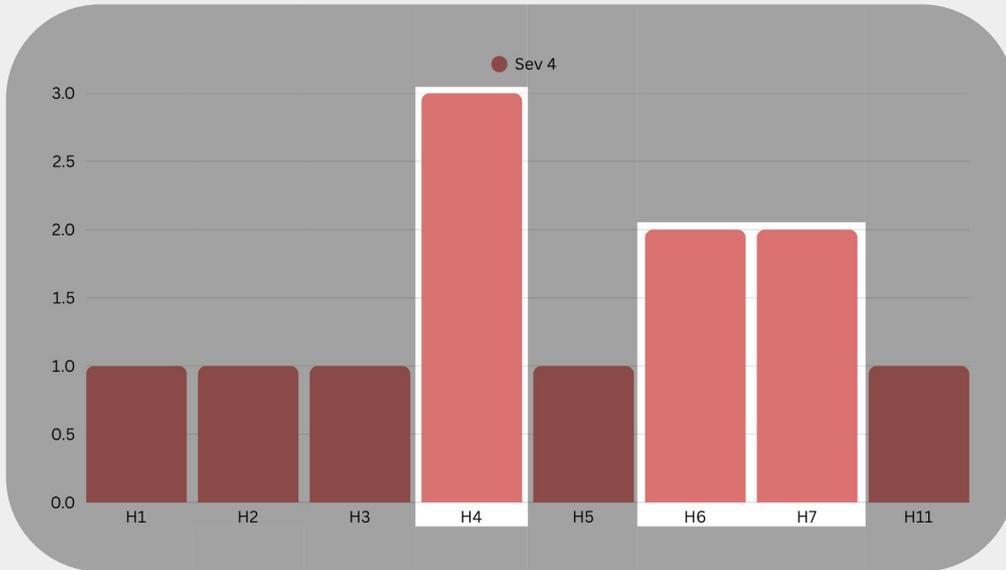
# Severity 4 trends



**Severity 4**

12

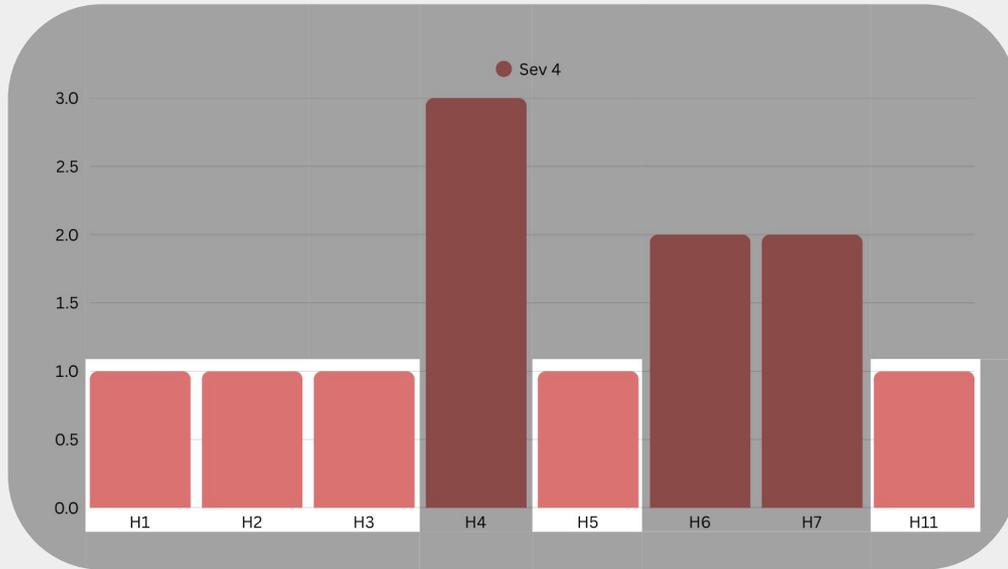
## Severity 4 trends



## Frequent violations (7)

- H4: Consistency
  - Ensure all of the buttons indicating the same action have the same wording.
  - Ensure that the process of adding sparks is consistent.
- H6: Recognition not recall
  - Make it clear the format options for the AI organization feature.
- H7: Flexibility & Efficiency of use
  - Ensure that user can easily identify and add the list of media inputs.

