

PLANET

HI-FI PROTOTYPE

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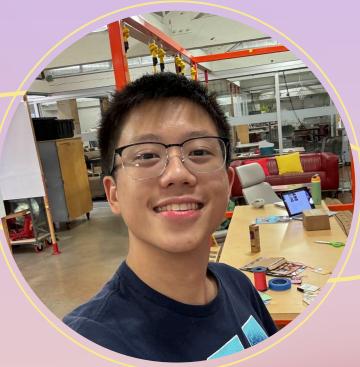
WE ARE TEAM PLANET!



Kristine Ma
Junior
Symbolic
Systems (HCI)



Carolyn Lee
Junior
Computer
Science (HCI)



Lucas Wang
Sophomore
Design +
CS (HCI)



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Junior
Human Biology
+ CS (HCI)

PROBLEM OVERVIEW



PRIMARY USER

College students with existing friends, who find it difficult to reach out



PROBLEM WE'RE TACKLING

Connecting to friends is seen as time consuming and inconvenient to the other person

SOLUTION



PLANET!

A tool that allows users:

- update friends on their own mood and status,
- easily find out availabilities on friends' schedules,
 - quickly propose hangout times.



**FRIENDS LIVING IN DIFFERENT WORLDS?
JUST PLAN(ET).**

VALUE PROPOSITION

Planet lets you **visually connect** with your friends' emotions and statuses **in real-time**, so you **never feel alienated** and always know who's able to hang out or needs companionship.

CONTENTS



01

HEURISTIC EVALUATION

02

HIFI REVISIONS

03

HIFI IMPLEMENTATION

04

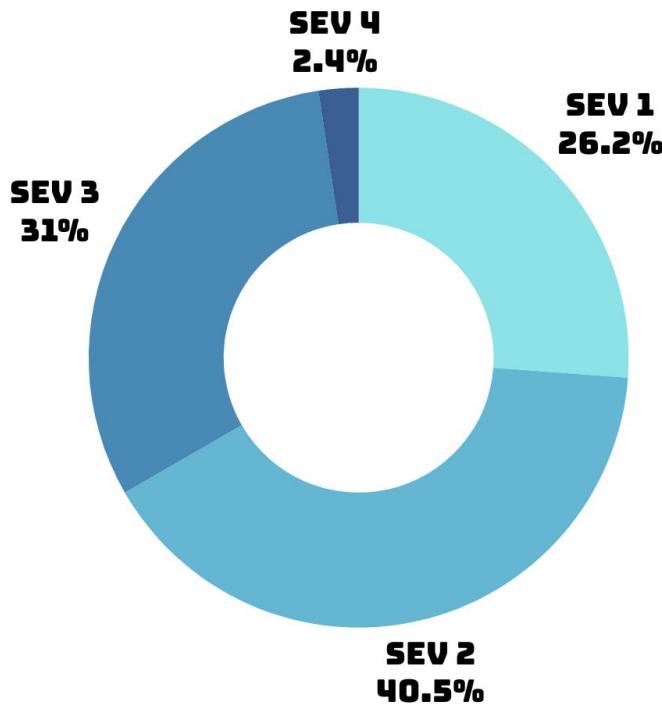
DEMO OF A TASK

01



HEURISTIC EVALUATION RESULTS

42 TOTAL VIOLATIONS

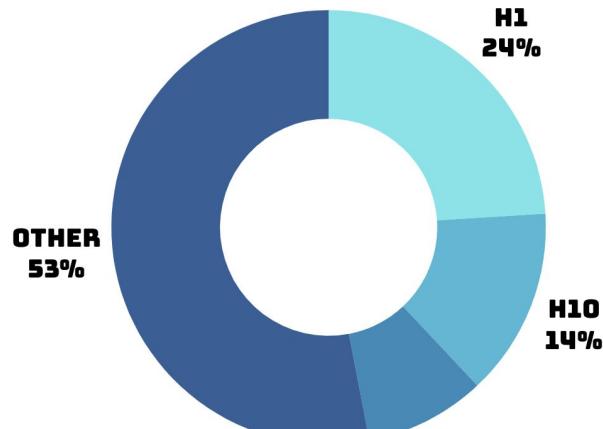


SUMMARY OF VIOLATIONS

	SEV 3	SEV 4
H1	3	0
H2	1	0
H3	0	0
H4	0	0
H5	1	0
H6	2	0

	SEV 3	SEV 4
H7	1	0
H8	1	0
H9	1	0
H10	2	0
H11	0	0
H12	1	1

MOST COMMON VIOLATIONS



24%

H1: Visibility of
System Status

9%

H11: Accessible
Design

14%

H10: Help &
Documentation

TOTAL NUMBER OF REVISIONS

Severity 3-4:

- 14 HE violations → 13 revisions

Severity 1-2:

