

PLANET

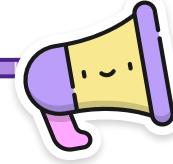
**INTERACTIVE
MEDIUM-FI PROTOTYPE**



Kristine Ma, Lucas Wang, Evelyn Song, Carolyn Lee →



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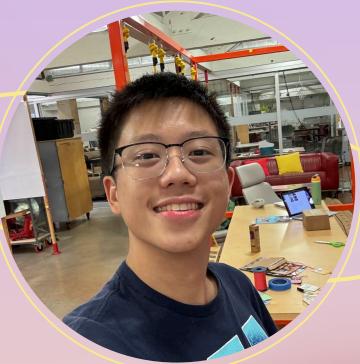
WE ARE TEAM PLANET!



Kristine Ma
Junior
Symbolic
Systems (HCI)



Carolyn Lee
Junior
Computer
Science (HCI)



Lucas Wang
Sophomore
Design +
CS (HCI)



Evelyn Song
Junior
Human Biology
+ CS (HCI)



**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.

PROBLEM OVERVIEW



PRIMARY USER

College students with existing friend groups but who find it difficult to reach out and connect

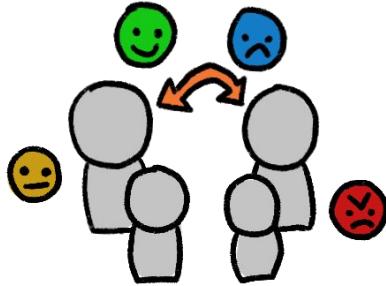


PROBLEM WE'RE TACKLING

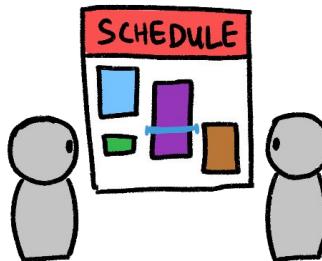
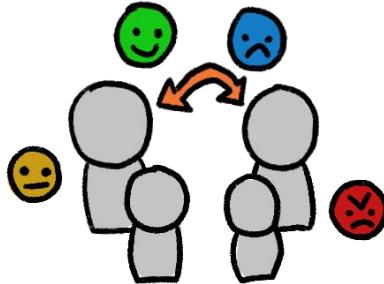
Reaching out to friends is seen as time consuming and an inconvenience to the other person



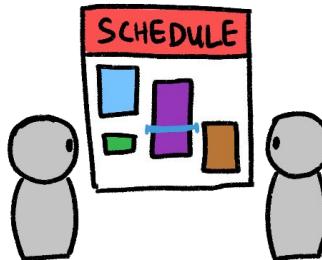
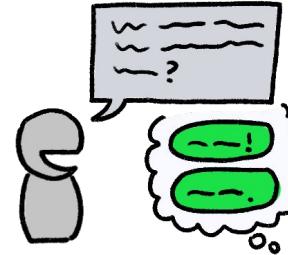
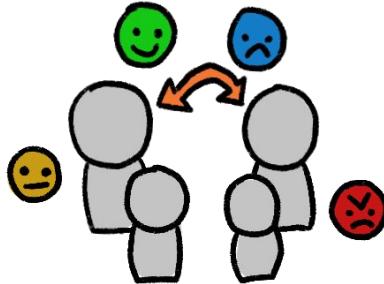
PROPOSED SOLUTIONS



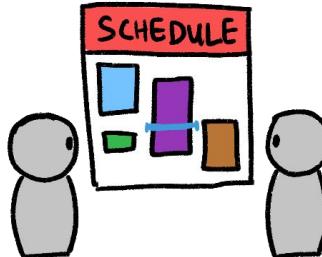
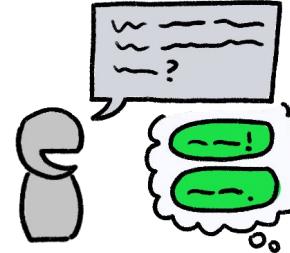
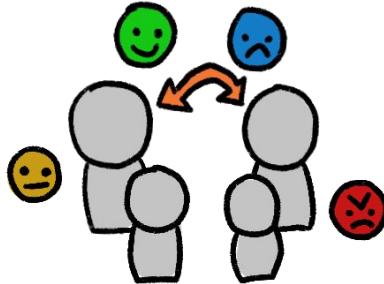
PROPOSED SOLUTIONS



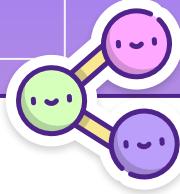
PROPOSED SOLUTIONS



PROPOSED SOLUTIONS



VALUES IN DESIGN





VALUES ENCODED IN PRODUCT



Prioritize connection, emotional awareness, and inclusivity.