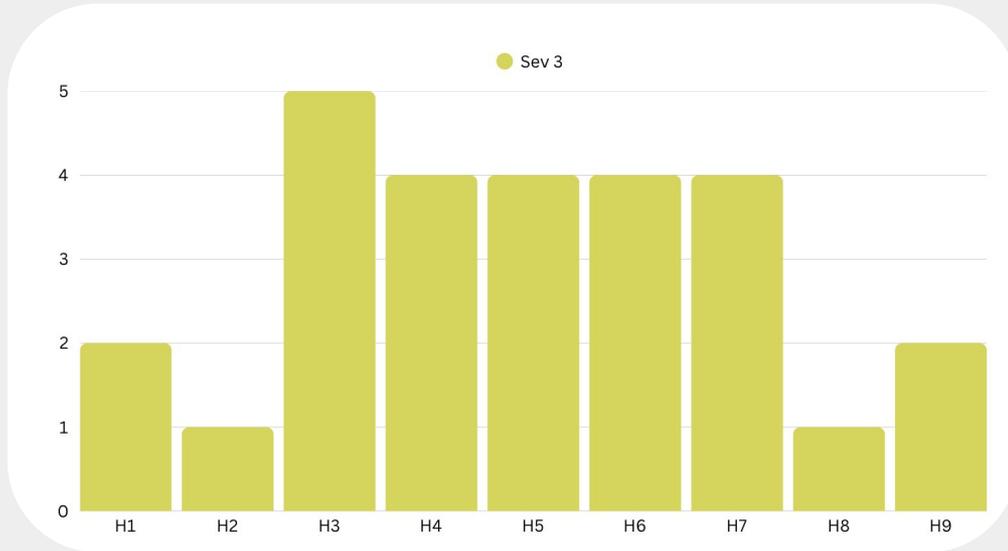
## Severity 4 trends



## Individual changes (5)

- Indicate what texts are editable
- Increase the size of elements to be more visible in the screen
- Ability to delete sparklettes
- Ability to cancel/delete uploads when sharing to the community

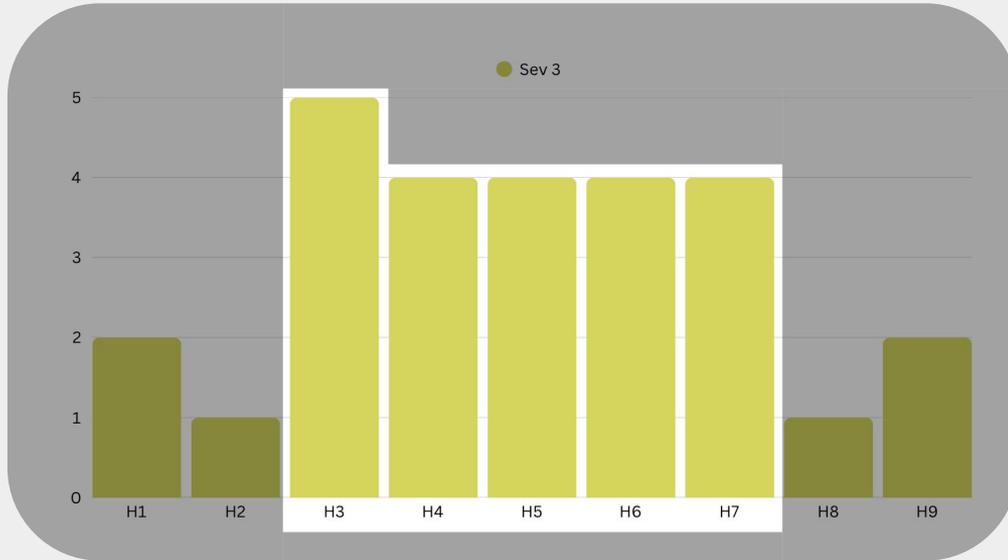
# Severity 3 trends



**Severity 3**

29

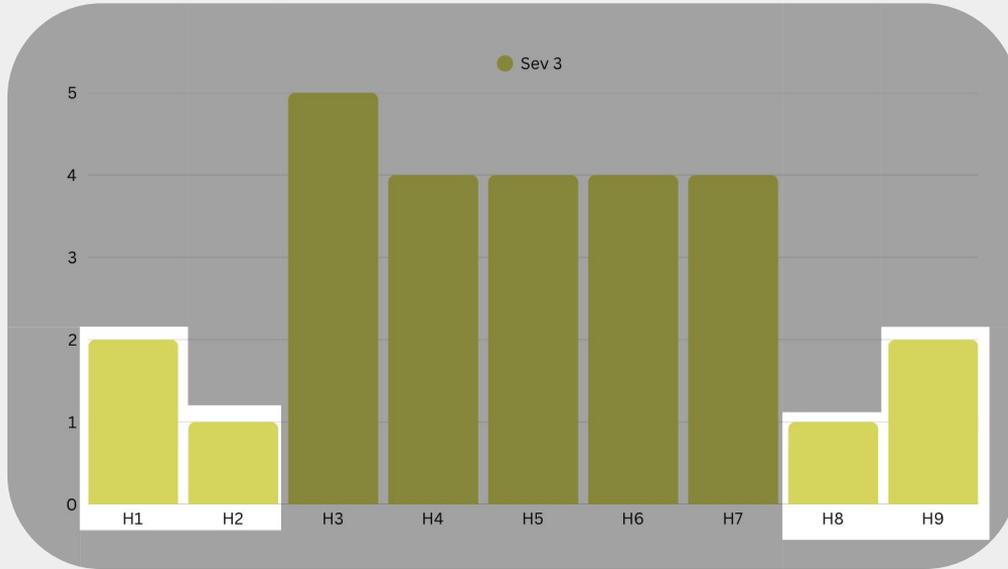
## Severity 3 trends



## Frequent violations (21)

- H3: Control and freedom
  - Ensure that users can delete/go back when they've done an action.
- H4: Consistency
  - Ensure that terminology and wording is consistent.
- H5: Error prevention
  - Ensure that there are error screens for wrong actions.
- H6: Recognition not recall
  - Make it clear the format options for the AI organization feature.
- H7: Efficiency of use
  - Make it easy to add many sources at once.

