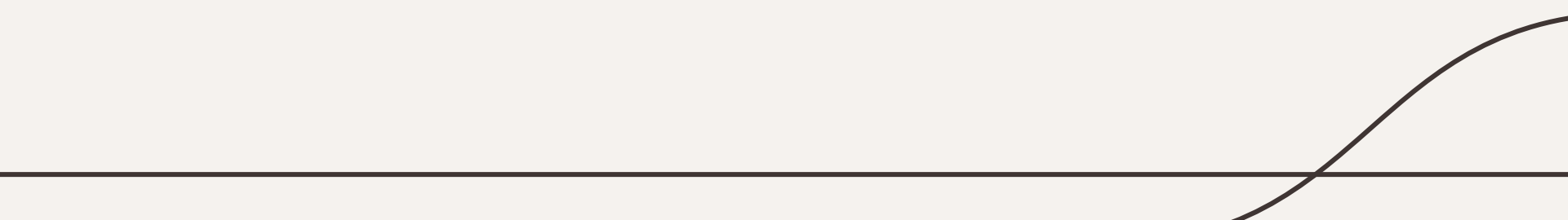




A8: kin

Team 3 – Jack Clark, Shuvi Jha, Jasmine Narine, Steven Pu



The team



Jack Clark

MS CS (HCI)
BS MS&E



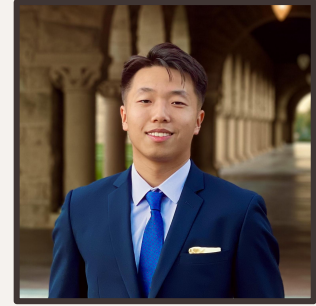
Shuvi Jha

CS (HCI); Feminist, Gender,
& Sexuality Studies
Senior



Jasmine Narine

SYMSYS (HCI)
Senior



Steven Pu

SYMSYS (HCI)
Senior

kin

“Weave your family story
one thread at a time”

Value Proposition

“kin seeks to make the uncovering of family stories inviting by initiating daily, bite-sized conversations that facilitate and chronicle our familial connections”

Problem and Solution

Problem

It can be difficult for people to learn, share, discuss, and preserve family stories in a way that feels engaging and rewarding, especially across generations – specifically, young people and the elderly.

Solution

A tool focused on helping family members share memories through prompts and collaboration. Users can engage with prompts, read family prompts, and add their own prompts to the system to facilitate family interactions and preserve memories.

Presentation Outline

01

HE Results

02

Revised Design

03

Prototype
Implementation



01

HE Results



HE Statistics

- **Total Violations: 57**

- Severity 1: 22 violations
- Severity 2: 24 violations
- Severity 3: 10 violations
- Severity 4: 1 violation

- **Task 1 [Responding to a Prompt]: 36 violations**

- Severity 1: 11 violations
- Severity 2: 15 violations
- Severity 3: 7 violations
- Severity 4: 1 violation

- **Task 2 [Responding to Family]: 14 violations**

- Severity 1: 7 violations
- Severity 2: 5 violations
- Severity 3: 2 violations
- Severity 4: 0 violations

- **Task 3 [Submitting Prompt]: 7 violations**

- Severity 1: 4 violations
- Severity 2: 4 violations
- Severity 3: 1 violation
- Severity 4: 0 violations

HE Summary

- **Design & User Interface**
 - Design emphasis on simplicity makes tasks easy to understand
 - Audience-friendly design elements like appropriately sized text and icons
 - Aesthetically pleasing with use of monochromatic color scheme
 - **Usability & Functionality**
 - App needs clearer ways to distinguish between user and family members' responses
 - “Propose a Prompt” task is confusing
 - **User Experience Enhancement**
 - Suggestions include adding visible word limit, making icons easier to understand, providing clear error messages
 - **Communication & Community Building**
 - Need for better communication of app's mission of connecting family members, suggested through addition of an intro page or banner on home screen
-

HE Changes We Addressed

- We prioritized all 11 Severity 3 and 4 Violations in our revised design. Major violations of focus include:
 - **User Control & Clarity Issues:** Users may struggle with limited editing options and confusing tasks, such as recognizing logos and understanding prompt instructions.
 - **Accessibility & Interface Consistency Concerns:** Visually-impaired users may face difficulties with disappearing messages, and the app shows inconsistent responses to user actions.
 - **Major Error Prevention Issues:** A major design issue caused confusion by displaying all response formats in a single box, leading to potential errors in user input.
 - Many of the Severity 1 and 2 violations were cosmetic & quick to fix, focusing on standardizing terminology & aesthetic.
-

HE Changes We Didn't Address

- Our evaluators stressed for the need to better communicate the app's mission of connecting family members. We received the following, non-HE-related suggestions:
 - **Intro Page for Value Proposition:** Creating an introductory page to detail Kin's mission of connecting family members.
 - **Banner on Home Screen:** Adding a banner on the home screen to emphasize Kin's values of connecting generations.
 - We won't be addressing these changes in the next iteration of our design because we want to prioritize critical usability requirements first, especially within our limited time and current project scope.
 - We are more interested on focusing on immediate needs as indicated by our evaluators.
-



02

Revised Design

Tasks - No major structural changes

Simple: Answer a prompt

The biggest card on the home page immediately prompts the user and is clickable, allowing them to answer. Answer options are text, photo, file, or Spotify attachment.