- 28 HE violations → 5 revisions

02



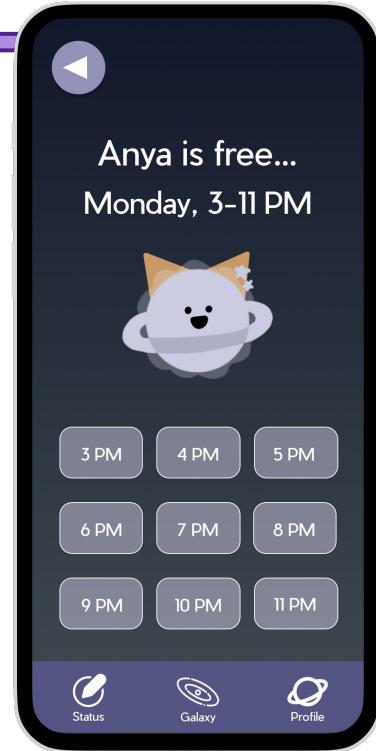
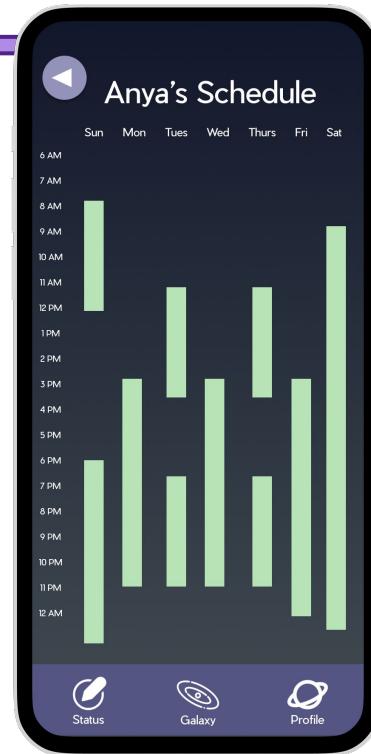
HIFI REVISIONS

ISSUE 1

- “I was not sure what to do once I was on the schedule page, didn't know that the time blocks were buttons” – All 3 reviewers

*H7: Flexibility & Efficiency of Use;
H10: Help & Documentation*

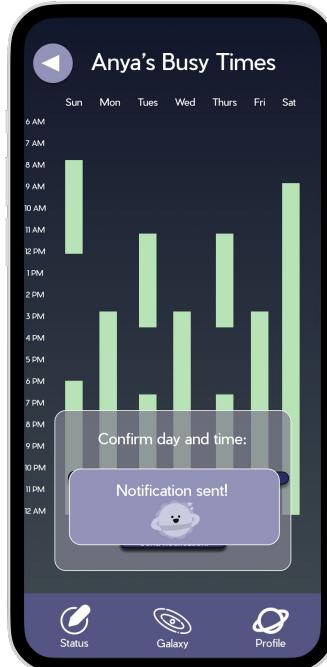
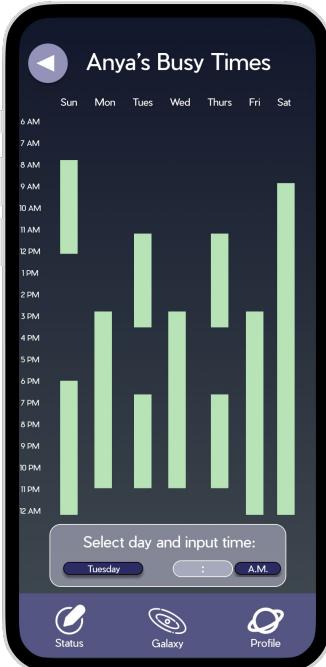
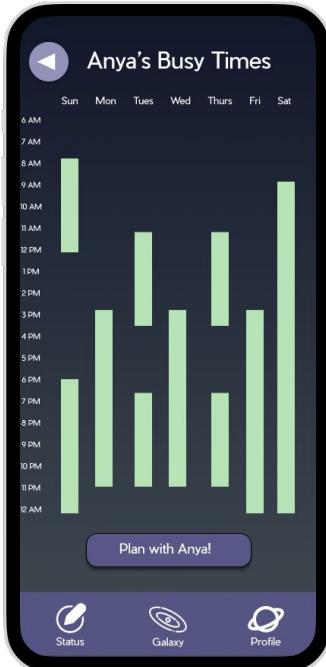
BEFORE



FIXES:

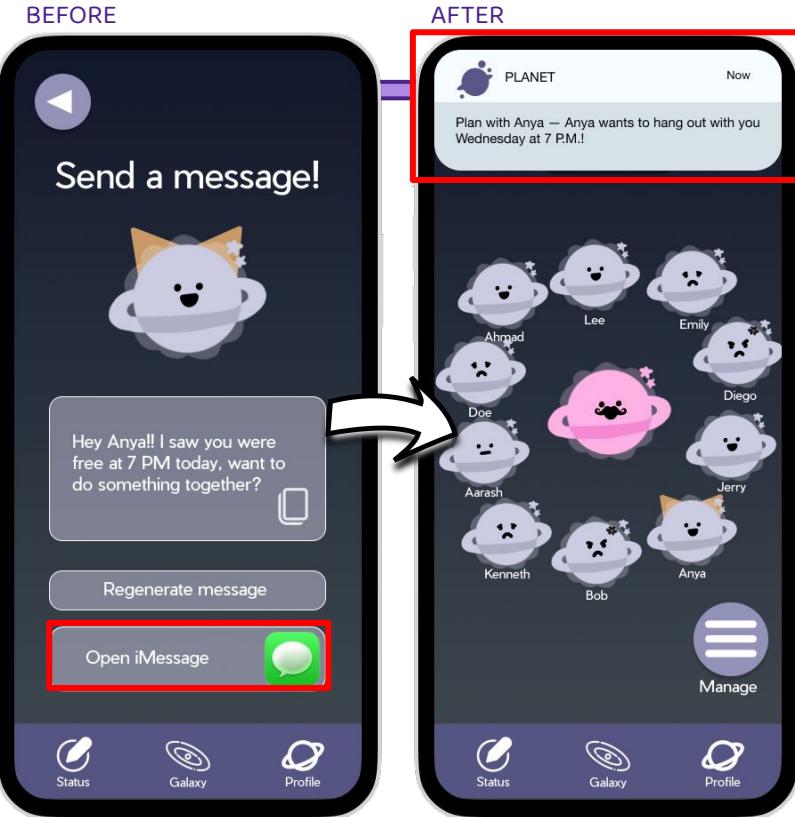
- Added "Plan" button underneath schedule
- Renamed title of schedule (HE#32, #33)
- Send in-app notification (not iMessage)

AFTER



FIXES:

- Messaging system → a ping-based system (HE #27)
- Aligns better with our aim to allow users a quick-and-easy way to reach out! (HE#28)



ISSUE 2

- “What happens if I can’t remember the look of a friends planet? What happens if they change their looks?” – All 3 reviewers

H6: Recognition not Recall



ISSUE 2

- "Some of the friend planets are smaller or bigger than others, does this mean they're more important, more active?"
– All 3 reviewers

H12: Value Alignment & Inclusion

BEFORE



FIXES:

- Standardized planet sizes (HE #30)
- Added names to planets (HE #29)

BEFORE



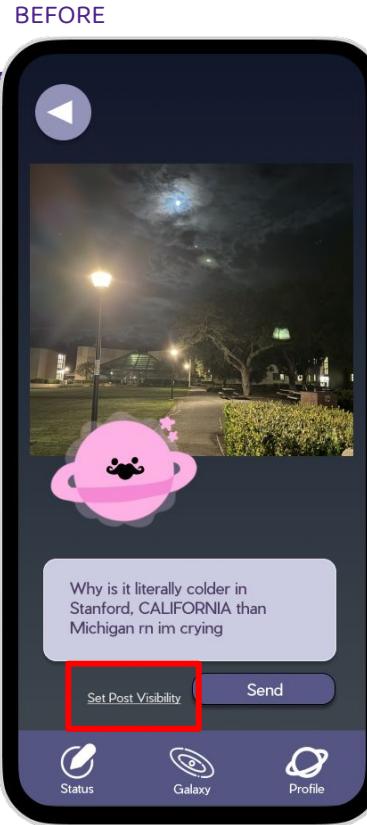
AFTER



ISSUE 3

- Setting post visibility is once-and-for-all;
- Can't access this info after posting.
 - All 3 reviewers

H1: Visibility of System Status

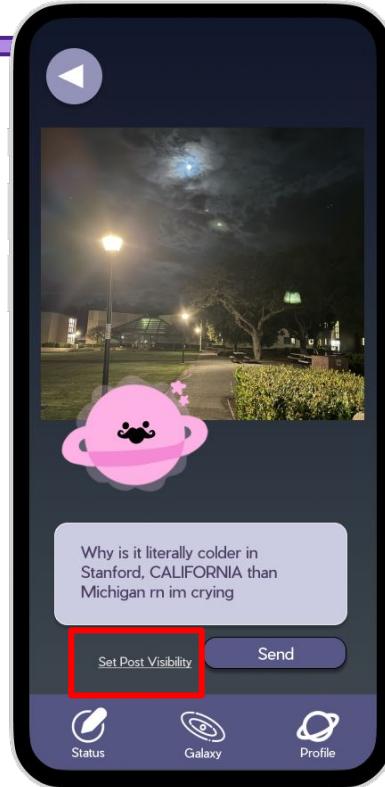


ISSUE 3

- “Shortcut from visibility changing screen and regular status creation screen can post status **without warning**” – All 3 reviewers

