

Design Workbook

Team Name: Design Thinkers
Project Topic: How might we better inform the user of sustainable energy opportunities that they could be taking advantage of?
Student Name: Braydan Newman
Student ID: 14062640

Summary of the Design Thinking Processes:

Sustainability and health and well-being were the focus for discussion and brainstorm by the team. Each team member then decided on 5 topic areas to focus on. To decide our target audience three empathy maps were created based on people's life stages. The three final maps were grouped as elderly, family, singles. During the decision-making stage a heat map was used to determine selection of topics. After the vote had taken place, the team had realised the topic was too narrow and the team's outcome was decided as 'sustainable energy'. Once the topic was determined secondary research was completed to highlight key elements that the user was looking for. Once the team had created a reliable plan, interviews of possible users were conducted, to further our understanding of user compatibility and needs. Main points and stories were captured and laid out in a story share and capture by each team member to broaden everyone's understanding of user's needs. The group made a final decision to not use the how and why ladder as discussion had been exhausted using prior methods.

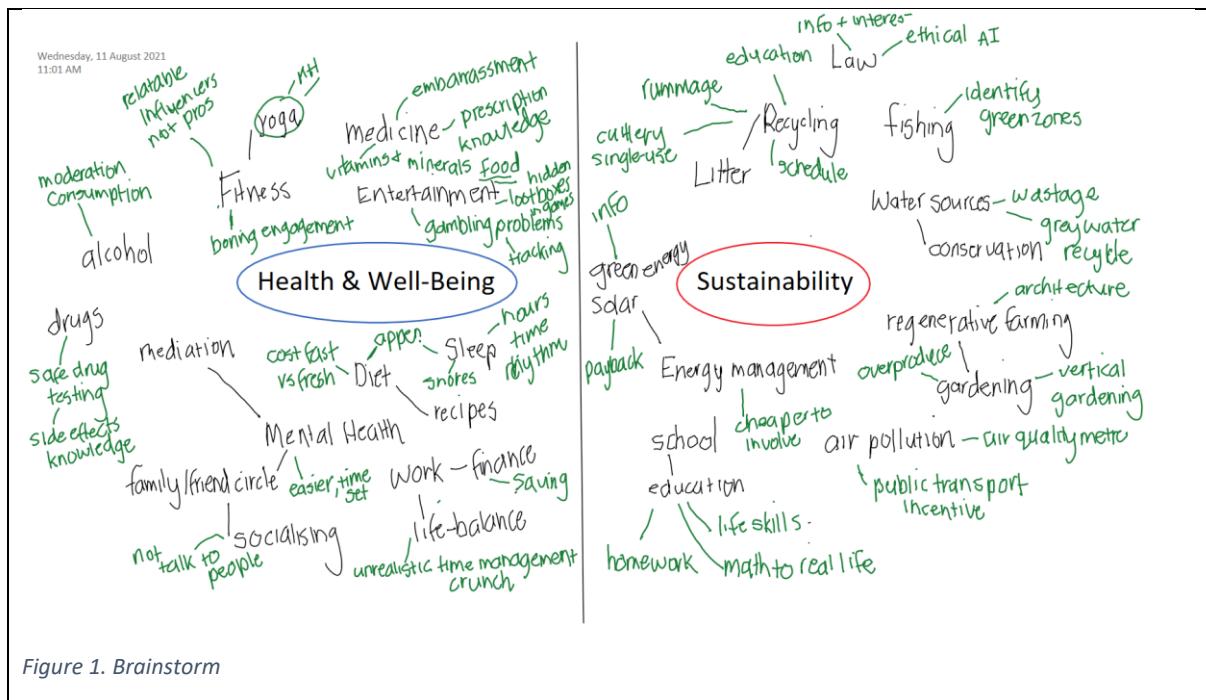


Figure 1. Brainstorm



The Design Thinkers

Week 3 - Meeting 2 - 16/08/21

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 Adam Albert - adam.albert@my.jcu.edu.au
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 Samuel Barrett - samuel.barrett@my.jcu.edu.au

Danniele Jones	Brayden Newman	Adam Albert
1. Garden Management** 2. Work life balance 3. Fitness fun 4. Reconnection 5. Reef awareness	1. Ingredient selector 2. Drunk budget limiter* 3. Life skills 4. Substance education 5. Green zone alert	1. Healthy recipe finder* 2. Green town planning 3. Side effect awareness 4. Life skill awareness 5. Environmental incentives*
Favourite: Garden Manage	Favourite: Drunk budget limiter	Favourite: Environmental Incentives
Jake Edmunds	Ethan Bettscofax	Sam Barrett
1. Life skills awareness* 2. Better charge grids* 3. Fitness health information 4. Gambling tracking*** 5. Nutritional awareness	1. 2. 3. 4. 5.	1. Automatic Vertical Farm 2. Digital Medication App 3. Home power monitor** 4. Home security App 5. Moon and Tides App
Favourite: Gambling tracking	Favourite:	Favourite: Home power monitor

Final group idea has been selected by the above 'Note-and-vote' method with final python randomisation.
 As a result our official idea to develop is:



Home power monitor?

What we know about the topic: Do people already have these?

Identify what we need to know about the product:

- Whats the equation for kWh to \$, smart plugs/adaptors have wifi to your app,
- are these apps out there already
- who are the target users
- smart plugs with power monitor app
- how much will the setup cost

Identify the target user:

- power conscious people
- families, green teenagers

Develop a research plan (Primary and secondary):

Primary:

- User base, costs, is it out there

Secondary:

- actual device, plug design, wifi plug, mobile app, browser app

CONTRIBUTE: 2 insightful pieces of info per group member into the Secondary research folder on OneDrive