Moderate: Reply to an answer

The second-biggest section on the home page allows a user to expand other answers and reply to them. Reply options are text, audio, or “likes”

Complex: Submit your own prompt

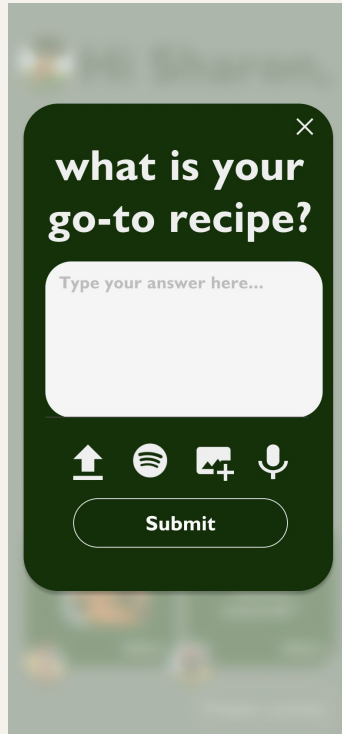
Relatively small and in the bottom right of the home page is the “Propose a prompt” button. This page allows the user to submit their own prompt that has the potential to be asked in the future.

Recall: Our usability goals

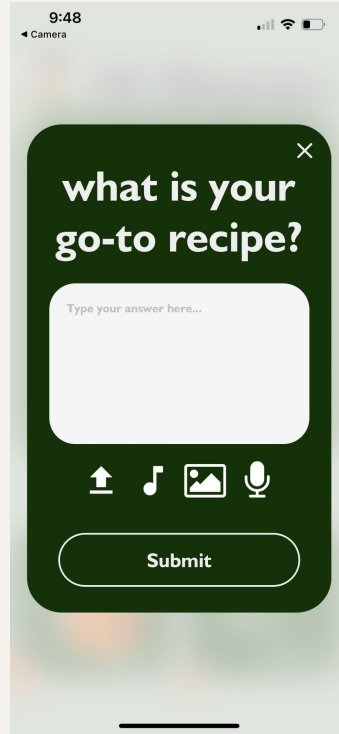
**Goal #1:
Efficiency**

**Goal #2:
Robustness**

Change #1: Icons



before



after

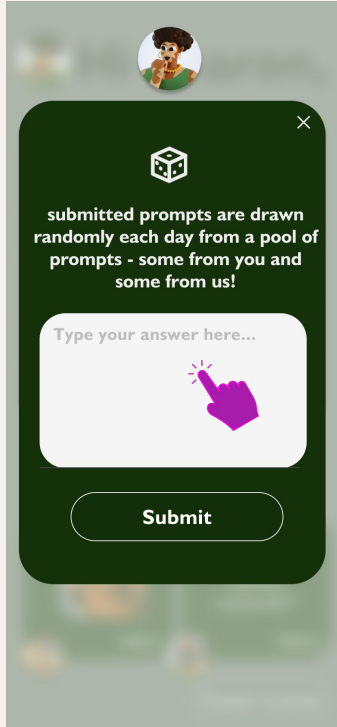
Why?

- Spotify is too brand-specific
- Want to be as inclusive as possible
 - Prevent alienation of users

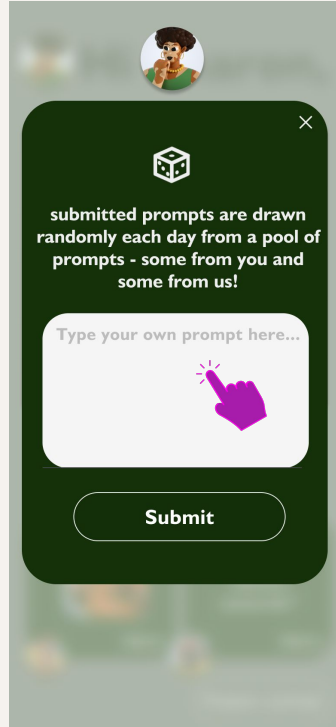
Usability Goal?

