

Low-fi Prototype & Evaluation

mömo

Cathy Wang, Chloe Thai, Julea Chin, & Sara Olsson



Team







Julea C.



Chloe T.



Cathy W.





Problem & Solution Overview



Problem: People currently feel less connected to nature, and personal initiative to take environmentally-friendly actions is lacking



Solution: Mobile app to encourage users to make environmental commitments in a rewarding, reflective, and goal-oriented manner





Mission Statement & Value Proposition

Mission Statement:

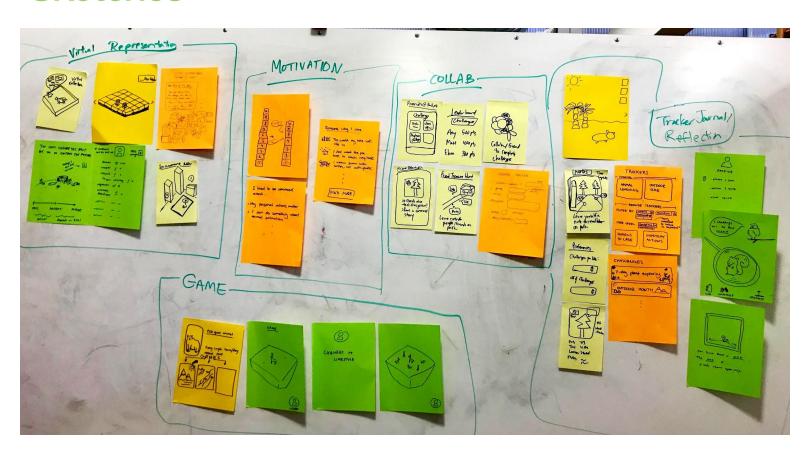
To make individuals feel rewarded as they incorporate eco-friendly actions into their everyday lives.

Value Proposition:

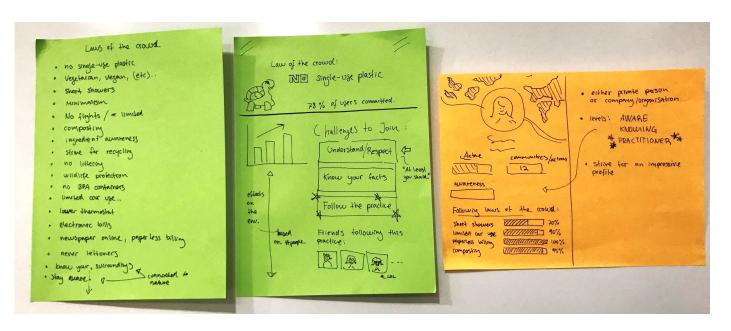
Let your virtual planet reflect your real life habits and knowledge, while receiving rewards for personal growth.



Sketches



Top Designs #1: Collab Ideas



Let the crowd of users incentivize others to follow their commitments

#1: Collab Ideas



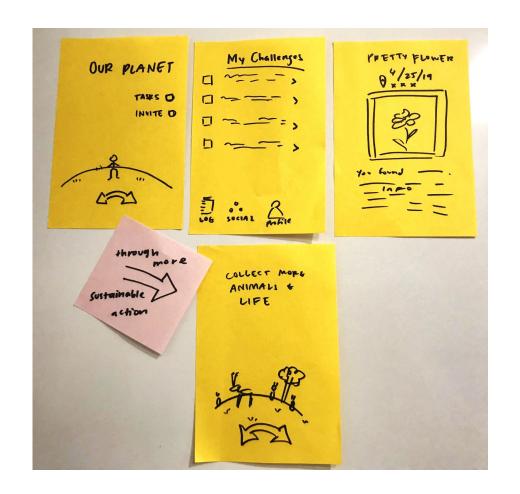
- Stats may feel penalizing
- Public stats may feel embarrassing
- Recording actions very often is a big ask



- Allows diverse interests
- Scalable
- Incentive to work harder due to public stats

Top Designs #2: Tracker Journal

- Complete challenges
- Option to reflect and receive rewards for your virtual planet



#2: Tracker Journal



- Small audience that enjoys journaling
- Personal use →
 less social/global impact
- Risk of feeling childish



