



EDUCONNECT

Paulina Reyes



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Sanura N'Jaka



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The Team



Sanura

Junior, CS



Jailene

Junior, CS



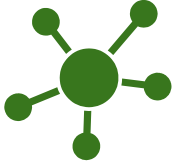
Na He

Co-term, CS



Paulina

Junior, CS



Problem

How to effectively build positive student-teacher relationships



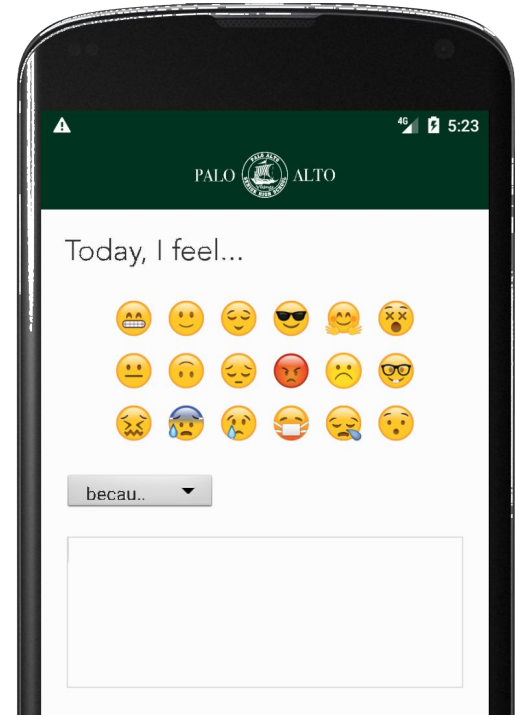
“ Students who feel supported and valued by their teachers demonstrate increased self-esteem and self-efficacy (Gallagher, 2017).

- Requires effort from teacher
- Not standardized
- Often overlooked

High Level Solution

Mobile Application

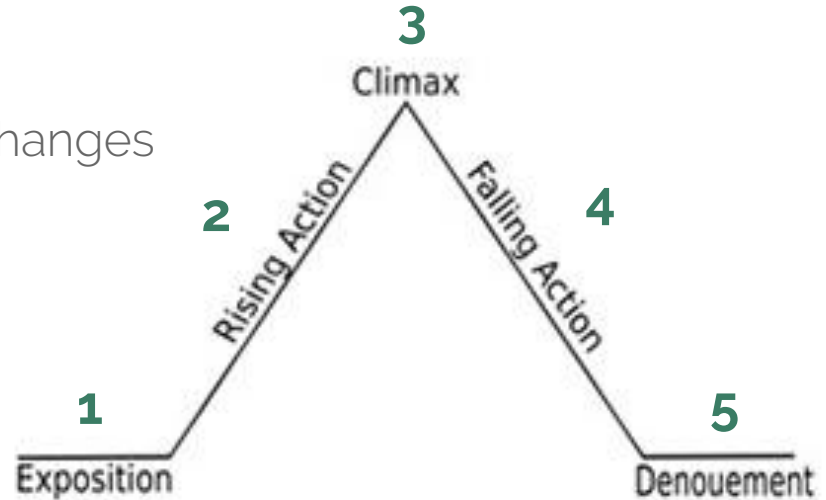
- “Check in” system used at the start of class





Overview

1. **Concept Video**
2. **Design Evolution**
 - a. Major steps
 - b. Reasoning behind design changes
3. **Current UI description/demo**
 - a. Recorded Demo
 - b. Representative tasks
4. **Future Enhancements**
5. **Summary**





