



Assignment 8

Hi-Fi

Team Gloo

Prototype



Presentation Outline

01

Introduction

02

Heuristic Evaluation

03

Major Revisions

04

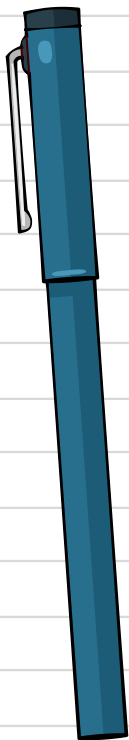
Prototype Status

05

Prototype Demo

06

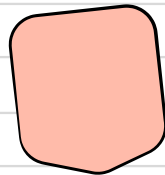
Appendix

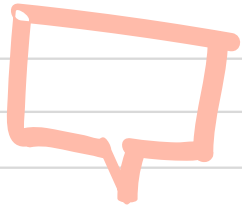


Introduction

Meet the Team, Value Proposition,
Problem + Solution Overview

01





Our Team



**Justin
Blumencranz**



**Monica
Hicks**



**Matthew
Mattei**



**Alison
Rogers**





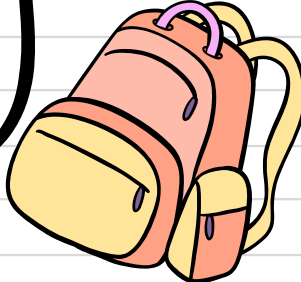

Gloo

**Making student-teacher
connections that stick!**



Problem

Especially in larger schools, students feel **daunted** by, and **disconnected** from, the college application process while teachers have a hard time **connecting** with students and being able to **advocate** for them.

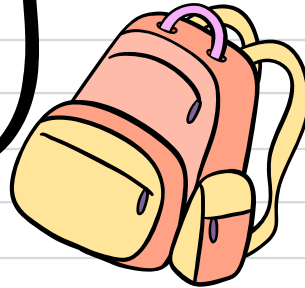


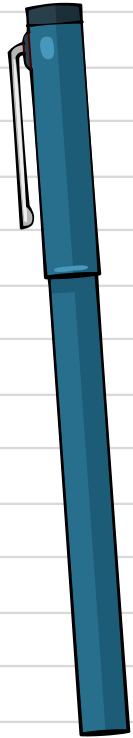


Solution

A platform for **high school students** and **teachers** who feel disconnected due to the large size of their school to easily **schedule times** to meet and **connect** with each other.

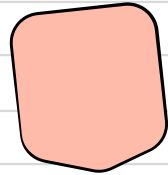
Gloo includes a **journaling interface** to help both students and teachers remember and **reflect on their interactions** for future reference and an AI algorithm based on interests and student journals to help create **personalized teacher recommendations** for students.





Heuristic Evaluation 02

Violation Breakdown + Change
Justification



High-Level Heuristic

Total Violations: 65

Heuristic Violation By Category

H12. Value Alignment & Inclusi...

7,9%

H11: Accessible Design

4,8%

H10: Help & Documentation

4,8%

Most Common Violations



User Control + Freedom



Visibility of System



Consistency + Standards

H6: Recognition not Recall

7,9%

H5: Error Prevention

9,5%

H1: Visibility of System Status

14,3%

H2: Match b/w System & World

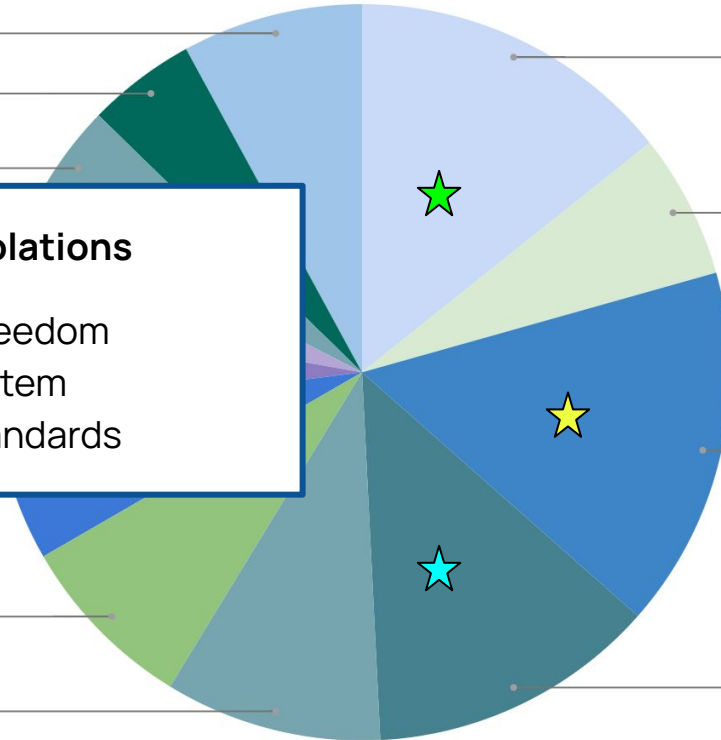
6,3%

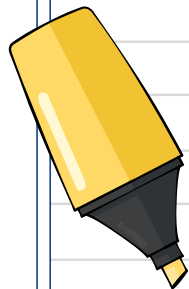
H3: User Control & Freedom

15,9%

H4: Consistency & Standards

12,7%





Heuristic Breakdown by Category + Severity

	H1	H2	H3	H4	H5	H6	H7	H12	Total
Sev 0	0	1	2	3	2	1	1	2	12
Sev 1	2	1	2	3	1	2	1	3	17
Sev 2	5	1	4	1	2	1	1	0	22
Sev 3	2	1	2	1	2	0	1	0	11
Sev 4	0	0	0	0	1	1	0	0	3

* Full table in appendix



Planned Revisions



Provide error warnings when abandoning tasks
Sev: 4 (rows: 12)

