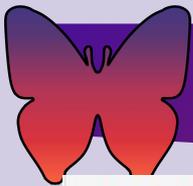


Team Shining Sky

ARORA Community Mentor Portal

Team: Rosze Voronin, Skyler Hanson, Ashleea Holloway, Logan O'Donnell

Mentor: Felicity Escarzaga
Sponsor: Dr. Morgan Vigil-Hayes



Introduction and Our Client

Key findings

<https://www.cdc.gov/nchs/products/databriefs/db419.htm>

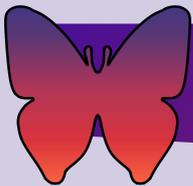
Data from the National Health Interview Survey

- In 2020, 20.3% of adults had received any mental health treatment in the past 12 months, including 16.5% who had taken prescription medication for their mental health and 10.1% who received counseling or therapy from a mental health professional.

Dr. Vigil-Hayes and CANIS Lab:

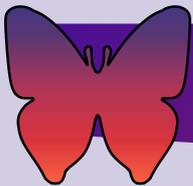
- Research lab at NAU's SICCS department
- Currently working on the ARORA Project to address lack of mental healthcare for young people at Hopi reservation
- Needed a development team to help expand the ARORA Project to support new Hopi Mentorship Program





Problem Statement

- Rural location of many Indigenous communities limits access to mental health services.
- 26.6% of Indigenous people in America live in poverty.
- Indigenous people in America report feeling psychological distress 2.5 times more than the general population per month.
- Indigenous youth have the highest suicide rate of any group in the US.
- Youth risk factors: poverty, violence, substance abuse, trauma, trafficking, homelessness, high rates of anxiety and depression.



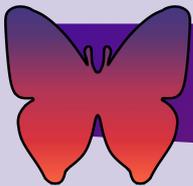
Solution Overview

Solution Specification:

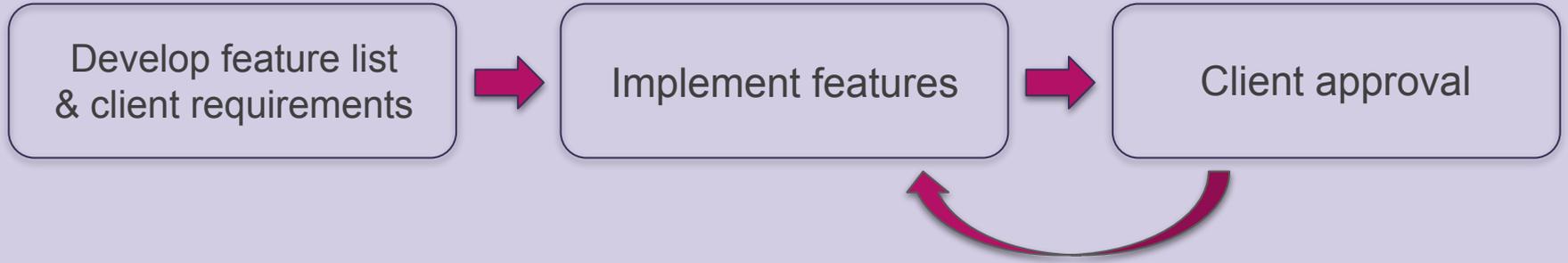
- Mobile app support for the Hopi Community Mentorship Program
- Designed to be a self-contained starting point to establish a platform for future development
- Focuses on functionality and usability

State of the ARORA Project:

- Our Community Mentor Portal app is seeing final tweaks and testing
- CANIS Lab is expecting a \$2.5 million grant in July to fund further development
- Further development will focus on low-connectivity network code and integration

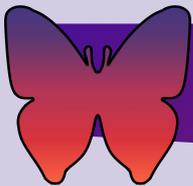


Requirements Acquisition

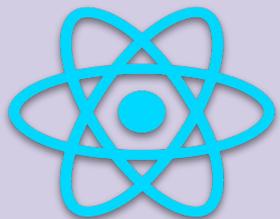


Key Requirements





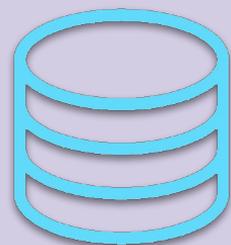
Frameworks and Packages



React Native

development framework

- Platform Support
- Large Community
- Existing Packages



Async Storage

data storage

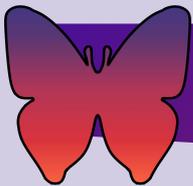
- Platform Support
- Utilize local storage with React



