



# TellUs

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. Introduction
2. Method
3. Test Measures
4. Results
5. Discussion
6. Summary



# Introduction



NEW LOGO!!!



### **Problem**

Classroom does not always invite open and honest emotions



### **Solution**

Mobile app that collects data on how a teacher and their students are feeling to encourage fruitful student/teacher dynamics

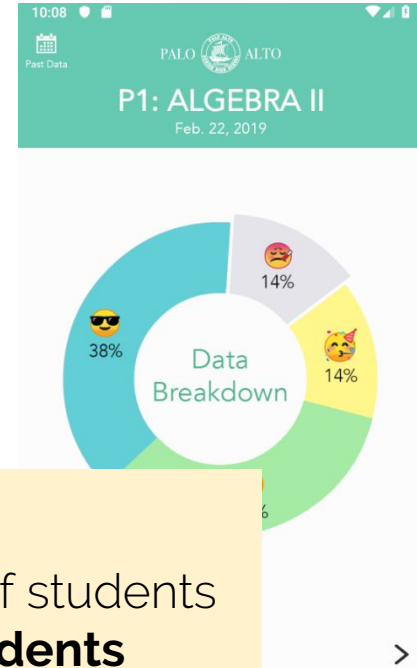
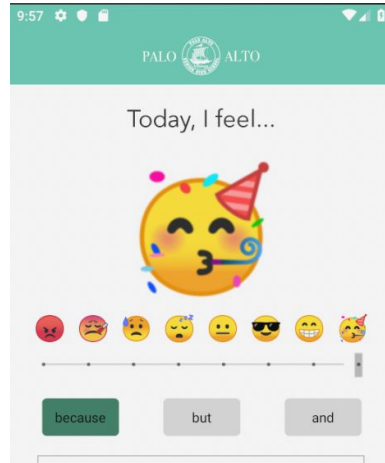
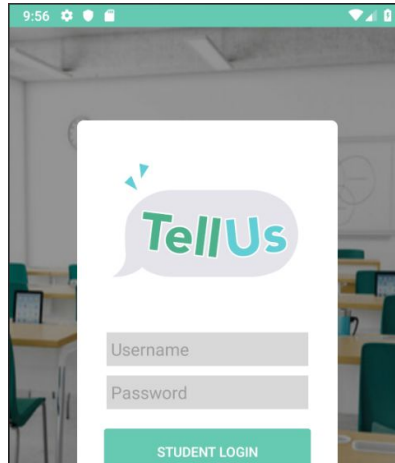


### **Value Proposition**

Understand, connect, and engage with your students



# The System



- **Simple task:** Submit feelings via **emoji slider**
- **Moderate task:** Teachers view **data breakdown** of students
- **Complex task:** Teachers reach out to **flagged students**



# Purpose of the Experiment



- Intended for classroom use with a teacher and many students
- Tests until now had been with standalone individuals



# Method



How do you get access  
to a classroom?

**Question**

- To: kbowers Stanford CS Project App Testing Request - Hello Ms. Bowers!! Hope everything is ...
- To: bbolanos, bcc: ... Stanford CS Project App Testing Request - Hello Mr. Bolanos!! Hope everything is ...
- To: gblackburn, bcc: ... Stanford CS Project App Testing Request - Hello Mr. Blackburn!! Hope everything i...
- To: sbartlett, bcc: ... Stanford CS Project App Testing Request - Hello Ms. Bartlett!! Hope everything is ...
- To: zbarnes Stanford CS Project App Testing Request - Hello Mr. Barnes!! Hope everything is w...
- To: mbarcelona Stanford CS Project App Testing Request - Hello Ms. Barcelona!! Hope everything i...
- To: mbalsam, bcc: ... Stanford CS Project App Testing Request - Hello Ms. Gonzalez-Balsam!! Hope ever...

### Requesting to Test an Educational App



**Na He Jeon** <nahejeon@stanford.edu>  
to Marty, Sanura, Paulina, Jailene

Dear **Marty**,

My name is Na He Jeon, and I am currently a coterm at Stanford. I am writing to ask if you team's educational app for 5-10 minutes at the beginning of CS193A (Android Programmir CS 194H (User Interface Design), and our instructor, Professor Landay, suggested that yo ask to try it out in a classroom setting.