Figure 2. Heat Map for Final Topic

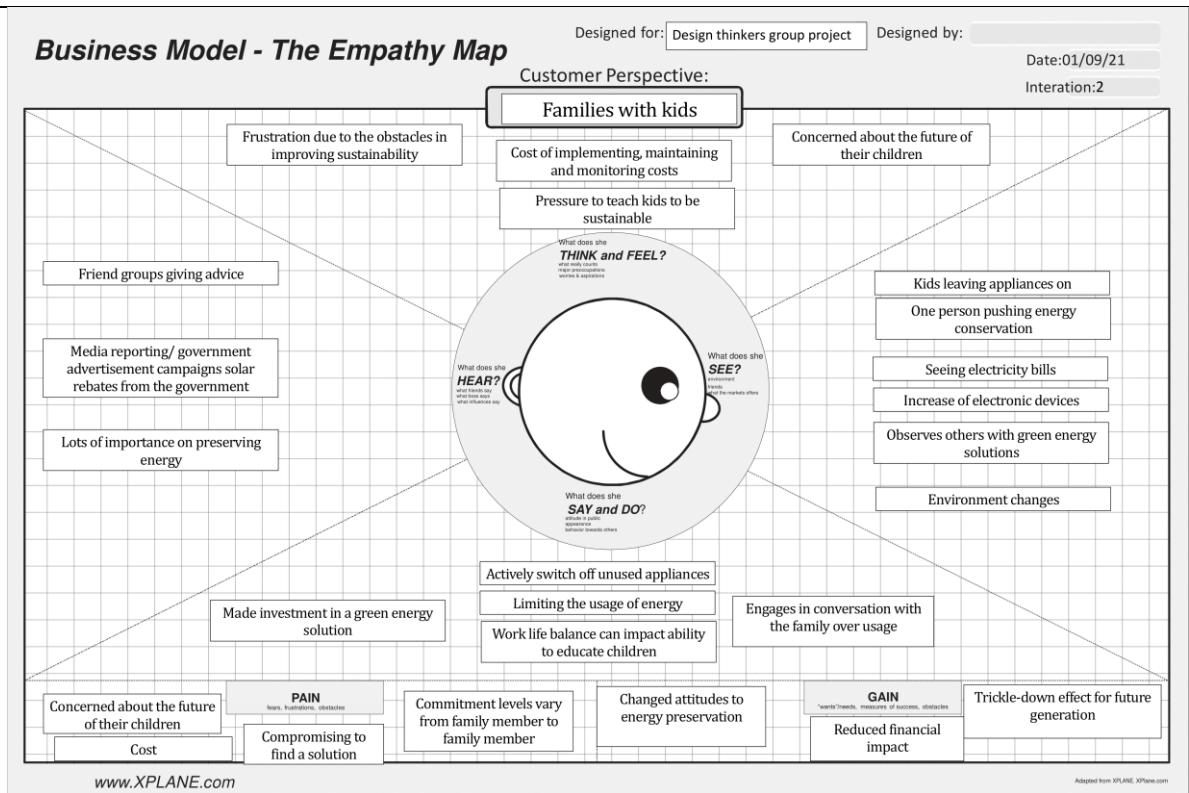


Figure 3. Empathy Map 1

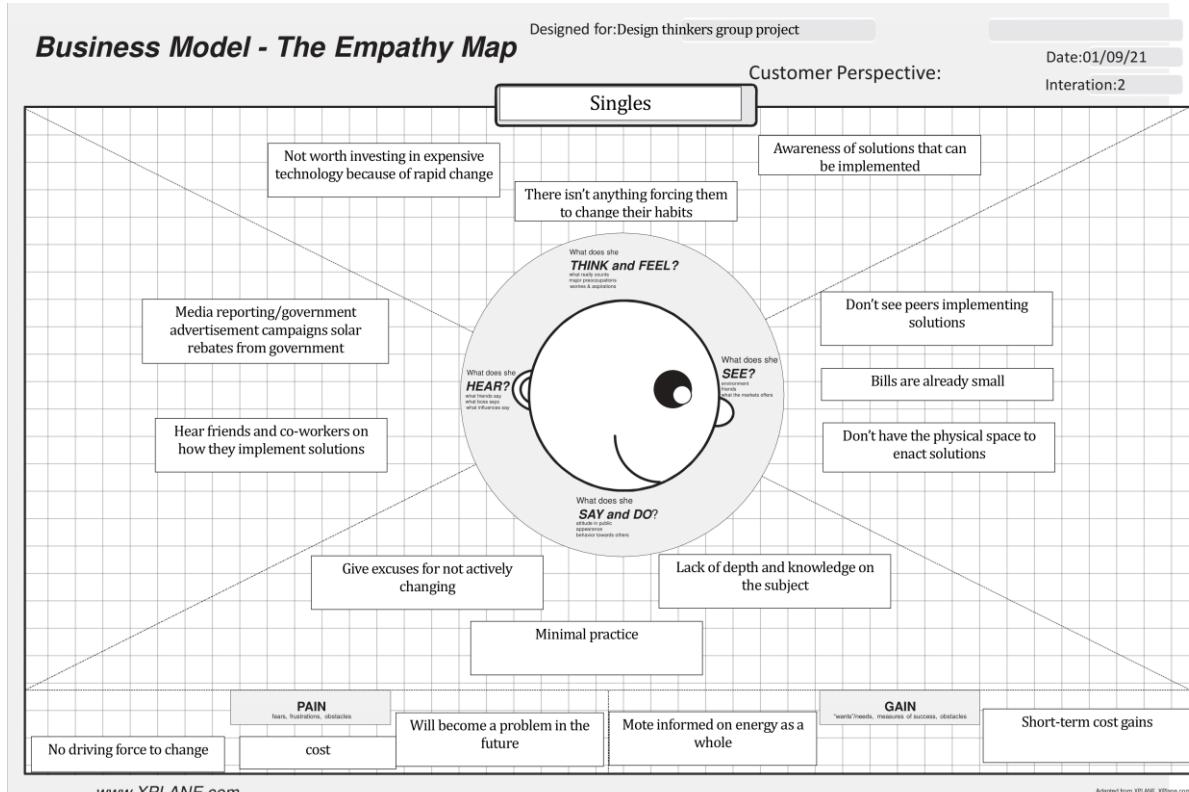


Figure 4. Empathy Map 2

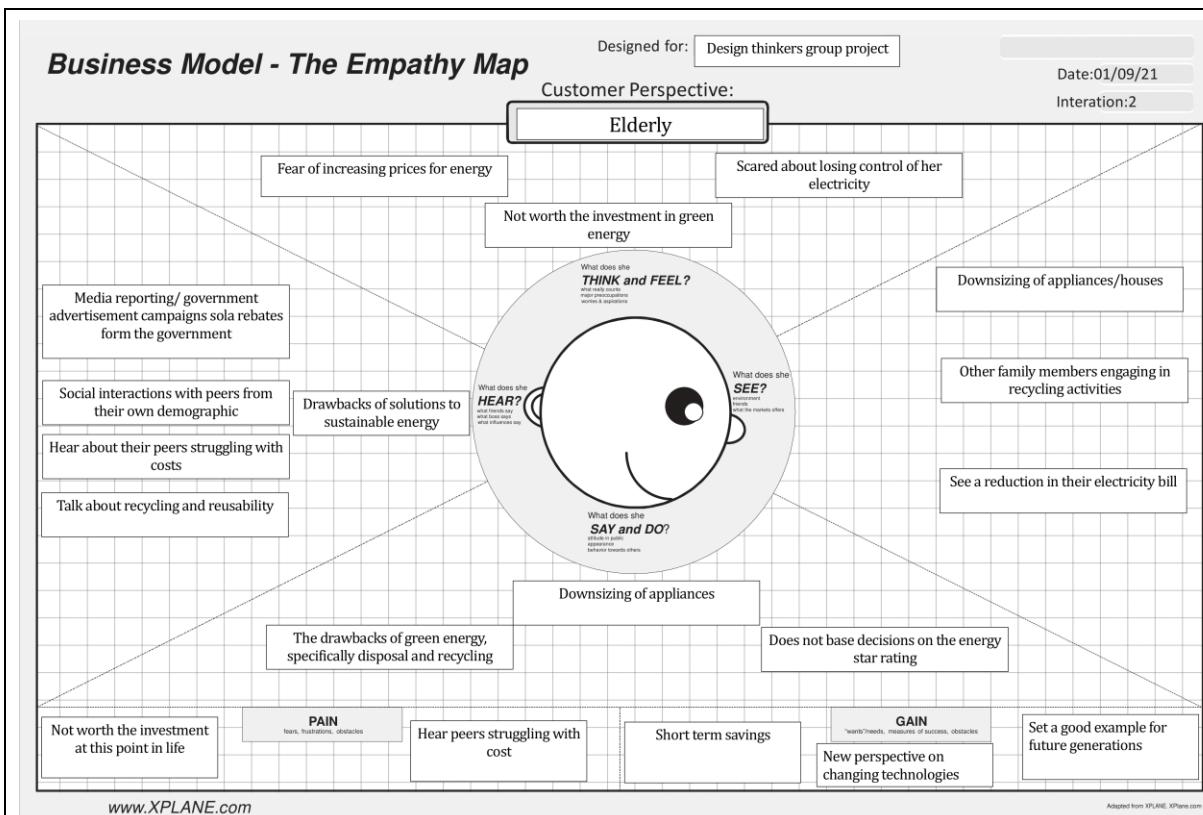
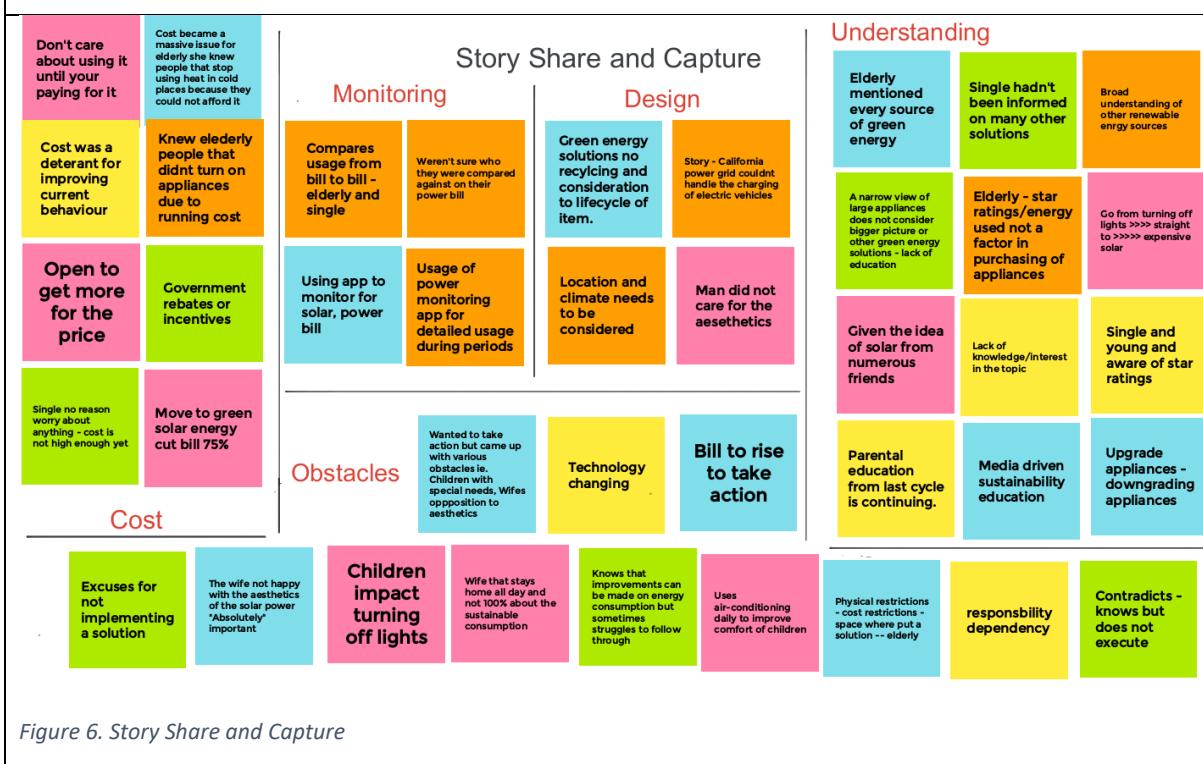


Figure 5. Empathy Map 3



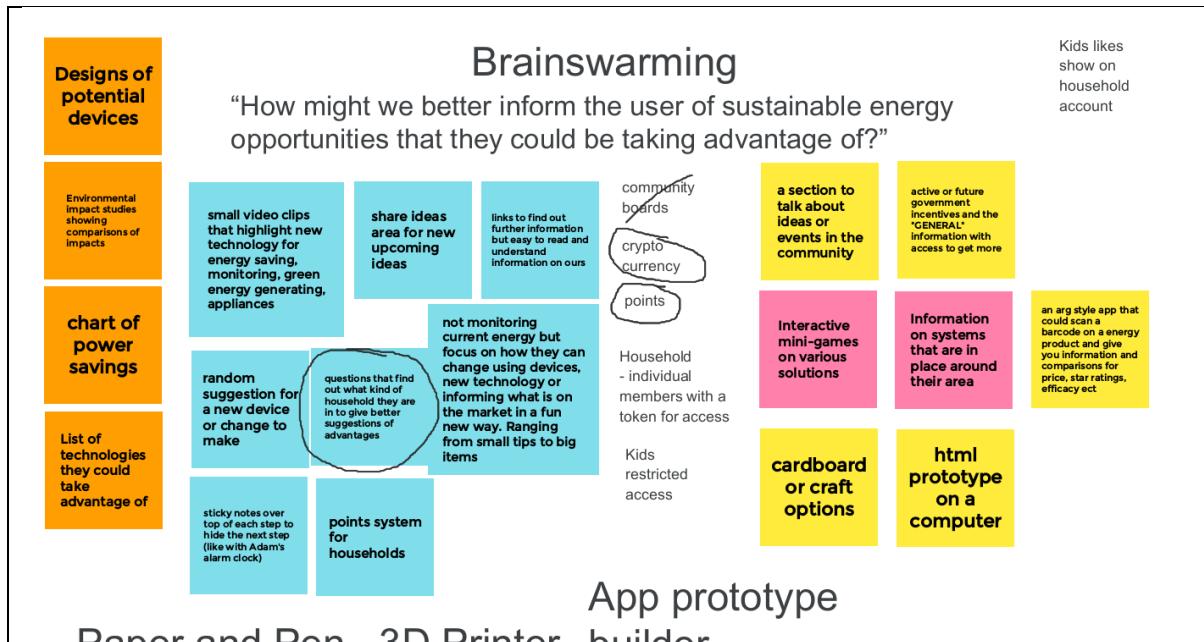
Define:

Methods that were used by our team to inform users of information included a point of view statement, brainswarming and how might we question in a brainstorm then a heat map to determine the final question. Point of view statements were determined individually for each of our users then combined to create an average user. Brainswarming was then used to connect user needs and set up an understanding and thinking process for how might we questions.

The conditions and process used by the team to create how might we questions was to place sticky notes in a brainswarming layout and enter information based on previous discussions whilst remaining silent. The information based on each discussion that was written on the sticky notes was to be related back to empathy maps, then shared with the group. Once this was completed and similar questions were combined a heat map was created to vote for each team members favorite question then a vote was conducted for the final question.

The composite character profile and point of view statement was determined to be;

“The household needs to receive alternative incentives beyond financial; additionally, it needs a solution to be flexible with a busy life and to consider the life cycle of the item because people invest in sustainable energy solutions for the financial incentives rather than the environmental benefits.”.



App prototype

Paper and Pen 3D Printer builder

Figure 7. Brainswarming

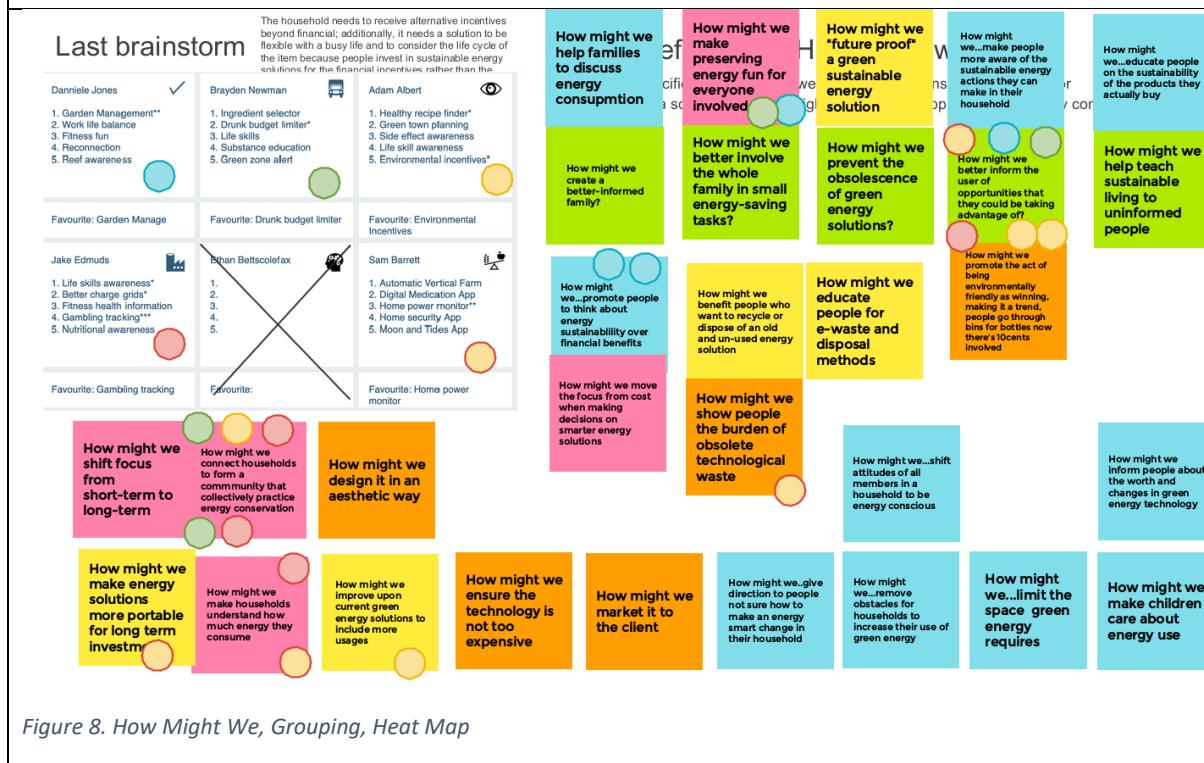
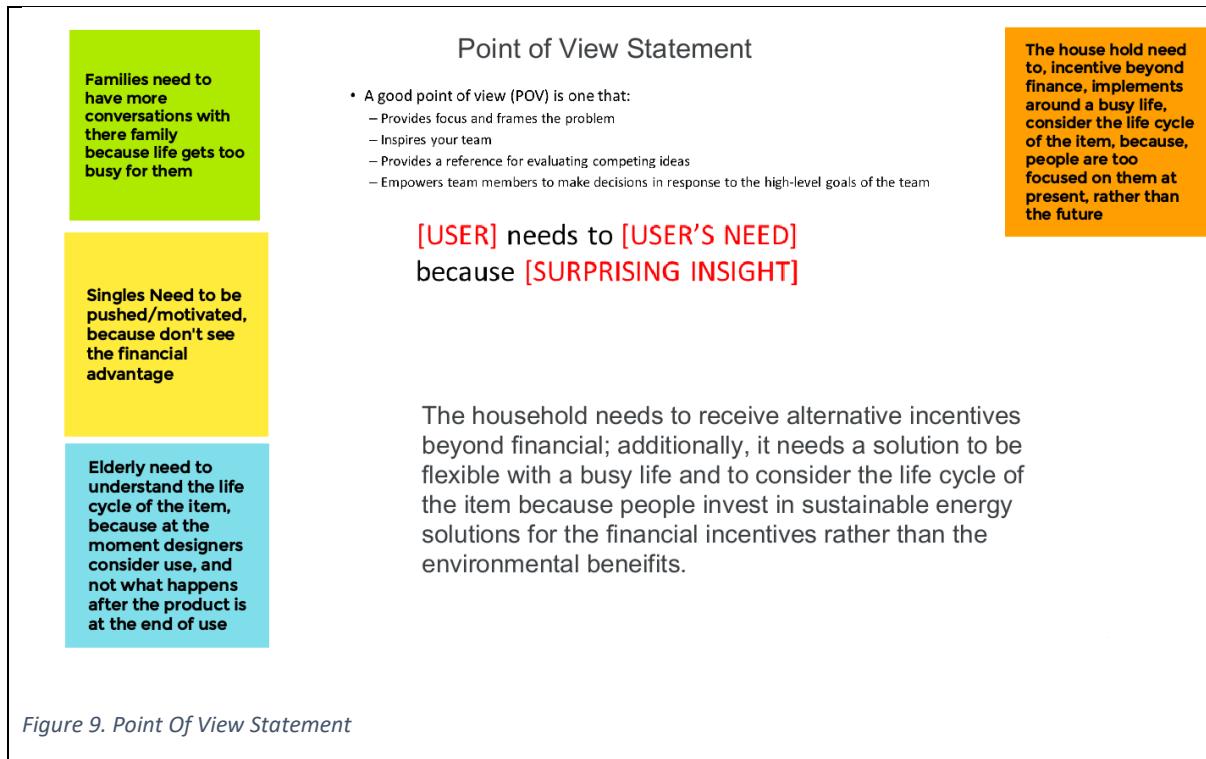


Figure 8. How Might We, Grouping, Heat Map



Ideation:

Ideation methods that were used include six thinking hats, brainswarming, crazy eights and selection. Six thinking hats allowed every individual from the group to see the ideas from a different perspective to determine possible deterrents and problems for the use to create a better product. It allowed discussion of possible problems in a way that allowed it to be clear and free of conflict. Brainswarming ensured that every individual in the group included ideas that contributed to the product. Brainswarming included ideas to be placed on a board in silence, then allowed for a discussion to further the improvement for the user and understanding what the user was looking for. Crazy eights began with dividing a piece of paper in eight squares and allowing each team member 40 seconds per sketch. The sketches were completed anonymously and then presented to the group. Once presented to the group it allowed for discussion of each idea to identify what might have been missed and how each can be improved or combined to create an ideal product. Once all ideas had been presented to the group a final product was decided on.