Avoid abbreviations (“D” for day, “OH” for Office Hours”)
Sev: 4, 3 (row: 13, 22)

Provide higher contrast between tentative and registered OH
Sev: 4 (row: 14)

Add “Filter” or “Sort” to drop down menu
Sev: 3 (row: 19)



*row elements sorted by severity





Planned Revisions



Display current student name when drafting journal entry

Sev: 3 (row: 20)

Include formatting and AM/PM for calendar times

Sev: 3, 2 (row: 21, 33)

Swipe to delete journal entries

Sev: 3 (row: 23)

Provide onboarding popups

Sev: 3 (row: 18)

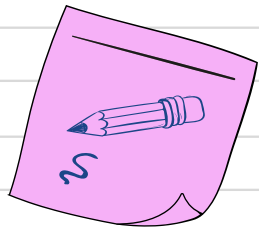
Provide alternate content viewing for calendar

Sev: 3 (row: 25)

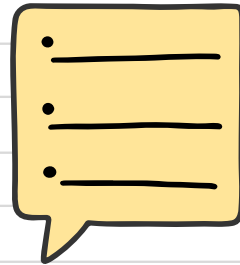


*row elements sorted by severity





Unincorporated Revisions



Already exists

Tooltip for password
Sev: 3 (row: 15)

Posting every available OH greyed out on the calendar
Sev: 3 (rows: 16)

Overcrowding

Hiding your own OH + undo-delete Office Hours

Bad visibility

Sev: 3 (row: 17)

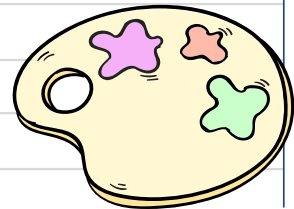
Not standard

Change "Recent" to "Recent Journal Entries"

Sev: 3 (row: 24)

Labeled above

*row elements sorted by severity



Revision Summary

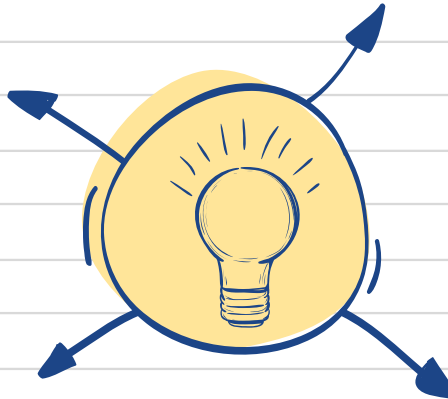
Incorporated: 20
Unincorporated: 8
If Time: 25

Severity 4

Incorporated: 3
Unincorporated: 0
If Time: 0

Severity 2

Incorporated: 7
Unincorporated: 3
If Time: 12



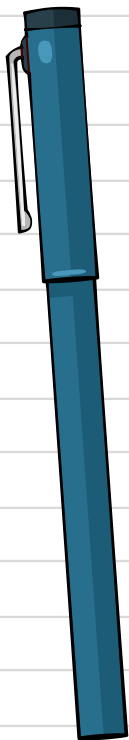
Severity 3

Incorporated: 6
Unincorporated: 4
If Time: 1

Severity 1

Incorporated: 4
Unincorporated: 1
If Time: 12

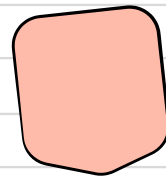




Major Revisions

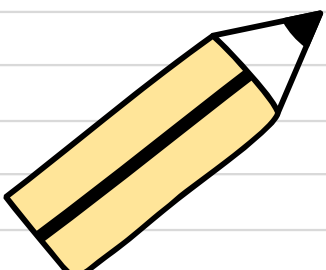
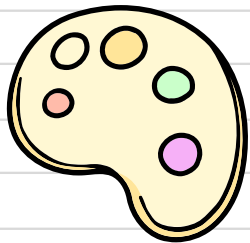
Before + After, Rationale, Progress
Towards Usability Goals

03



Office Hours Entry Page

Revisions



← Add Office Hours

Date
11-25-2024

Time
→

Location
[Text Field]

Recurring...
N/A D W M

Max Students
[Text Field]

Description
(optional, max 240 char)
Type here

Post

← Add Office Hours

Date
11-25-2024

Time
HH : MM AM → HH : MM AM

Location
[Text Field]

Recurring...
☐ Daily ☐ Monthly
☐ Weekly ☐ None

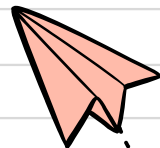
Max Students
[Text Field]

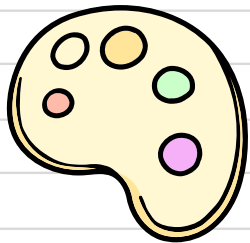
Description
(optional, max 240 char)
Type here