H5: Error Prevention

BEFORE

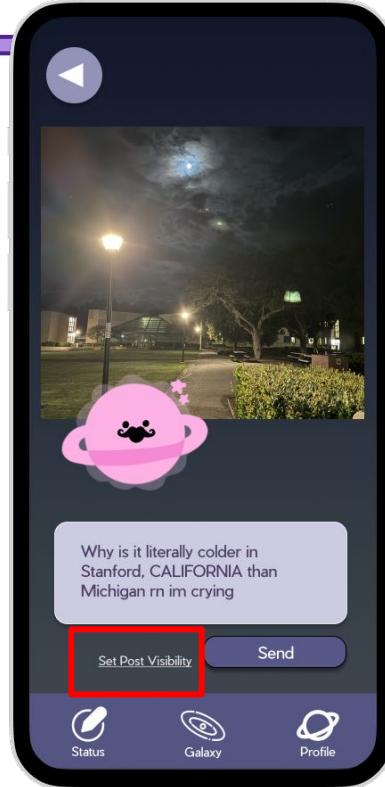


ISSUE 3

- “I clicked send for my emotional status **without noticing** that I should set my visibility.” – All 3 reviewers

H9: Help Users with Errors

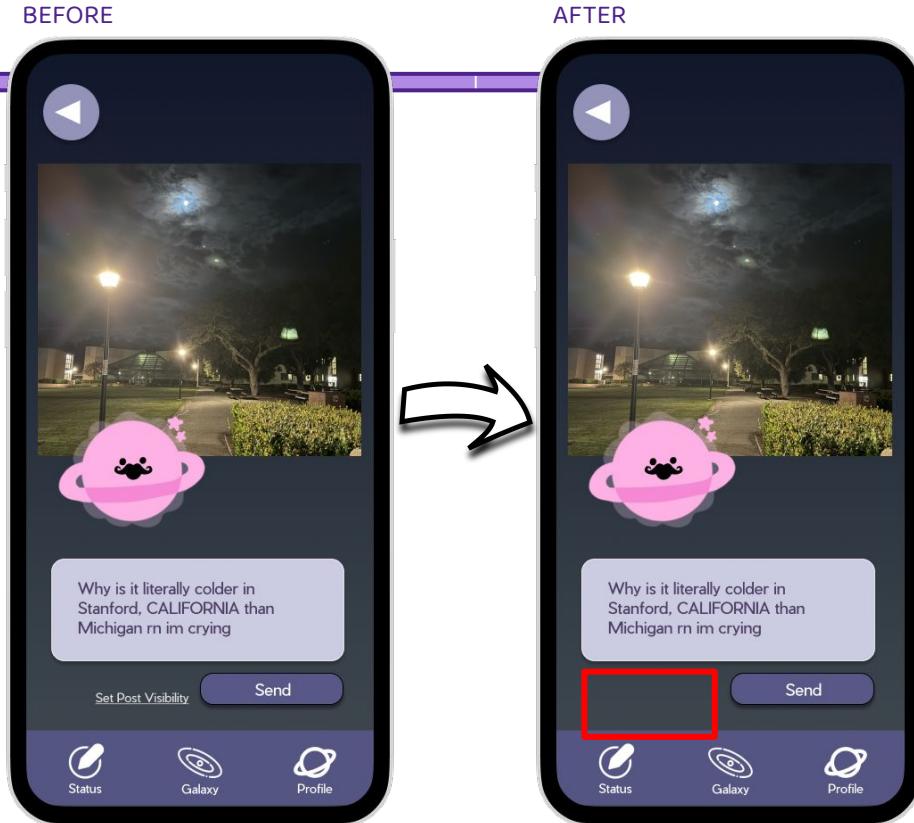
BEFORE



FIXES:

- Removed post visibility feature (HE #42)*

*Also addresses shortcut from visibility screen moving to wrong screen (HE #41), clicked send before knowing to set visibility (HE #38), and not knowing visibility of a post after sending it (HE #34)



ISSUE 4

- "Set Status" / "Your Status" page is inconsistent with "My Planet" and "My Orbit."
– 2 reviewers

H2: Match b/w System & World

BEFORE



ISSUE 4

- “Navigation bar could be more concise.” – 2 reviewers

H8: Aesthetic & Minimalist Design

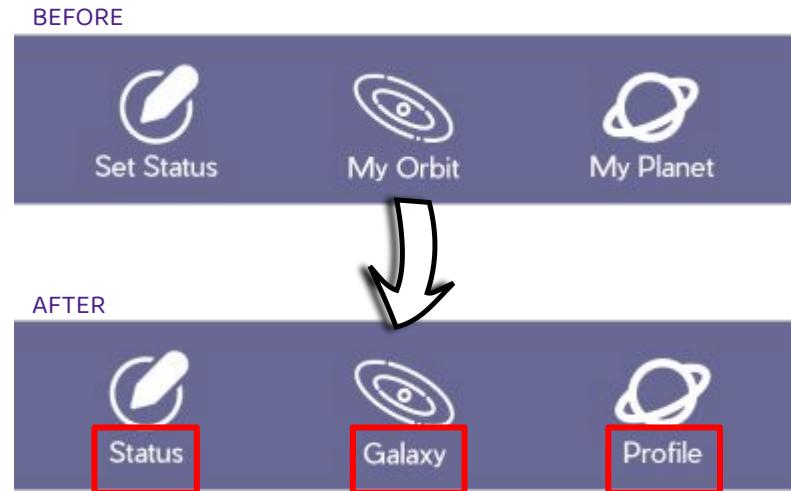
BEFORE



FIXES:

- Changed inconsistencies between "SET status" and "MY planet" and "MY orbit" by renaming all text (HE #36)*
- Which also makes navigation bar more concise (HE #37)

*Also addresses inconsistency with "Orbit" and "Galaxy" text throughout application (HE #40)

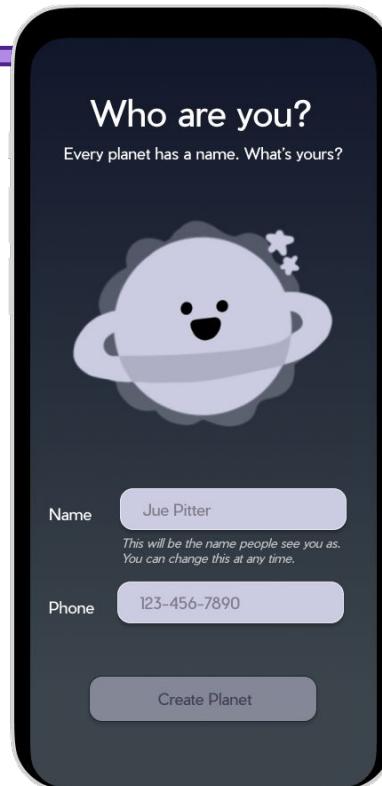


ISSUE 5

- “No back arrow to return to previous page when creating a galaxy.” – 2 reviewers

H5: Error Prevention

BEFORE



FIXES:

- Added back buttons to onboarding screen (HE #18)

AFTER



ISSUE 6

- “If I post a status to certain galaxies, what happens if I want to post a new status to a different galaxy?” – 1 reviewer

H12: Value Alignment & Inclusion

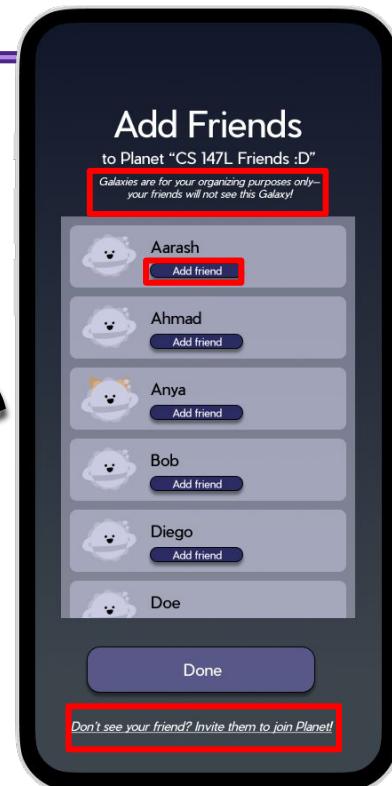
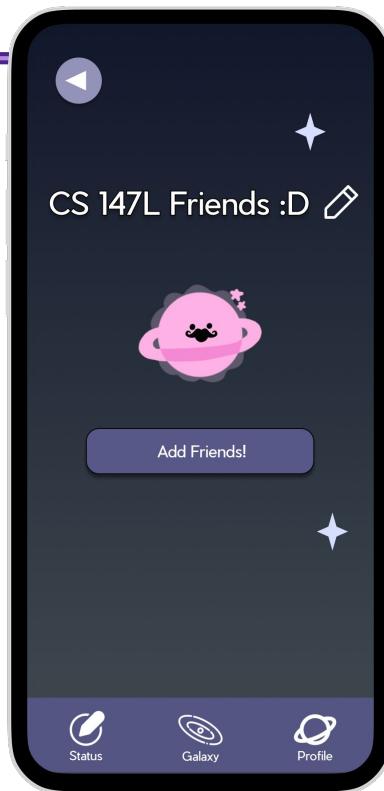
BEFORE



FIXES:

- Galaxy are only for organization, replacing the previous "friend group" concept
- Which dresses some errors with editing who is in a galaxy (HE #39)

AFTER

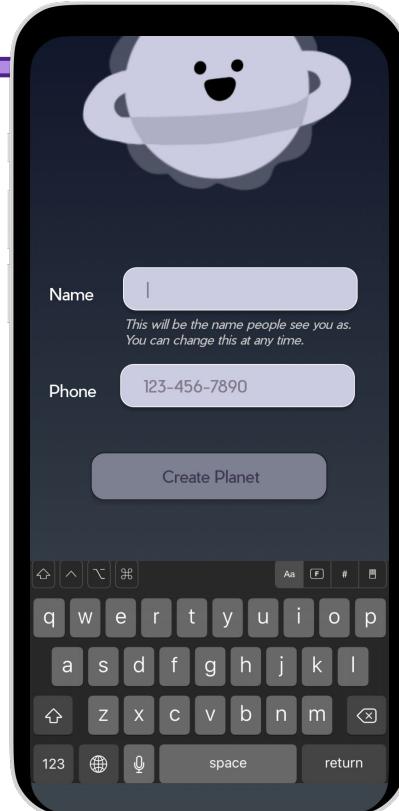


ISSUE ?