Concept Video



* Sped up for the sake of time



Design Evolution

Needfinding

Danielle Green

Former Middle/High
School Teacher

- Devoted so much **time and effort** to get to know her students

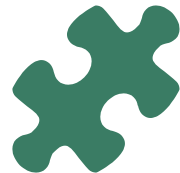


Brigid

Current student at
Palo Alto High School



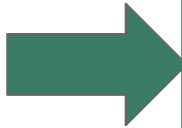
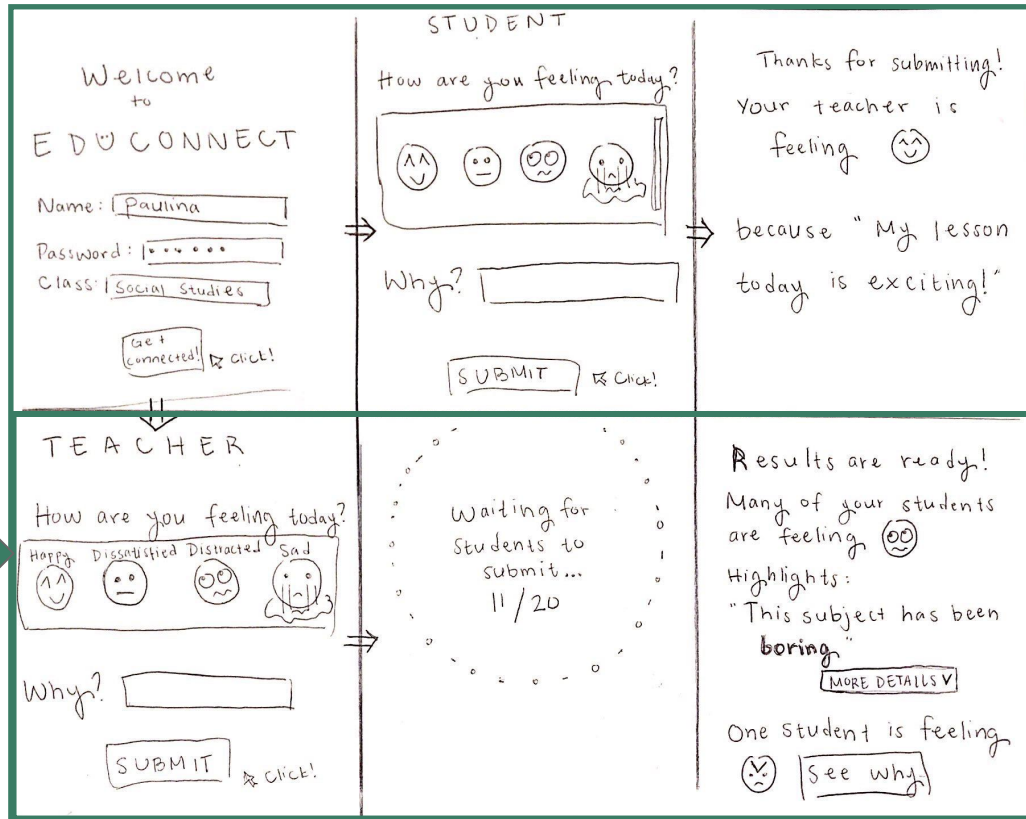
"If teachers make us feel more comfortable, then we will interact better with the class"

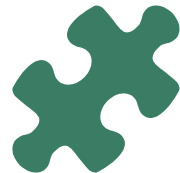


Storyboarding

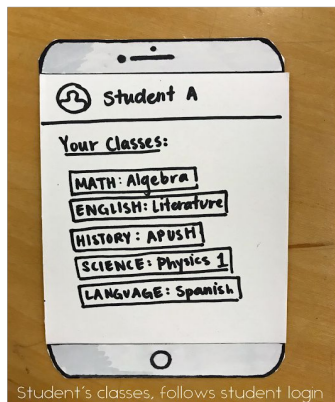
The very first storyboarded idea of Emoji Emotions

	STUDENT	TEACHER
<p>WELCOME to E:DU:CONNECT</p> <p>Name: <input type="text"/></p> <p>Password: <input type="text"/></p> <p>Class: <input type="text"/></p> <p>Get connected!</p>	<p>How are you feeling today?</p> <p><input type="text"/></p> <p>Why? <input type="text"/></p> <p>Your teacher is feeling 😊 because "I'm excited for our lesson plan today!"</p>	<p>How are you feeling today?</p> <p><input type="text"/></p> <p>Why? <input type="text"/></p> <p>Your students are feeling 😞</p> <p>Highlights:</p> <ul style="list-style-type: none">"This subject has been boring""We just got back from the weekend and I'm tired" <p><input type="text"/></p>