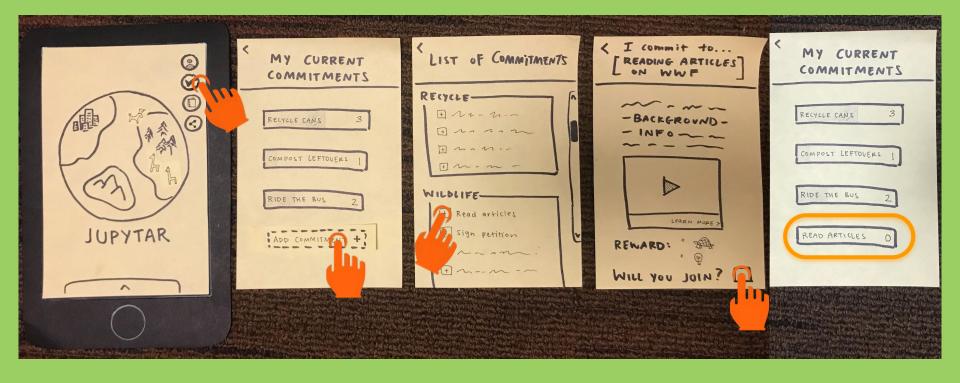
- Visual elements → fun
- Motivated to show off your planet to others
- Ability to save memories of an eco-challenge



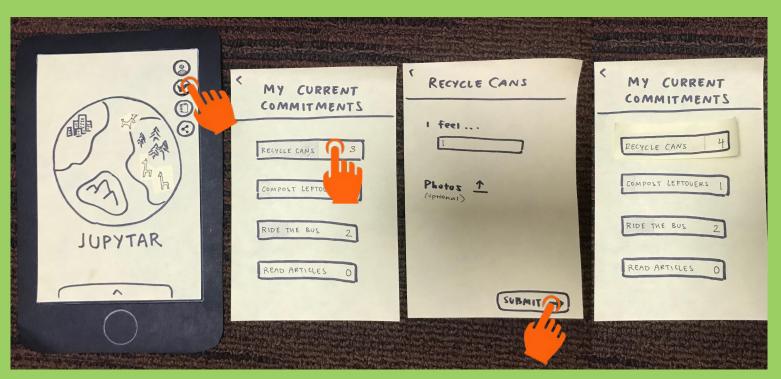
Best components of the Top 2 ideas

- The virtual planet and its elements
- Global stats and public profiles
- Challenges and rewards
- Not demanding daily logging of a singular task continuously

Simple Task: Make a New Commitment



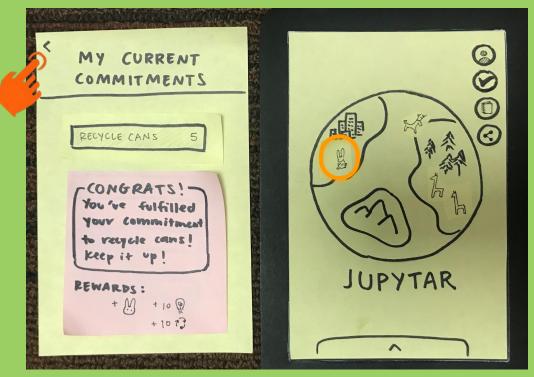
Moderate Task: Log and Notice Progress on your Commitment



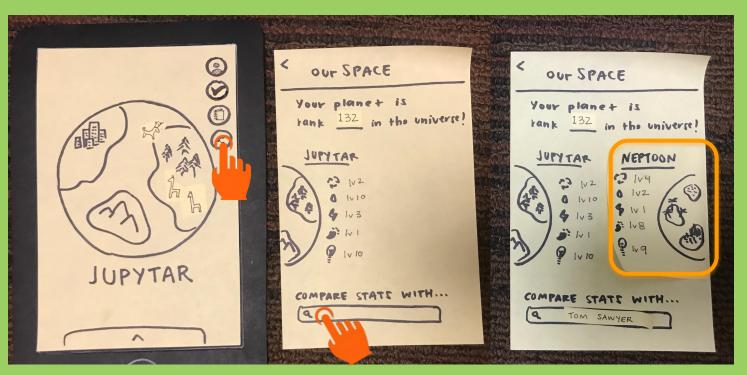
RECYCLE CANS task increases from '3' to '4'

Moderate Task: Log and Notice Progress on your Commitment

- Alternative result if increasing from '4' to '5'
- Pop up with rewards appears



Complex Task: Compare your planet's progress with others







Testing Procedure:



Computer



Greeter + Facilitator



Observer



5 Participants

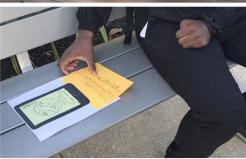
- Stanford Shopping Center
- Target user group: 20s-30s
- 5-8 min session +2-3 min Q+A













Testing Results:



- People kept clicking on the planet/animals initially
- Initial confusion by terminology (i.e."commitment")



- Overall positive to concept
- All participants realized what the app was about after finishing first 2 tasks
- Some recognition of button symbols



Insights for further development

- Redesign so that globe is clickable (action items on globe)
- Make the Commitments page easier to access
- Push for personal benefits
 (e.g. fitness, saving money, etc.) not just
 water/energy usage







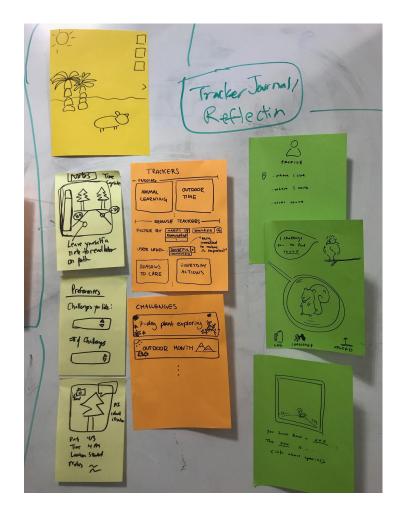
Inspiration

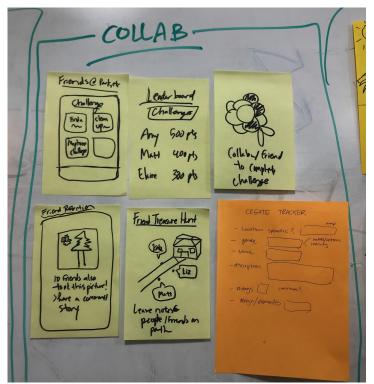
- Khan Academy (online learning)
- Forest (App for staying focused)



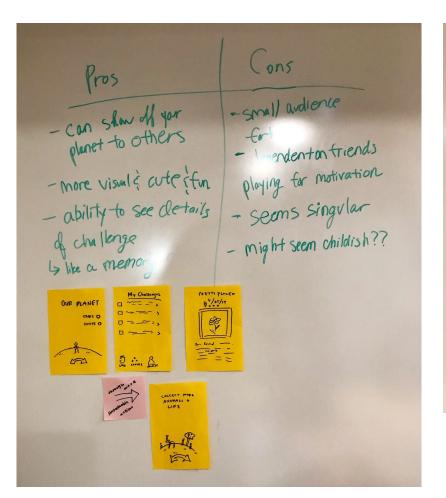


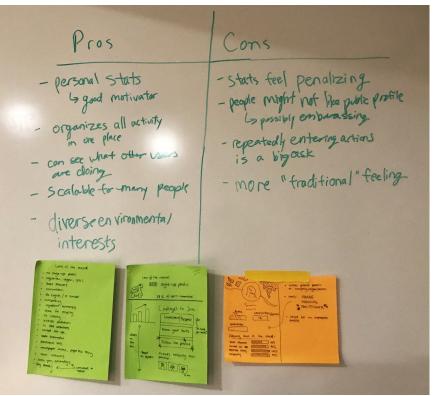






Top 2 Design Ideas (not fleshed out)





Top 2 Designs
(fleshed out, pros + cons)