## Severity 3 trends



## Individual changes (6)

- Make it clear which options are optional/mandatory when adding a source.
- Clarify the concept of connecting sparks
- Add success messages after adding a spark
- Include failed upload screens

# Key Takeaways

The primary issue was in H4, a lack of **consistency in visual aesthetic and terms**. This appeared in the prototype in instances such as:

- Terms like Sparklette, Board, and Connection were inconsistently defined
- Visual inconsistency of sparks on the community page
- Buttons labels varying from “Add” vs “Next” vs “Save”

Additionally, there were issues of user control and flexibility (H3 + H7). Throughout different workflows, there is a **lack of back, cancel, and delete options**. Workflows that need revision are:

- Deleting a Sparklette
- Undoing a change on the Sparklette
- Making a spark public

# Revised UI Designs

# Usability goals

Flexible: able to accommodate different artists' workflows, taking into account different sources of inspiration and organization preferences.

- Accept different medium inputs in the upload menu
- Customizable free form organization on the Sparklette
- Interactable elements from within Sparklette to support artists' organization
  - Linking sparks on a sparklette
  - Saving songs as lyrics, album cover, or just the title

Efficient: The user is able to easily perform key tasks throughout the app

- Adding a spark must be accessible on any screen
- Streamlining the process of adding a spark within the project already to reduce clicks needed to add it
- Leverage AI to perform smart organization on sparks

## Issue 1

# H1: There is no indication whether a text is editable or not.

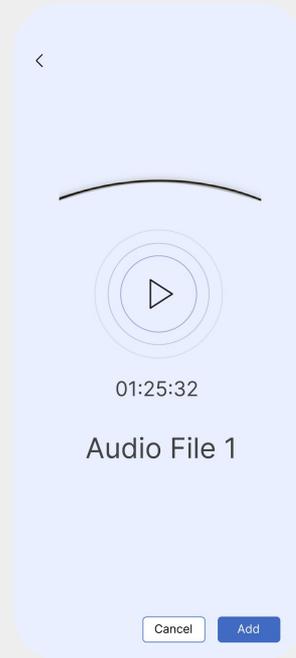
Giving a recording a name when adding a recording has no indicator that the name of the recording is editable

# Revision

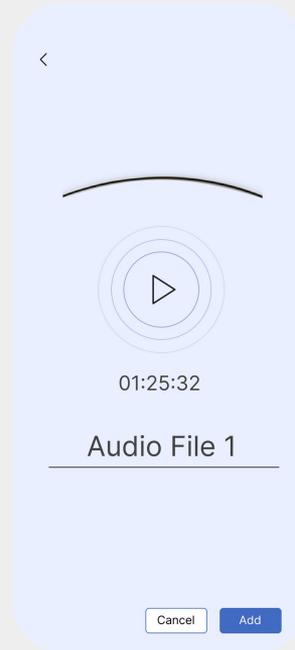
## Added a line under the default text

- This makes it clearer to the user that the text can be edited while still maintaining a clean aesthetic.
- **Aligns with our goal of flexibility:** Users are able to edit the names of their multimedia sources.

Before



After



## Issue 2

### H3: No ability to undo/cancel

Users are not able to cancel/undo actions that they do within the sparklette (such as organizing with AI).

# Revision

## Added a back and forward button

- This makes it easy for users to undo their actions within the sparklette.
- Aligns with our goal of flexibility: Users are able to easily go back and forth between their actions within the

Before



After



## Issue 3

### H3: Delete feature

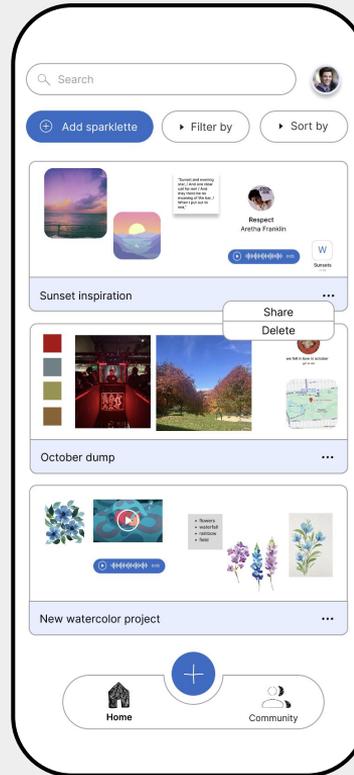
Doesn't allow users to delete Sparklettes they don't want to keep