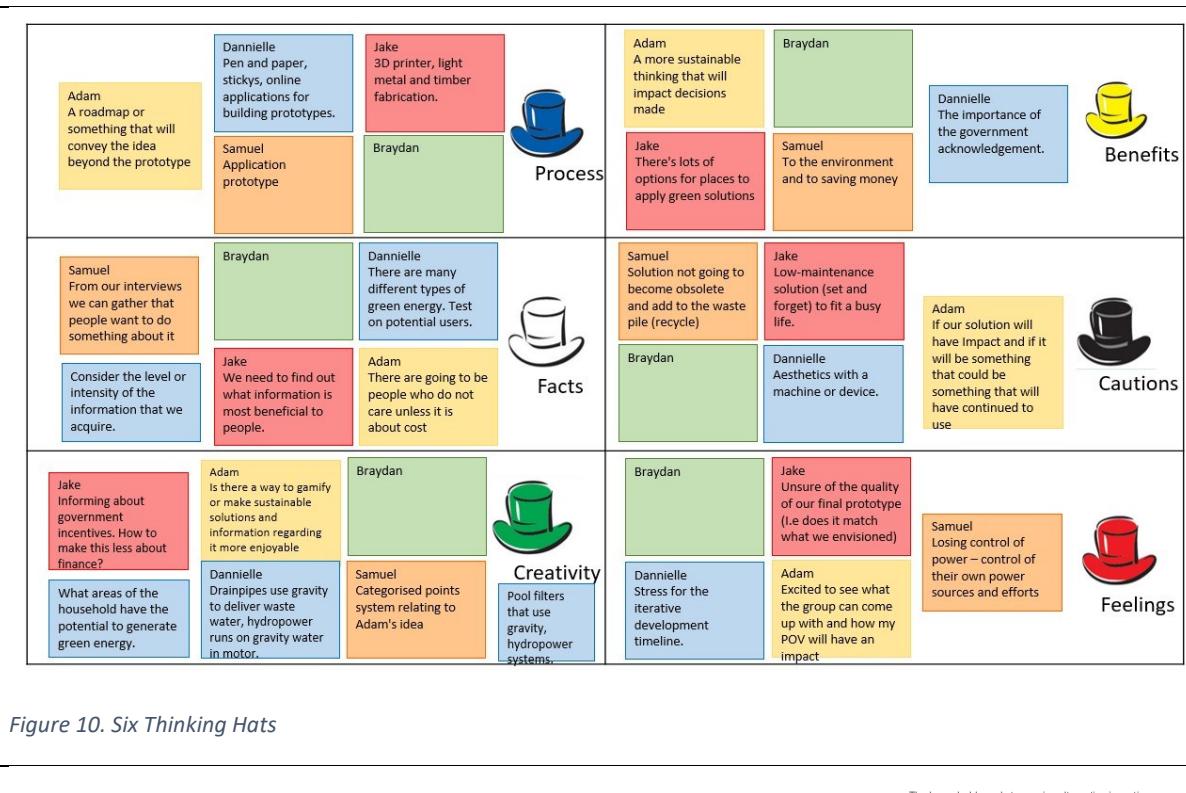


Figure 10. Six Thinking Hats

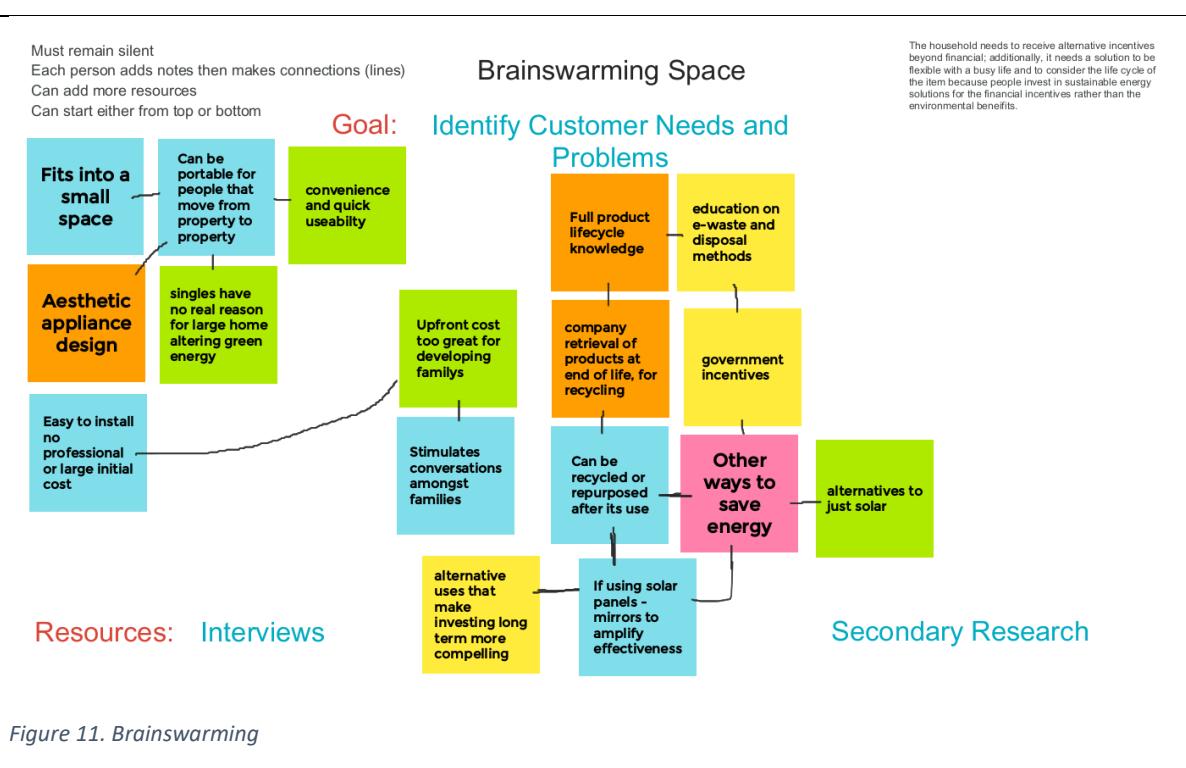


Figure 11. Brainswarming

Sam

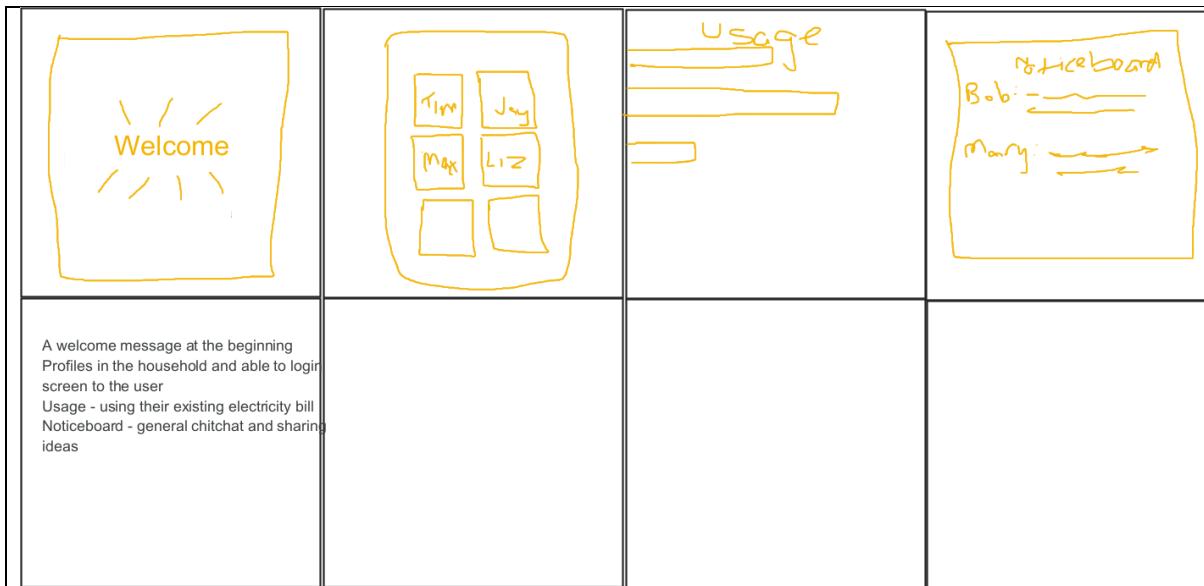
Graphs - visual representation
 Computer and app interchangeable
 Multiple people, interaction when testing



Figure 12. Crazy Eights - Sam

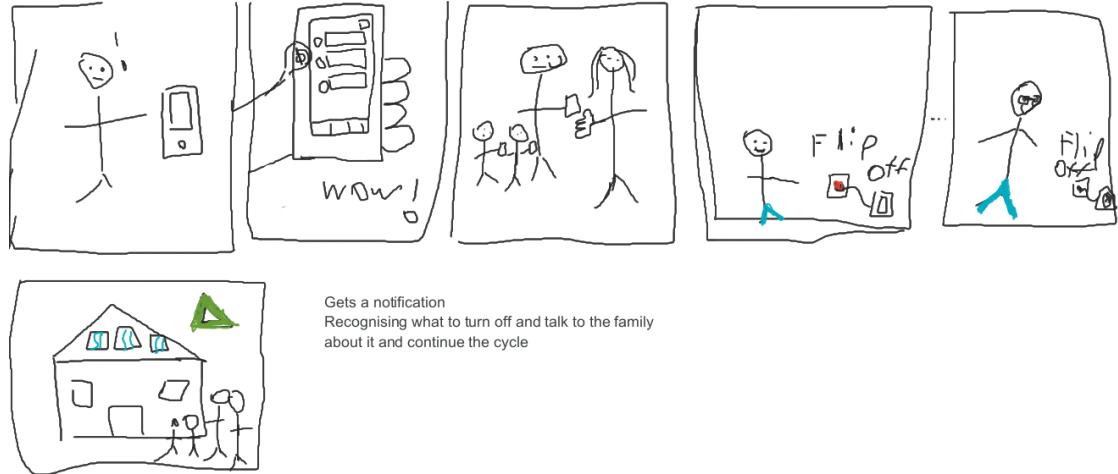
Explore	10 Points Your stuff.	Kids You like Suggest new solution give daily updates
More details Device name where to buy Ratings	10 Points Compare see what they do 10 20 30	Showing products Members of the household with avatars and their points Kids like/dislike and goes to sidebar tally of likes Daily mission that could get more points Automated app suggestion based on profile A more detailed page about the device and where you can buy them A leaderboard/ladder with comparison to other households A limit on the amount kids like or what stays on their list (timeframe)
Danielle		

Figure 13. Crazy Eights – Dannielle



Jake

Figure 14. Crazy Eights - Jake



Adam

Figure 15. Crazy Eights - Adam

A
First prototype - first test user sign up then explore or opposite???