"Fostering genuine relationships by making emotional states and social availability visible, emphasizing user's well-being and creating a community that helps combat feelings of alienation"



VALUE IN DESIGN



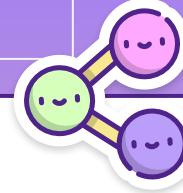
Relevant design features:

1. Real-time Emotional Status Updates
2. Visual Representation of Friends' 'Planet Bubbles'
3. Privacy Settings and Customization
4. Simple and Low-effort Check-ins

Value Tensions:

Privacy vs. Connection: Reinforce friend groups <-> unintended exclusivity?

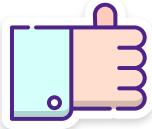
Simplicity vs. Depth of Interaction: ease of use -> superficial connections?



USABILITY GOALS & KEY MEASUREMENTS



USABILITY GOALS & MEASUREMENTS



INTUITIVENESS

Rationale

The interface should feel obvious to navigate

Key measurement

Qualitative comments from unfamiliar users
(target: "good heuristics")



EFFECTIVENESS

Rationale

Interface allows for near-instant reactions

Key measurement

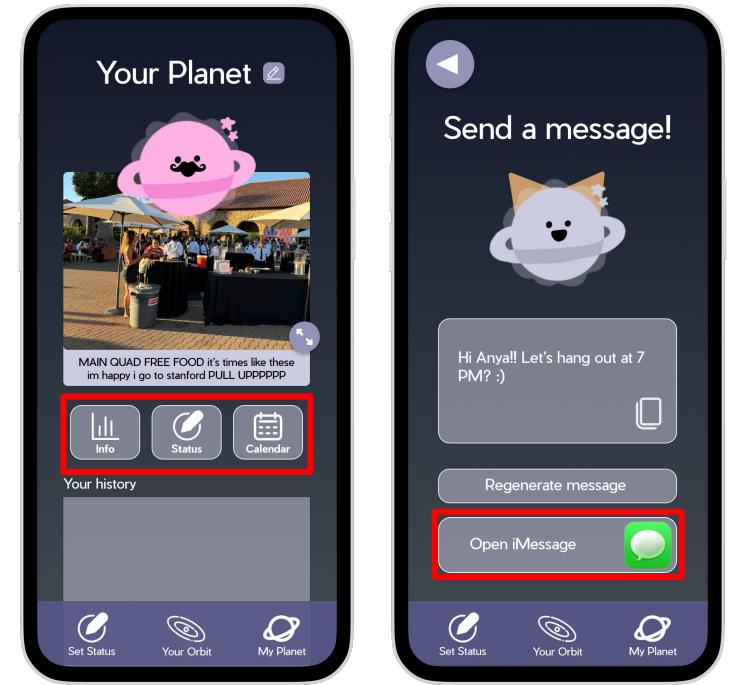
Time taken to complete tasks
(target: <= 90 sec)

PROGRESS TOWARDS USABILITY GOALS



INTUITIVENESS

- enlarged the calendar button and repositioned it for better visibility
- ensured consistency across info, status, and calendar elements
- clarified the goal of opening iMessage instead of initiating in-app texting

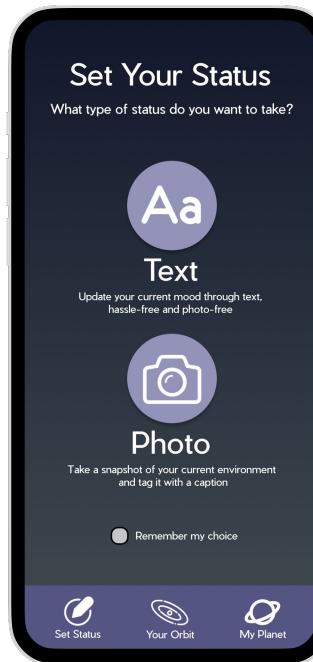
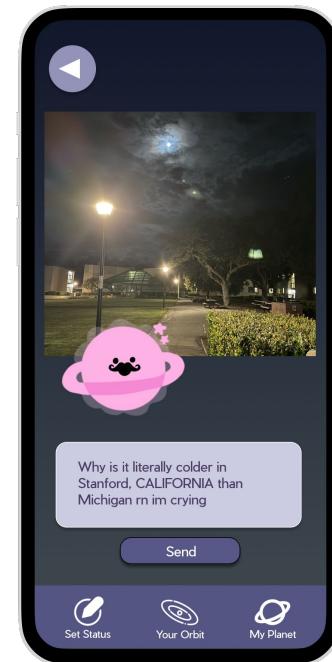


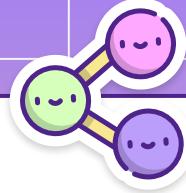
PROGRESS TOWARDS USABILITY GOALS



EFFECTIVENESS

- Removed "task" status (before there were task and emotion) which users found redundant
- Reorganized "set status" page to emphasize text & photo