# Revision

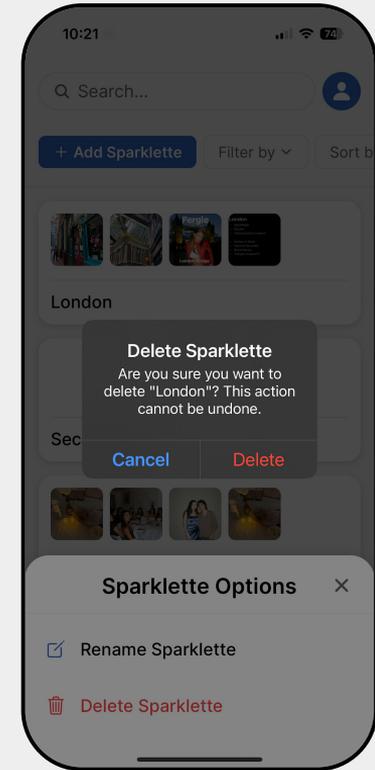
## Added a delete option in the sparklette

- Allow users to delete the sparklette and asks them to confirm their action.
- Aligns with our goal of flexibility: Users can decide what sparklettes they want to keep or not.

Before



After



## Issue 4

# H4: Inconsistent text when adding a inspiration source

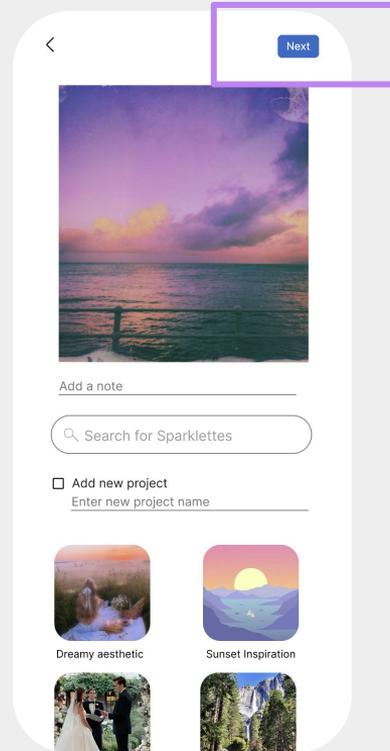
From within a sparklette, adding a photo uses "Next" to submit it, whereas other media forms use "Add" buttons to submit

# Revision

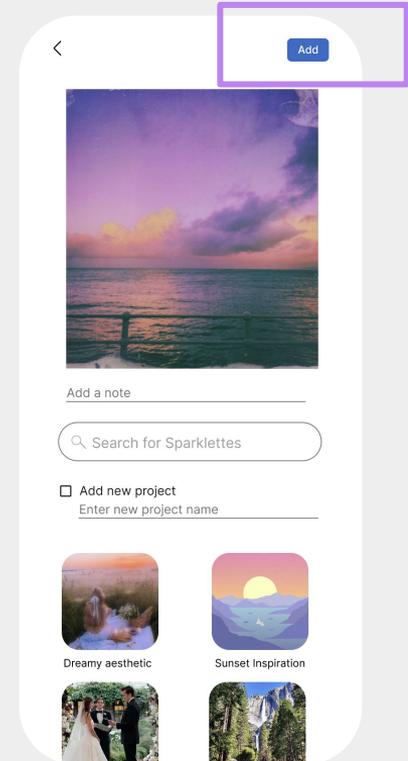
## Changed the “Next” and “Save” button to “Add”

- This makes the app more consistent and cohesive.
- Aligns with our goal of efficiency: Users can understand how to add an inspiration source without being confused at the difference in wording.

Before



After



# Revision

Before

A screenshot of a mobile app interface for the song 'The Fate of Ophelia' by Taylor Swift. The album cover is displayed. Below it is a waveform with a blue box around the first few seconds. There are two checkboxes: 'Save Lyrics' and 'Include Album Cover'. Below that is a search bar for 'Sparklettes' and an option to 'Add new project' with a text input field. At the bottom, two image thumbnails are visible. A purple box highlights the 'Save' button in the top right corner.

After

A screenshot of the same mobile app interface, but with the 'Add' button highlighted in a purple box. The 'Add new project' option is now checked, and the text input field contains the text 'Enter new project name'. The other elements remain the same.

Before

A screenshot of a mobile app interface for a 'Note'. The note text is: 'What is sometimes called a tongue of flame or an arm extended burning is only the long red and orange branch of a green maple'. Below the note is a search bar for 'Sparklettes' and an option to 'Add new project' with a text input field. At the bottom, four image thumbnails are visible. A purple box highlights the 'Save' button in the top right corner.