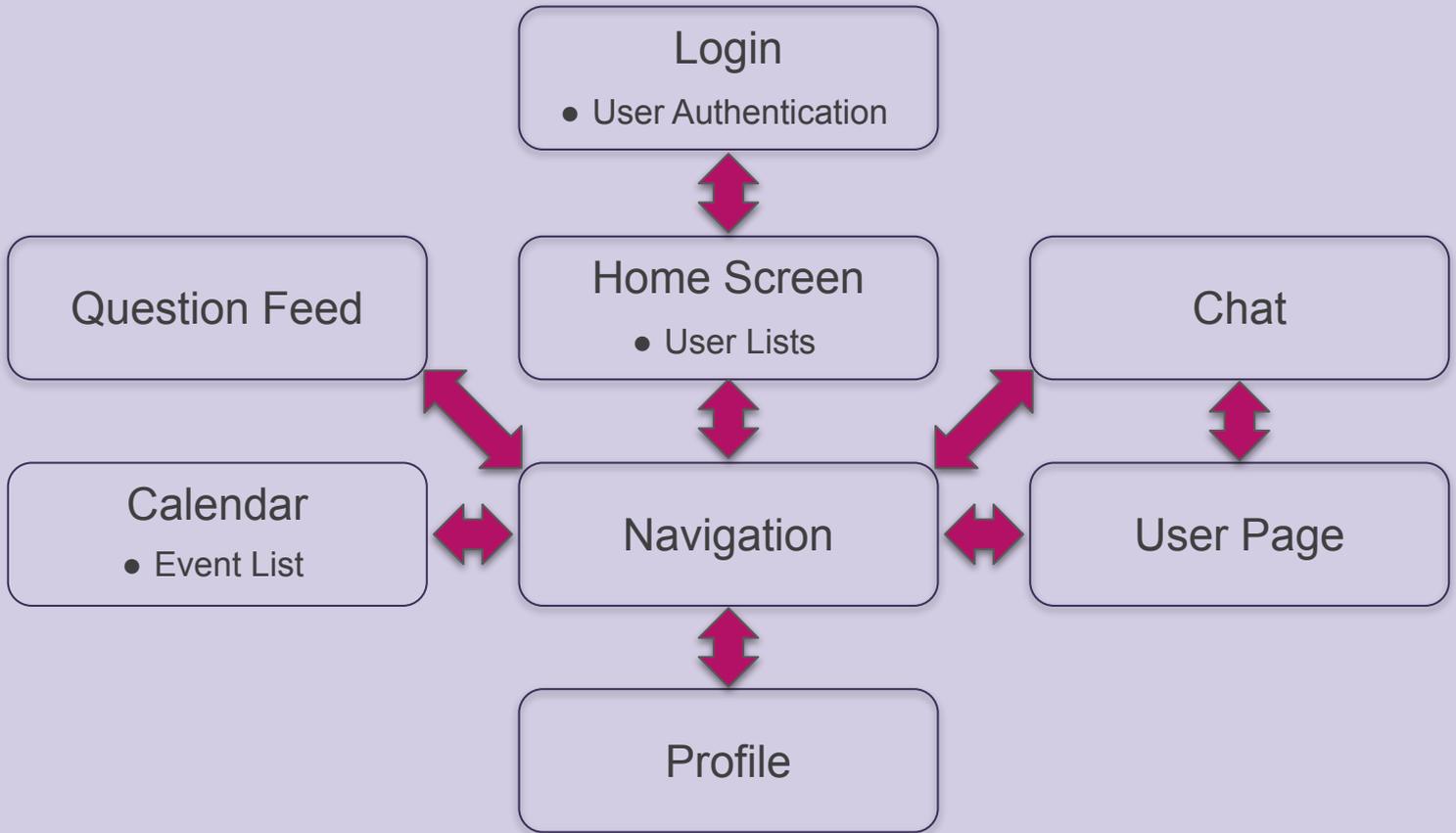
Expo

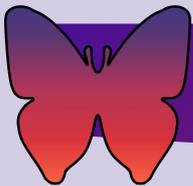
deployment framework

- Platform Support
- Designed for React Native

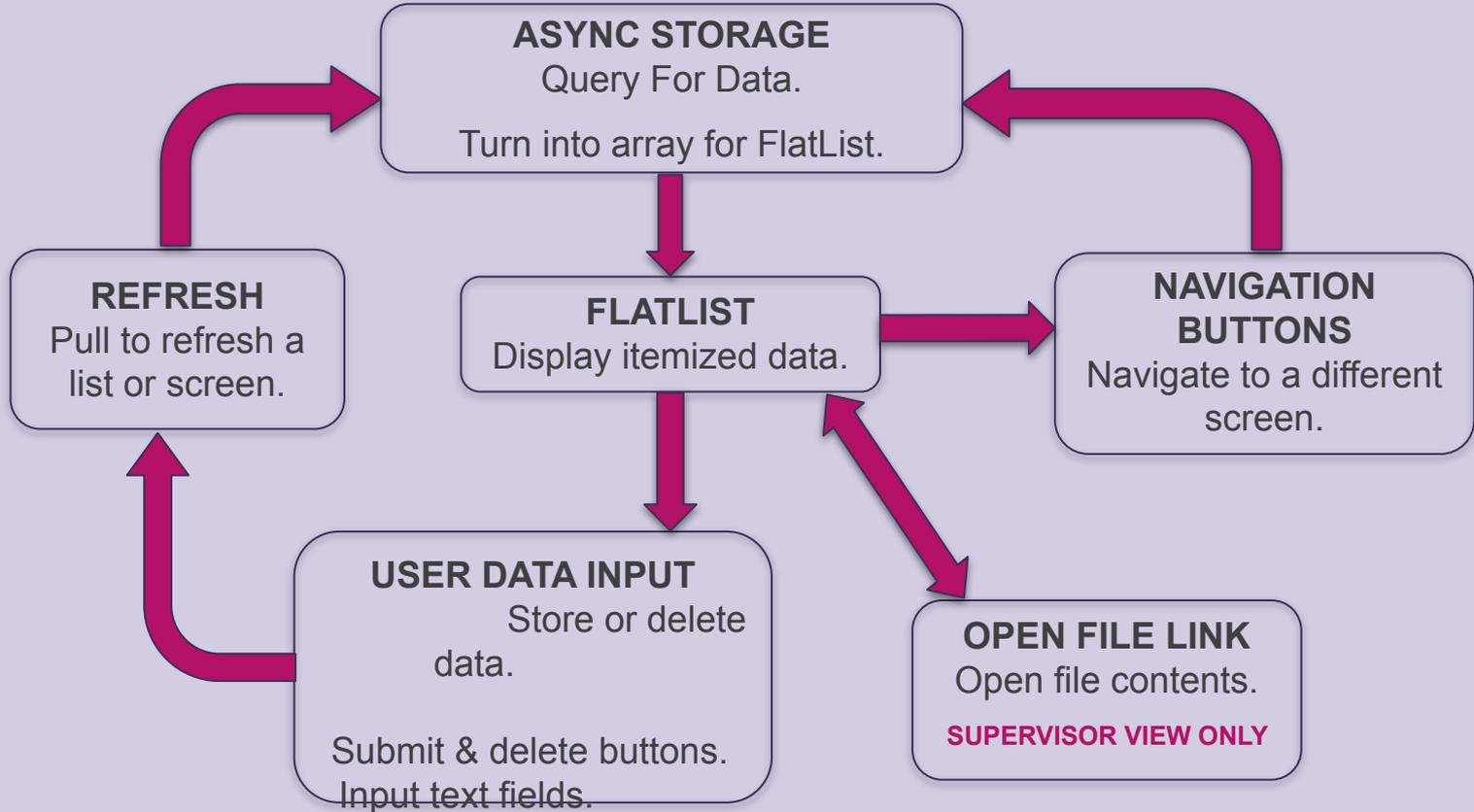


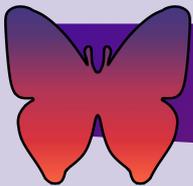
Front End Implementation