- “When creating an account and a name, it says that you can change this at any time... where?” – 1 reviewer

H10: Help & Documentation

BEFORE

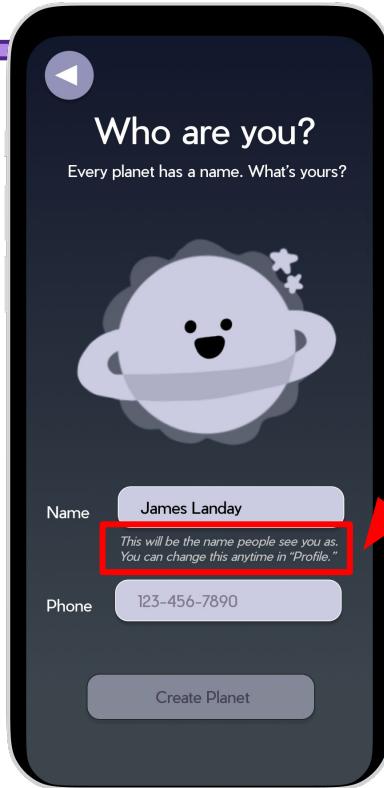


FIXES:

BEFORE



AFTER



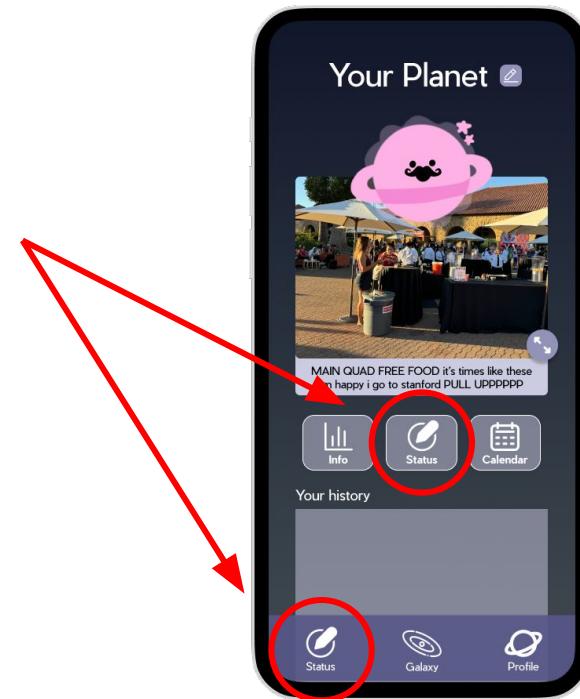
Added clearer
instructions in the
subtext below
entry box (# 31)

UNADDRESSED HIGHLIGHTS

- “You can ‘Set Status’ in two places on both “My Planet” and navigation bar ...” – All 3 reviewers

H4: Consistency & Standards

Reason for not addressing: There are many ways to do the same thing! (in successful apps!)



PROGRESS TOWARDS USABILITY GOALS



INTUITIVENESS

- Added **clearer text instructions** below entry boxes (e.g., for creating accounts and names).
- **Standardized planet sizes** and added names to planets for easier recognition.
- Renamed "orbit" to "galaxy" and ensured consistent text labels for better navigation.
- Friend organized through "galaxies" - easier than before!

PROGRESS TOWARDS USABILITY GOALS



EFFECTIVENESS

- Added back buttons to onboarding and other key pages for smoother navigation.
- **Fixed shortcut issues** to prevent accidental actions (e.g., posting statuses without setting visibility).



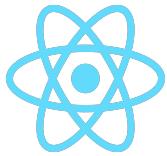
INCLUSIVITY

- Galaxies revamped to emphasize friendship & connection and prevent feelings of cliquiness and exclusion