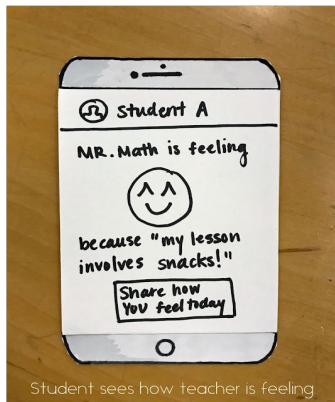




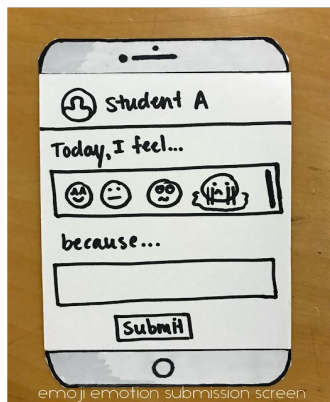
Low-Fi Prototype



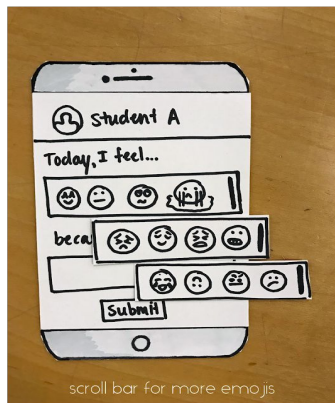
Student's classes, follows student login



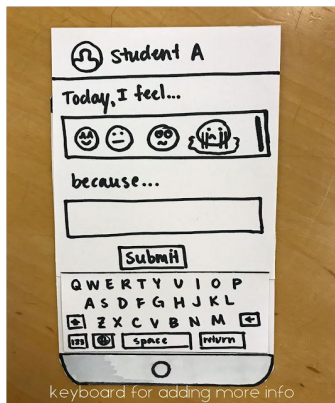
Student sees how teacher is feeling



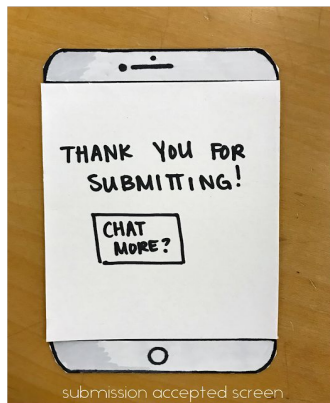
emoji emotion submission screen



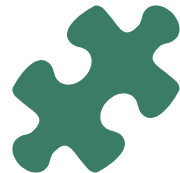
scroll bar for more emojis



keyboard for adding more info

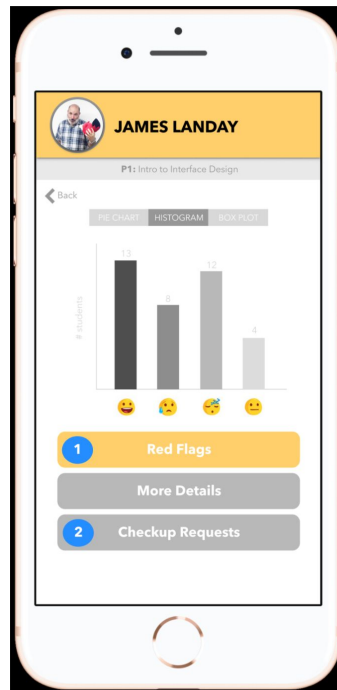
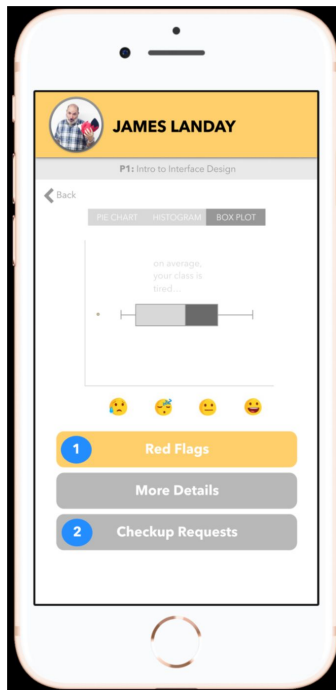
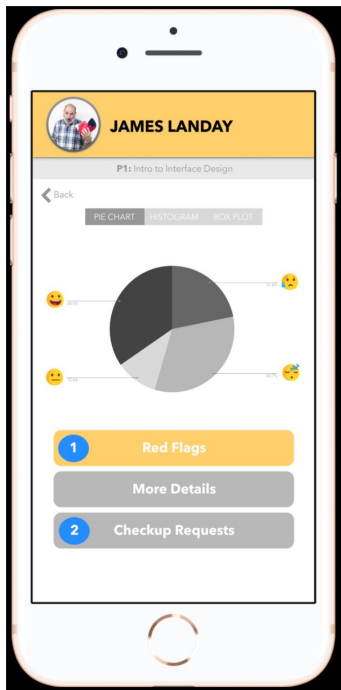