Back End Implementation





Prototype

Admin User

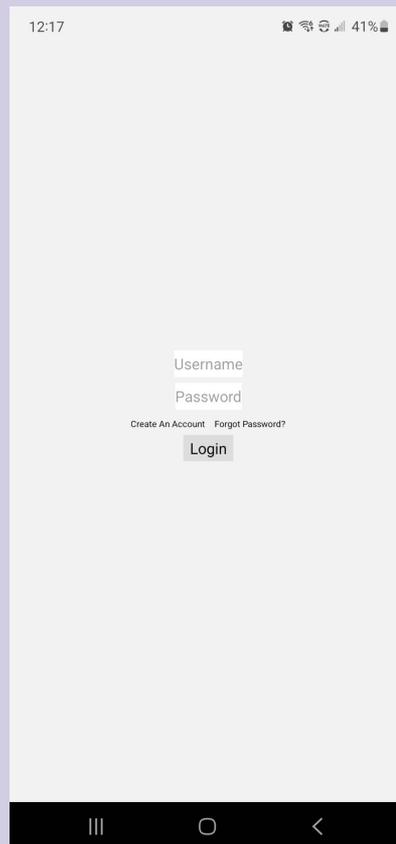
Unique utility user of the app
Gives ability to create supervisors.

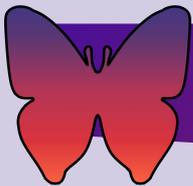
Supervisor User

Secondary user of the app.
In charge of mentors.

