



# EDUCONNECT

Paulina Reyes



Jailene Miranda-Enriquez



Sanura N'Jaka



Na He Jeon



# The Team



Sanura

Junior, CS



Jailene

Junior, CS



Na He

Co-term, CS



Paulina

Junior, CS



# Outline

1. Prototype Changes
2. Method
3. Results
4. Discussion
5. Summary

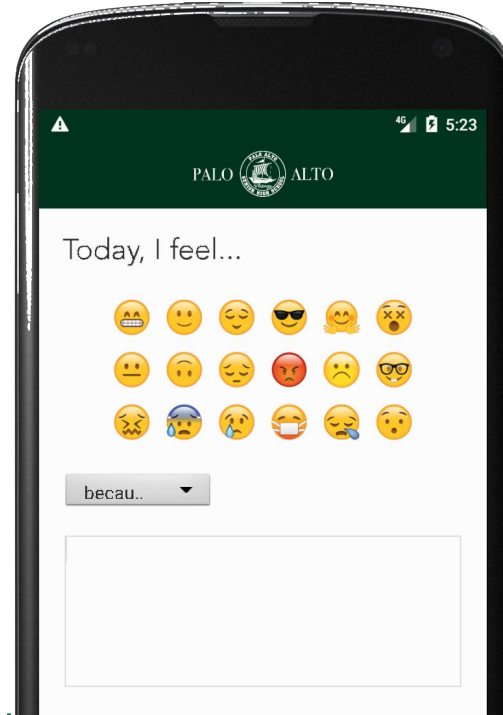
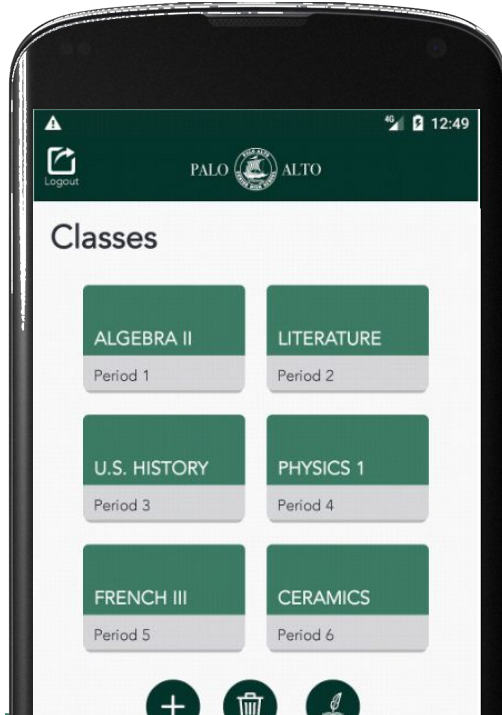