TASKS AND TASK FLOWS





REVISED

Task Flows



Simple	Moderate	Complex
<ul style="list-style-type: none">- Find out how friends are doing in real time- Update friends on feelings in real time (via text/photo)	<ul style="list-style-type: none">- Message a friend- Schedule a hangout with a friend- Update calendar to indicate availabilities to friends	<ul style="list-style-type: none">- Organize friends into groups of friends- Customize visibility of posts to reach out to specific friend groups (more privacy controls)

OLD TASK #1: SIMPLE

- Create an account on the app

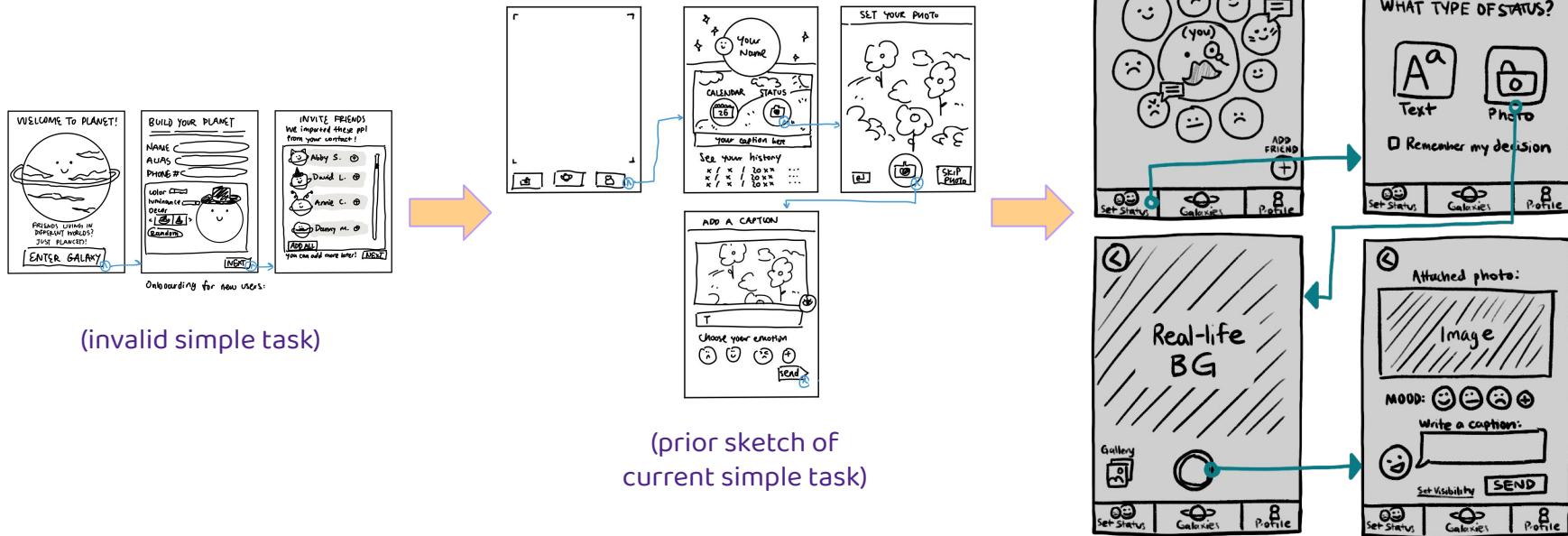


REVISED TASK #1: SIMPLE

- Create an account on the app
 - Users find out how friends are doing in real time
 - Update friends on feelings in real time (via text/photo)



HOW TASK FLOW #1 CHANGED



REVISED TASK #1: SIMPLE

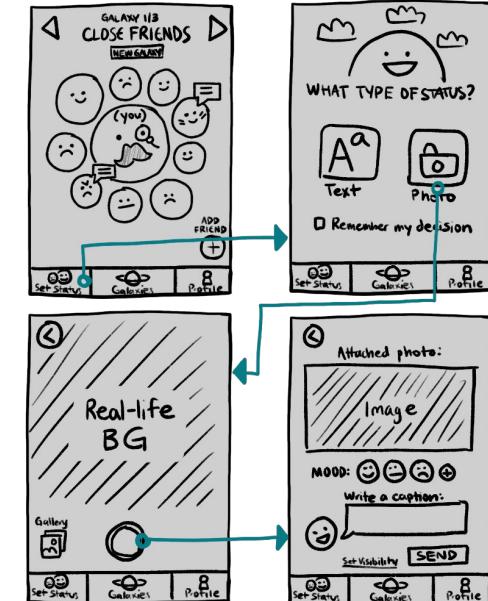
- Users find out how friends are doing in real time
- Update friends on feelings in real time (via text/photo)

Changes:

- Switched "set status" icon away from camera
- Users can now choose between text or photo statuses
- More obscure icons now have text above them