1. Welcome screen
Household user input screen - pool, house type, how many people (generic)

S
J
2. User selection from household

D
3. Adding in current electricity bill information, what other household appliances (specifics)

B
4. Tutorial explanation on points, comparison

B
5. Explore area - videos and devices
--- more details: where to buy, ratings

Second Prototype
Notification board/Forum area - chatting
Notifications? What are we notifying about? (Top button design)
Comparison - leaderboard
My history - my profile - my household
Random/new device suggestion
Overall graph/projections

Later considerations
Particular Kids:
Kids user - restricted to likes and list of favourites

Crypto currency

Points

Select and Describe Solution

Figure 16. Select and Describe

Prototype and Test (Iteration 1)

The left wireframe shows a scrollable section with three identical card-like components. Each card has a video thumbnail, the title 'The Most Efficient Apple', a short description, and a row of five stars. A note below the cards says: "A scrollable section with a seemingly endless supply of products of energy efficiency".

The right wireframe shows a single card for 'The Most Efficient Apple' with a video thumbnail, the title, a short description, and a row of five stars. Below the card are three circular icons: a house, a heart, and an eye. At the bottom are navigation arrows.

Note: More info of individual products with lots of info of it, the house heart and eye allow to save items to almost like folders

Samuel Barrett - 13038579

2. User selection from the household

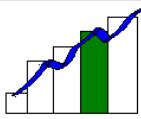
Lets construct your home
House, Apartment, Unit, or Studio?
Do you own or rent?
How many people live in your home?
How many rooms?
Are any rooms vacant?
Gas or Electric stove?
How many litre hot water system?
How many:
LED lights, Fluorescent lights, Bulbs
Fridges, Washing machines, Dryers
Dishwasher, Kettle, TVs, ACs
Heaters, microwave
Any solar, wind, thermal generators?
Average quarterly power bill?
Modelling efficiency...
progress bar...
1 2 3 4
[Continue ->](#)

NOTE: Each of these questions can open in separate windows to refine size of appliance, power rating.
Any home generation of power would open on a separate window to refine.
Lights can average time on? (Difficult)

Here are your results

Your power bill is:

Above average



More facts and comparisons...

Here...

Here...

Here...

Suggested improvements available for your situation:

[Suggestions ->](#)

Suggested efficiency upgrades:

For fully optimised plan add appliance serial numbers in the home construction tab

[Now? ->](#) [Skip](#)

In you situation:

People with solar are saving \$300quarter

Selling a fridge and getting 1 large fridge saved \$85

Adding a yaght wind turbine to your roof can save \$100

Home storage battery can store your generated power cheaply

[Suggested products links ->](#)

This product page can be like the list in Amazon where they other show other people also bought etc. Algorithm can link to suppliers sites, they would pay to have their links, and a comission would arrive for all sales from links to the app developers.

Using the app:

Points

Are gained from adding new sustainable energy technology or devices into your household.

These can be used to compare to other households and see what they are doing differently.

Points: 10	
20	Compare
10	Your Household
5	Compare

Continue ->

Using the app:

Explore

Allows you to find new technology and green energy solutions that interest and suit your household.

You can get a random suggestion of a big or small change to make in your household. Or just find technology or ideas that interest you to save to your household sustainable energy plan.



Solar fish device

Continue ->

Energy Household App (Title)

You can refer back to this help section at any time through the:

 = help

You are now ready to explore!

Let's Explore!

Energy Household App Tutorial

We are about:

- helping your household to implement more sustainable energy solutions

We want to inform you:

- on the life-cycle of your sustainable solutions
- how or what you can do to take action in your home
- where you can save or buy sustainable energy solutions
- help you to discover new and wonderful technology!

SKIP **Continue ->**

Using the app:

My Household Profile

Helps you to track your household type and its members. You can update this any time that you move or your household changes.

My Household	
	P B A
Points: 10	My household plan:
	Device A

Continue ->

Using the app:

Forum

Allows you to chat with other like-minded people on their sustainable energy use.

This device was awesome for me:
<LINK>

That device cannot be recycled.

Enter chat here... **SEND**

Continue ->

Lets start tracking your power bills to see your progress -->

Amount \$

People in household

Billing period

➡

Home **Explore** **Forums**

Your bill history -->

Period	Amount	Changes
Jun - Sep	\$673	None
Sep - Dec	\$654	Changed out lightbulbs
—	—	—
—	—	—
—	—	—
—	—	—
—	—	—

Home **Explore** **Forums**

Tell us about the appliances in your household-->

Tick what's relevant:

Dishwasher Dryer
 Computer Washing Machine
 Fridge Freezer
 Pool Pump Gas Cooktop
 Air-Conditioners Other:

➡

Home **Explore** **Forums**

proto.io



Untitled

adam albert

 6 screens

made with proto.io

Untitled

proto.io

Screen 1



Sign Up

Already have a profile?

exported on 14/09/2021, 23:33 1/7

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exported on 14/09/2021, 23:33 2/7

Untitled proto.io Screen 2

Who is playing?



Eco Life

Welcome Back

made with proto.io exported on 14/09/2021, 23:33 3/7 made with proto.io exported on 14/09/2021, 23:33 4/7

Untitled proto.io Screen 4

Rank: 21 Points: 40

Your Household

- 3 points earned by jeff
- 12 points earned by jessica
- 15 points earned by TJ
- 10 points earned by greg

Untitled proto.io Screen 5

Money Saved

\$200.20

Your household liked

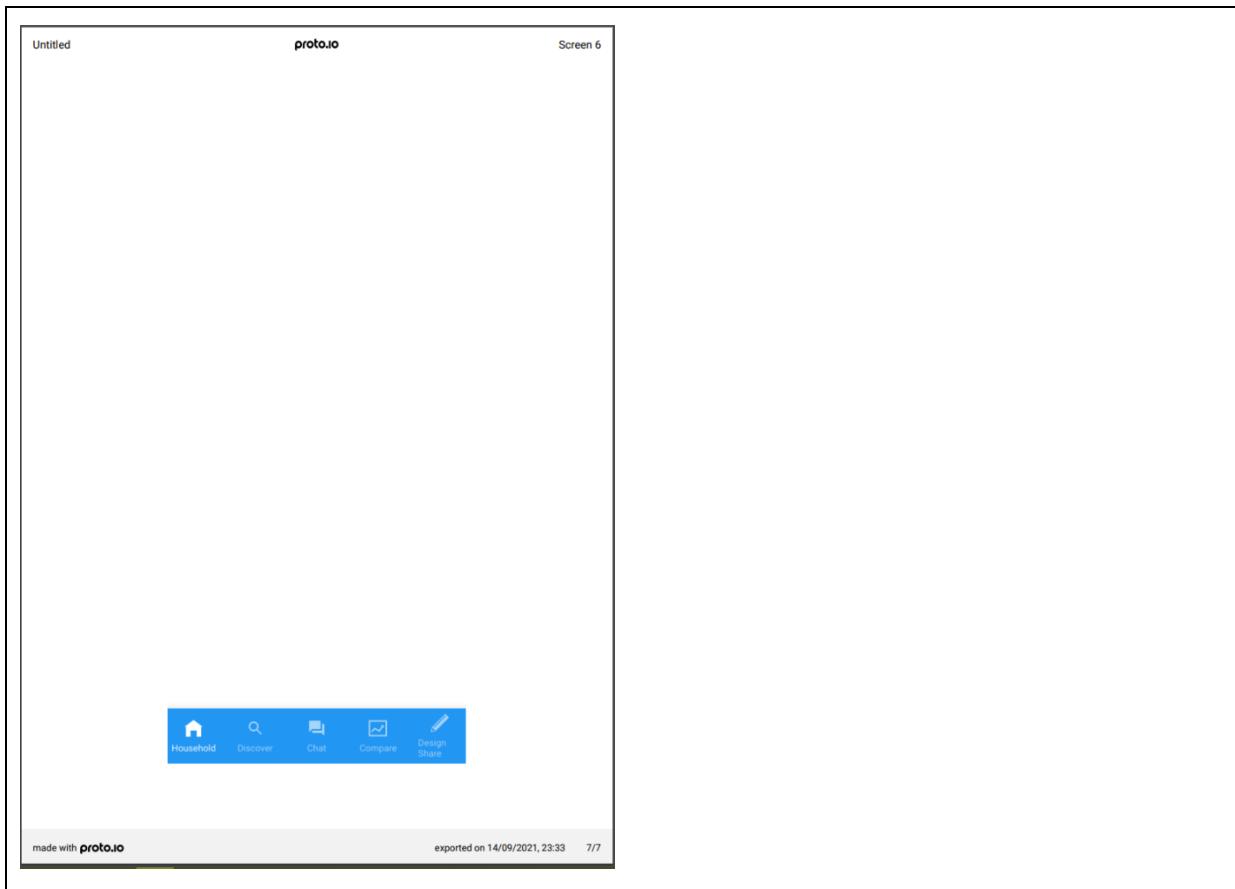
7 UNBELIEVABLE Solar Powered Creations

Solar motor-Free energy motor

Household Discover Chat Compare Design Share

Household Discover Chat Compare Design Share

made with proto.io exported on 14/09/2021, 23:33 5/7 made with proto.io exported on 14/09/2021, 23:33 6/7



During the creation of the first prototype each section was individually constructed to highlight individual ideas and possible outcomes. This allowed for a combined second prototype that included the most useful ideas from the first. Once the prototype was completed a person was picked to test the prototype. During the test a script was followed to allow consistency between subjects. During the test the subjects were given limited knowledge on how the product was used. This allowed us to gage how smoothly and efficiently the layout worked to make further improvements. The subjects were then to guess what space this app was produced to cover.