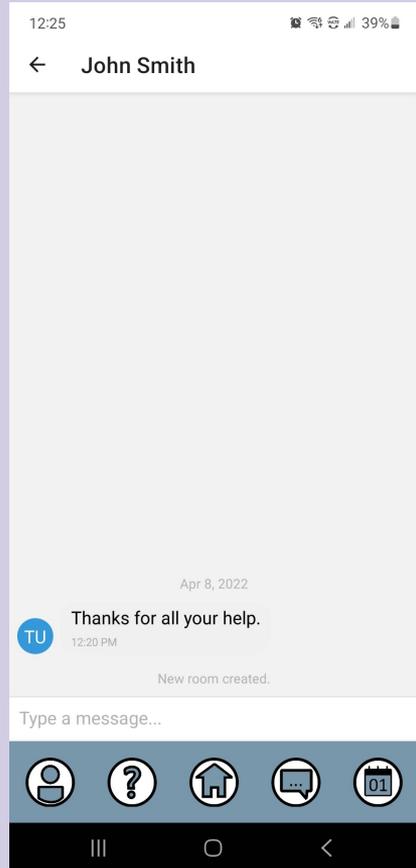
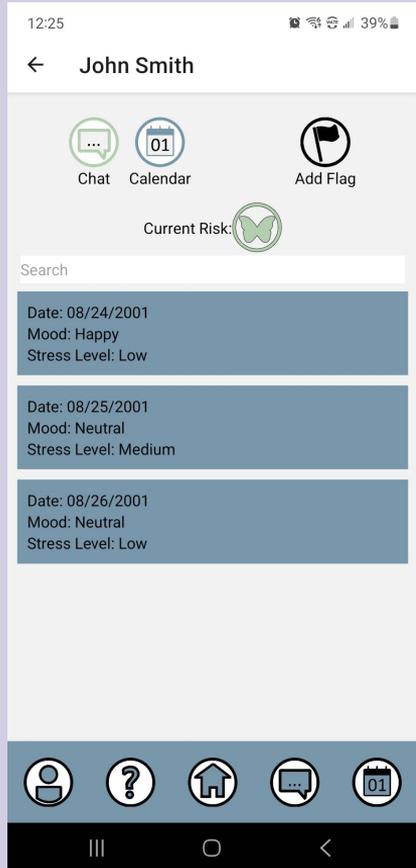
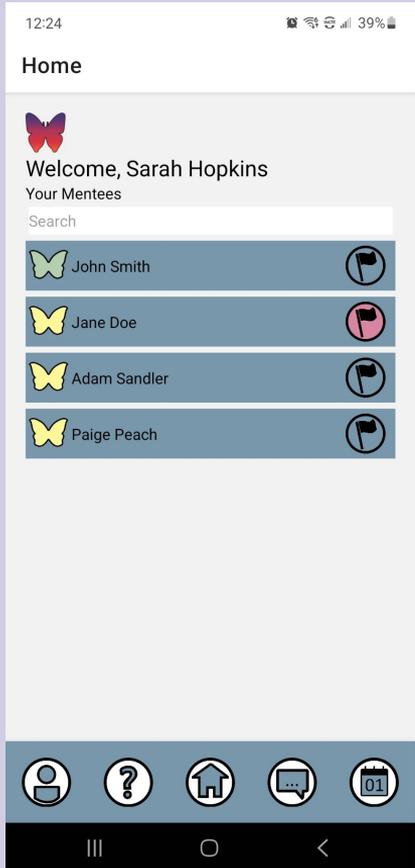
Mentor User

Main user of the app.
Direct communication with mentees.





Mentor View



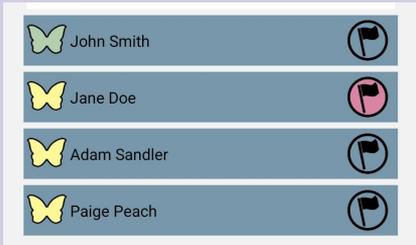
NAVIGATION BAR

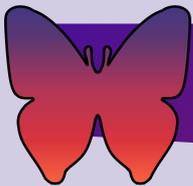


SEARCH BAR



BUTTONS



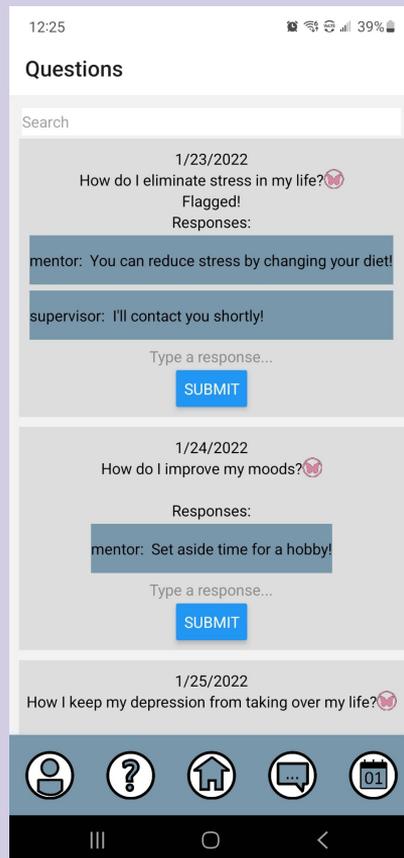
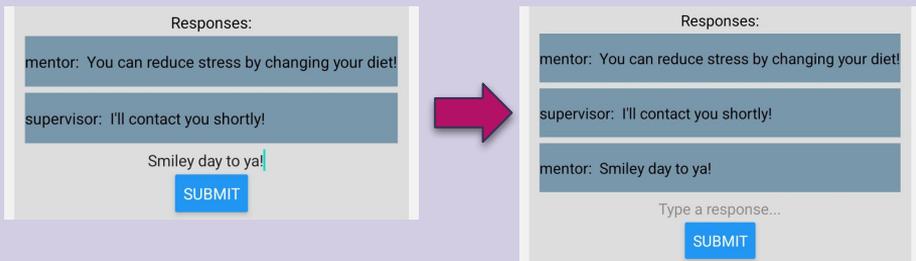