# Prototype Changes

# Change 1. Flow for the Simple Task



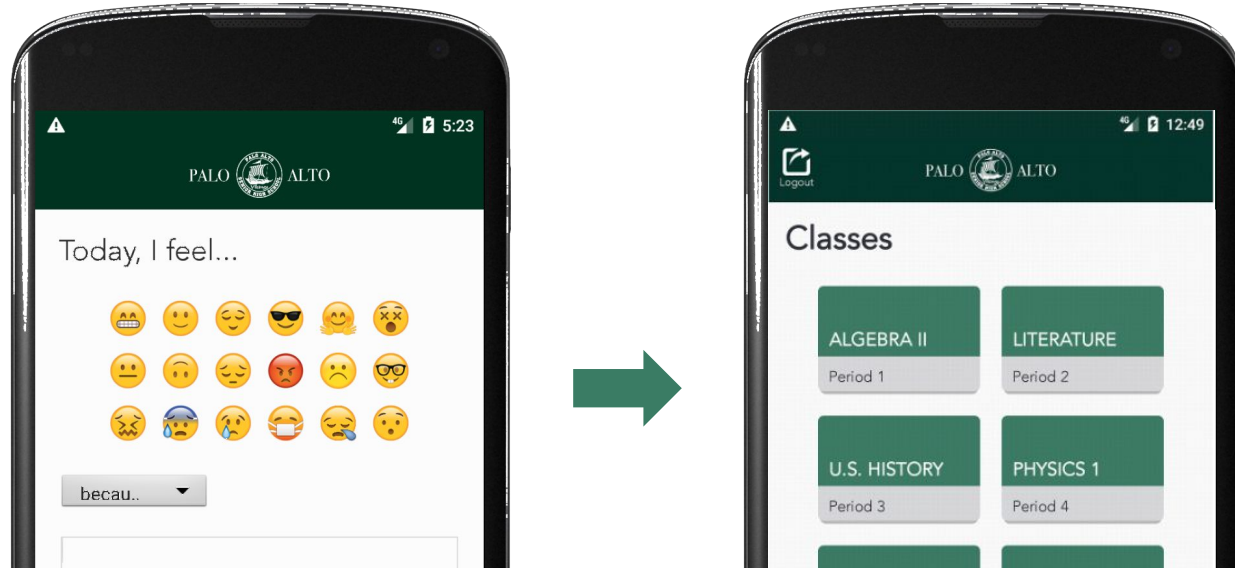
Original



# Change 1. Flow for the Simple Task

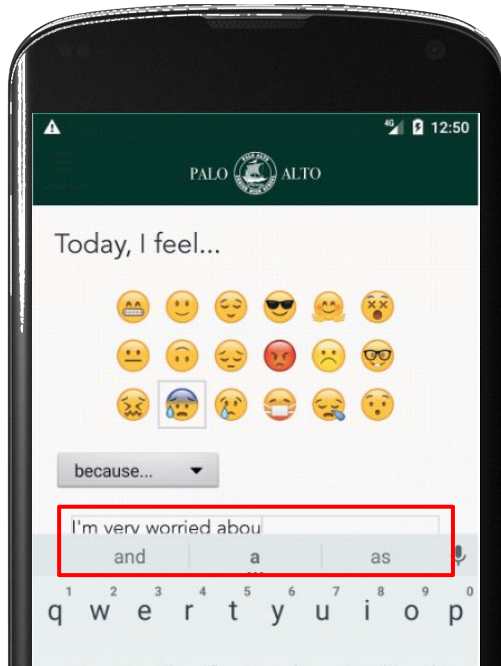


Change



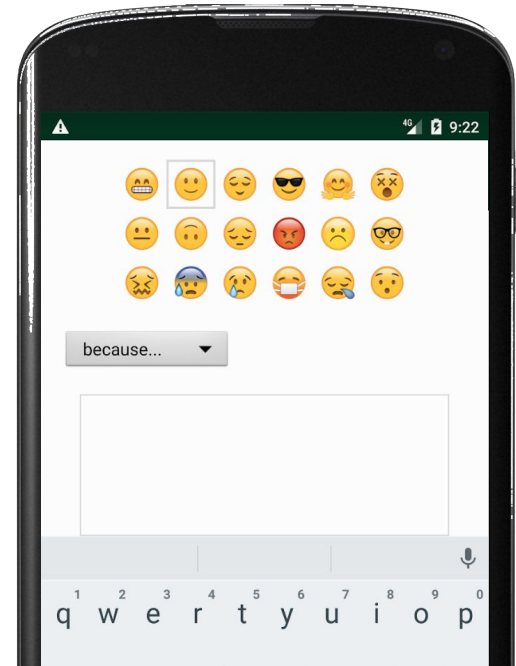
Removing the extra step between the user and his/her emotions

# Change 2. Text Box



Original

- We had a **bug** that prevents users from seeing what they type
- Crucial to fix before further testing and development