More info about our app: EduConnect aims to improve teacher-student connections by ask quick emoji check in form before the lesson begins. Teachers receive the synthesized data that they can easily see how their students are feeling and can tailor the classroom experi gifts of the teacher (left) and student (right) interfaces for the simple task of submitting how

**Ashley Diaz** 11:55 AM  
To You and angel@brightfuturesj.org

Hi Jailene,  
Unfortunately we do not have program all this week. Our high school students don't usually come to our afterschool program anyways, since we serve only 1st-8th grade. However, I do have someone in mind who works with High school students in an afterschool program. They do not have program all week since they are on break but maybe you can do this next week? I am connecting you to Angel, the program coordinator of this program. I spoke to him about it but he would like to get more of an insight from you. I hope this helps.

Best,  
**Ashley Diaz**  
Program Supervisor  
Third Street Community Center  
160 N. 3rd Street  
San Jose CA 95112

Reply to All  
📧 🔍 19

# Participants



## Teacher

Minh Ngo Duc

TA for ME 1: Introduction to Mechanical Engineering

The class had 15 students, but we asked for volunteers



## Students

Giovanni, Ellie, Lisa

Students at Minh's section

Freshmen





# Apparatus



**Samsung  
Galaxy phones**



**Google Forms**



**Participate**  
by Lookback

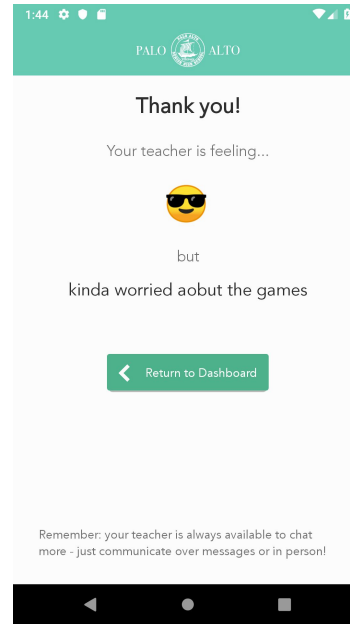
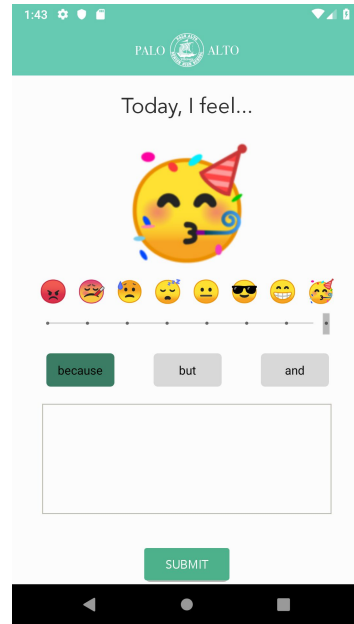
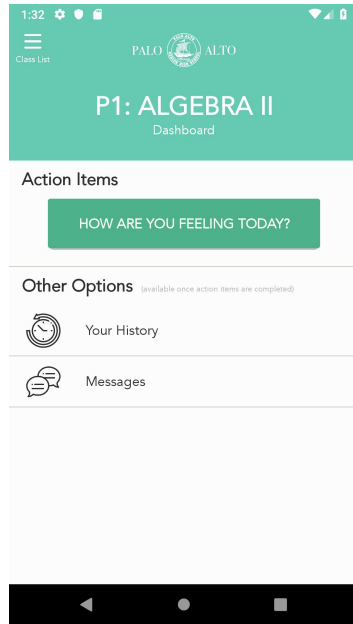
**Lookback**



**Building 520 (ME)**



# Simple task (for students and teachers): Share how you are feeling at the beginning of class



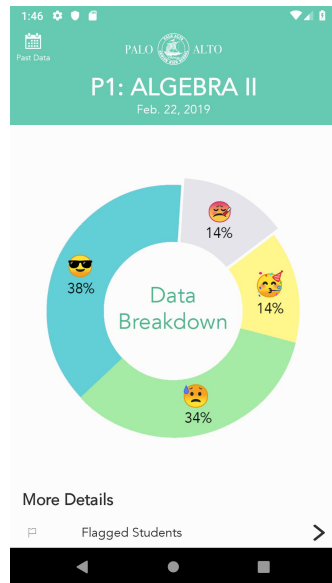
Is the UI intuitive?