Mentor View

FLAG QUESTION



LEAVE RESPONSE



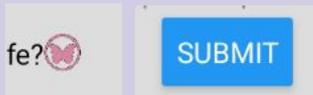
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SEARCH BAR

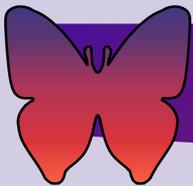


BUTTONS

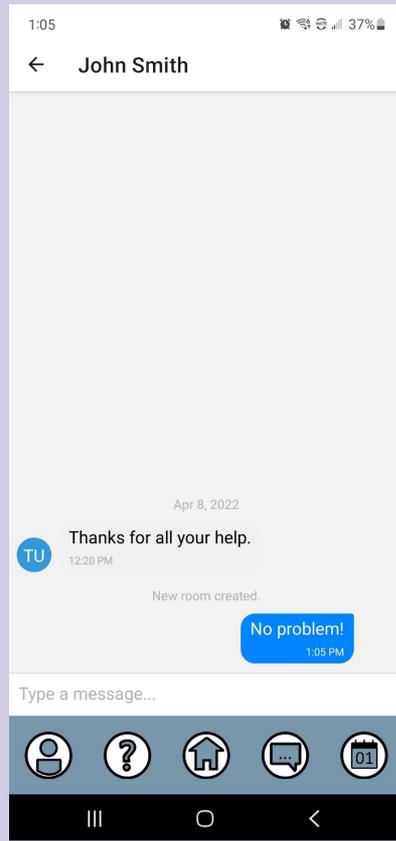
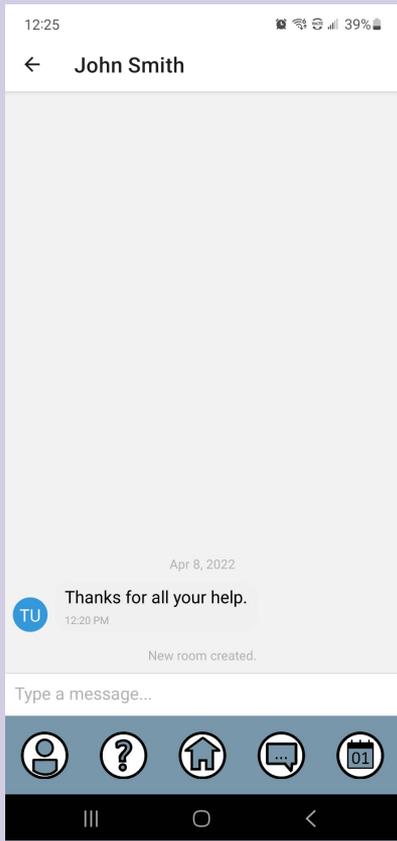
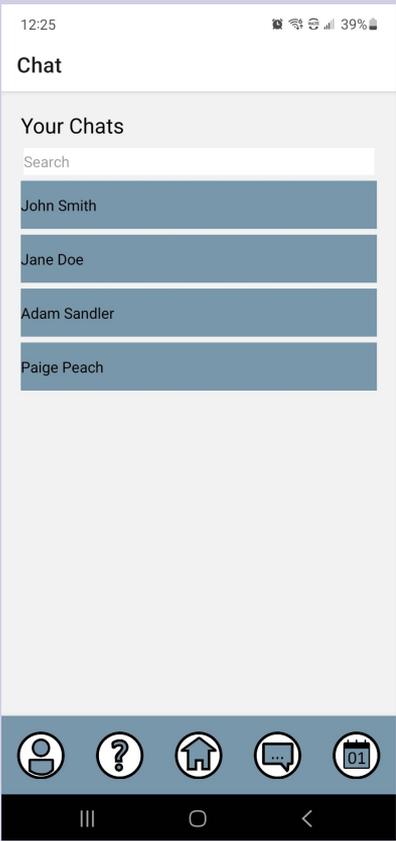


TEXT INPUT





Mentor View



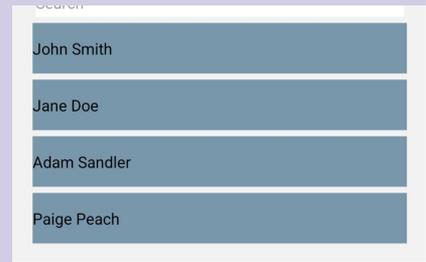
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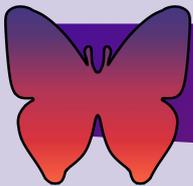