Post

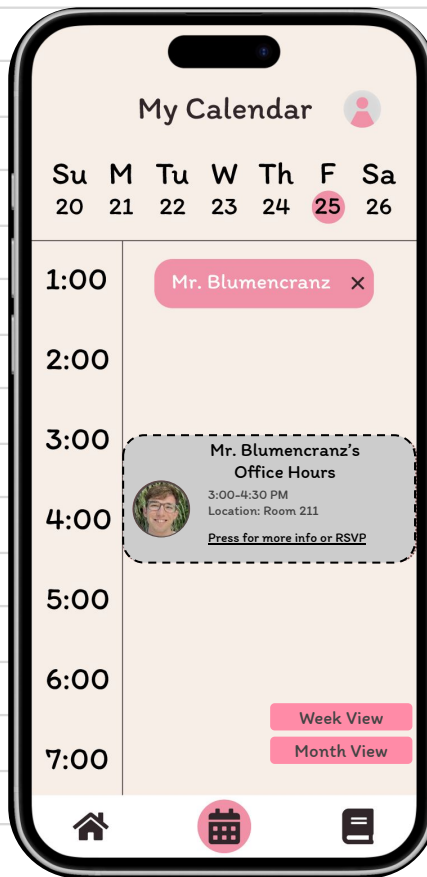
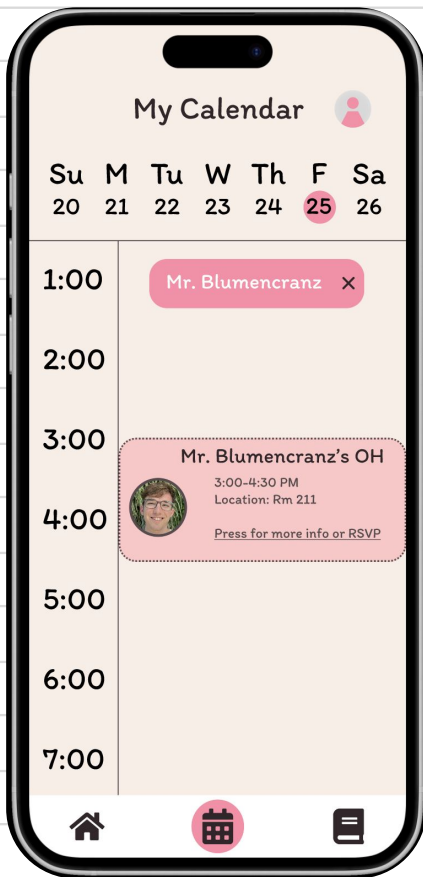
Added HH:MM
and AM/PM

Remove
abbreviations



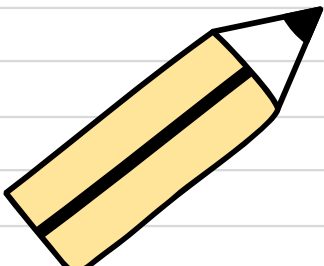


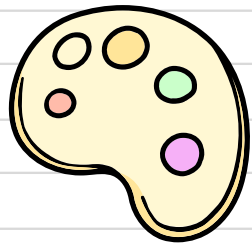
Calendar Page Revisions



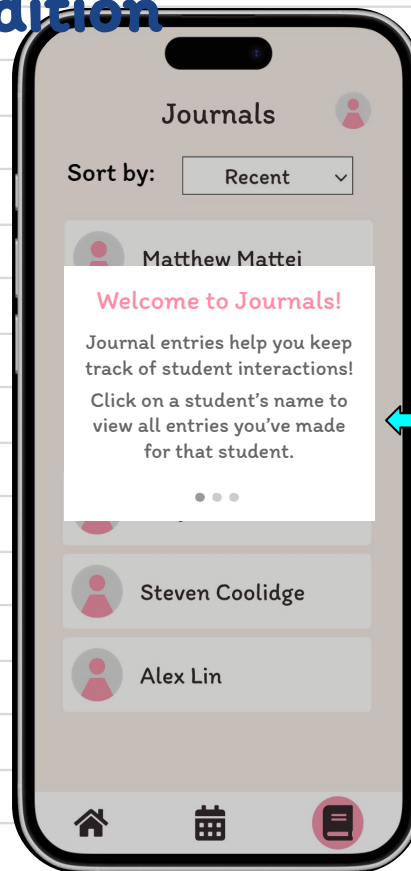
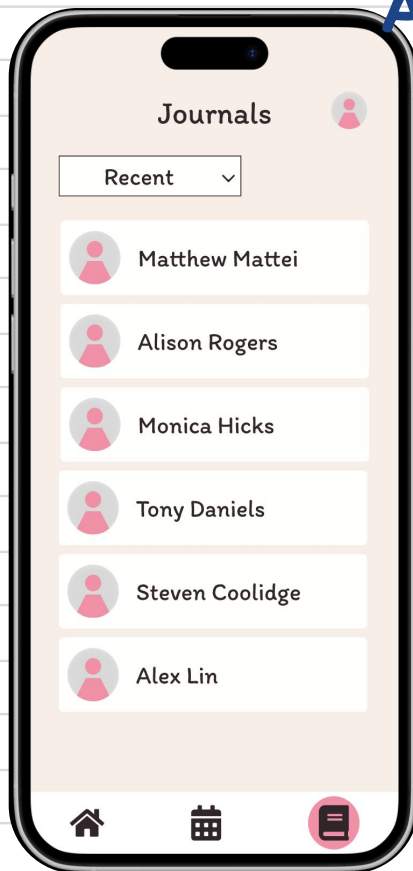
Grey background
OH → Office Hours

Toggle calendar
view

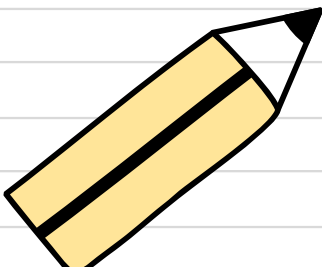
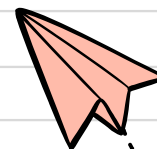