Is it hard for users to figure out how to use the emoji slider?

Does the linear relationship make sense?



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



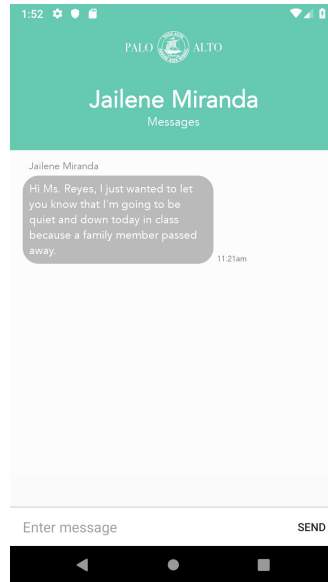
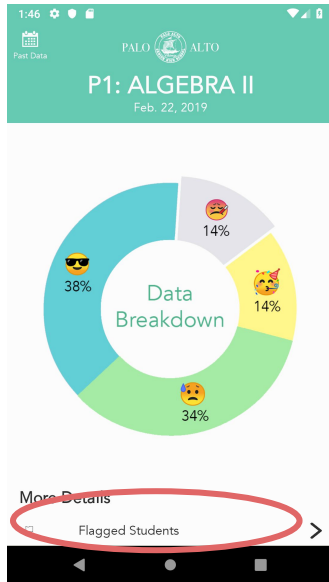
Changes:

- Only one type of chart (pie chart)
- Chart page and Data Breakdown page combined

Is it easy to understand the chart?

Is the teacher's curiosity about her students fulfilled?

# Complex task (for teachers): reaching out to each other



Is it easy to find out?

Can the participants navigate through the functionality without guidance?

# Procedure

## Teacher



1. Submit name and email into Participate app
2. Once mic and camera are enabled, start session
3. Open TellUs app
4. Login with credentials (name and 1234)
5. Complete **first task** (How are you feeling?)
6. Complete **second task** (View Data Breakdown)
7. Complete **third task** (View flagged students)

## Student



1. Submit name and email into Participate app
2. Once mic and camera are enabled, start session
3. Open app
4. Login with credentials (name and 1234)
5. Complete **first task**
6. View Student History and Message teacher (**third task**)
7. End session and upload to LookBack



# Test Measures

# Test Measures



1:43

PALO ALTO

Today, I feel...

🎉😄

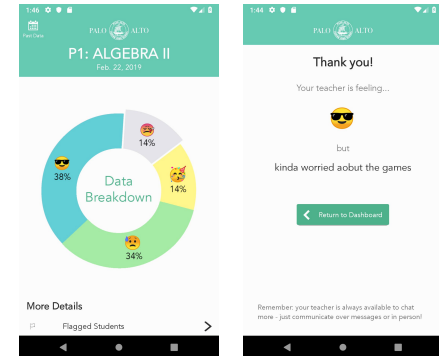
🤔 🤨 😞 😐 😊 😎 😄 🤪

because but and

SUBMIT

- How long did it take for them to figure out this UI?
- What emoji did they choose?
- What did they write on the response?
- Google Form responses