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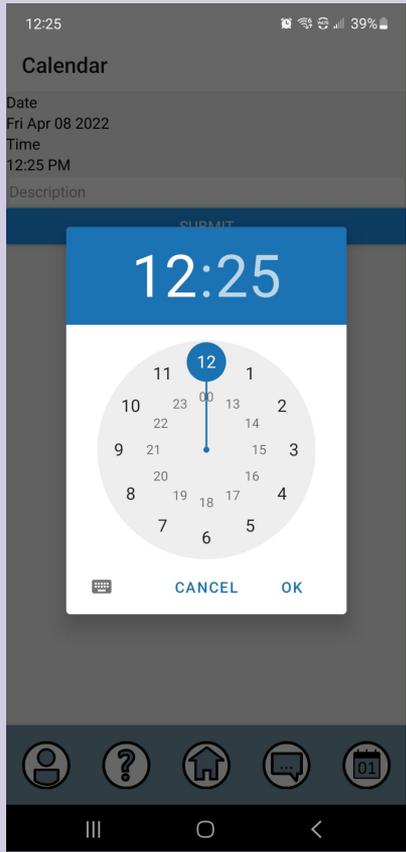
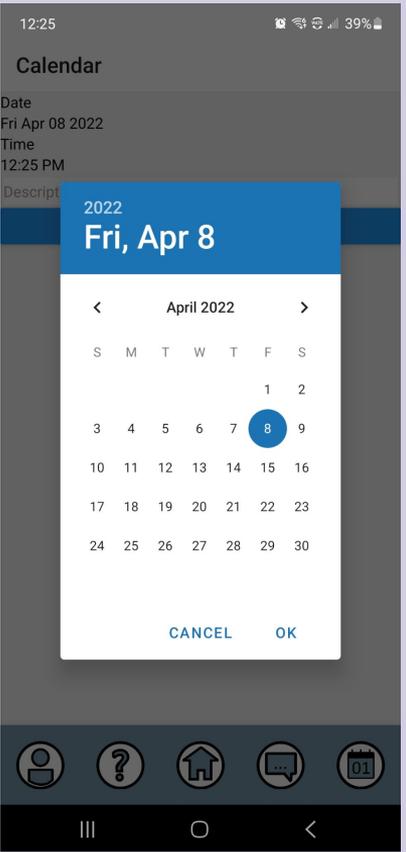
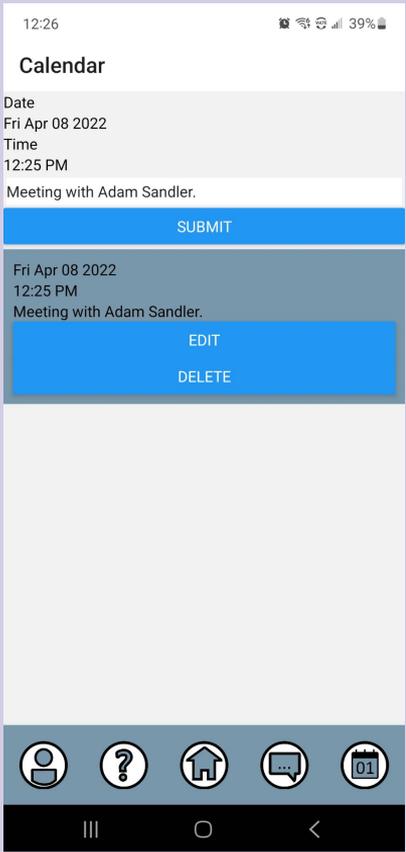


TEXT INPUT





Mentor View



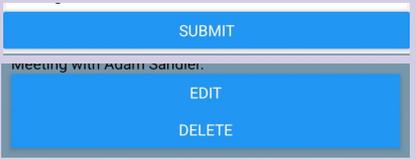
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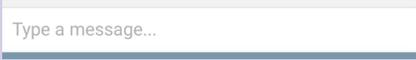
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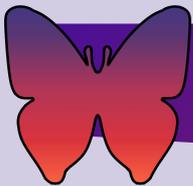


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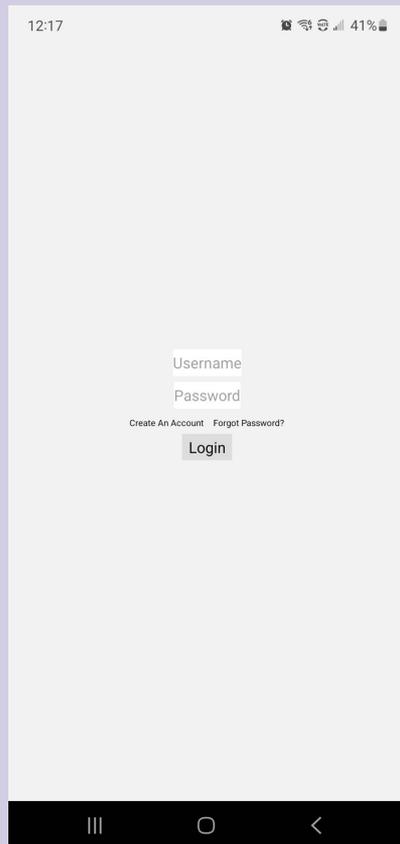
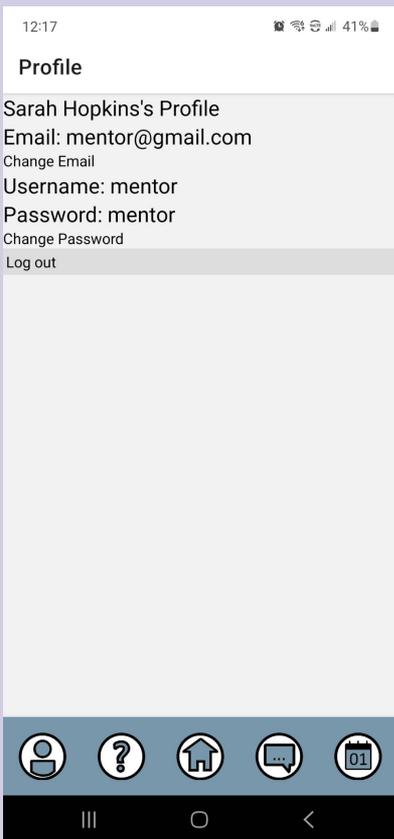