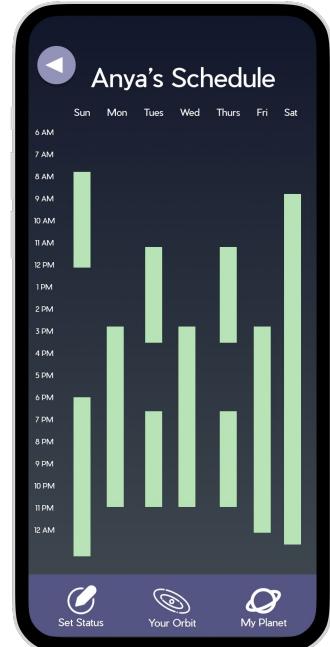
Rationale:

- The app took extra steps to take text-based statuses, quick buttons improve effectiveness
- Increased clarity from text improves intuitiveness



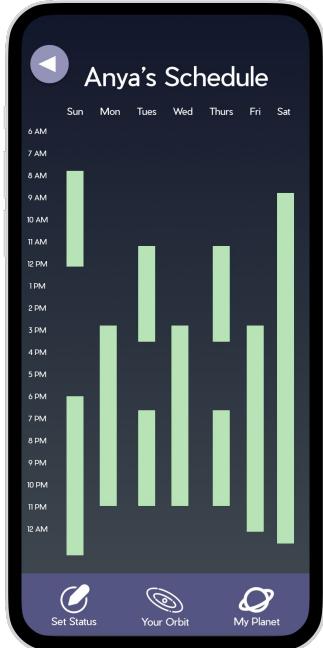
OLD TASK #2: MODERATE

- Share photos with friends
- Schedule a hangout with a friend
- Update calendar to indicate availabilities

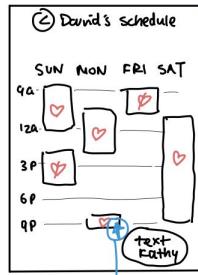
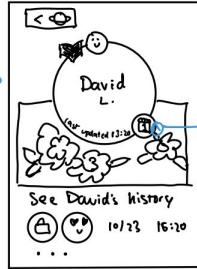
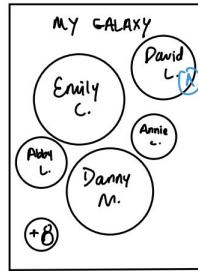


REVISED TASK #2: MODERATE

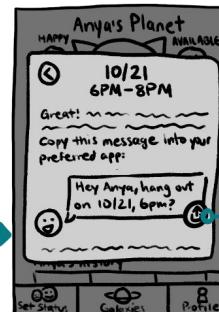
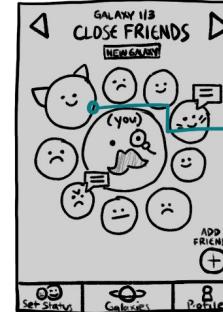
- Share photos with friends
 - Message a friend
 - Schedule a hangout with a friend
 - Update calendar to indicate availabilities



HOW TASK FLOW #2 CHANGED



③ Sunday
2 - 5 PM
David is free to hang out w/ friends!
Carl C. is also coming.
Hey David, hang out 3pm Sunday! :)



REVISED TASK #2: MODERATE

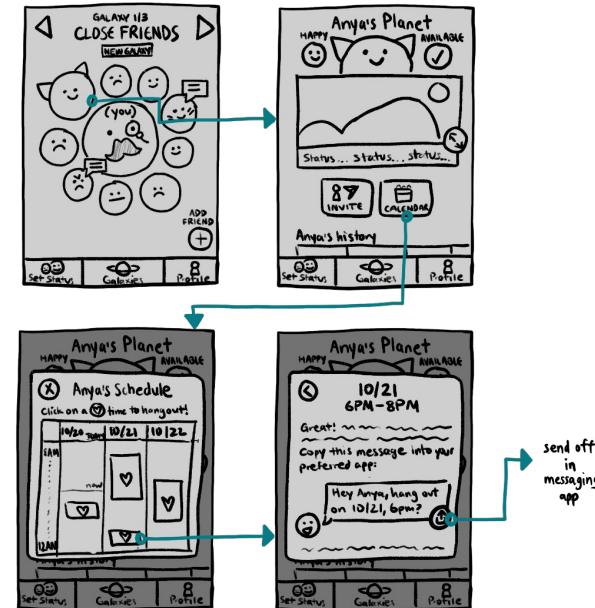
- Message a friend
- Schedule a hangout with a friend
- Update calendar to indicate availabilities

Changes:

- Made calendar button larger and more evident
- Added text to specify how to navigate the schedule screen
- Replaced copy button with share button