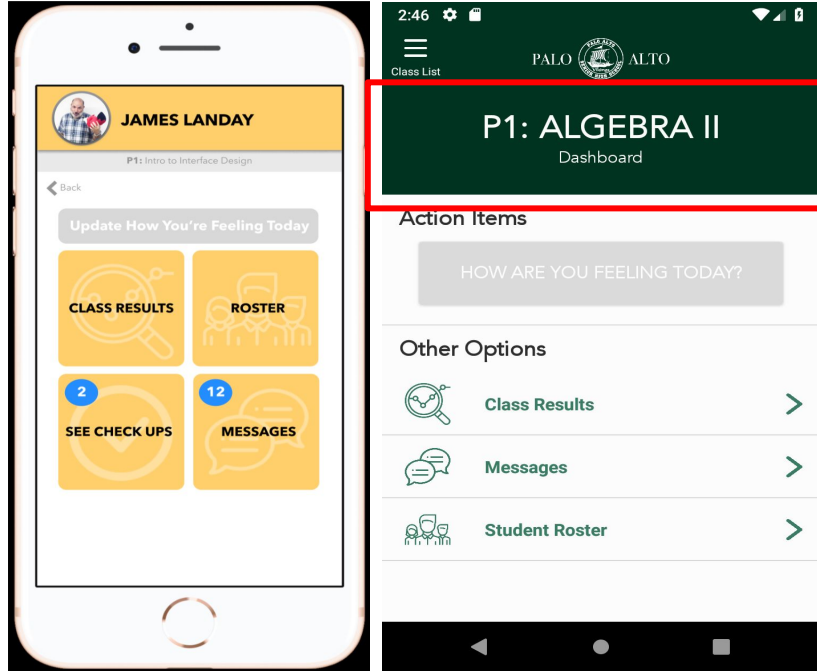
submission accepted screen



Medium-Fi Prototype

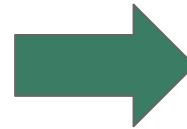
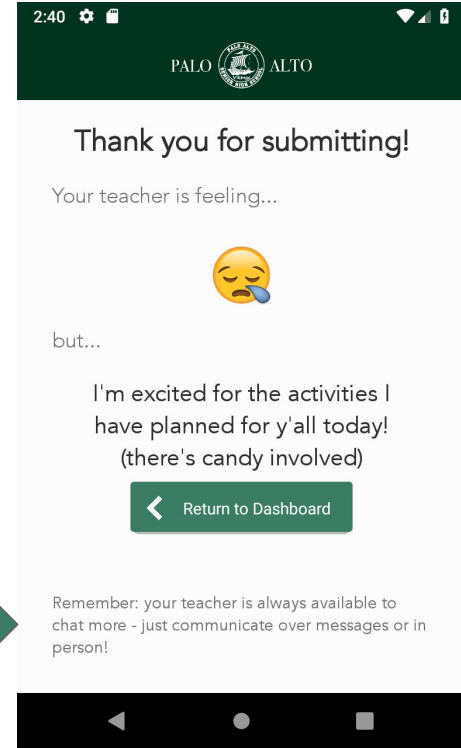
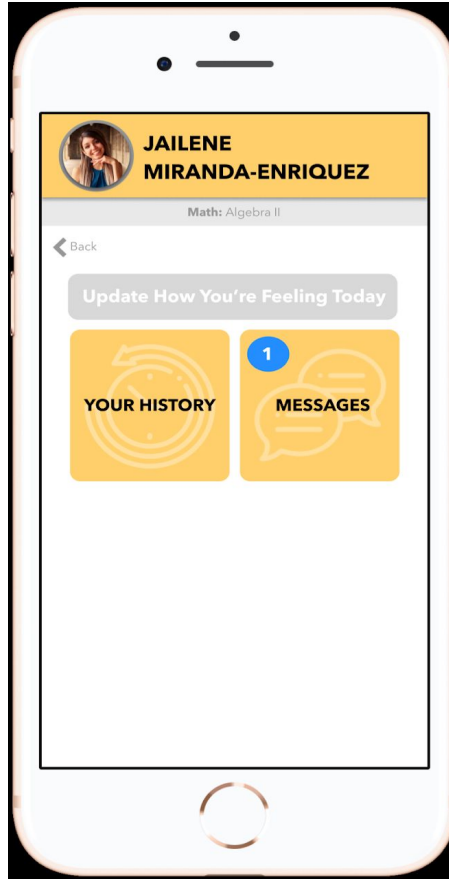
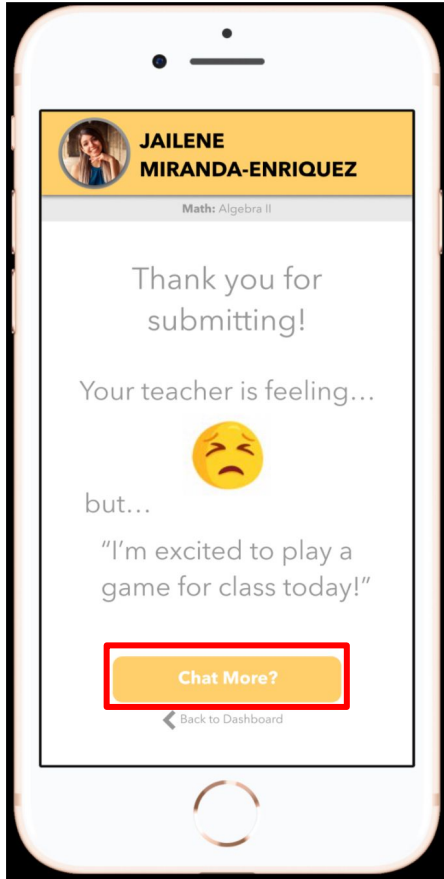
Added boxplot and pie chart views





Major HE change: added top bar

High-Fi Prototype



High-Fi Prototype



Current UI Description/Demo

Demo

Student



Teacher





Tasks

Simple: **Share how you are feeling at the beginning of class**



- Wanted both parties to feel supported and understood
- Students want teachers to be more open
 - **“If a teacher starts opening up, I feel more comfortable opening up too”**

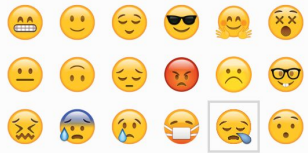
The screenshot shows a mobile application interface. At the top, there is a dark green header with the time '2:26', a settings gear icon, a battery icon, and the Palo Alto Unified School District logo. Below the header, the text 'Today, I feel...' is displayed. Underneath this text is a grid of 18 emojis arranged in three rows of six. The first row includes: a face with a hand over its mouth, a neutral face, a face with closed eyes, a face with sunglasses, a face with a hand over its mouth, and a face with X's for eyes. The second row includes: a neutral face, a face with a hand over its mouth, a face with closed eyes, a face with a red forehead, a sad face, and a face with glasses. The third row includes: a face with a hand over its mouth, a face with a hand over its mouth, a face with a hand over its mouth, a face with a hand over its mouth, a face with a hand over its mouth, and a face with a hand over its mouth. Below the emoji grid is a dropdown menu with the text 'because...' and a downward arrow. Underneath the dropdown menu is a large, empty white rectangular text input area. At the bottom of the form is a green button with the text 'SUBMIT' in white. The bottom of the screen shows the standard Android navigation bar with back, home, and recent apps icons.