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Mentor View



NAVIGATION BAR

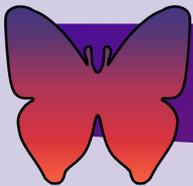


BUTTONS

Change Password
Log out

Change Email

TEXT INPUT



Supervisor View Differences

12:26 39%

Supervisor Home

Welcome, Andy Jenkins
Your Mentors

Search

Sarah Hopkins

Bottom navigation: Home, Questions, Profile, Mentors, Calendar

12:27 39%

Sarah Hopkins

Search

- John Smith
- Jane Doe
- Adam Sandler
- Paige Peach

Bottom navigation: Home, Questions, Profile, Mentors, Calendar

12:27 39%

Supervisor Questions

Search

1/23/2022
How do I eliminate stress in my life?
Flagged!
Responses:
mentor: You can reduce stress by changing your diet!
supervisor: I'll contact you shortly!

Type a response...
SUBMIT

1/24/2022
How do I improve my moods?
Flagged!
Responses:
mentor: Set aside time for a hobby!

Type a response...
SUBMIT

Bottom navigation: Home, Questions, Profile, Mentors, Calendar

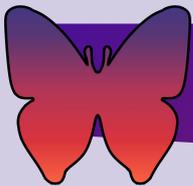
12:26 39%

Supervisor Profile

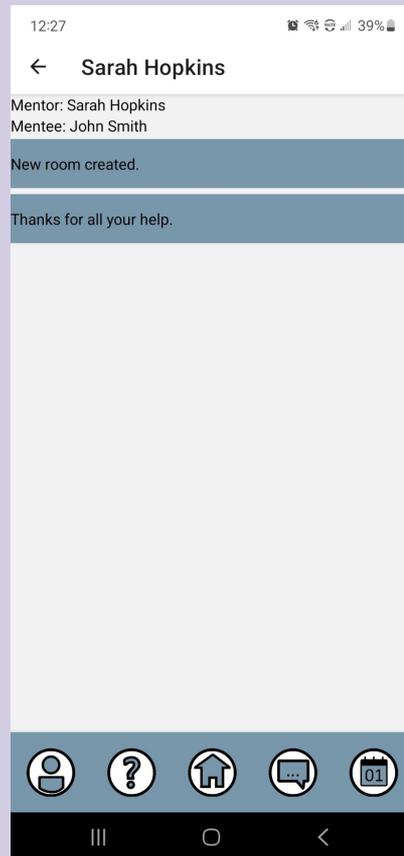
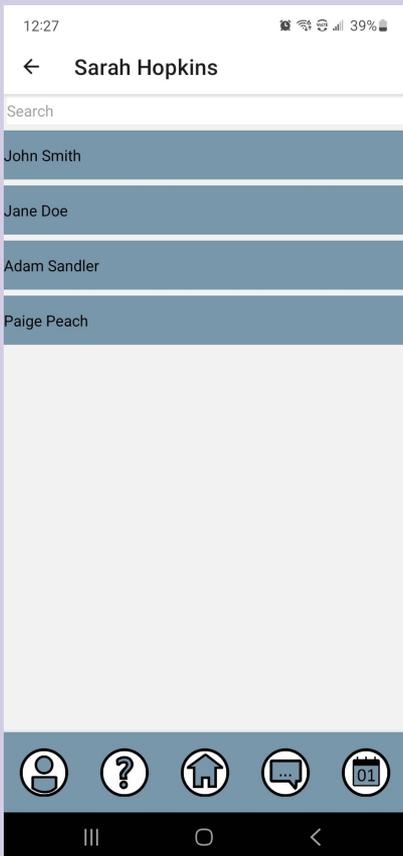
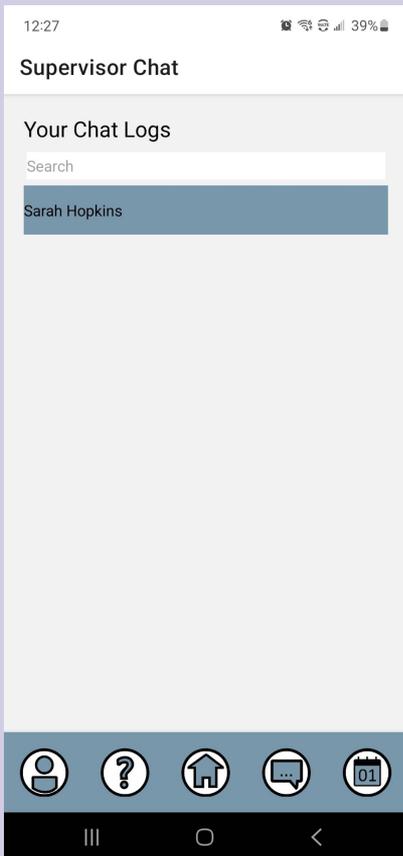
Andy Jenkins's Profile