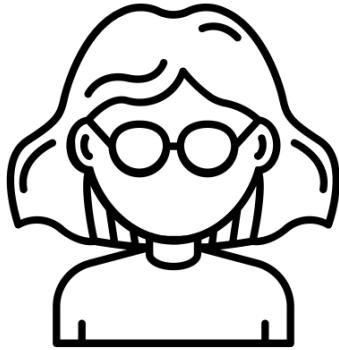


Change



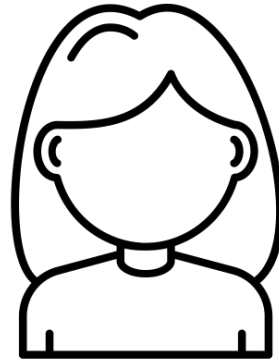
# Method

# Participants



**Cheili Castaneda**

Sophomore in  
Gunderson High  
School



**Ashley Diaz**

Program Supervisor  
of Third Street  
Community Center



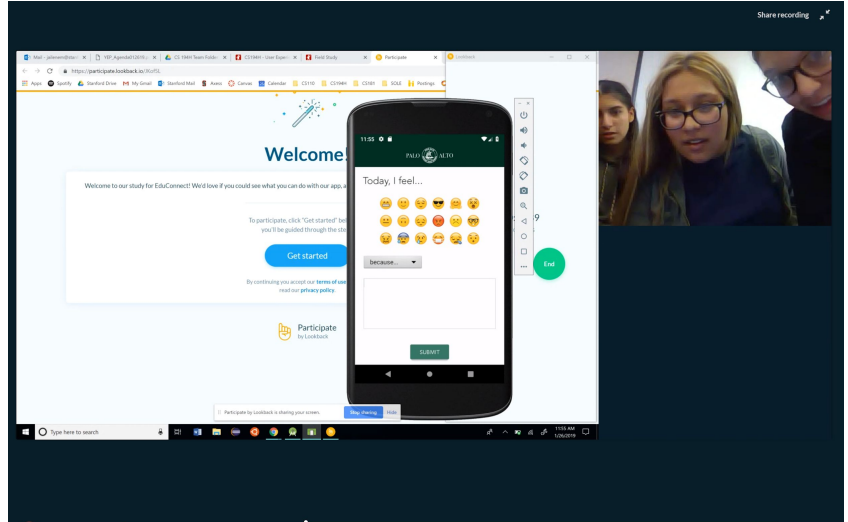
**Brigid Baker**

Freshman at Palo  
Alto High School



# Apparatus

- Android Studio **Emulator** on laptop
- Recorded using **Lookback**
- Tests were run in a **closed classroom** environment in Third Street Community Center for Ashley and Cheili and in a **quiet side lounge** in Brigid's home (freshman dorm)



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



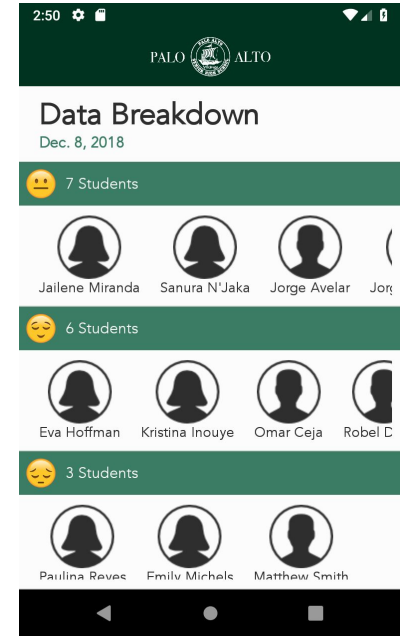
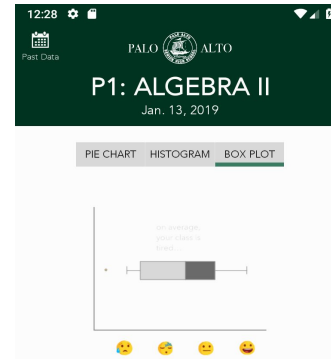
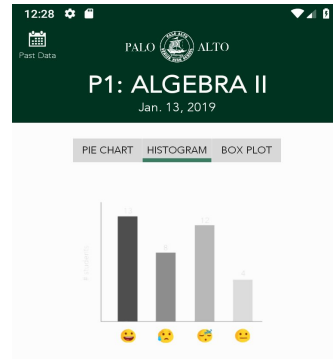
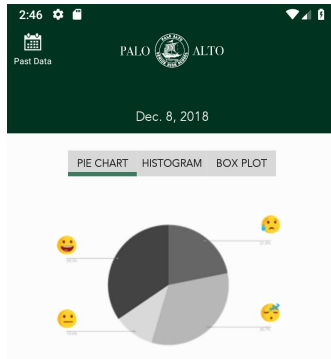
- Reactions to emoji options
- Thoughts on prompt starter