Once the subjects and team members had produced their final feedback and evaluation two charts were produced to represent this. Figure 17 shows team members feedback and evaluation from prototype 1 and Figure 18 shows the clients feedback and evaluations.

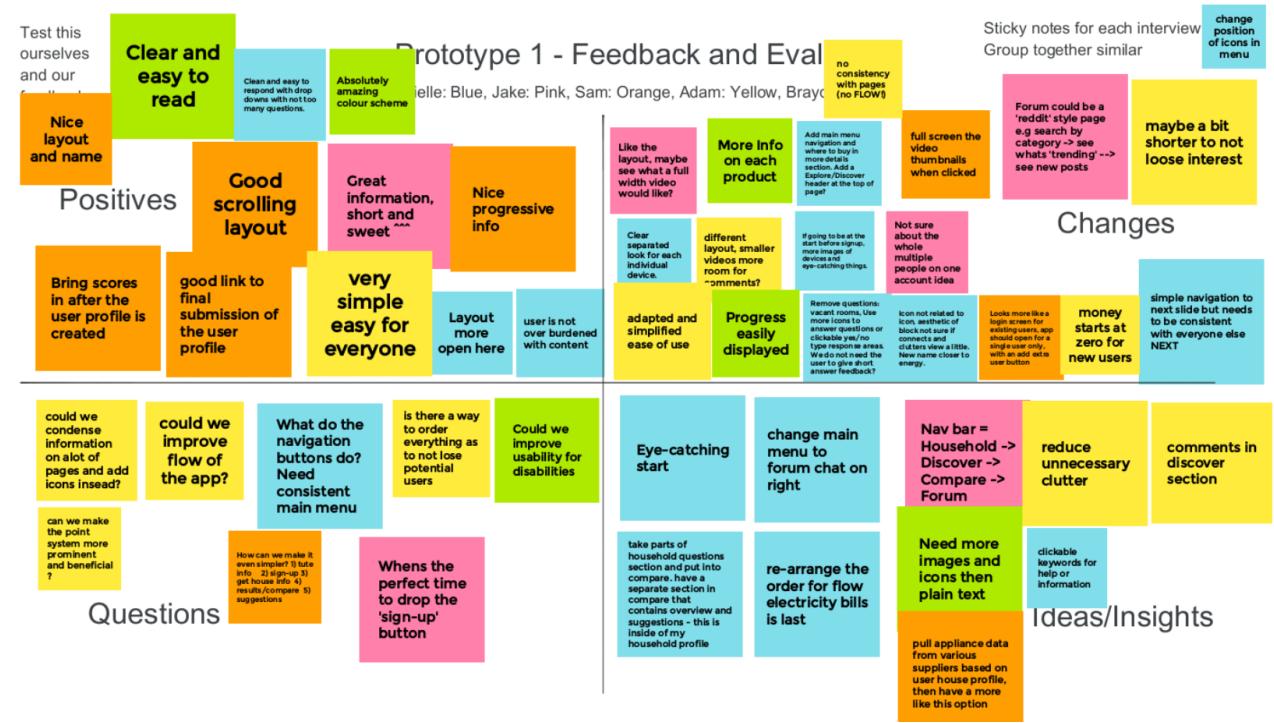


Figure 17. Team Member Feedback and Evaluation

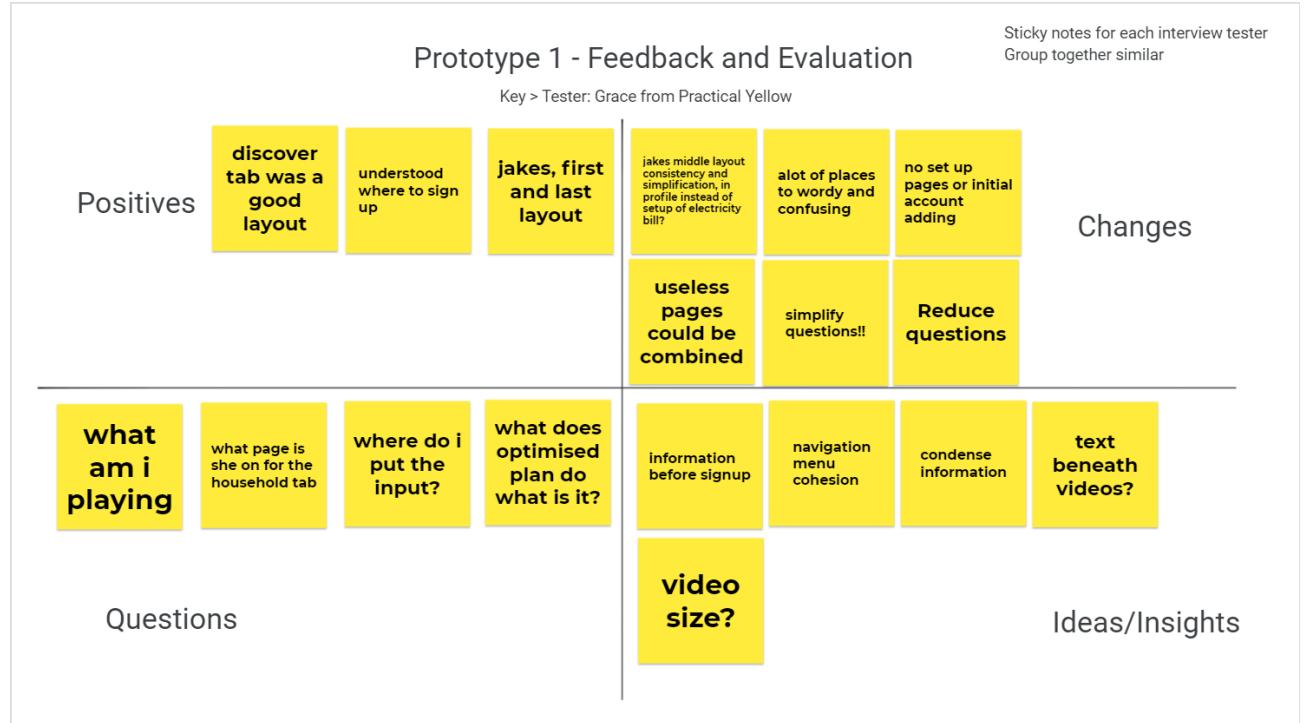


Figure 18. Test Subject Feedback

Prototype and Test (Iteration 2)

proto.io

Untitled

adam albert

23 screens

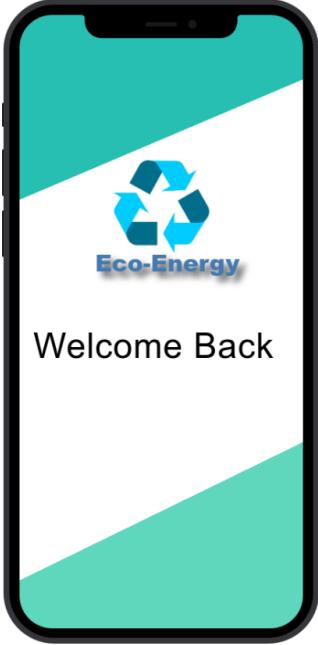
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exported on 21/09/2021, 22:23

1/24

proto.io

Screen 3



Welcome Back

Eco-Energy

Recycling logo

made with proto.io

exported on 21/09/2021, 22:23

2/24

Untitled

proto.io

Screen 7

Discover

- Solar motor—Free energy motor
129k likes, 29k dislikes
- 7 ubalivable energy devices
19k likes, 1k dislikes
- Backyard Aquaponics Farming
109k likes, 19k dislikes
- The Biggest Lie About Renewable Energy
60k likes, 9k dislikes
- Sustainable City Living on 1/10th of an Acre
29k likes, 2k dislikes

Household Discover Compare Forum

made with proto.io

exported on 21/09/2021, 22:23

3/24

Untitled

proto.io

Screen 2

Create Account

Name:

Select your Avatar

Avatar icons: Rocket, Star, Pizza, Star

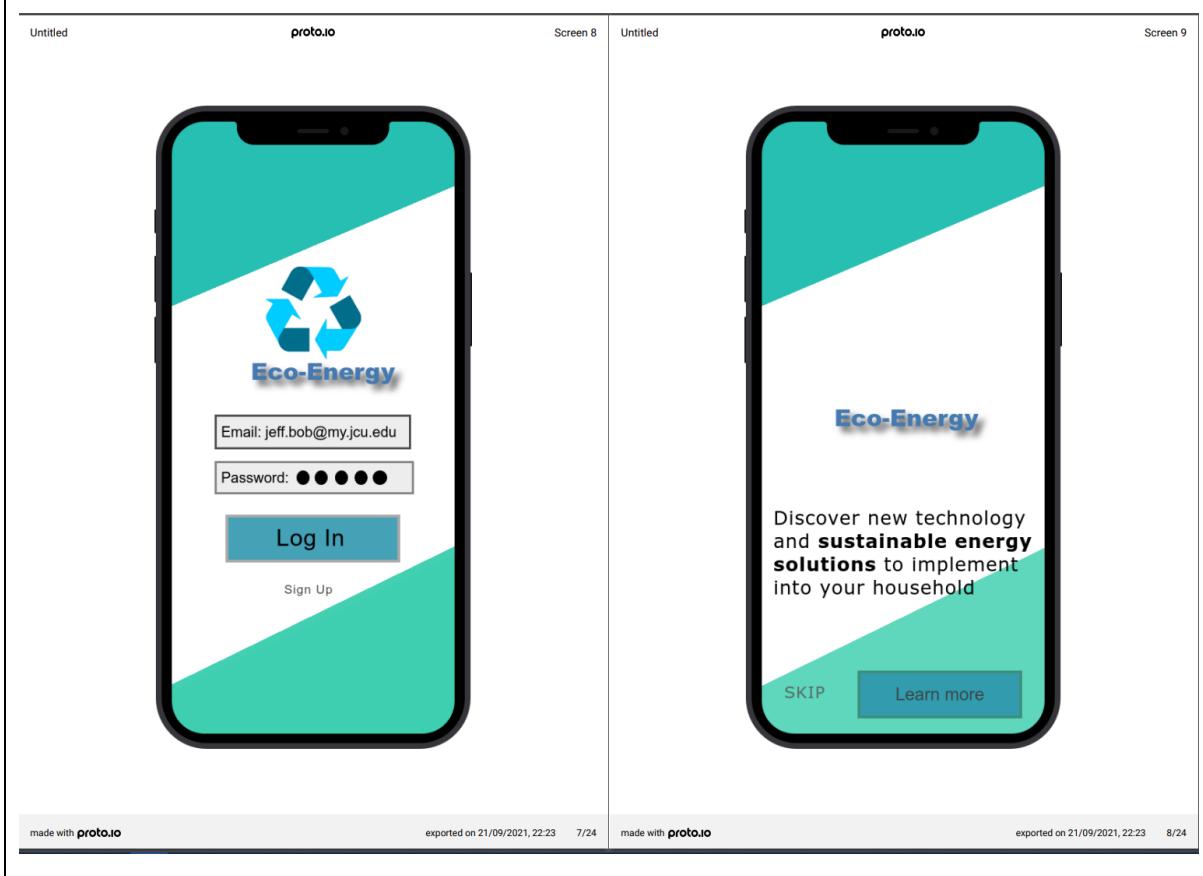
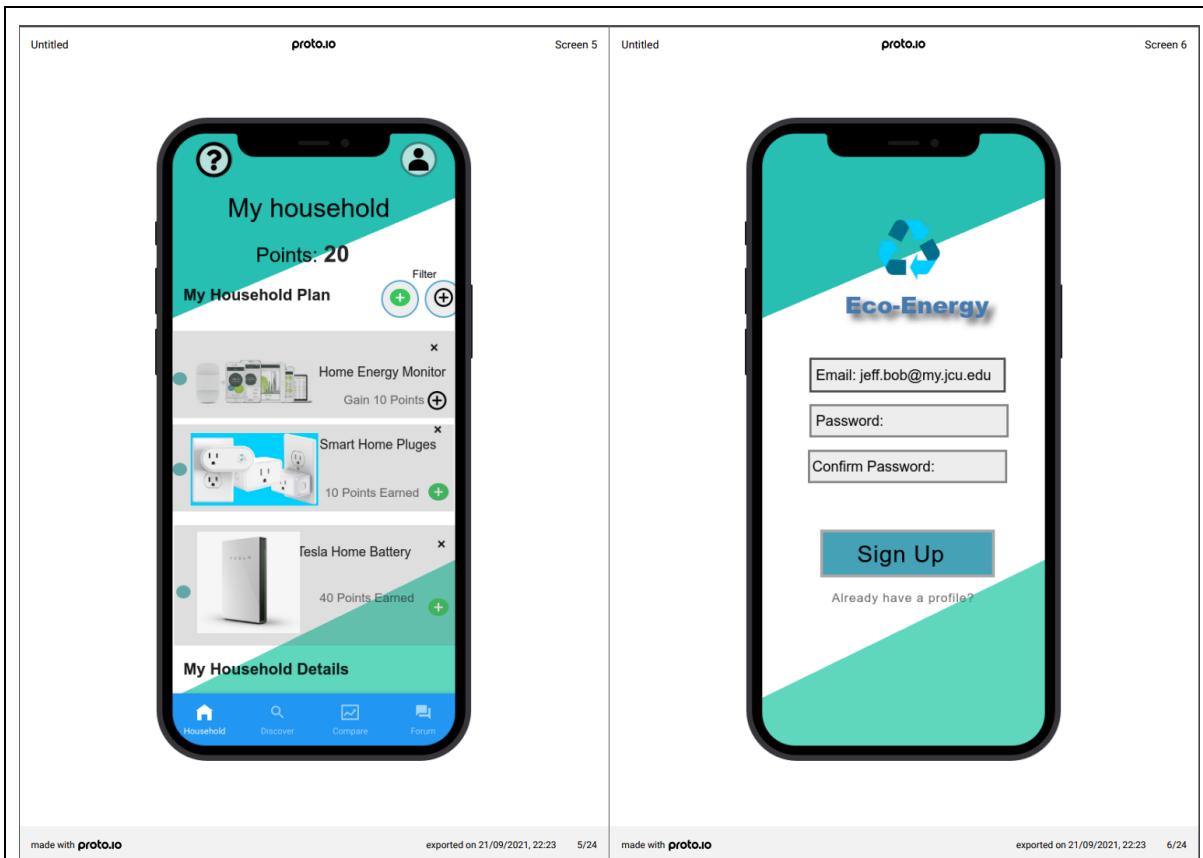
Add Another User

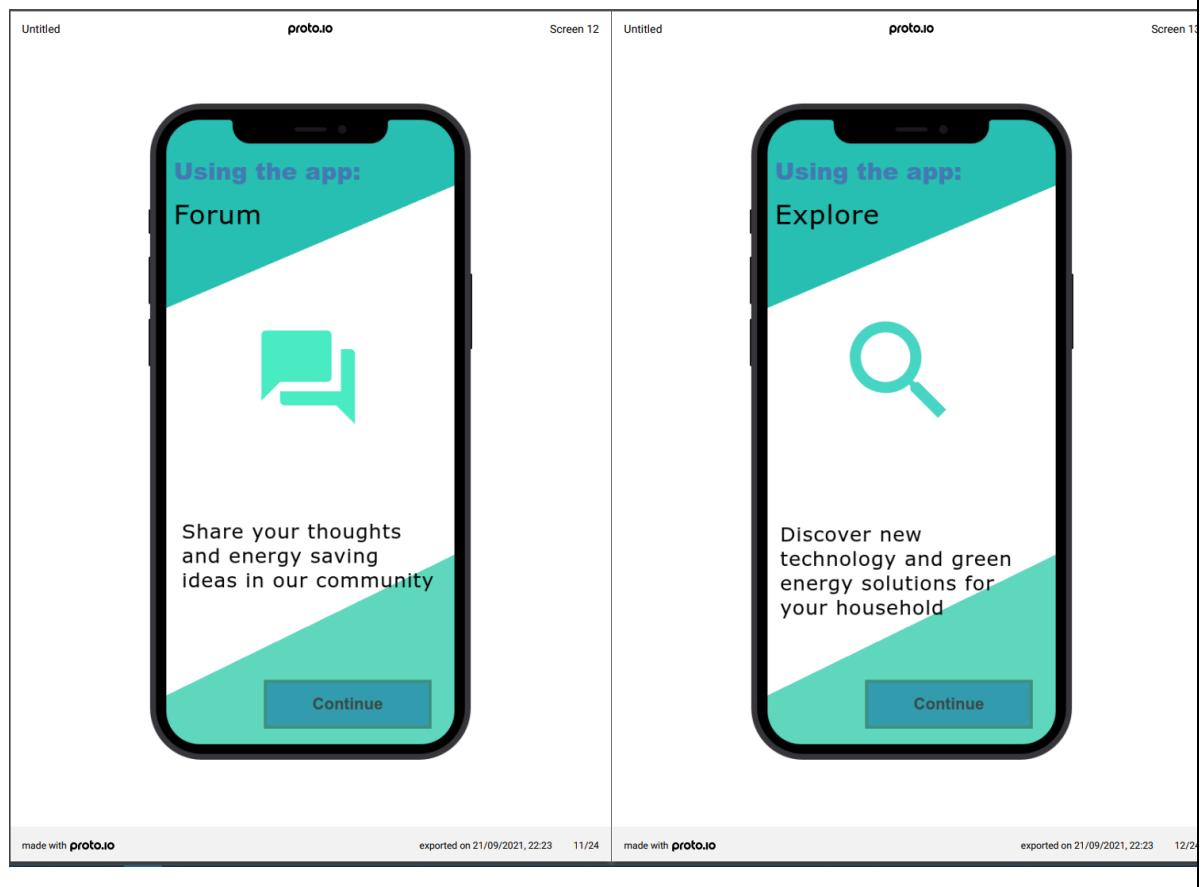
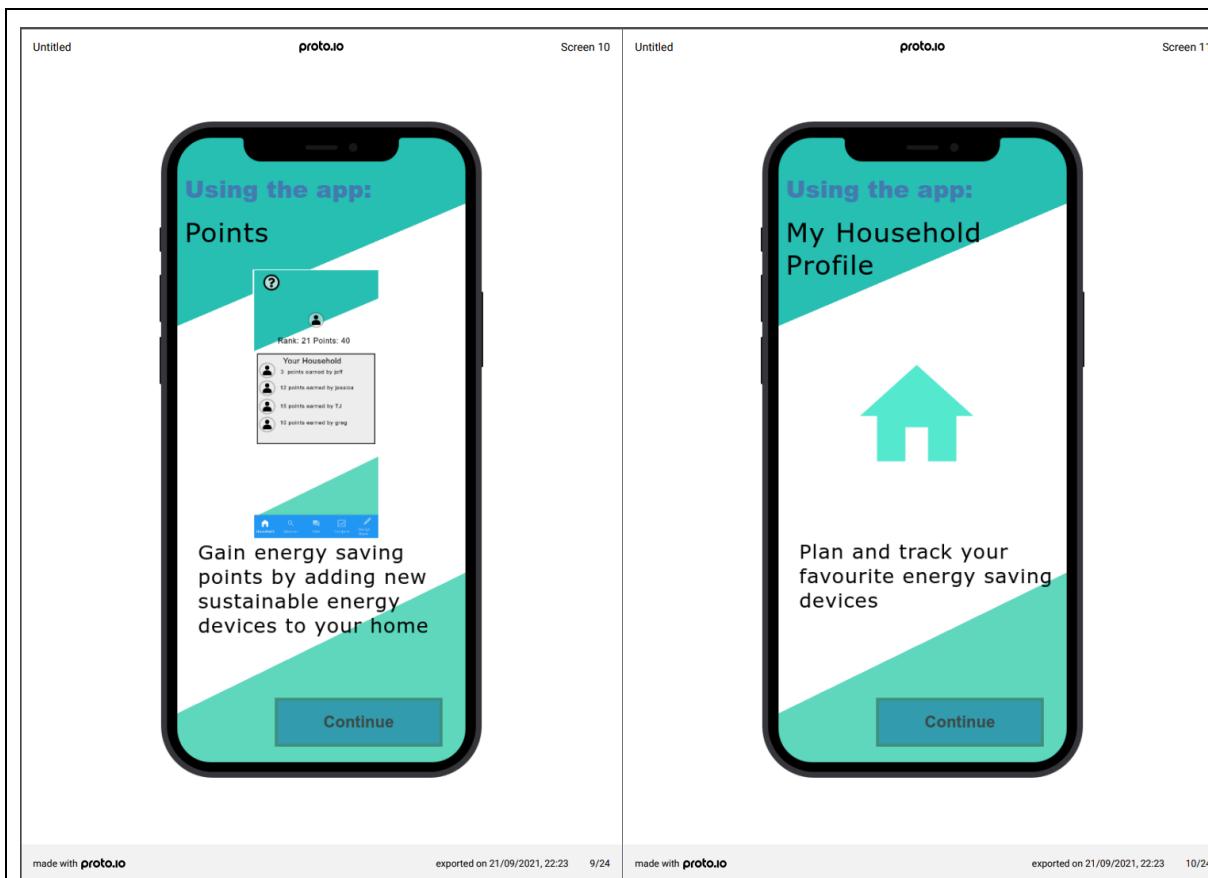
Complete