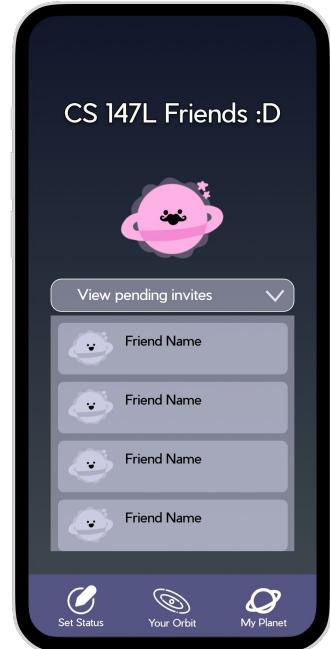
Rationale:

- Priority buttons are easier to navigate to, being more effective
- Descriptions and recognizable icons boost intuitiveness



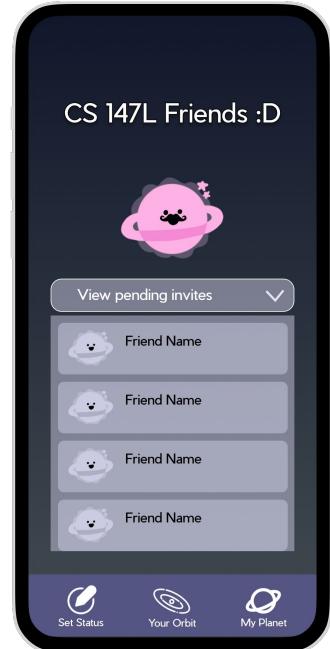
OLD TASK #3: COMPLEX

- Reach out to friends via a preferred texting app
- Customize visibility of posts to reach out to specific friend groups

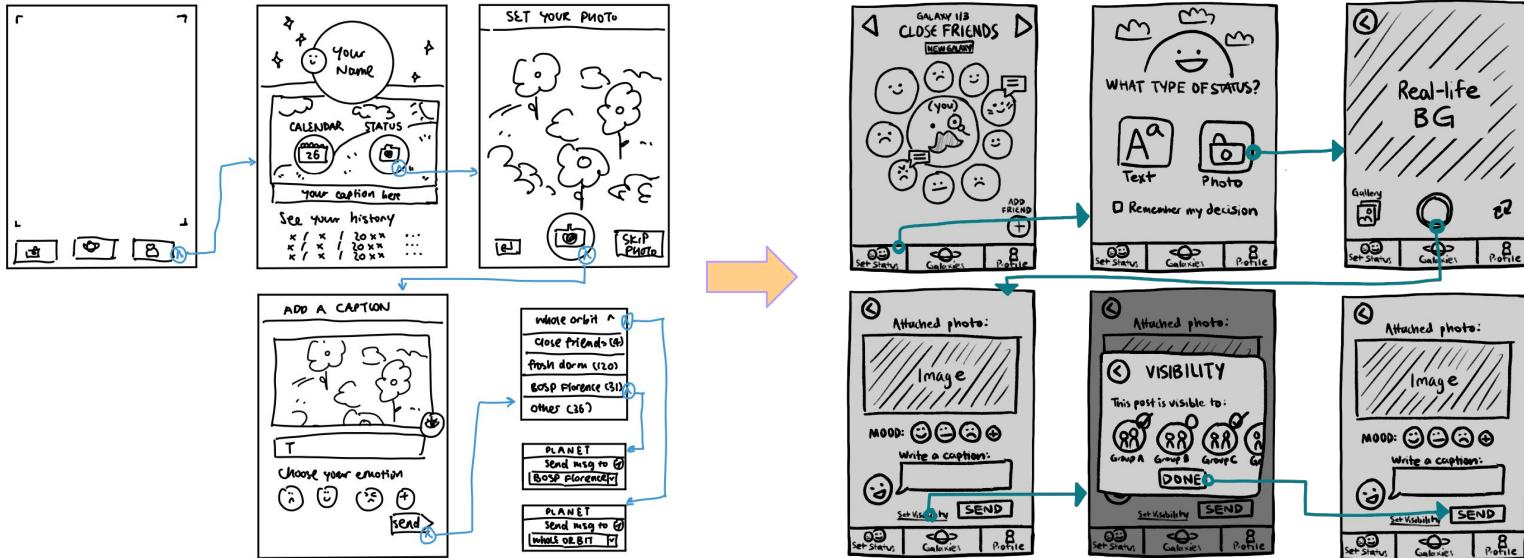


REVISED TASK #3: COMPLEX

- Reach out to friends via a preferred texting app
- Organize friends into groups of people
- Customize visibility of posts to reach out to specific friend groups