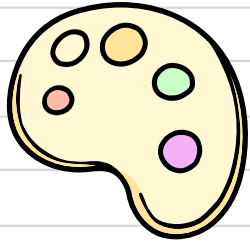


Journal Home Page Pop-up Addition

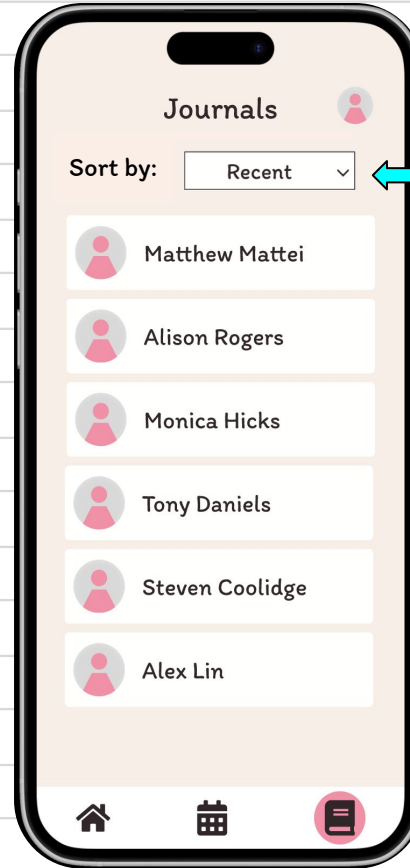
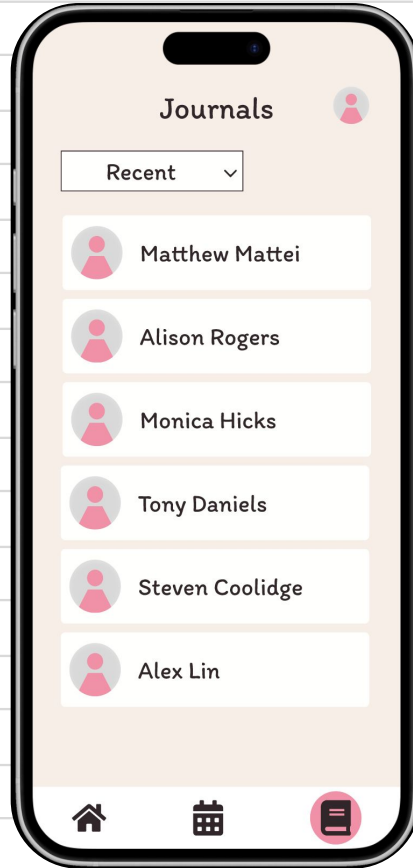


Onboarding
pop-up window

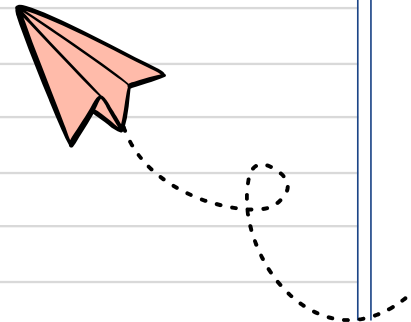


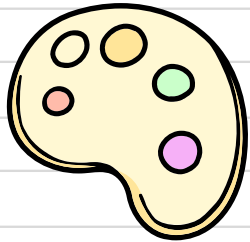


Journal Home Page Revisions



Added "Sort by:"





Journal Entry Page Revisions



Journal Entry

Date
11-25-2024

Memories
Super cool memories that are redefining the way I think about life, liberty, and the pursuit of happiness.

Save

Journal Entry
Matthew Mattei

Date
11-25-2024

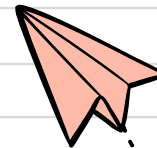
Are you sure you want to abandon this journal entry?

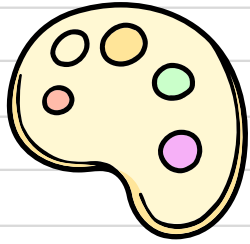
Discard Save

Save

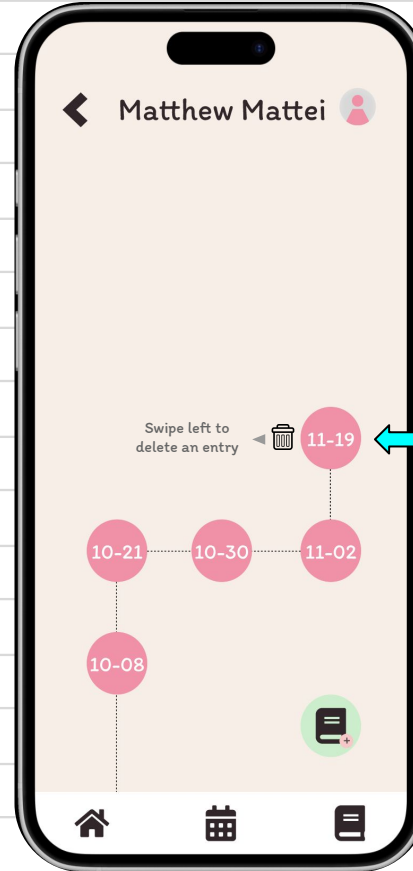
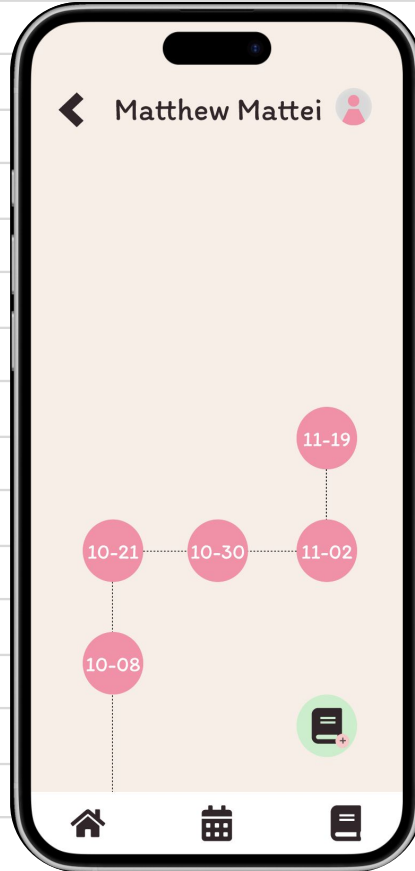
Add student name to journal entry form