- **Robustness**
 - Reduce error rates for non-Spotify users

Change #2: Submitting Prompt Wording - TBI



before



after

Why?

- Felt confusing to refer to original prompt as an “answer” - no question asked

Usability Goal?

- **Robustness**
 - Reduce user confusion about submission of prompt

Change #3: Edit/Delete Comments - TBI



before



after

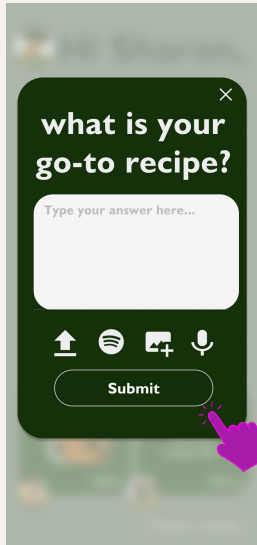
Why?

- Ensure user freedom
 - Users have full autonomy over responses, even after submission

Usability Goal?

- **Robustness**
 - Allow user to recover if they made an error in their comments

Change #4: Submit



before



after

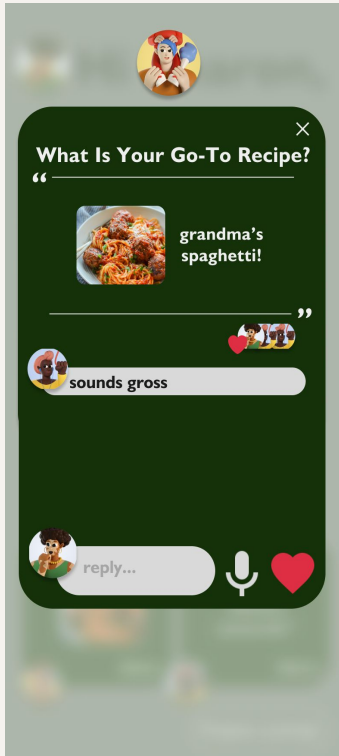
Why?

- Confusing -> might make users believe they can submit more than one response
 - Not the case

Usability Goal?

- **Robustness**
 - Prevent users from making the error of pressing the submit >1 time

Change #5: Submit Multiple Comments - TBI



before



after

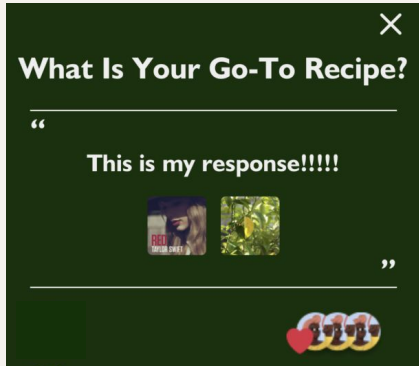
Why?

- User Freedom
 - Not limit users to express thoughts in 1 comment submission

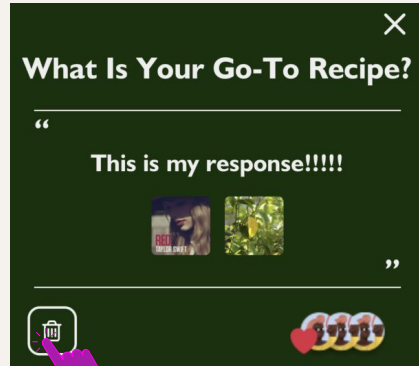
Usability Goal?

- Efficiency
 - Users can quickly add as many comments as they'd like

Change #6: Modify upload



before



after

Why?

- User Freedom
 - Users can change their mind
- Error Handling
 - Users can correct mistakes in their answer

Usability Goal?

- **Robustness**
 - Reducing error rates and providing user flexibility

Heuristic violations we ignored

Allow multiple uploads from the same media type

Harmful because too many uploads would clutter the otherwise simple interface. Four total attachments (file, song, photo, audio) as a maximum is plenty.

Allow users to go see prompts they have submitted

Ruins the lottery type feel of the submission system - ideally, we want users to be pleasantly surprised when they open the app and see a prompt they've previously submitted

03

**Prototype
Implementation**

Tools Used

Figma

We used Figma to design our components and to act as a model when we coded.

GitHub

We have a central repository where we push our individual updates to. This makes it easier for us to track changes.

VSCode

VSCode allows us to produce code files and debug errors from Expo.