After

A screenshot of the same mobile app interface, but with the 'Add' button highlighted in a purple box. The 'Add new project' option is now checked, and the text input field contains the text 'Enter new project name'. The other elements remain the same.

## Issue 5

### **H4: Visual consistency in the community page**

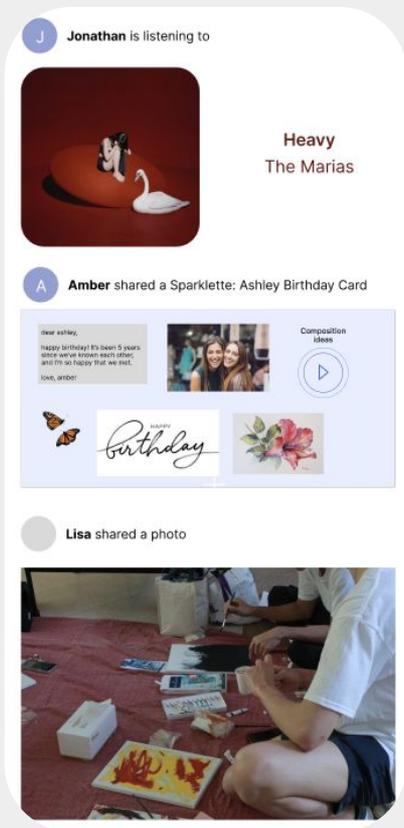
There is a lack of consistency between the different updates on the feed and it can be confusing to understand that all updates on the feed serve the same purpose.

# Revision

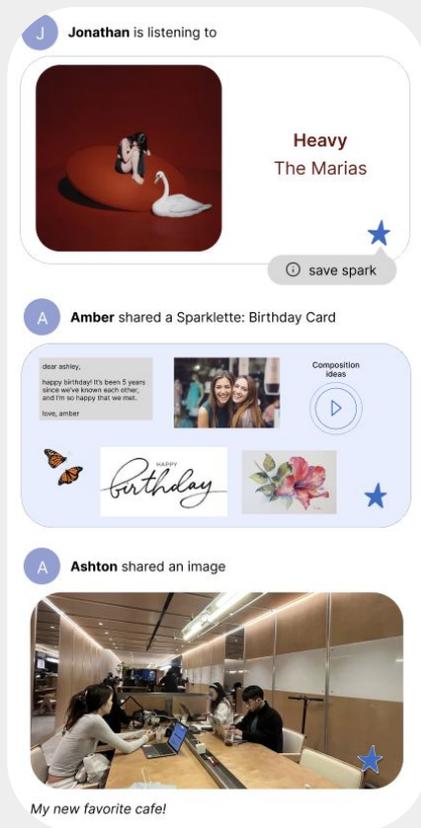
## Consistent rounded corners and visual cues across inputs

- This allows for clear recognition of a post made in the community as all types of media are bound by a rounded rectangle
- Improves aesthetic and recognition for users

Before



After



## Issue 6

# **H7: The add menu does not have all of the input options available + too many words**

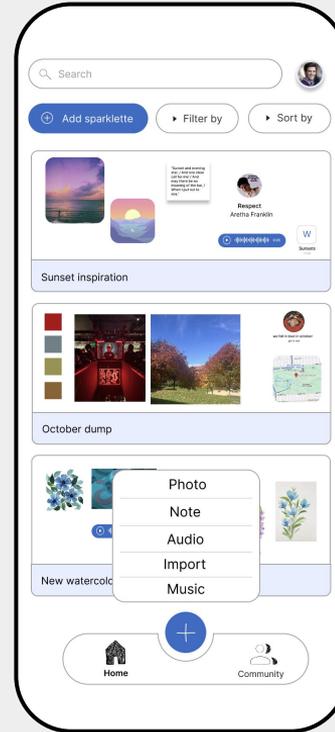
When clicking the add button, a menu with the input options appears, but it does not have all of the options that are provided in the app, and it is text heavy.

# Revision

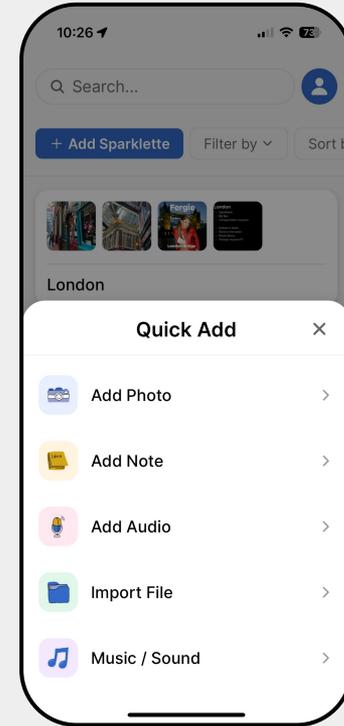
## Changed the overlay to display the icons and text.

- This is now consistent with all of the media options users can add to the app.
- It is also easier and quicker to see which input you want to add because of the visual cues (icons).
- **Aligns with our goal of efficiency:** Users are able easily and efficiently add their sources of inspiration.