03

HIFI IMPLEMENTATION

TOOLS USED



REACT NATIVE

Application
Framework



EXPO

Software
Development Kit



SUPABASE

Database
Management



FIGMA

Design
Components

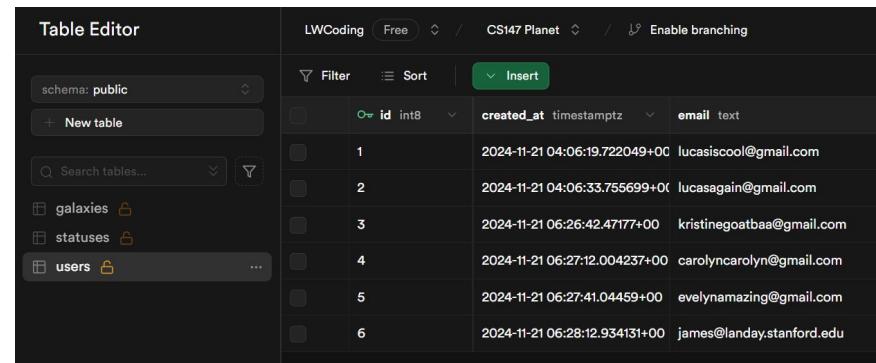


VS CODE

IDE for
Coding

IMPLEMENTED FEATURES

- Homepage screen
- Other user account screen
- User & statuses database
- Loading info from database



A screenshot of a Table Editor interface. The top navigation bar shows "LWCoding Free" and "CS147 Planet". The main area is titled "Table Editor" and shows a table with the following data:

	id	int8	created_at	timestamptz	email	text
1	1		2024-11-21 04:06:19.722049+00		lucasiscool@gmail.com	
2	2		2024-11-21 04:06:33.755699+00		lucasagain@gmail.com	
3	3		2024-11-21 06:26:42.47177+00		kristinegoatbaa@gmail.com	
4	4		2024-11-21 06:27:12.004237+00		carolyncarolyn@gmail.com	
5	5		2024-11-21 06:27:41.04459+00		evelynamazing@gmail.com	
6	6		2024-11-21 06:28:12.934131+00		james@landay.stanford.edu	

IMPLEMENTED FEATURES

users	
Each row represents a single user.	
Column	Description
<code>id</code>	Unique id that is automatically generated on the server. You don't need to provide this when inserting a new row.
<code>timestamp</code>	Representation of the time this post was created in ISO timestamp format . Also automatically generated and doesn't need to be provided when inserting a new row.
<code>username</code>	Name provided by the user making the post. This is an alias that the user can customize.
<code>email</code>	Email of the user.
<code>password</code>	Password of the user.
<code>user_id</code>	A UUID identifying the user making the post.

statuses	
Each row represents a single status.	
Column	Description
<code>id</code>	Same as in users.
<code>timestamp</code>	Same as in users.
<code>user_id</code>	A UUID identifying the user that posted this status.
<code>status_text</code>	Text for the current status. Ex: "loving life rn"
<code>emotion</code>	An emotion representable by a planet. Can be "happy", "sad", "angry", or "neutral". Default "neutral".
<code>image_url</code>	The URL of the image that is associated with this status update. Null if no photo is attached.
<code>status_id</code>	A UUID for this status.

UNIMPLEMENTED FEATURES & PLAN

- Onboarding process
- Adding/removing friends
- Setting your own account info
- Posting a photo status
- Organizing friends into galaxies
- Scheduling feature (calendar sync)

- *Plan: Implement them all during Thanksgiving! So we could take an easy week 10 :)*

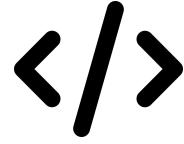
Hifi To-Do List	Is Done?	Currently Doing/Completed By	Task #
Create onboarding process for first-time users to set up information and customize their planet	<input type="checkbox"/>	low priority	N/A
Make account register and log-in work	<input type="checkbox"/>		N/A
Create Supabase database	<input checked="" type="checkbox"/>	Lucas (api link in project, check db.js)	1
Create schemas for User and Post on Supabase (so we can create/read/update/delete them)	<input checked="" type="checkbox"/>	Lucas (see what the objects look like in the two images to the right of this table)	1
Get React Native Paper into our application to streamline visuals for application	<input checked="" type="checkbox"/>	Lucas	
Upload planet image from med-fi to the project so we can use it (we'll just stick with the image we used for the med-fi, no need for vectorizing)	<input checked="" type="checkbox"/>	Lucas	1
Create basic Planet component that can be copied around (username and emotion should be passed as props)	<input checked="" type="checkbox"/>	Lucas	1
Add fonts	<input type="checkbox"/>	Carolyn	
Add first and last names instead of usernames corresponding to planets	<input type="checkbox"/>	Kristine prob	
Structure main galaxy page with main planet in middle and friends' planets around	<input type="checkbox"/>	kristine — working on it	changing flatlist tho
Attempt to make the main galaxy page scrollable in horizontal and vertical directions	<input type="checkbox"/>	UNASSIGNED (someone take this)	1
Make clicking on a planet on the main galaxy page bring you to a specific user page (ex: clicking on Anya's planet brings you to /users/anya, which is handled by the /users/{user} route)	<input checked="" type="checkbox"/>	Lucas	1
Load in planet information from the database rather than keep it static	<input checked="" type="checkbox"/>	Lucas	1
Structure friend's account page to make it look like our Figma design	<input type="checkbox"/>	UNASSIGNED (someone take this)	1
Make clicking on a friend's calendar bring you to a unique calendar page (ex: /users/calender/anya)	<input type="checkbox"/>		2
Structure friend's calendar page to make it look like our Figma design	<input type="checkbox"/>		2
Configure Google Calendar to work with our React Native app, load in all information from a specific user account into an object {}	<input type="checkbox"/>		2
Load in calendar information from Google Calendar rather than keep it static	<input type="checkbox"/>		2
Pinnable planets ? low priority	<input type="checkbox"/>		2
Detect swipe left/right to navigate between different galaxies	<input type="checkbox"/>		3