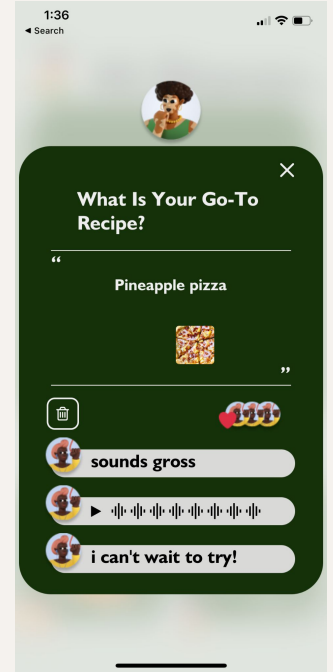
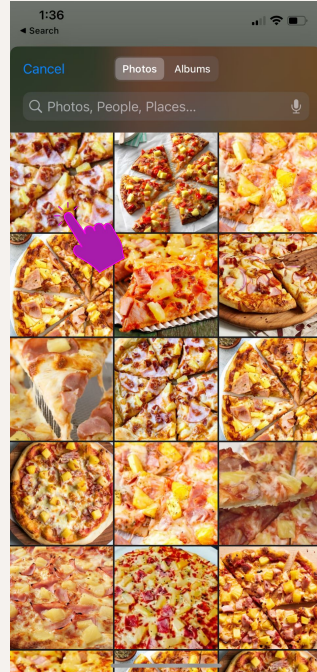
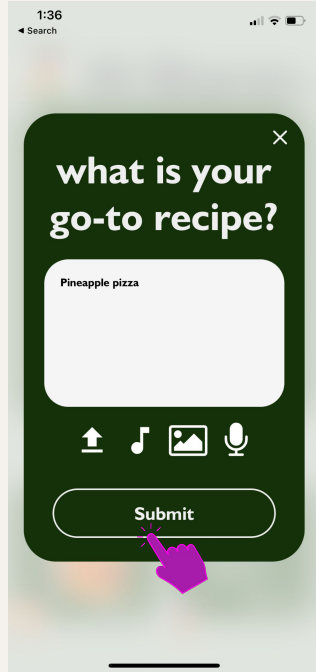
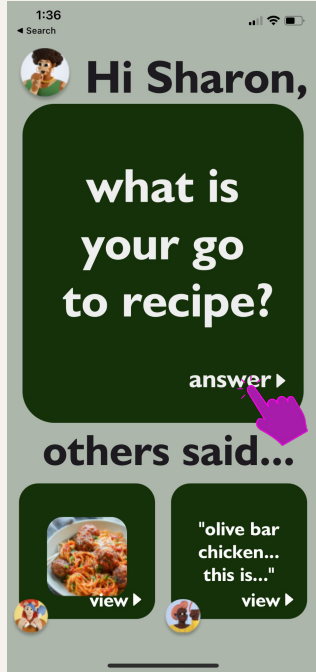
React Native

This is our application framework.

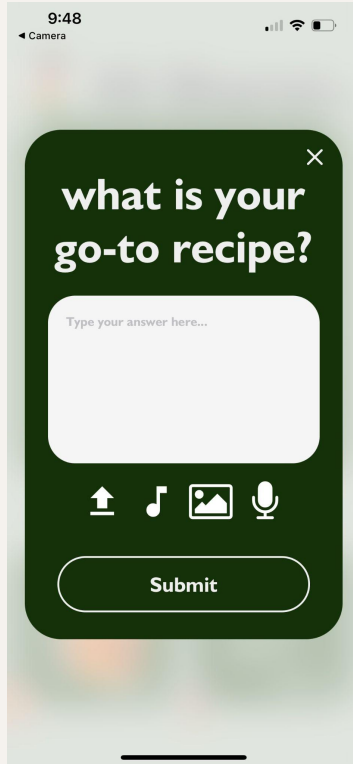
Expo

Expo allows us to visualize and realize our app in real-time.

Task 1 Visual Flow



We Implemented Task 1



Functionality

NEW: Users can attach any combination of 5 different forms of media: text, file, music, photo, audio.

NEW: Users can search files and photos through APIs.

NEW: Users can undo an answer and optionally re-answer with different inputs

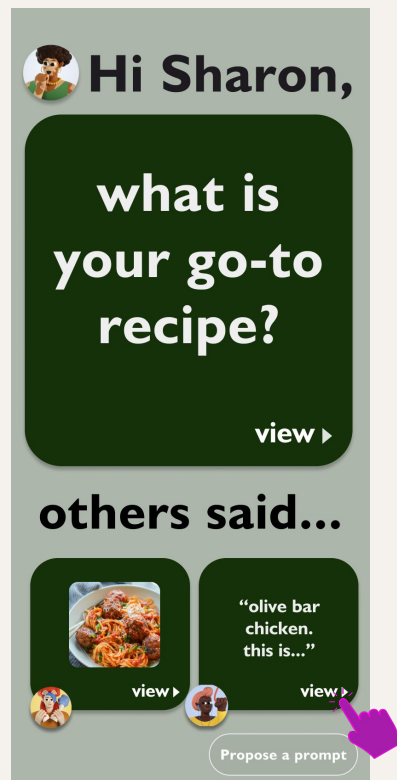
Users can view likes and replies that others have left on their answers