Before



After



## Issue 7

# H7: Saving a public spark to your own Sparklette

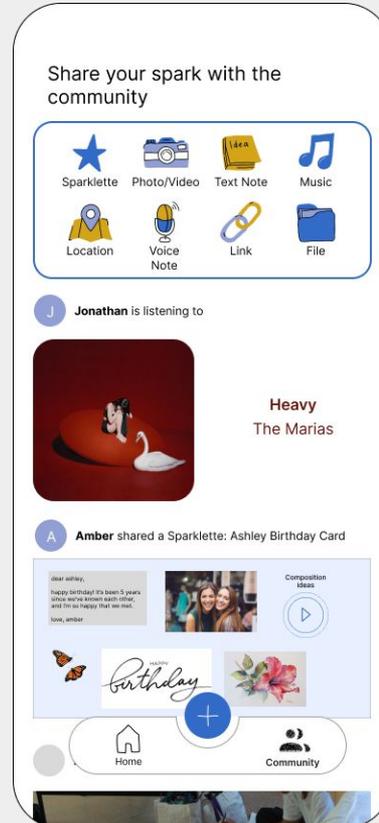
It's unclear how to save media from the community in a way that's more efficient than screenshotting/recording

# Revision

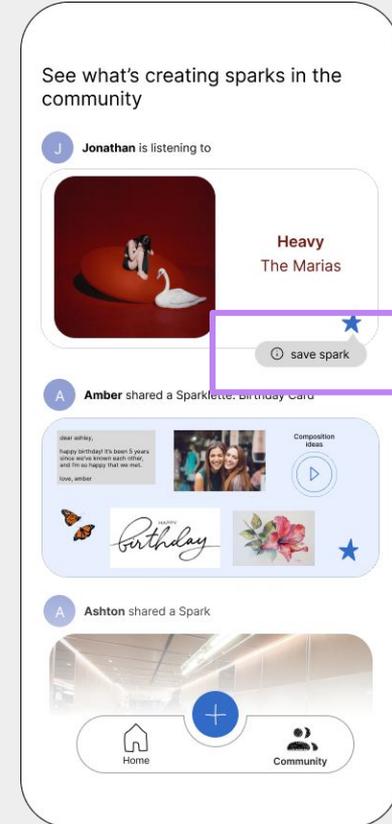
## Added a quick save spark button to the community page

- This introduces a quick way to save a spark to your own Sparklette in a few clicks
- Having a clear pop up for onboarding to show what the icon means, will allow for recognition over recall
- Aligns with our goal of efficiency: Users are able easily and efficiently save sparks from others.

Before



After



# Hi-Fi Prototype & Demonstration

# Tools / Frameworks

- **React Native + Expo** — main app development
- **React Navigation (Stack + Tabs)** — navigation between Home ↔ Sparklette
- **Supabase** — user auth, DB, image storage
- **Expo ImagePicker** — selecting/capturing photos
- **Animated + PanResponder** — for draggable Sparks

# Wizard of Oz / Hard Coded Items

## Wizard of Oz

- Notes and Music → actually photos
- Infinite scrolling canvas
- Suggested sparklette to upload to
- No AI-powered tagging or organization yet (randomized locations on sparklette)

## Hard-Coded

- Spark placement defaults near center with randomized offsets
- Spark sizing fixed at 160×160
- Note/Audio/File/Music “actions” hard-coded as placeholders

Justification: simulate complete user experience while postponing features that require more time or deep backend work

# Implemented Features

## Simple Task:

- Quick add menu
- Add photo to a sparklette
- Take photo or add from library
- Edit photo properties (name, size, delete)
- Scrolling Canvas
- Drag photos to organize

## General

- Supabase: auth, database, storage
- Login screen
- Error messages + placeholder screens for unimplemented features (“coming soon!”)