Add notification for journal entry abandonment

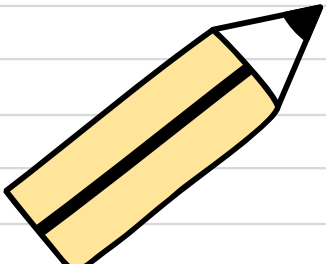
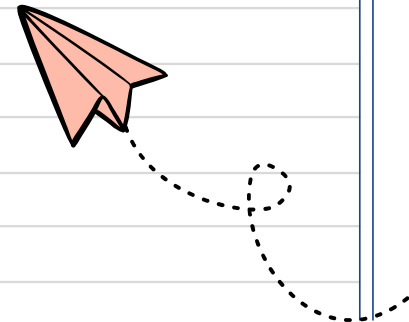


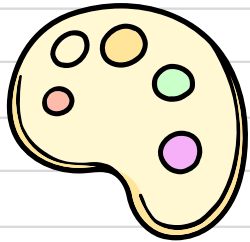


Student Journey Page Revisions

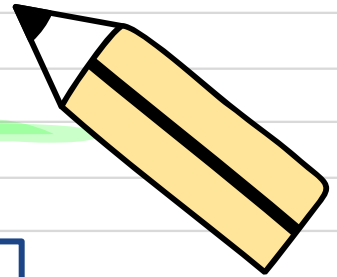


Swipe to delete
journal entry

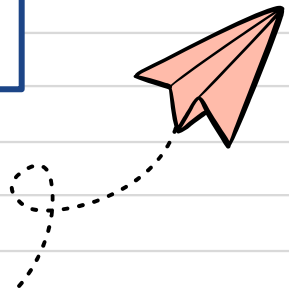
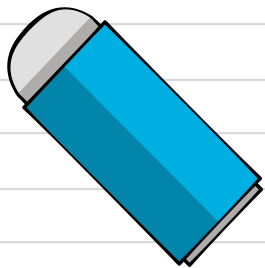


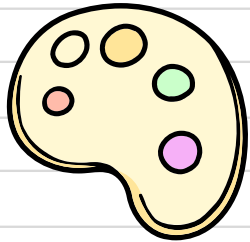


Progress Towards Usability Goals

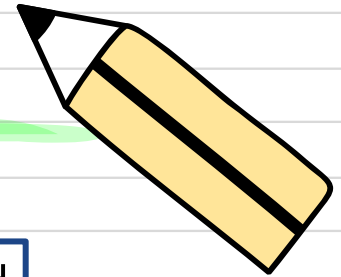


We made progress towards our goal of having a **navigable** app by adding **onboarding pop-up windows** and incorporating **large, clickable navigation tools** such as switching between calendar views or swiping to delete journal entries.

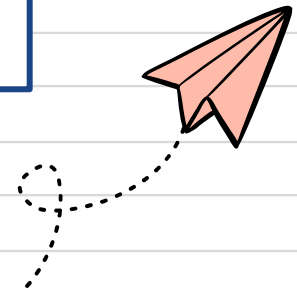
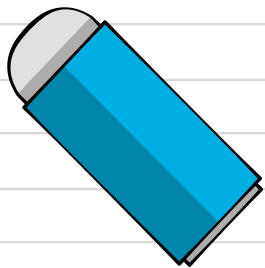


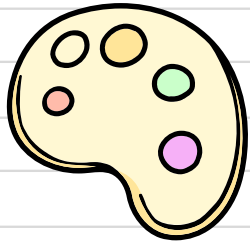


Progress Towards Usability Goals

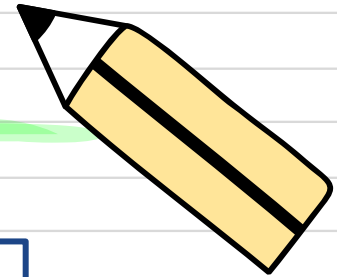


To improve **accessibility**, we incorporated **higher-contrast elements** on the calendar, and we added **recognition-over-recall context aids** such as including the student name on the journal entry page to reduce cognitive load.

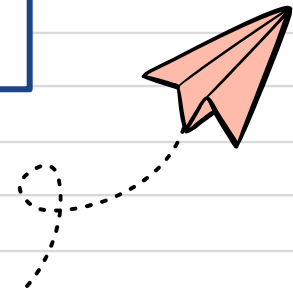
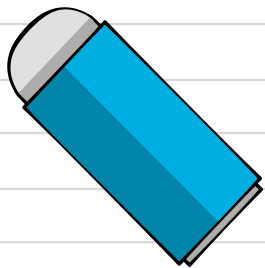


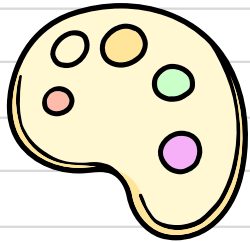


Progress Towards Usability Goals

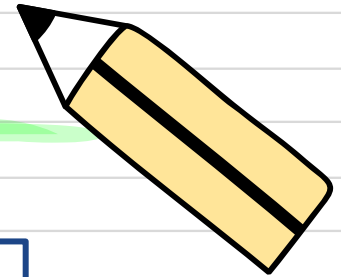


To uphold our core design value of **safety**, we **decided against** allowing users to create a profile without a picture, and we **opted out** of allowing teachers to view the status of student's recent journal history.