One Unimplemented Feature

Task 2: Reply to an answer

We have the requisite components to implement

Need to add a “reply” field component, add a “like button” component, and reuse the audio reply

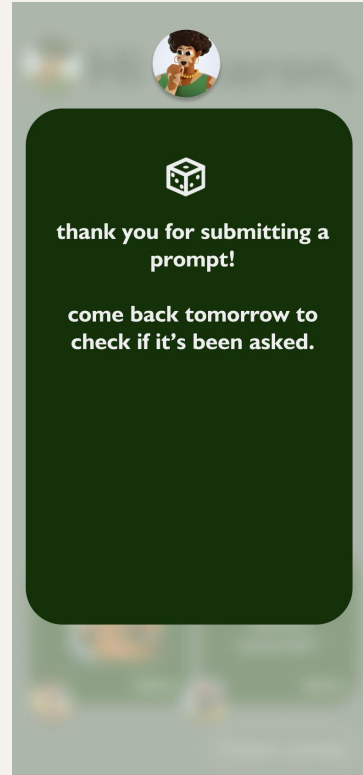
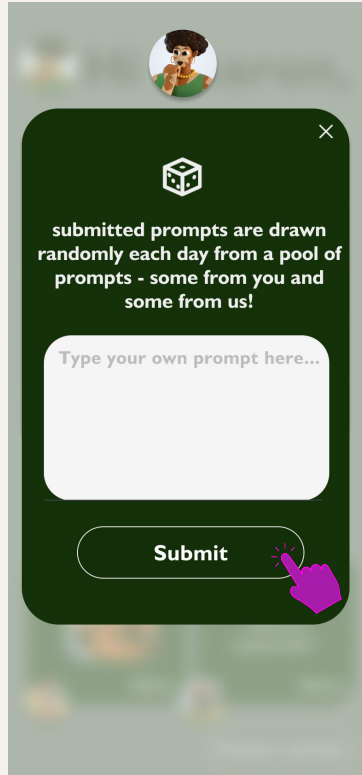


Another Unimplemented Feature

Task 3: Submit your own prompt

We have started to
implement, with a
functional button and
modal already

Can re-use the text input
component from Task 1



Plan to Finish



A horizontal black line with three black circular markers. Below each marker is a colored box containing a date range, and further down is a list of tasks.

This weekend

Utilize components for
Task 1: Answer a prompt
to expedite development
of Task 2: Reply to an
answer

Monday and Tuesday

Finish implementation of
Task 3: Submit your own
prompt

Thursday

Standardize styling
across the application

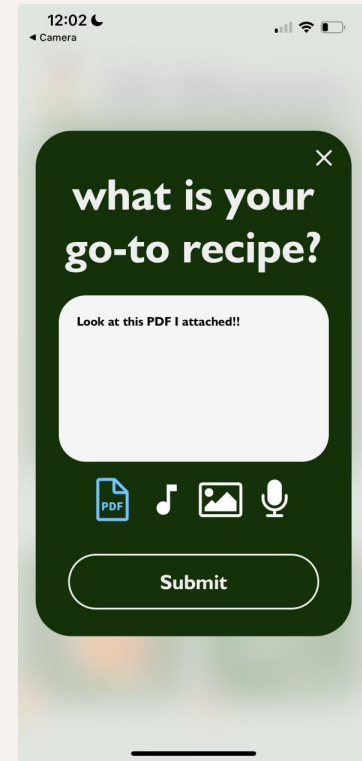
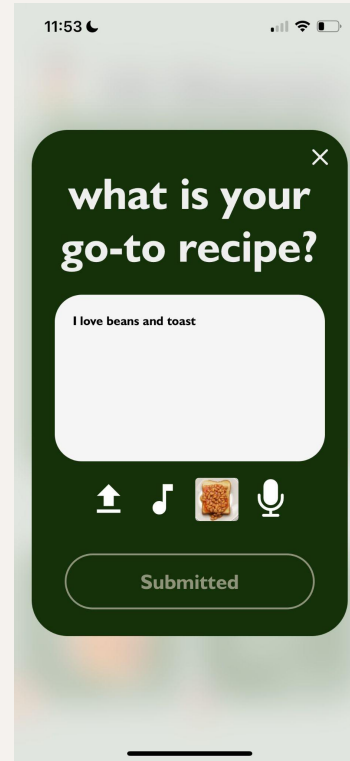
Add modal animations
to make for smoother
transitions

Implemented Wizard of Oz Features

User inputs

Users can write inputs and choose attachments, but the inputs are all stored on the front-end and will be viewable.