WIZARD OF OZ



- Friends in the Galaxy have been “magically” added
- The Status never expires (we plan to have it expire after 24 hours).

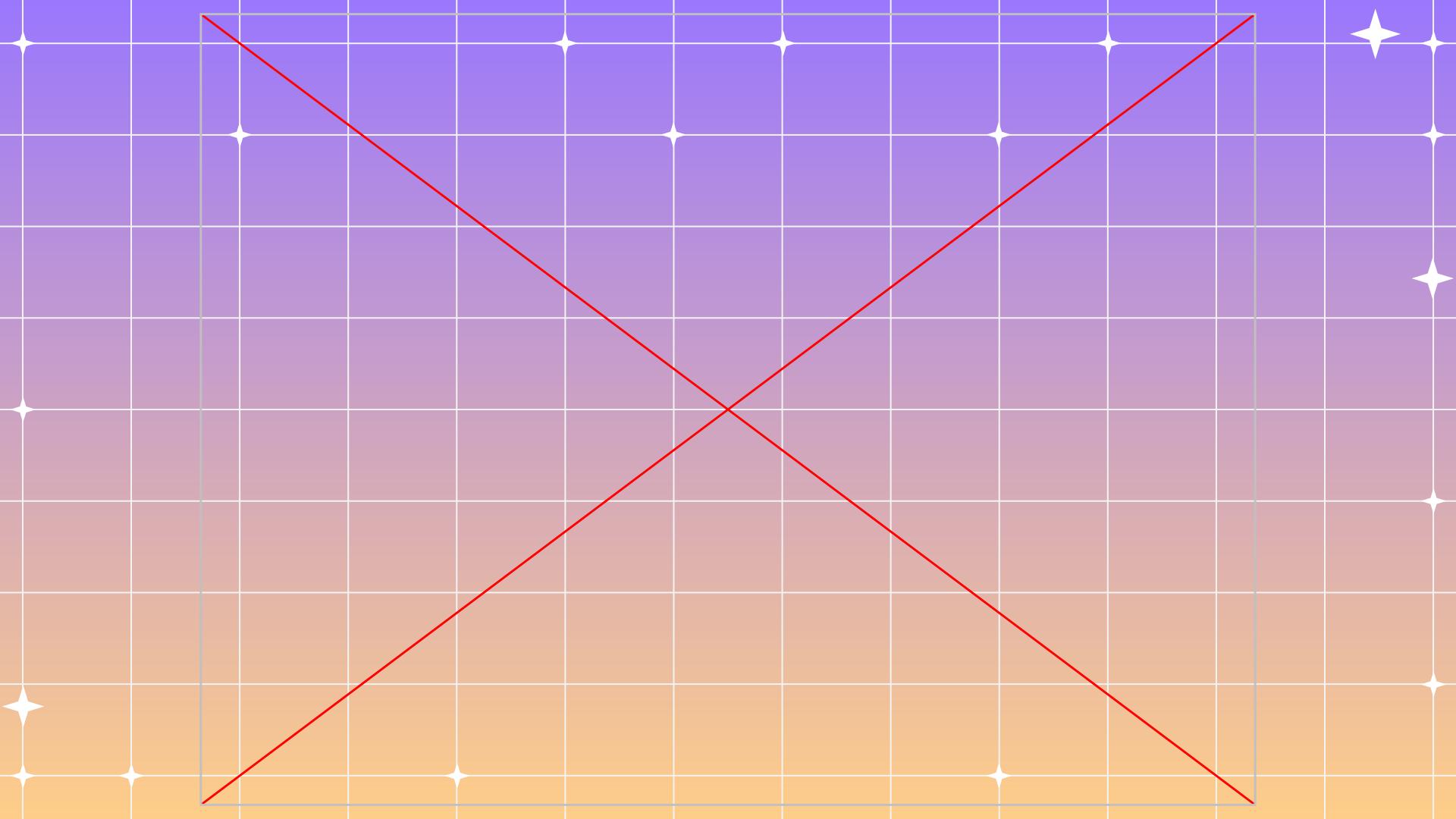
HARD-CODED



- All user profiles (names, statuses, emotions)
- User planet outlooks
- User status text & emotions
- Photo statuses

04

DEMO: VIEW/SET STATUSES



THANK YOU!!