A screenshot of a mobile application interface. At the top, there is a dark green header with the text "PALO ALTO" and a circular logo. Below the header, the text "Today, I feel..." is displayed. Underneath this text is a grid of 18 yellow emoji options arranged in three rows of six. The first row includes: a grinning face with big eyes, a smiling face with smiling eyes, a closed-mouth smiling face, a face with sunglasses, a face with a neutral expression, and a face with X's for eyes. The second row includes: a neutral face, a face with a neutral expression, a face with a neutral expression, a face with a neutral expression, a face with a neutral expression, and a face with a neutral expression. The third row includes: a face with a neutral expression, a face with a neutral expression, a face with a neutral expression, a face with a neutral expression, a face with a neutral expression, and a face with a neutral expression. 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 field. At the bottom of the form is a green button with the text "SUBMIT" in white. The entire form is set against a light gray background. The top of the screen shows a status bar with the time "2:26", a battery icon, a Wi-Fi icon, and a signal strength icon. The bottom of the screen shows a black navigation bar with three icons: a back arrow, a home circle, and a recent apps square.

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



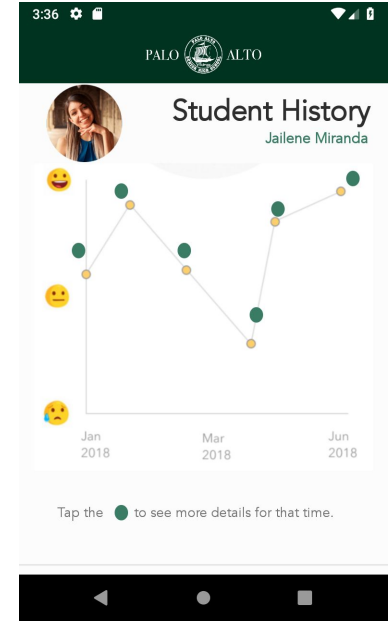
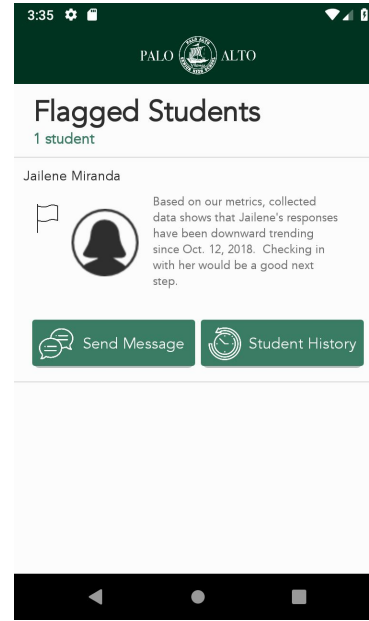
- Thoughts on types of graphs and organization of data breakdown page



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



- Thoughts on student history page and messaging students



# Complex (for students): **Reach out to a teacher for more support.**



- Thoughts on being able to message teacher





# Procedure

1. Began **Lookback recording**
2. Described **scenario** for both parties
3. Gave a quick one minute **demo** of how the app works and its features
4. Gave them a **notecard of the simple task** they need to complete
5. Asked for **feedback** on completion of task
  - a. What they liked/what needs to be modified
6. Repeat steps 4-5 on **moderate** and **complex** tasks
7. After completed all tasks, gave them time to **experiment with other features** that they did not interact with while completing the tasks (i.e. "Your History" for students)
8. Asked for any last overall feedback



# Test Measures

- Amount of **time** for user to complete a task
  - Helps us understand if a task is not intuitive/if it takes too much time to complete
- **Number of errors** while completing a task
  - Want to point out what specifically is confusing the user when trying to achieve the given task
- **Critical incidents**
  - Comments on things they like
  - Comments on things they think need changes