# Unimplemented Features

## Photo-flow polish

- Compression
- Loading indicator
- Edit details after upload

## Other spark types

- Note
- Audio
- Import file
- Music/sound

## Community page

- UI not built
- Will use hard-coded posts

## Navigation polish

- Better transitions
- Contextual Quick Add behavior
- Undo/Redo behavior

# Progress + Plans to Finish

## End of Break:

- Task 3
- All types of sparks
- Fully fleshed out sparklette

## Stretch Goals

- Onboarding
- Smart Sorting
- Faster data storage + retrieval

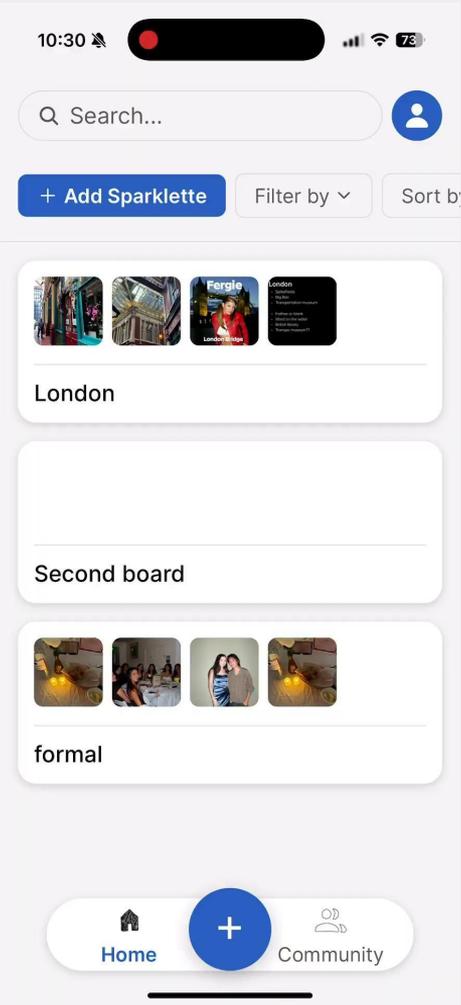
## Today:

- Login
- Task 1
- Add/delete sparklettes
- backend

## End of Week 10:

- Task 2 (Social)
- Fully Polished UI

# Demo Video



**Thank you!**

# Appendix

# Use of AI

## Code Assistance:

- Used AI to aid in complex React Native and Supabase implementation (draggable components, database structure).

## Visual & UI Help:

- AI helped refine layout ideas across platforms and ensure consistent styling based on our own custom style guide (no assets generated by AI).

## Why It Was Appropriate:

- Sped up boilerplate + debugging.
- Let us focus on core interaction + design decisions.
- All key UX + logic decisions were human-driven.

## **Additional Issue 1**

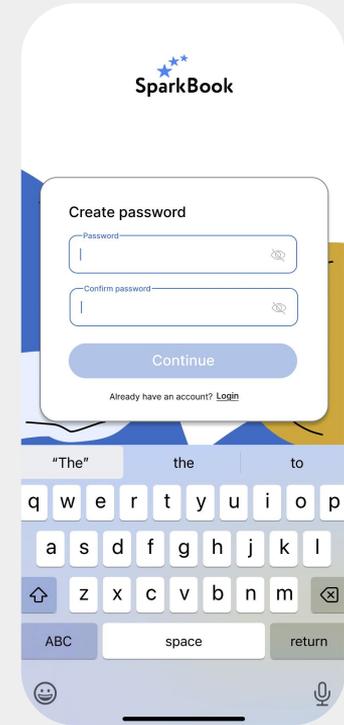
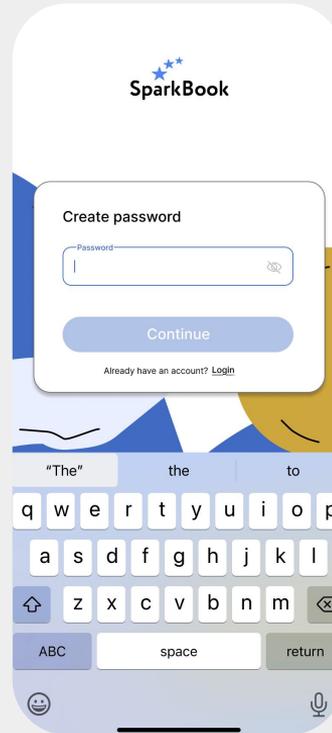
### **H5: Users can only type in their password once**

When creating an account, users only have to type password once, providing a potential for error

# Revision

## Added a confirm password section

- This avoids the issue of users mistyping their password.



## Additional Issue 2

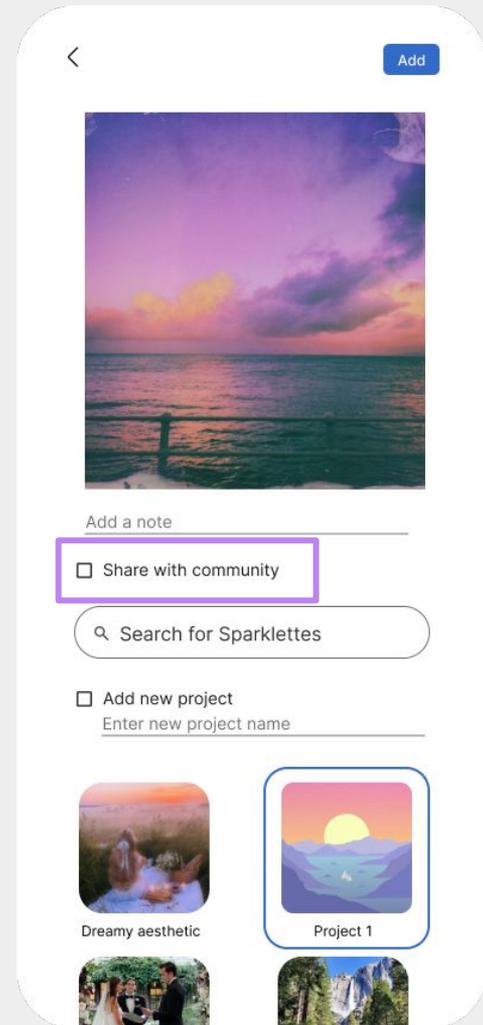
### **H5: Can't cancel or delete upload**