Teacher UI:

2:40 [Settings] [Battery] [Signal] [Wi-Fi] [Location]

PALO ALTO

Today, I feel...



but... ▾


I'm excited for the activities I have planned for y'all today! (there's candy involved)


SUBMIT

2:34 [Settings] [Battery] [Signal] [Wi-Fi] [Location]

PALO ALTO

Thank you for submitting!

 Edit Response

 Return to Dashboard


Student UI:

2:40 [Settings] [Battery] [Signal] [Wi-Fi] [Location]

PALO ALTO


Thank you for submitting!

Your teacher is feeling...



but...

I'm excited for the activities I have planned for y'all today! (there's candy involved)

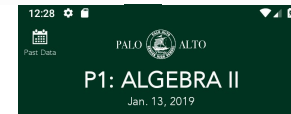
 Return to Dashboard

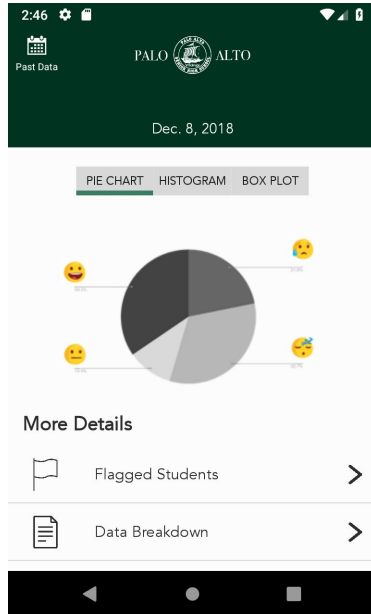
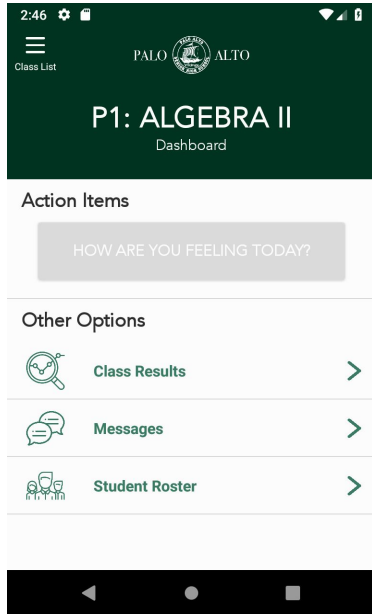
Remember: your teacher is always available to chat more - just communicate over messages or in person!

Moderate (for teachers): **Analyze the synthesized data of student feedback to tailor the classroom experience**



- Increase teacher efficiency when viewing results



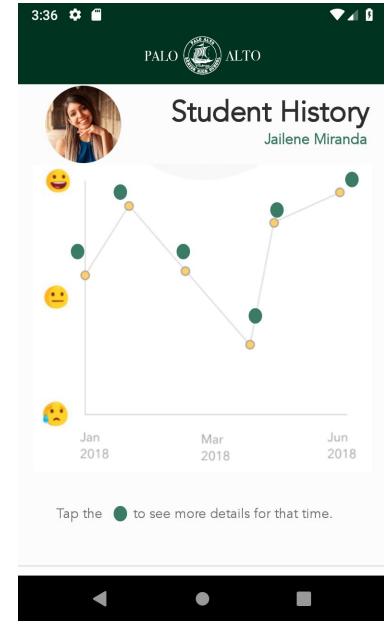
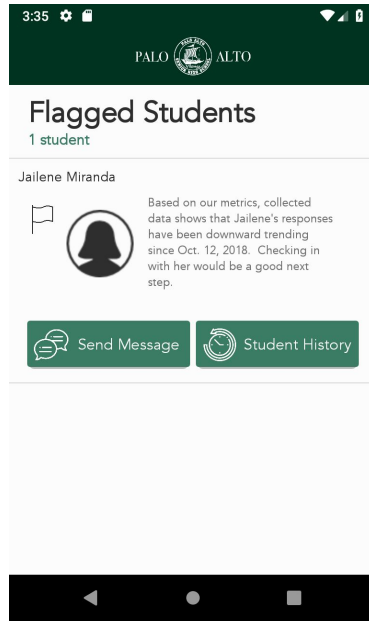
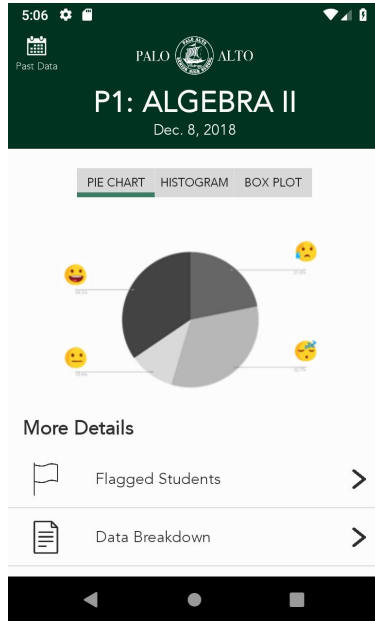