HOW TASK FLOW #3 CHANGED



REVISED TASK #3: COMPLEX

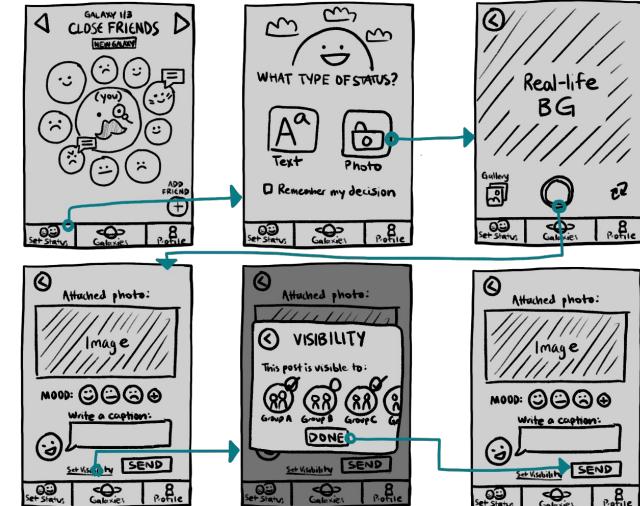
- Organize friends into groups of people
- Customize visibility of posts to reach out to specific friend groups

Changes:

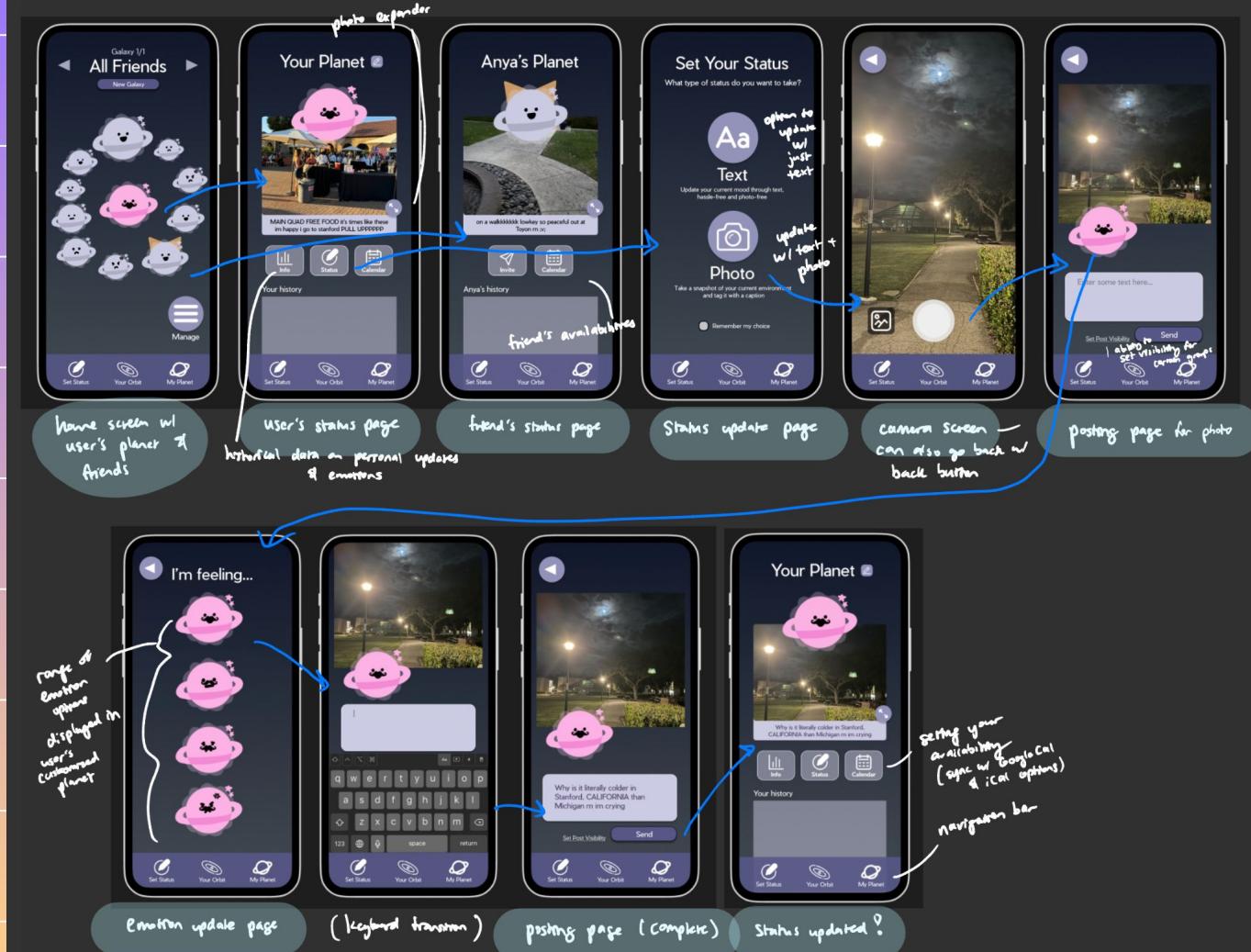
- Added minimized "set visibility" button instead of eye icon
- Used circular icons instead of dropdown menu for selecting groups