- Unexpected lags
- Emotional responses
- Time for the whole session



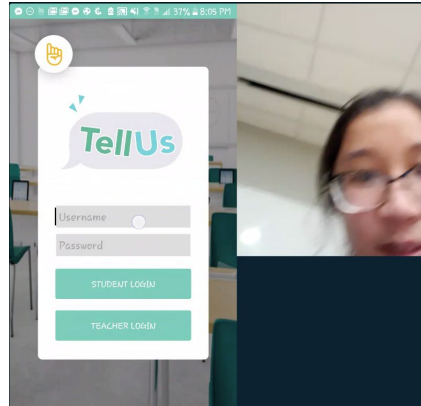


# Results

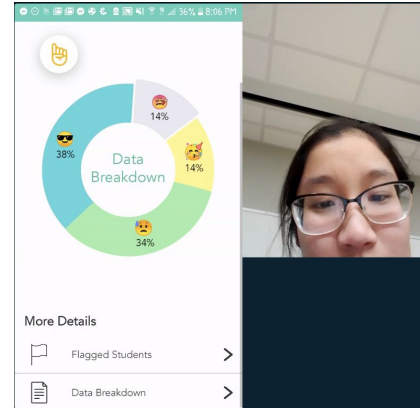
# Teacher-specific observations



<https://lookback.io/watch/jougcNiSuzn7FAwx4>

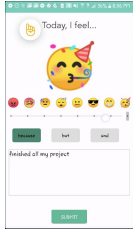


Accidentally logged  
in as student

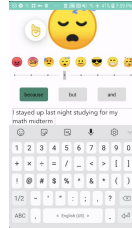


"Oh, pretty!"

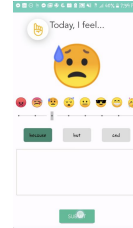
# Emoji sliders



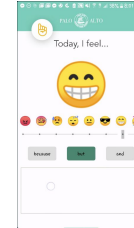
Minh  
(Teacher)



Giovanni



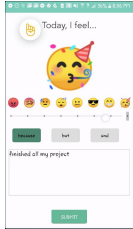
Lisa



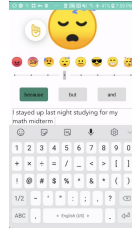
Erin

lag until first action	no lag	5 seconds	6 seconds	5 seconds
time on this screen	10 seconds	50 seconds	30 seconds ( but didn't have text)	42 seconds
confusions	None (There was one but it was due to a bug in our system)	Clicked on the emoji twice before figuring out it was a slider	Spent 10 seconds trying to figure out how to change the emoji	Tried clicking on the emoji first

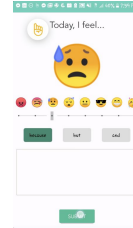
# Emoji sliders



Minh  
(Teacher)



Giovanni



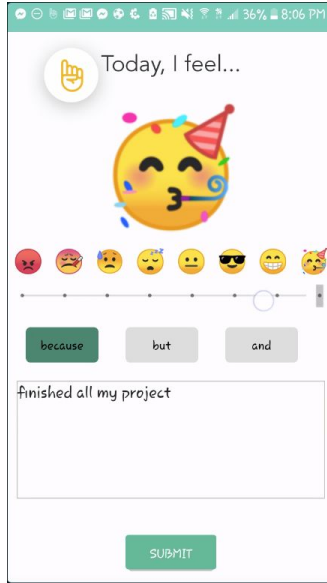
Lisa



Erin

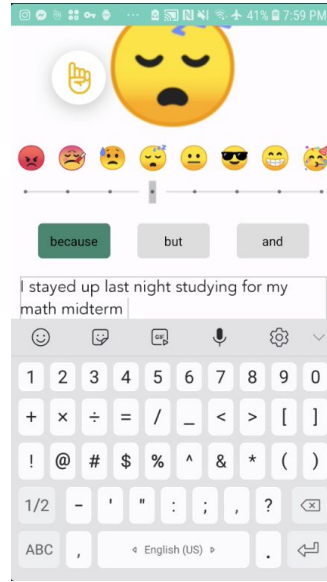
lag until first action	no lag	<div style="border: 2px solid yellow; padding: 10px;"> <p><b>Google Forms Feedback</b></p> <p>wasn't intuitive</p> <p>Easy to use.</p> <p>I couldn't tell it was there right away.</p> <p>Your default should be the middle</p> </div>	5 seconds	
time on this screen	10 seconds		( but ext)	42 seconds
confusions	None (There was one but it was due to a bug in our system)		conds are out ge the	Tried clicking on the emoji first
		a slider	emoji	