# Results

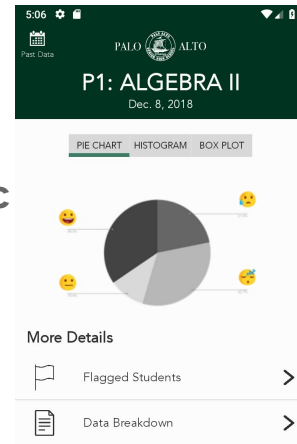


# Results - Task Time

- Simple task: **~30 seconds**
  - Teacher took **10 seconds longer** filling out feelings submission form since she **had to be more careful** in her response because ALL of her students are going to see it
- Moderate task: **~30 seconds**
  - 15 seconds of analyzing graphs
  - 15 seconds of analyzing data breakdown
- Teacher Complex task:
  - **one minute** to view an individual flagged student's history graph
  - Time to construct a message to reach out to flagged student varies on teacher
- Student Complex task: **less than one minute**
  - Depends on how long it takes them to write their message to their teacher

# Results - # of errors when completing task

- Simple task: **no errors**
- Moderate task: **1 error**
  - Teacher participant **clicked on a specific section of the pie chart** for more data analyzation instead of going to the data breakdown feature
- Teacher Complex task: **1 error**
  - On the Flagged Students page, teacher **clicked on student profile icon** to try to access their information instead of clicking the “Student History” button



The screenshot shows a mobile app interface for 'PALO ALTO' at 3:35. The main title is 'Flagged Students' with the subtitle '1 student'. Below the title is a section for 'Jailene Miranda' with a profile icon (a silhouette of a person's head and shoulders). To the right of the profile icon is a text box that reads: 'Based on our metrics, collected data shows that Jailene's responses have been downward trending since Oct. 12, 2018. Checking in with her would be a good next step.' At the bottom of the page are two buttons: 'Send Message' and 'Student History'.



# Results - Critical Incidents

***“Since there’s a button to edit my response, I would like to see a preview of my response to have a better understanding of whether or not I do want to edit it.”***

- Ashley suggested after submitting her response and having to think back to what she wrote

***“That’s lit!”***

- Cheili commented after submitting her response and reading the teacher response

***“I want a sleepy emoji. With the zzz ☐”***

- Brigid commented when viewing the emoji options

***“Students come to class with different moods and it’s nice for teachers to know how they’re feeling so that they know how to address the student”***

- Ashley expressed when giving overall feedback



# Discussion

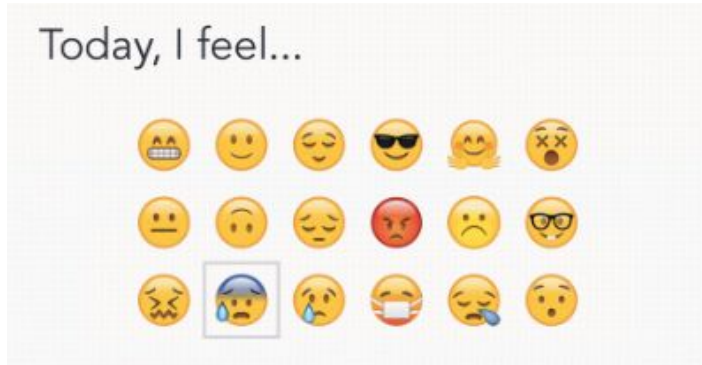


# Changes for real experiment

- Want to **test live** on an actual **high school class**
  - Test with just the teacher so that they become familiar with the app
  - Coordinate with teacher what day would work best to run app with their students **during class**
  - **Accounts will already be created for students**, will give them sign in info (username/password)
  - Give a quick explanation to students (**includes showing them teacher interface**) and have them and their teacher complete the tasks