Refreshing or closing the app will lose all data.



Future Wizard of Oz Features



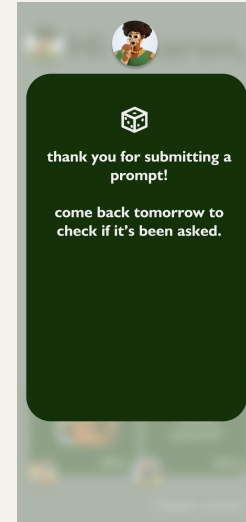
User comments

Users can leave comments that will be stored in the frontend. Refreshing or closing the app will lose all data.



Prompt generation algorithm

We simulated that the generated prompt of the day is "What is your go-to recipe?"



Prompt submission process

We give the illusion that a submitted prompt has the potential to be asked in a future day, but this demo will have no concept of temporality and the prompt is not being saved.

Hard coded Features

Family members

All the user's family members are hardcoded. The users can't control who is in their network and what they have said.



User information

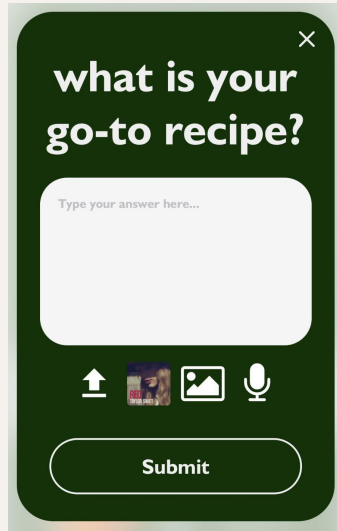
All the user information is hardcoded, including profile, pictures, and names.



More hard coded Features

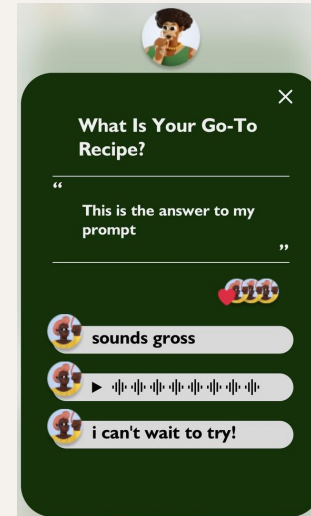
Some user inputs

As of now, song and audio attachment options are pre-determined, but users can actually choose files or photos



Comments

User comments on your answer are hard-coded into the frontend. We have the "Submitted" and wait time to help convey a notion of time passing for people to leave comments.



Questions/Issues

Although we haven't had too much trouble yet with coding up our application, we do think it is important for us to consider the following issues if we were to launch kin to real users and for day-to-day usage.

- **Privacy Concerns:** How can Kin ensure the privacy and security of these sensitive stories?
 - **Data Ownership:** Who owns the family stories and memories shared on Kin? Clarifying data ownership and user rights is important.
 - **Integration with Existing Family Dynamics:** How can Kin adapt to and enhance each family's unique dynamics without causing conflicts?
 - **Cultural Sensitivity:** How can Kin respect and accommodate diverse cultural perspectives and sensitivities regarding the generation and sharing of family stories?
-

Demo



Please scan this with your phone if you have Expo Go installed

Appendix



HE Revisions

Figma Link

Task 1 - Simple

The image displays a sequence of seven mobile app screens illustrating a user interaction flow:

- Screen 1:** A user profile icon and the text "Hi Sharon," are at the top. The main content is a large dark green box with the text "what is your go-to recipe?". At the bottom right of this box is the text "answer ▶". Below this box is the text "others said..." followed by two recipe cards. The first card shows a bowl of spaghetti with chicken and the text "view ▶". The second card shows a bowl of chicken and the text "view ▶". At the bottom is a button labeled "Propose a prompt".
- Screen 2:** A dark green box with the text "what is your go-to recipe?" and a text input field "Type your answer here...". Below the input field are icons for upload, share, add, and voice, and a "Submit" button.
- Screen 3:** Similar to Screen 2, but the input field contains a small image of a document labeled "file.txt".
- Screen 4:** Similar to Screen 2, but the input field contains a small image of a bowl of spaghetti.
- Screen 5:** A user profile icon and the text "Hi Sharon," are at the top. The main content is a large dark green box with the text "what is your go-to recipe?". At the bottom right of this box is the text "view ▶". Below this box is the text "others said..." followed by the same two recipe cards as in Screen 1. At the bottom is a button labeled "Propose a prompt".
- Screen 6:** A dark green box with the text "what is your go-to recipe?" and a text input field "Type your answer here...". Below the input field are icons for upload, share, add, and voice, and a "Submit" button.
- Screen 7:** A user profile icon and the text "What Is Your Go-To Recipe?" are at the top. Below is a quote: "olive bar chicken! this is all you need: fingerling potatoes, olive oil, boneless and skinless chicken, more words blah blah blah". Below the quote are two response bubbles: "sounds gross" and "i can't wait to try this!". At the bottom is a "reply..." input field with voice and heart icons.