Rationale:

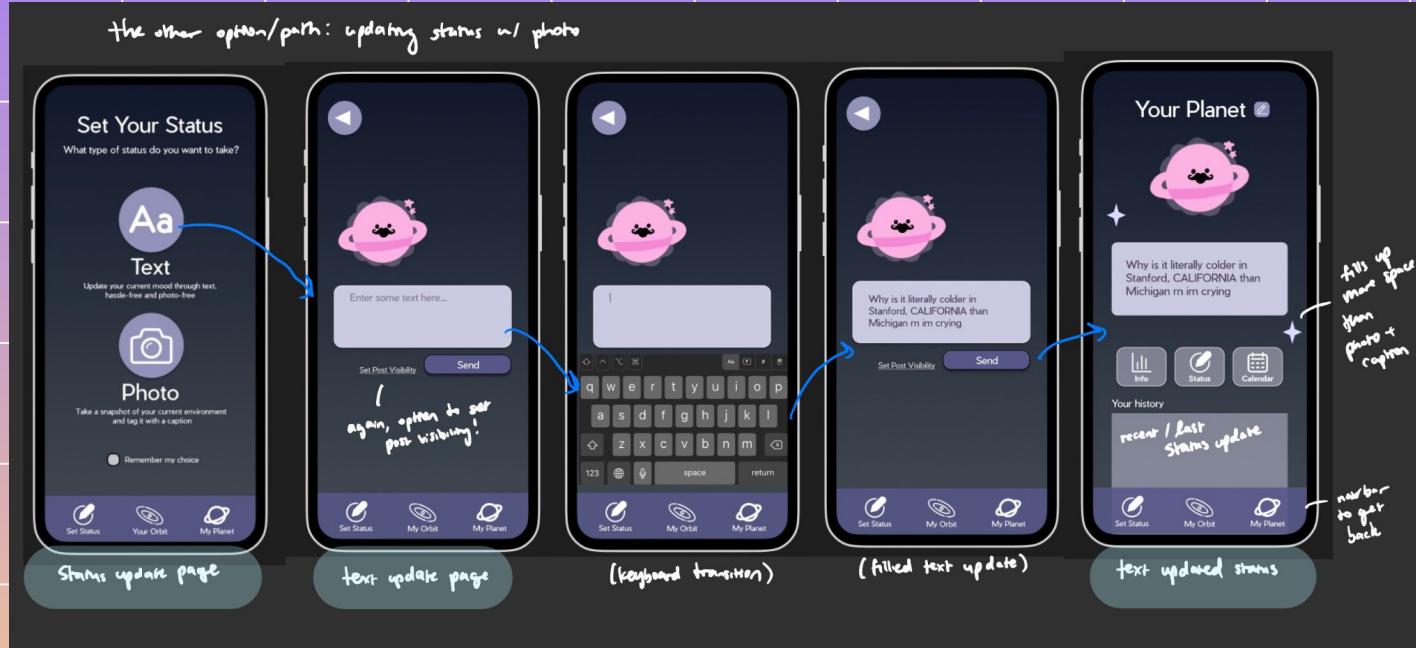
- Complex task is made smaller, text creates a more intuitive interface
- Users can now effectively choose multiple groups at once