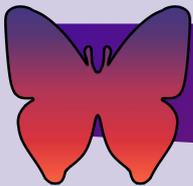
Email: supervisor@gmail.com
Change Email
Username: supervisor
Password: supervisor
Change Password
Create Mentor Access Code
Log out

Bottom navigation: Home, Questions, Profile, Mentors, Calendar

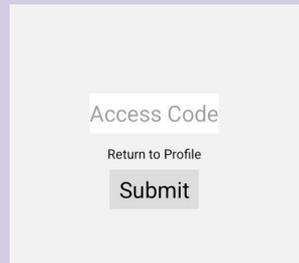
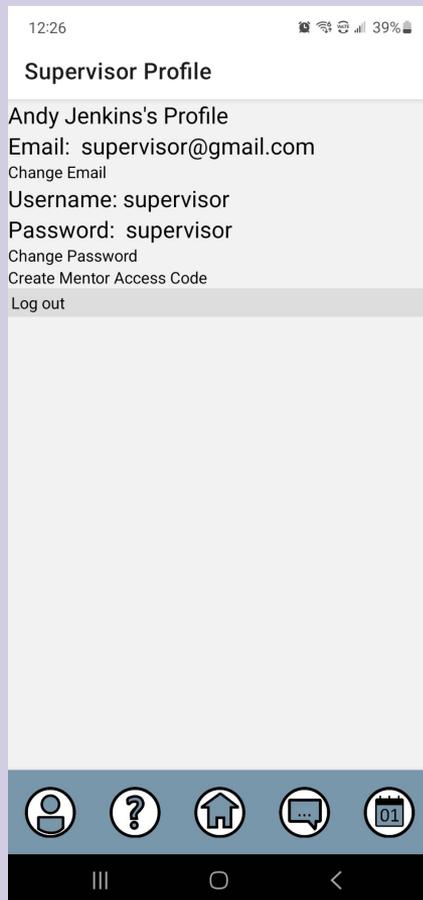
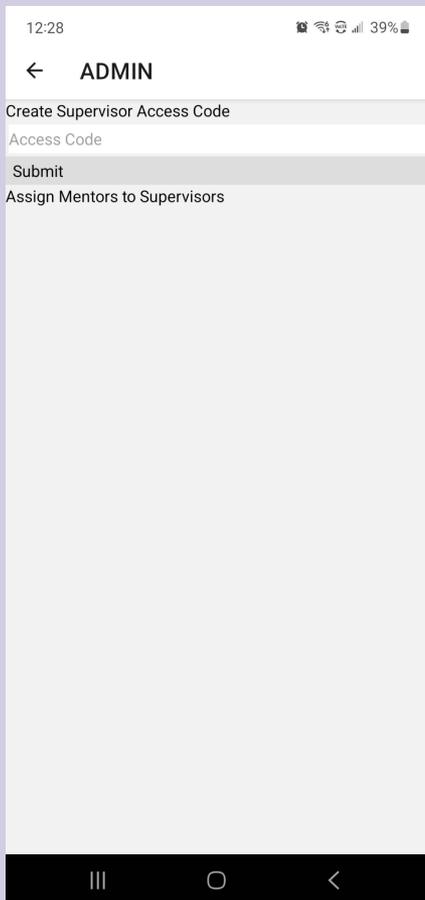


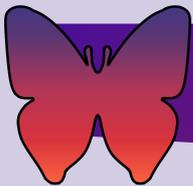
Supervisor View Differences





Admin View





Challenges and Resolutions

Data Storage

Challenge

Local storage

CANIS in charge of remote storage

Resolution

MySQL with node.js

SQLite

Async Storage

Refresh

Challenge

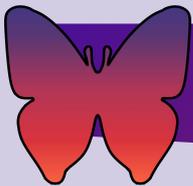
Show updated data

Refresh screen or element

Resolution

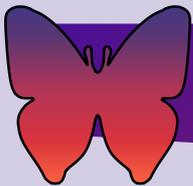
React Native Flatlist Usage

Implementing pull to refresh



Testing Plan

- ▶ Sample Users
 - ▶ Expert Review
 - ▶ Real Users
- Simple Tasks
 - Open-ended Questions
 - Using the Feedback



Conclusion

- ▶ Team Shining Sky is working with CANIS Lab to address mental health among Hopi youth with the ARORA Community Mentor Portal app
- ▶ We developed a strong platform for future development to our client's specification
- ▶ Currently testing, tweaking, and preparing for final handoff
- ▶ CANIS Lab is expecting a \$2.5 million grant and plans to expand ARORA further in the future