Red arrows indicate the flow from the "answer ▶" button on Screen 1 to Screen 2, from the "view ▶" button on Screen 5 to Screen 6, and from the "view ▶" button on Screen 5 to the "reply..." field on Screen 7.

Task 2 - Moderate - Reply to someone's answer

Hi Sharon,

what is your go-to recipe?

view ▶

others said...

view ▶

view ▶

Propose a prompt

What Is Your Go-To Recipe?

“olive bar chicken! this is all you need: fingerling potatoes, olive oil, boneless and skinless chicken...”

“sounds gross”

“i can't wait to try this!”

reply...

What Is Your Go-To Recipe?

“olive bar chicken! this is all you need: fingerling potatoes, olive oil, boneless and skinless chicken...”

“sounds gross”

“i can't wait to try this!”

“wow!”

reply...

What Is Your Go-To Recipe?

“olive bar chicken! this is all you need: fingerling potatoes, olive oil, boneless and skinless chicken...”

“sounds gross”

“i can't wait to try this!”

reply...

What Is Your Go-To Recipe?

“olive bar chicken! this is all you need: fingerling potatoes, olive oil, boneless and skinless chicken...”

“sounds gross”

“i can't wait to try this!”

reply...

Task 3 - Complex - Propose a custom prompt

Hi Sharon,

what is your go-to recipe?

answer ▶

others said...

view ▶

view ▶

Propose a prompt

submitted prompts are drawn randomly each day from a pool of prompts - some from you and some from us!

Type your answer here...

Submit

submitted prompts are drawn randomly each day from a pool of prompts - some from you and some from us!

this is the prompt i am submitting.

Submit

thank you for submitting a prompt!

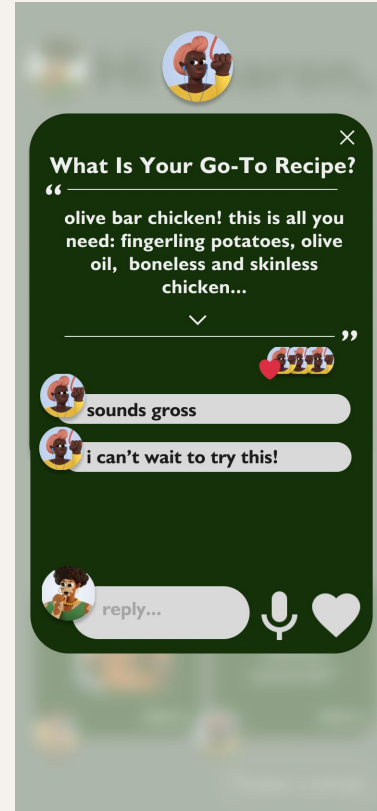
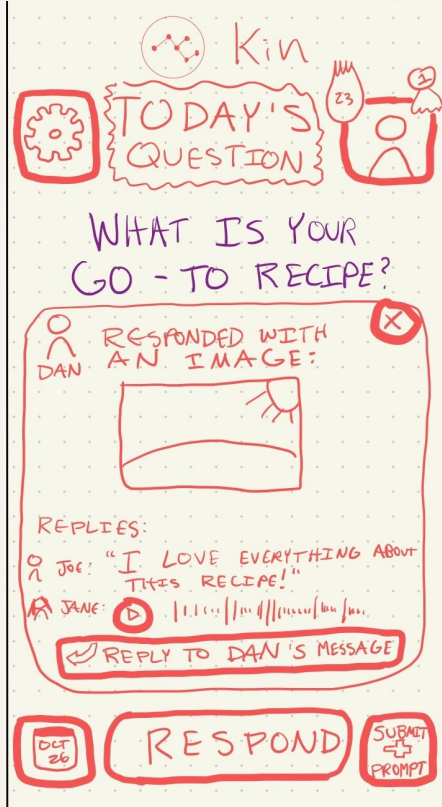
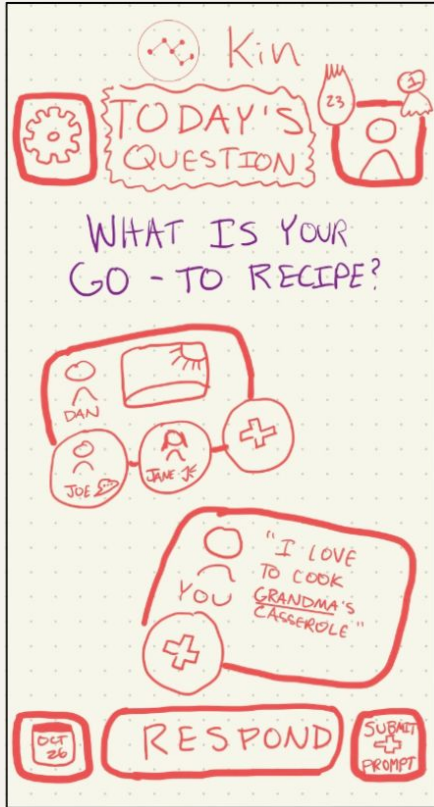
come back tomorrow to check if it's been asked.