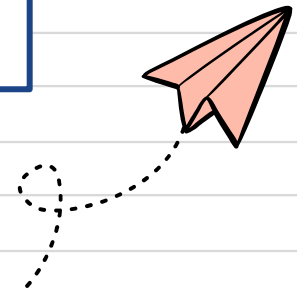
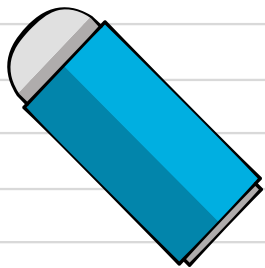


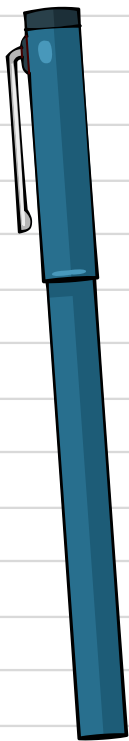


Progress Towards Usability Goals



For **transparency**, we will incorporate suggestions made in other areas such as **pop-up onboarding windows** that educate users on our ethical and privacy-focused AI use, even though these suggestions weren't explicitly given for our med-fi prototype.

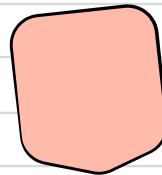




Prototype Status

Implementation Details, Plans for
Finishing

04

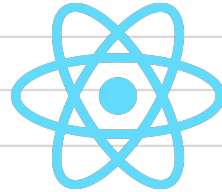




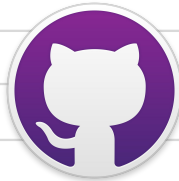
Framework and Tools Used



React Native
App development



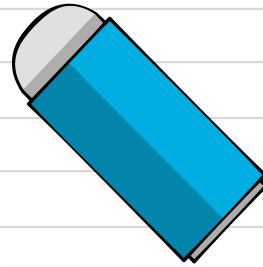
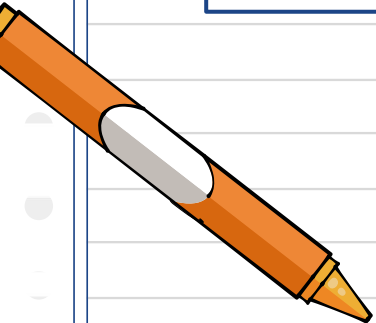
GitHub
Version control and
collaboration



Expo
App simulation and
testing



Supabase
Database
management



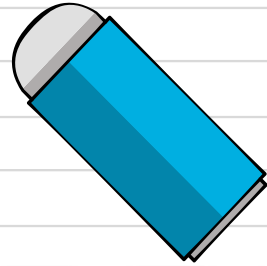
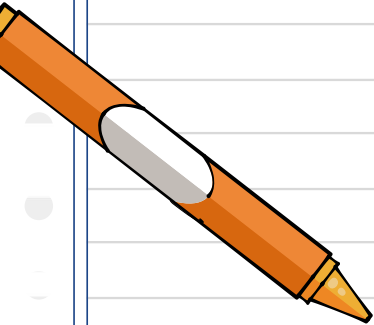


Implemented Features



Sharing interests, bio, and photo

User will begin account creation by enter their interests, type up a short bio, and upload a profile picture.





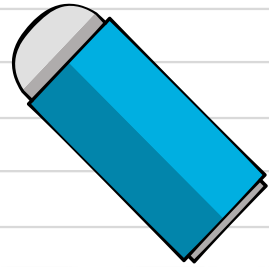
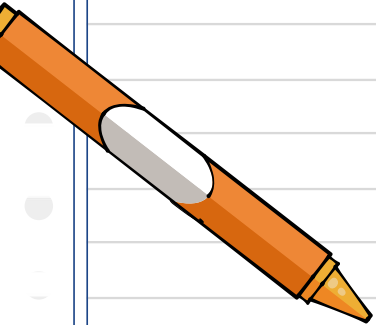
Unimplemented Features



Create and Share Office Hours

Connect with a Teacher

Record Meeting Notes



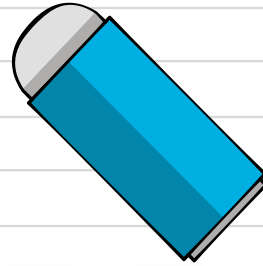
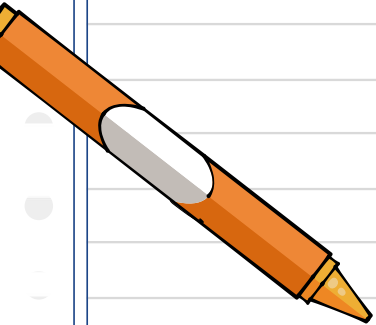
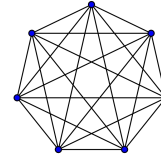


Wizard of Oz Features



Recommendations

AI Insights Page

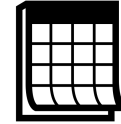




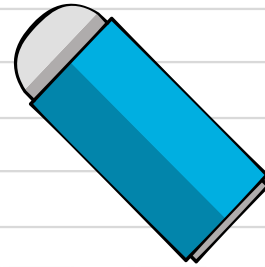
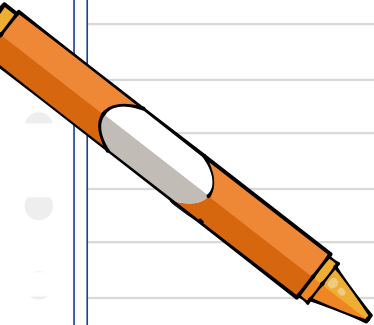
Hard-Coded Features



View OH on Calendar in Student View



View Recent Journal Entries Teacher View

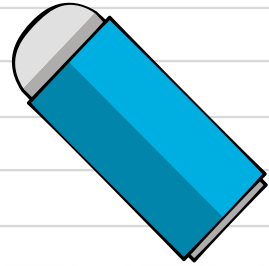
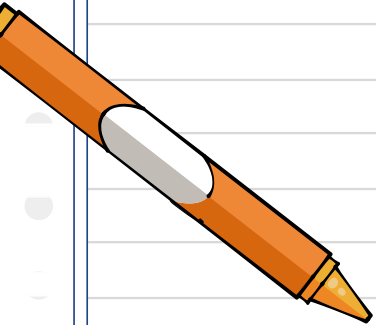


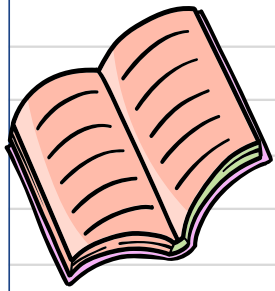


Issues and Questions

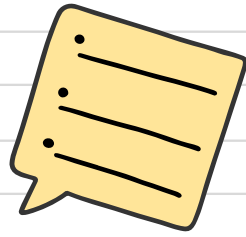


Our main conceptual hurdle right now is ironing out the details of our **database**, like session and persistent image storage.