# Emoji sliders



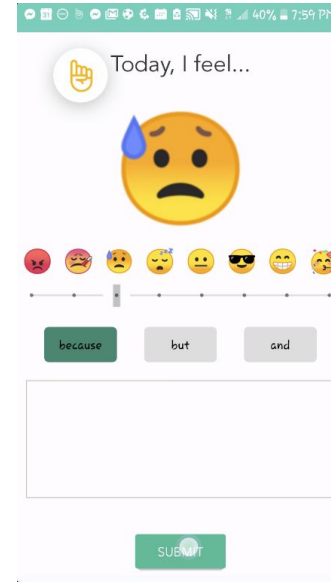
**Minh  
(Teacher)**

<https://lookback.io/watch/jo-ugcNiSuzn7FAwx4>



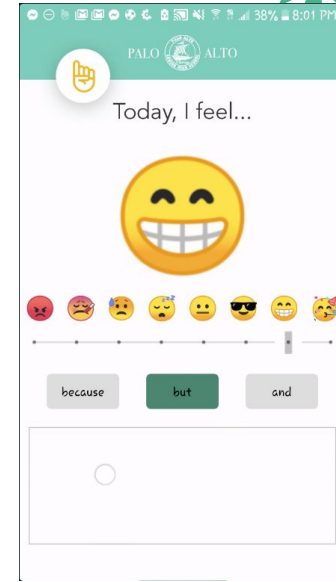
**Giovanni**

<https://lookback.io/watch/jh-iBMrpoSjzzMyv8N>



**Lisa**

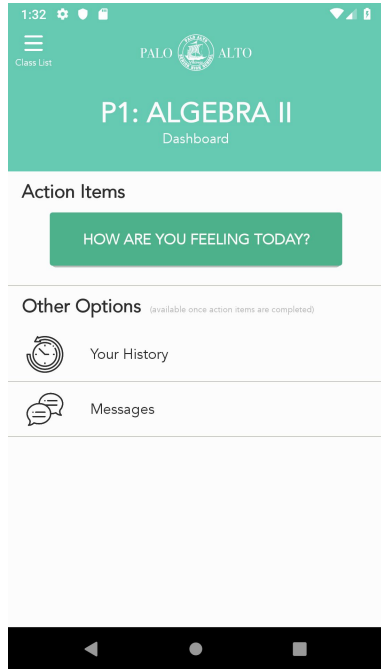
<https://lookback.io/watch/8jr-X3hedu7AZSng5Z>



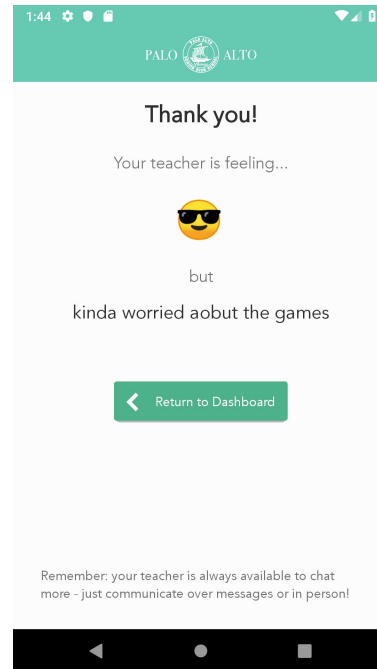
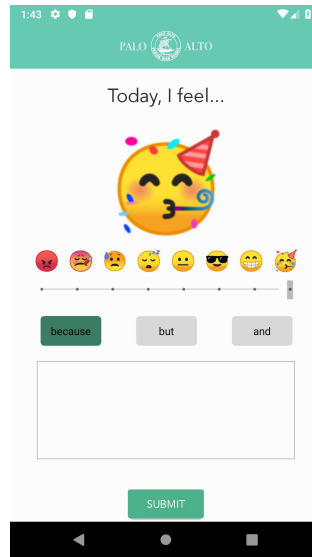
**Erin**

<https://lookback.io/watch/3-gvcCvrZZff9ESvAn>

# Unnecessary steps



“Do I click this?”