Complex (for teachers): **Reach out to flagged students.**

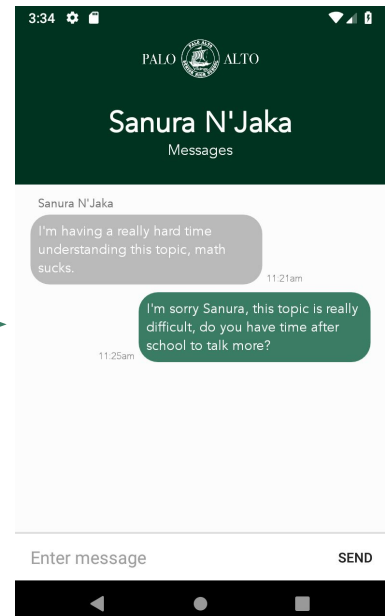
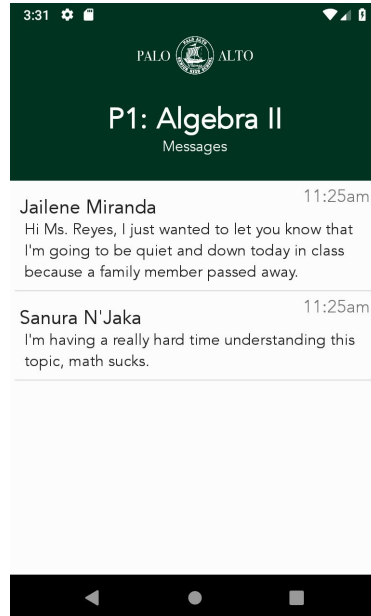
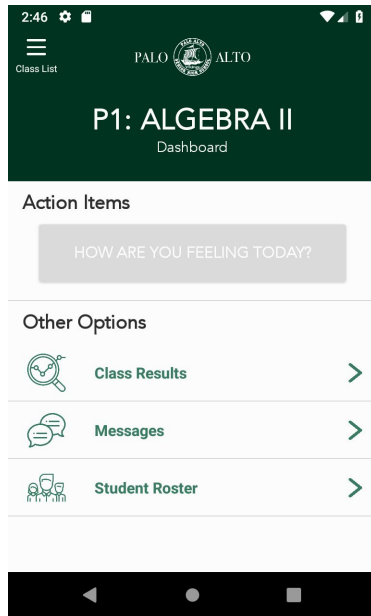


- Important reason for implementing social and emotional learning
 - Identify “outliers”
- Complicated for a teacher to do on their own

Flagged Students



Teacher Messages





Future Enhancements



Hard Coded Data

- Graphs
- Assumed accounts for teachers and students were already created
 - Classes are automatically set up

Wizard of Oz Techniques



- Synthesizing Data
- Message Functionality
- Displaying results between the teacher and student UIs

Ideas for Additions



- Lesson plan suggestions, as shown in concept video
- Incorporate more images into design
- Possibly switching to React Native??



Summary

- Many **Design Evolution** features and changes
- Successfully implemented all 3 tasks
- More to develop
- We had a long journey and are excited for the next adventure!



Thanks!

Any questions?