3 seconds spent on this screen before the user is brought back to the home screen. Meant to act as an explanation as to how the potentially confusing prompt system functions.

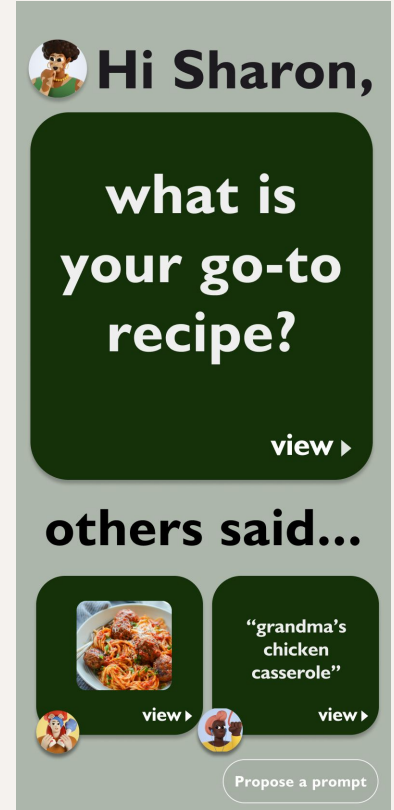
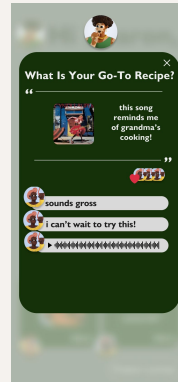
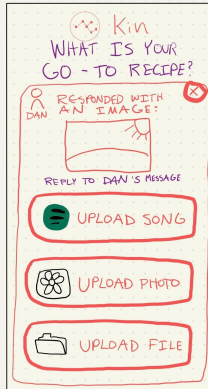
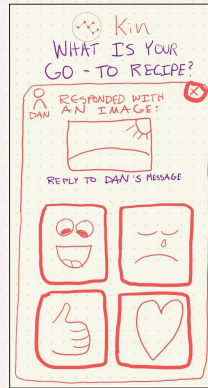
08

**Prototype
Implementation**

Change 1 - "Respond" -> "Answer"



Change 2 - Standardized UI



Change 3 - 1 tap to get anywhere



Hi Sharon,

what is your go-to recipe?

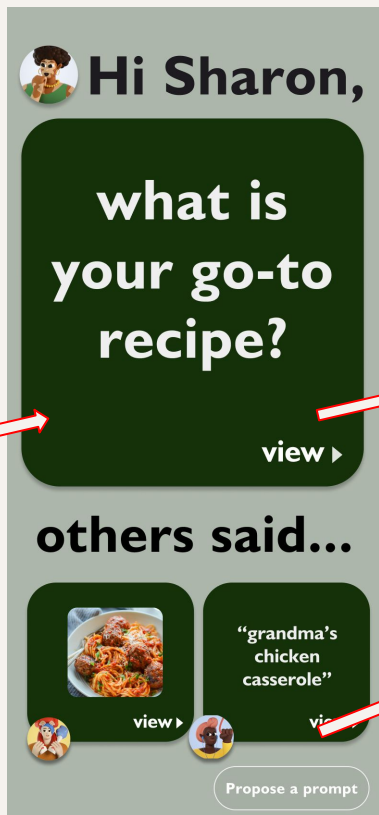
answer ▶

others said...

 "grandma's chicken casserole"
view ▶

 "grandma's chicken casserole"
view ▶

Propose a prompt




Hi Sharon,

what is your go-to recipe?

view ▶

others said...

 "grandma's chicken casserole"
view ▶

 "grandma's chicken casserole"
view ▶

Propose a prompt



What Is Your Go-To Recipe?

“

 mom's famous spaghetti :)

”



 sounds gross

 i can't wait to try this!

 ▶ 



What Is Your Go-To Recipe?

“

olive bar chicken! this is all you need: fingerling potatoes, olive oil, boneless and skinless chicken...

”



 sounds gross

 i can't wait to try this!

 reply...  