Doesn't allow users to cancel or delete uploads when they're sharing to community

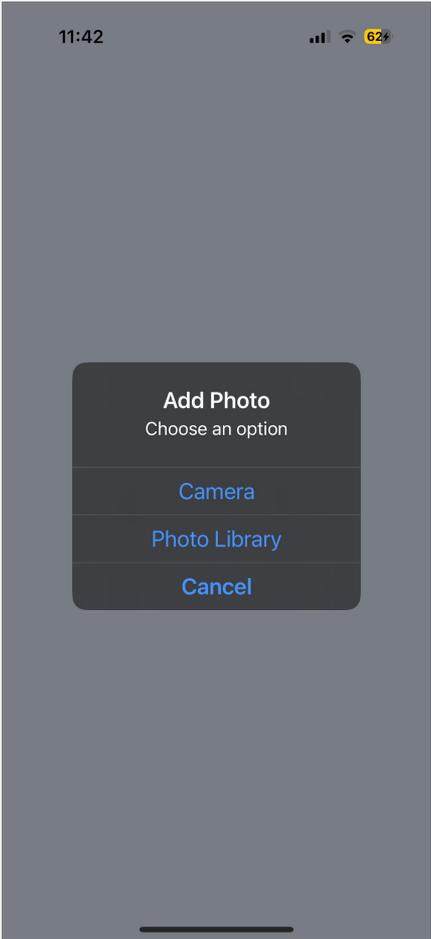
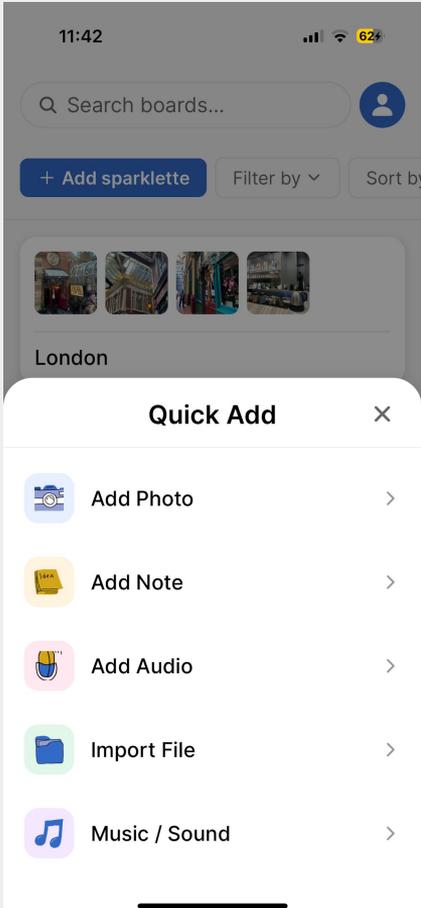
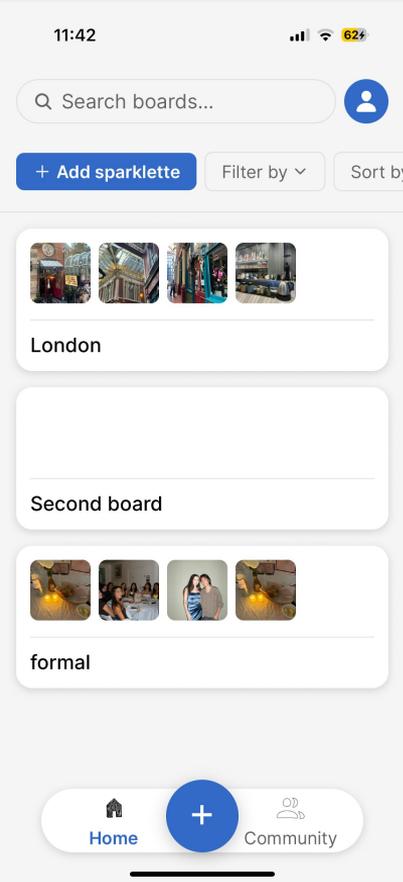
# Revision

## Upon entering the settings of each spark, one can edit the share with community status

- This allows users to go back to sparks and more efficiently share with the community
- **Aligns with our goal of efficiency:** Users are able easily and efficiently share their sources of inspiration.
- **Aligns with our goal of flexibility:** Users can edit the public status at anytime.



# Simple Task → Adding an Image



11:42



# Add Photo



### Photo Name

Sunset

### Select Board

London

Second board

formal

Add to Board

11:43



# London ✨

  
Uploading photo...



11:43



# London