Home Screen

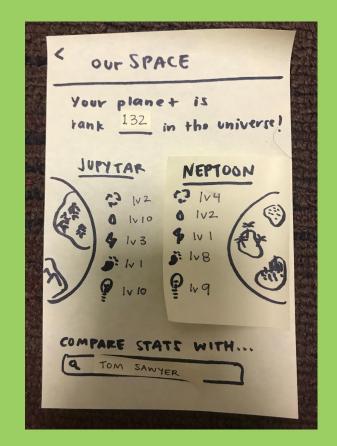






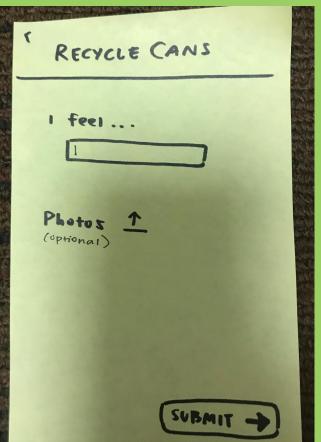
< Collection

Social >



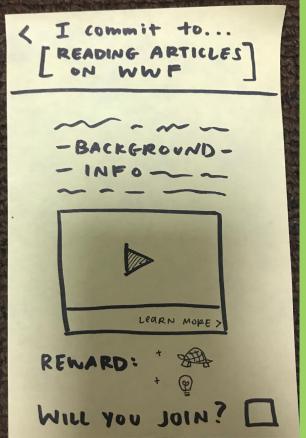
Related to commitments





Related to commitments





Incident	Severity Rating
"What's a commitment?"	3
Tapped globe immediately	4
Didn't recognize the share icon	3
"I get it, that's cute!! [referencing bunny]	0
Looked overwhelmed by commitment list	2
"I like that it's motivational like a fitness app"	0
Clicked play video before joining challenge	0
Uploaded photo (even though it's optional)	0
"What does rewards mean?"	1

Incident	Severity Rating
Tapped globe immediately	4
"The "!" button looks like a warning signal"	3
Clicked on other buttons before ! button	3
Stuck in Planet Vitals list	3
Clicks on all icons in planet vitals list	3
Difficulty picking a commitment to add	3
Clicked play video before joining challenge	0
Didn't want to join challenge in general	2
Actually compared stats with other player	0

Incident	Severity Rating
Tapped globe immediately	4
Didn't recognize the share icon	3
Tried tapping turtle icon on rewards section	2
"Planet vital icons were really confusing"	3
Clicked play video before joining challenge	0
Actually compared stats with other player	0
Really fast overall completing tasks	0
"I would move the 3 buttons to under the planet"	1

Incident	Severity Rating
Tapped globe immediately	4
"The "!" button looks like an alarm"	3
"I collected a bunny!"	0
Tried to move animals around	2
Uploaded photo (even though it's optional)	0
Actually compared stats with other player	0
" I didn't realize animals were rewards at first"	1
Thought planet vitals was the first thing he should've swiped on	2

Incident	Severity Rating
Tapped globe immediately	4
"I think a hamburger menu would be better"	2
Uploaded photo (even though it's optional)	0
Clicked play video before joining challenge	0
"I thought this book icon would be my log"	3
"Is a reward an icon I get?"	1
Exited commitment screen to try to log a commitment	3
Recognized share button	0

26 40

Consent Form

The Team momo application is being produced as part of the coursework for Computer Science course CS 377E at Stanford University. Participants in experimental evaluation of the application provide data that is used to evaluate and modify the interface of Team momo. Data will be collected by interview, observation and questionnaire.

Participation in this experiment is voluntary. Participants may withdraw themselves and their data at any time without fear of consequences. Concerns about the experiment may be discussed with the researchers Chloe Thai. Julea Chin, Cathy Wang, Sara Olsson, or with Professor James Landay, the instructor of CS 377E.

James A. Landay CS Department Stanford University 650-498-8215 landay at cs.stanford.edu

Participant anonymity will be provided by the separate storage of names from data. Data will only be identified by participant number. No identifying information about the participants will be available to anyone except the student researchers and their supervisors/teaching staff.

I hereby acknowledge that I have been given an opportunity to ask questions about the nature of the experiment and my participation in it. I give my consent to have data collected on my behavior and opinions in relation to the Team mome experiment. I also give permission for imagestivide of me using the application to be used in presentations or publications as long as I am not personally identifiable in the imagest/video. I understand I may withdraw my permission at any time

Name_NICOL Deff	
Participant Number USU 922 U248	
Date 4 29 19	
Signature	
011 -	
Witness name Chle Thai	
Afthess signature (Mrt - Mai	

-35 4.0

Consent Form

The Team momo application is being produced as part of the coursework for Computer Science course CS 377E at Stanford University, Participants in experimental evaluation of the application provide data that is used to evaluate and modify the interface of Team momo. Data will be collected by interview, observation and guestionnaire.

Participation in this experiment is voluntary, Participants may withdraw themselves and their data at any time without fear of consequences. Concerns about the experiment may be discussed with the researchers Chlor Thai, Julea Chin, Cathy Wang, Sara Olsson, or with Professor James Landay, the instructor of CS 377E:

James A. Landay
CS Department
Stanford University
650-498-8215
landay at cs.stanford.edu

Participant anonymity will be provided by the separate storage of names from data. Data will only be identified by participant number. No identifying information about the participants will be available to anyone except the student researchers and their supervisors/teaching staff.