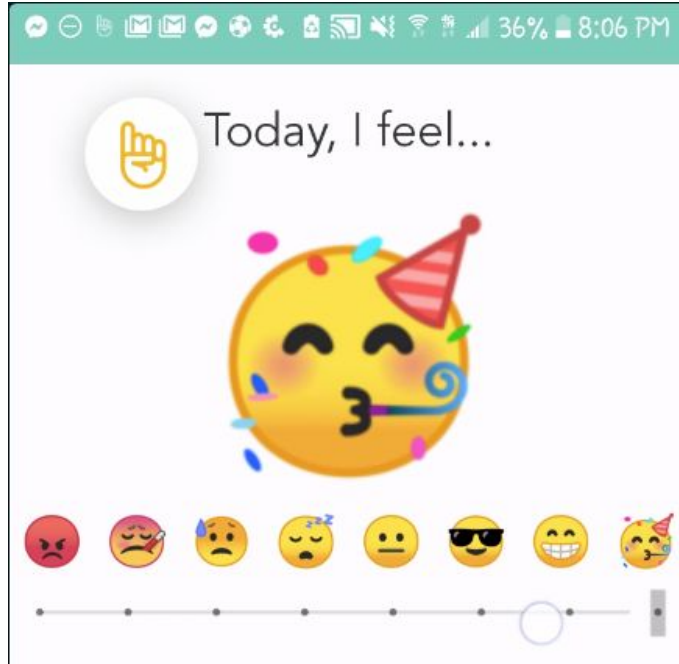


“That’s it?” x2



# Discussion

# What we learned



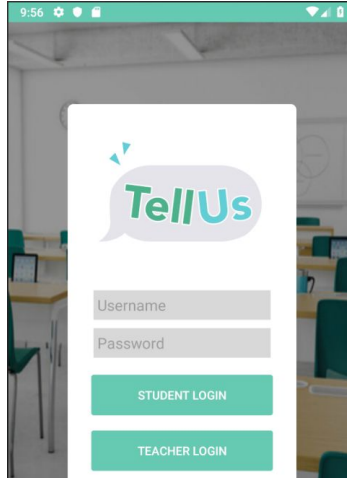
No handholdings  
**NEED MORE TEACHERS!**

Some confusing flows

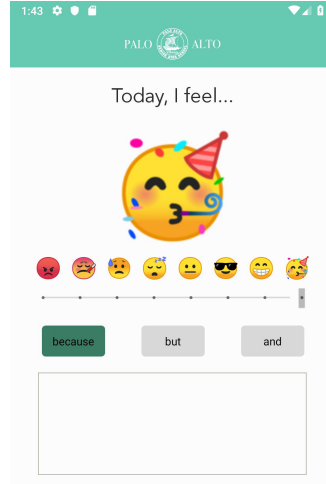
Redundant pages

Needs redesign!!

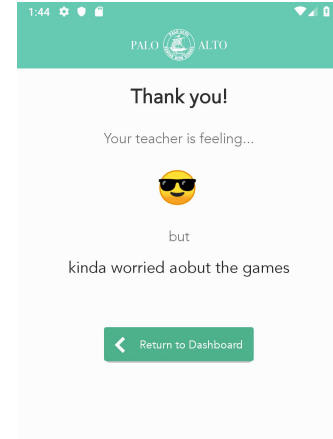
# Changes



- Combine the logins into one
- Make user specify teacher/student at sign up



- Make the emojis clickable
- Remove the slider (?)
- Make the default **not** be an emoji, but a blank screen or a question mark



- Route straight to the dashboard
- Make the teacher response be a pop-up rather than a separate page in the flow



# Difficulties



Android-only apps  
have low accessibility



Connections matter



One teacher per class



# Summary

# Summary



- Most confusions in the “simple task” of emoji slider
- Will consider the feedback and data to redesign
- But other than that, the usage flow was pretty smooth



# Thanks!

Any questions?