Plans to Finish

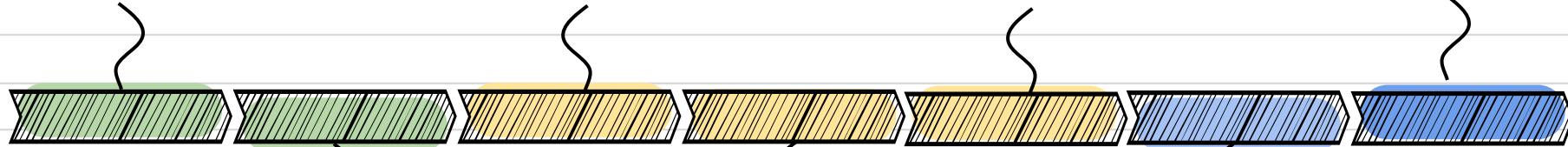


Set up
framework and
database

Implement
Create + Share
Office Hours

Implement
Record Meeting
Notes

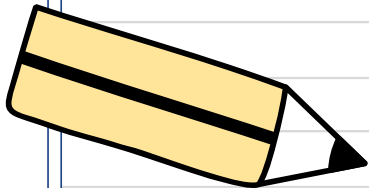
Revisit level 1-2
HE violations

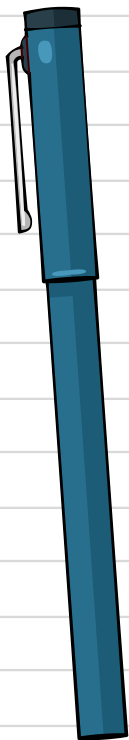


Implement first
task

Implement
Connect with a
Teacher

Refine AI
Insights page

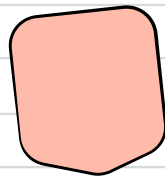


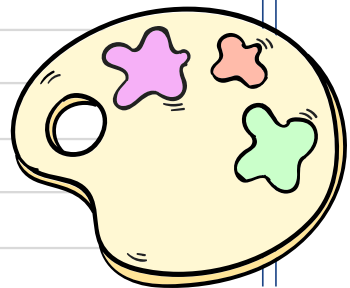
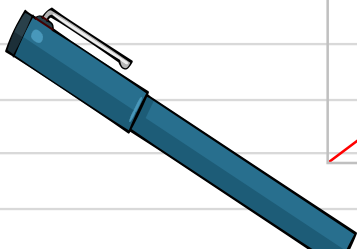
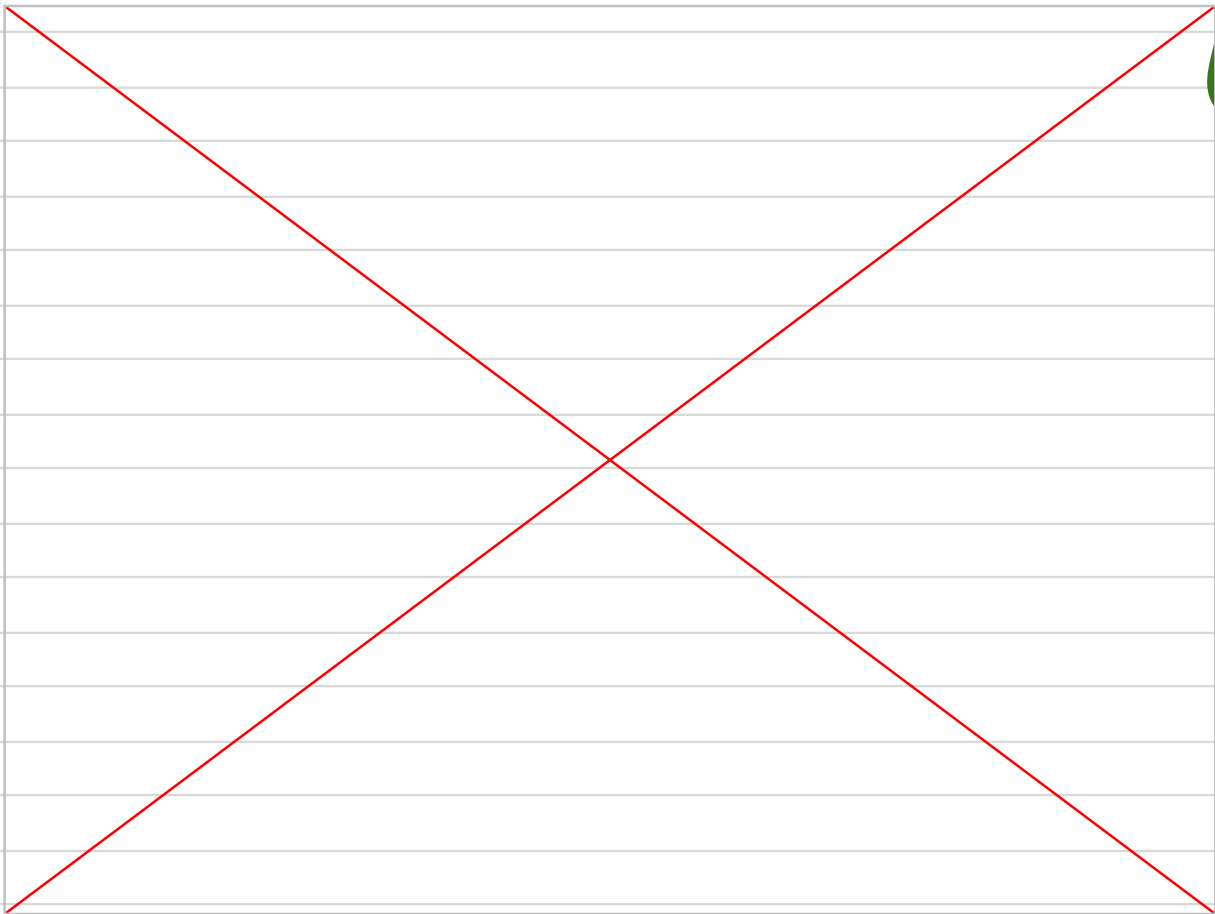
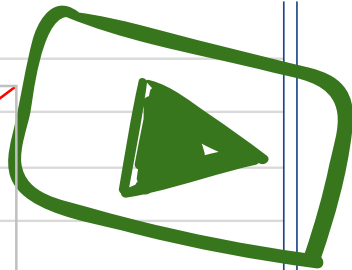
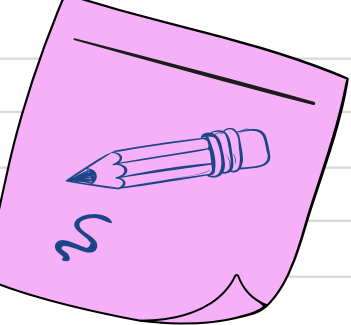