# Emoji List

## Current

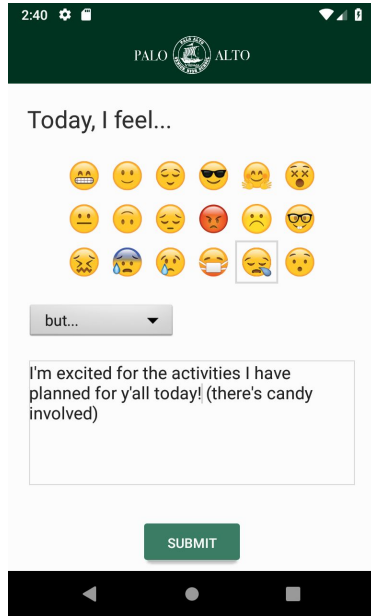


- Feedback about emotions or states of being **not represented** in the current list
- The current list was put together by **convenience of implementation**, rather than deliberate choice
- Necessary to reconstruct:
  - Use **minimum number of emojis** to cover the spectrum of student emotions **as fully as possible**





# Submission Page for Teachers



2:40

PALO ALTO

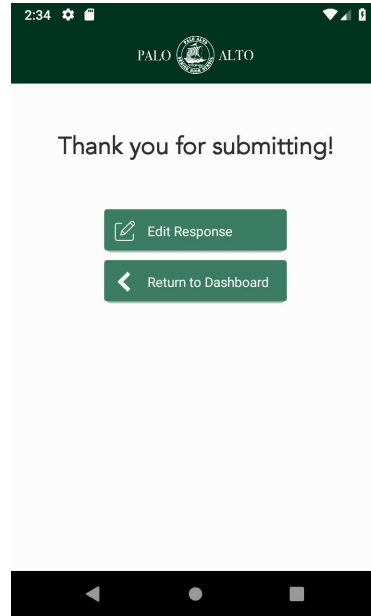
Today, I feel...

☺️ 😊 😌 😎 😄 😱  
😞 😓 😔 😡 😠 🧐  
😵 😭 😢 😏 😭

but... ▾

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

SUBMIT



2:34

PALO ALTO

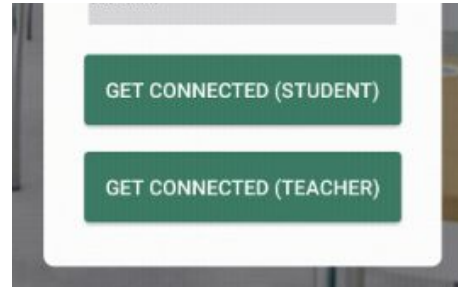
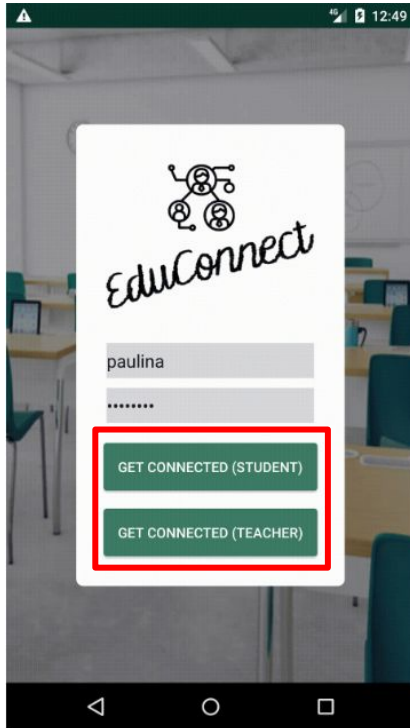
Thank you for submitting!

Edit Response

Return to Dashboard

- Include a **preview** of the teacher response in the “**Thank you for submitting**” page so that they can better understand if they want to edit it

# Login



- Current login module pretty **clunky**
  - Two identical login buttons
  - **Awkward parentheses**
- **Create a separate step** where user can choose student/teacher
  - not sure whether it should be before or after entering the login credentials



# Summary



# Summary

- **WE DID:**
  - Made new changes based on our intuition from last quarter
    - Order of screens, text box bug
  - Tested our prototype
  - Synthesized our observations for new changes
    - Emoji list, submission page for teachers, login
- **WE LEARNED:**
  - Our tasks are straightforward and easy to work with
  - High school students focus on the emojis, so we should give them what they want



# Thanks!

Any questions?