I hereby acknowledge that I have been given an opportunity to ask questions about the nature of the experiment and my participation in it. I give my consent to have data collected on my behavior and opinions i inetation to the Team mome experiment. I also give permission for images/video of me using the application to be used in presentations or publications as long as I am not personally identifiable in the images/video. I understand I may withdraw my permission at any time

Name Lalla Um
Participant Number 2
Date 4/3,9
Signature
Witness name Chloe Thai
Witness signature Chief Wier

Consent Form

The Team momo application is being produced as part of the coursework for Computer Science course CS 377E at Stanford University, Participants in experimental evaluation of the application provide data that is used to evaluate and modify the interface of Team momo. Data will be collected by interview, observation and questionnaire.

Participation in this experiment is voluntary. Participants may withdraw themselves and their data at any time without fear of consequences. Concerns about the experiment may be discussed with the researchers Chloe Thai, Julea Chin, Cathy Wang, Sara Olsson, or with Professor James Landay, the instructor of CS 37TE:

James A. Landay CS Department Stanford University 650-498-8215 Janday at cs.stanford.edu

Participant anonymity will be provided by the separate storage of names from data. Data will only be identified by participant number. No identifying information about the participants will be available to anyone except the student researchers and their supervisors/leaching staff.

I hereby acknowledge that I have been given an opportunity to ask questions about the nature of the experiment and my participation in I. I give my consent to have data collected on my behavior and opinions in relation to the Team momo experiment. I also give permission for images/video of me using the application to be used in presentations or publications as long as I am not personally identifiable in the images/video. I understand I may withdraw my permission at any time-

Name_HECRIEN	
Participant Number	
Date 4/29	
Signature	
Witness name Chloe Thai	
Witness signature Wk - Chi	

Consent Form

The Team momo application is being produced as part of the coursework for Computer Science course CS 377E at Stanford University. Participants in experimental evaluation of the application provide data that is used to evaluate and modify the interface of Team momo. Data will be collected by interview, observation and questionnaire.

Participation in this experiment is voluntary. Participants may withdraw themselves and their data at any time without fear of consequences. Concerns about the experiment may be discussed with the researchers Chloe Thai, Julea Chin, Cathy Wang, Sara Olsson, or with Professor James Landay, the instructor of CS 377E:

James A. Landay CS Department Stanford University 650-498-8215 landay at cs.stanford.edu

Participant anonymity will be provided by the separate storage of names from data. Data will only be identified by participant number. No identifying information about the participants will be available to anyone except the student researchers and their supervisors/teaching staff.

I hereby acknowledge that I have been given an opportunity to ask questions about the nature of the experiment and my participation in it. I give my consent to have data collected on my behavior and opinions in relation to the Team momo experiment. I also give permission for images/video of me using the application to be used in presentations or publications as long as I am not personally identifiable in the images/video. I understand I may withdraw my permission at any time.

Name
4
Participant Number
Date 4/29/19
Signature 8 (1)
Witness name Chlue Thai
Witness signature Chur Ua

Consent Form

The Team mômo application is being produced as part of the coursework for Computer Science course CS 377E at Stanford University. Participants in experimental evaluation of the application provide data that is used to evaluate and modify the interface of Team mômo. Data will be collected by interview, observation and guestionnaire.

Participation in this experiment is voluntary. Participants may withdraw themselves and their data at any time without fear of consequences. Concerns about the experiment may be discussed with the researchers Chloe Thai, Julea Chin, Cathy Wang, Sara Olsson, or with Professor James Landay, the instructor of CS 377E:

James A. Landay CS Department Stanford University 650-498-8215 landay at cs.stanford.edu

Participant anonymity will be provided by the separate storage of names from data. Data will only be identified by participant number. No identifying information about the participants will be available to anyone except the student researchers and their supervisors/teaching staff.

I hereby acknowledge that I have been given an opportunity to ask questions about the nature of the experiment and my participation in it. I give my consent to have data collected on my behavior and opinions in relation to the Team mömo experiment. I also give permission for images/video of me using the application to be used in presentations or publications as long as I am not personally identifiable in the images/video. I understand I may withdraw my permission at any time.

Name Adam Bealfer
Participant Number 5
Date 4/29/19
Signature allum Printey
Witness name Chloe Tha;
Witness signature Wwe Ulini