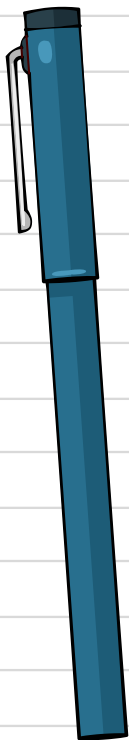
Prototype Demo

See Gloo in action!

05



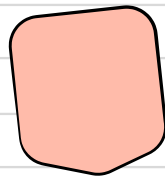


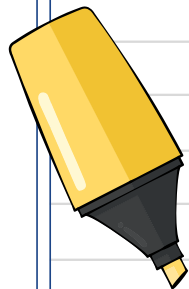


Appendix

All the good stuff that didn't fit in
the presentation.

06





Heuristic Breakdown by Category + Severity

	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	H11	H12	Total
Sev 0	0	1	2	3	2	1	1	0	0	0	0	2	12
Sev 1	2	1	2	3	1	2	1	2	0	0	0	3	17
Sev 2	5	1	4	1	2	1	1	1	2	1	3	0	22
Sev 3	2	1	2	1	2	0	1	0	0	2	0	0	11
Sev 4	0	0	0	0	1	1	0	0	1	0	0	0	3



Planned Revisions



Disable `+` once max interests entered
Sev: 2 (row: 28)

Inline error messages for data entry
Sev: 2 (row: 29)

Include prefix selection for teacher profile
Sev: 2 (row: 30)

Alternate search options for journal entries
Sev: 2 (row: 31)

Consistency in language to "Add"/"Create" OH
Sev: 2 (row: 32)

Decrease OH capacity after registration
Sev: 2 (row: 35)



*row elements sorted by severity





Planned Revisions



Increasing button surface area

Sev: 1 (row: 50)

Add text to OH listing confirming RSVP

Sev: 1 (row: 51)

Change “Meeting” to be more descriptive

Sev: 1 (row: 52)

Allow teachers to reset/clear-all for OH entry

Sev: 1 (row: 53)

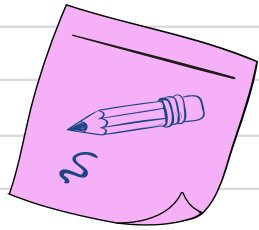
Warn students of booking conflicts

Sev: 0 (row: 76)

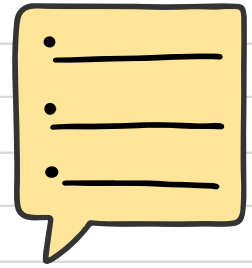


*row elements sorted by severity





Unincorporated Revisions



Make profile without picture + interests

Sev: 2 (row: 26)

Unread journals

Sev: 2 (row: 27)

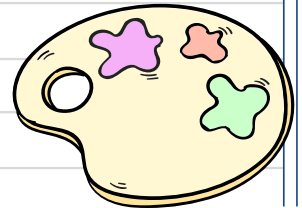
Linear journey path

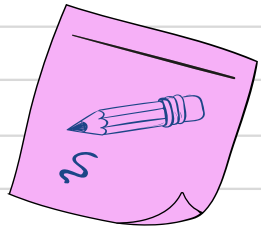
Sev: 2 (row: 43)

Autofilling interests (pre-defined)

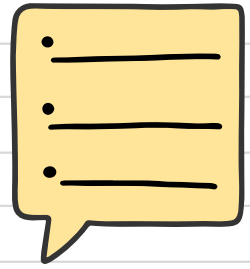
Sev: 1 (row: 48)

*row elements sorted by severity





Severity 0 Violations



- Sort student entries by teachers (journaling should be therapy-like for students)
- Add numbers to progress bar for profile creation (too busy)
- Add minimum to interests (handled with error message)
- Back buttons not fully functional (med-fi limitation)
- Allow students to RSVP for recurring (potential capacity concerns)
- List current/former students (some students may not be students of that teacher)
- Use “notes” instead of “journal” (want recording interactions to feel less academic)
- Style suggestions

* Most sev-0 not incorporated