SIMPLE TASK: PHOTO STATUS UPDATE



SIMPLE TASK: TEXT STATUS UPDATE



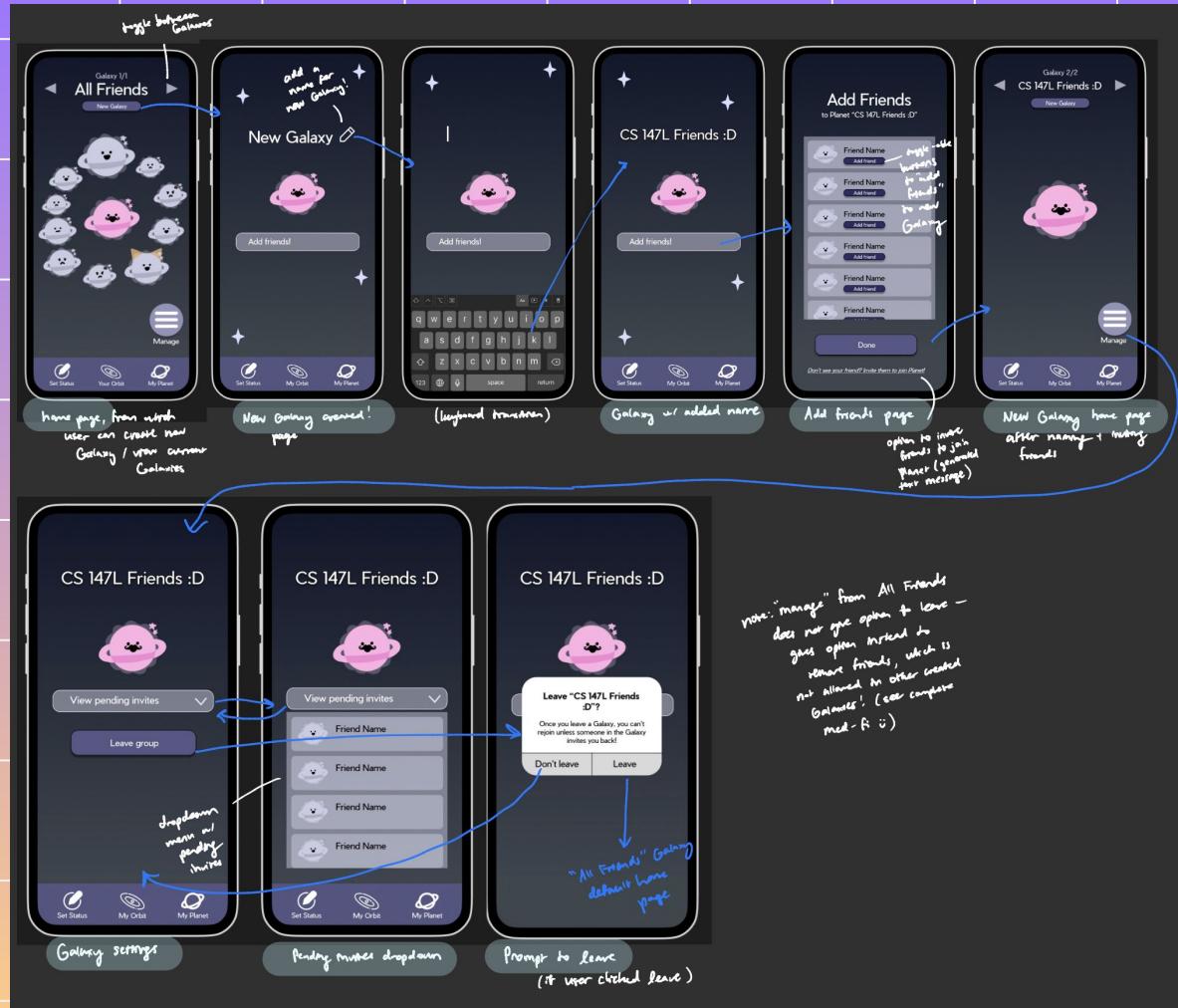
MODERATE TASK: SCHEDULING WITH FRIEND



COMPLEX TASK: SET VISIBILITY



COMPLEX TASK: ORGANIZE FRIENDS INTO GALAXIES



PROTOTYPE IMPLEMENTATION - TOOLS

Pros:

- Easy and efficient collaboration with team members
- Components make it easy to reuse pre-designed elements that fit our visual aesthetic
- Prototype features allow us to accurately depict our intended tasks

Cons:

- Not every member has knowledge on Figma → Figma has a steep learning curve
- Limited prototyping for developers, we often had to hard-code or Wizard of Oz in features



PROTOTYPE IMPLEMENTATION - LIMITATIONS

- **Limited Interactivity with Characters**
 - Currently, we have only one interactable user, Anya, for testing purposes. While this allows us to focus on refining one-on-one interactions, it limits our ability to assess how different user profiles might respond within the app.
- **Not able to input your own custom data or schedule information**
 - While the main functionality of changing status and account creation is available, they aren't able to fully input information that is personally relevant.
- **Prototype Constraints**
 - Since Planet is currently a Figma prototype, not all elements are clickable or fully functional, restricting users from fully exploring more complex workflows.



PROTOTYPE IMPLEMENTATION - WIZARD OF OZ

- **Simulating iMessage**
 - In the current prototype, we mimic the functionality of generating iMessage texts.
- **Simulating Data Entry**
 - Since we don't yet have a database, all data entries—like user preferences or statuses—are manually simulated. This includes any information that users might typically save in a profile or log.
- **Simulating Contacts and Friends**
 - We automatically display contacts and friend additions in the app as if the user actually synced their contacts to the prototype.



APPENDIX



ONBOARDING



EXTRA: MANAGING 'ALL FRIENDS'

Galaxy 1/1

All Friends

New Galaxy

Manage

Set Status My Orbit My Planet

"All Friends" Galaxy / default home screen

All Friends

This is the only Galaxy from which you can remove Planets.

Anna Anya Bob Charles Emily Grace Josiah Karen

Remove friend Remove friend

All Friends

This is the only Galaxy from which you can remove Planets.

Anya Bob Charles Emily Grace Josiah Karen

Remove friend Remove friend Remove friend Remove friend Remove friend Remove friend Remove friend

Anya removed ☺

Friend	Status
Anna	Present
Anya	Present
Bob	Present
Charles	Present
Emily	Present
Grace	Present
Josiah	Present
Karen	Present