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exported on 21/09/2021, 22:23

4/24





Untitled proto.io Screen 14

Need Help?

Lastly, use the Help icon to get explanations



You are now ready to Explore!

Lets Explore!

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Untitled proto.io Screen 15

My Household Details

Household Members: 3
Property type: House
Status: Renting
Last Electricity Bill: \$400

Update Household

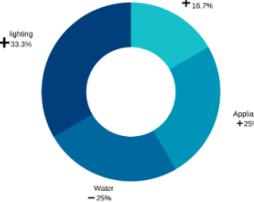
Household Discover Compare Forum

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Untitled proto.io Screen 16

My Usage

Compared to other (Houses)



Cooling +10.7%

Appliances +25%

Water -25%

Lighting +33.3%

Power Bill Update Household

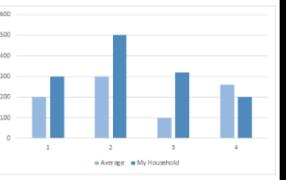
Household Discover Compare Forum

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Untitled proto.io Screen 17

Compare My Power Bill

Quarterly



Quarter	Average	My Household
1	~250	~300
2	~350	~500
3	~100	~250
4	~250	~200

Back Add Power Bill

Household Discover Compare Forum

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proto.io

Screen 18

Household Details

Are you an owner or a renter of the household?

Owner: Renter:

What best describes your dwelling?

House

How many People live in the Household?

3

Continue

1 2 3 4

Household Discover Compare Forum

Untitled

proto.io

Screen 19

Household Details

Appliances in my Household

Dishwasher	<input type="checkbox"/>	Dryer	<input type="checkbox"/>
Computer	<input type="checkbox"/>	Washing machine	<input type="checkbox"/>
Fridge	<input type="checkbox"/>	Freezer	<input type="checkbox"/>
Pool	<input type="checkbox"/>	Gas cooktop	<input type="checkbox"/>
Air Conditioner(s)	<input type="checkbox"/>	Other	<input type="checkbox"/>

Continue

1 2 3 4

Household Discover Compare Forum

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proto.io

Screen 20

Household Details

My Household contains Tick all that apply

- Solar Power system
- Standalone Battery
- Wind Harnessing system
- Compost station

Continue

1 2 3 4

Household Discover Compare Forum

Untitled

proto.io

Screen 21

Household Details

Add Your most recent power bill to track progress

Amount \$

Period start date

Billing Period

Complete

1 2 3 4

Household Discover Compare Forum

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Screen 22

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Screen 23

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Screen 24

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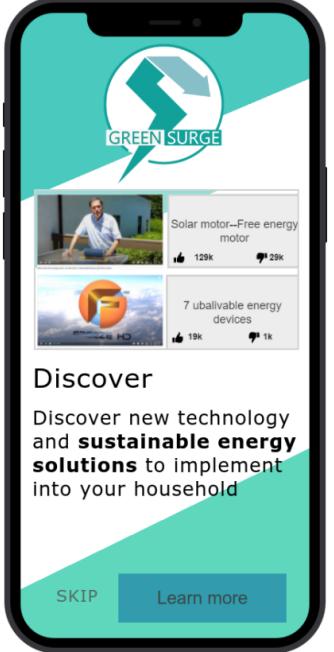
Screen 25

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The second prototype was a unification of the sections created by each team member to create one theme. Feedback was provided by seven users and five team members to create modifications that would improve the app and ensure a positive outcome for the clients. Feedback from the users suggested that amount of text present on the screen was too overwhelming, as a result we decreased this as well as changed the arrangement to allow it to be clearer and more straight forward. The presentation of the user login page before the tutorial was also changed, to allow an understanding to the user of what the app would provide them. When rearranging the app, the team members also decided that the app looked overwhelming, so the design was changed to allow it to be more aesthetically pleasing. When reviewing the feedback from my user it was clear that she had very few issues navigating the app, although she thought some UI elements were buttons, when this wasn't the case. Overall, the team decided that the 'creating account' page was confusing and some of the wording was not clear and easy to understand so, this was changed. Modifications that were made to improve the user benefits of the app included making it clear and concise, allowing it to be aesthetically pleasing, changing UI elements and changing the order in which the user would login.

Prototype and Test (Iteration 3)

<p>proto.io</p> <p>Cp1403 Prototype Design Thinkers</p> <p>24 screens</p>	<p>Cp1403 Prototype</p> <p>proto.io</p> <p>Tutorial_0</p>  <p>made with proto.io exported on 27/09/2021, 13:14 1/25</p> <p>made with proto.io exported on 27/09/2021, 13:14 2/25</p>
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Cp1403 Prototype	proto.io	Tutorial_02	Cp1403 Prototype	proto.io	Tutorial_03
<p>Using the app: My Household</p> <p>Points: 50</p> <p>My Household Plan</p> <p>Home Energy Monitor Gain 10 Points</p> <p>Smart Home Plugs 10 Points Earned</p> <p>Plan and track your favourite sustainable energy devices and earn points by implementing them into your home</p> <p>Continue</p>			<p>Using the app: Forum</p> <p>Search</p> <p>Are 'Green Banks' Really Better for the Environment?</p> <p>Do you know of any startup in sustainability/environment-well-being that is looking for an early Data Scientist?</p> <p>In Japan, more sustainable 'tree burials' are gaining in popularity as a lack of burial space is changing age-old funeral practices</p> <p>The World's No. 1 in Geothermal Electricity, Kenya Aims to Export Its Know-How</p> <p>Create new Post</p> <p>Share your thoughts and energy saving ideas in our community</p> <p>Continue</p>		
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Cp1403 Prototype	proto.io	Tutorial_04	Cp1403 Prototype	proto.io	Sign Up
<p>Using the app: Help</p> <p>Use the help icon any time to find out more information about a topic.</p> <p>You are now ready to discover!</p> <p>SIGN IN SIGN UP</p>			<p>GREEN SURGE</p> <p>Email: jeff.bob@my.jcu.edu</p> <p>Password:</p> <p>Confirm Password:</p> <p>SIGN UP</p> <p>Already have a profile?</p>		
made with proto.io		exported on 27/09/2021, 13:14 5/25	made with proto.io		exported on 27/09/2021, 13:14 6/25

Cp1403 Prototype proto.io Create Household/User



Name your household:
E.g. Bones Family

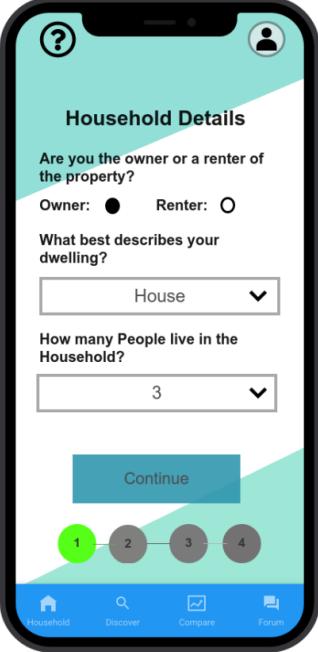
Create Users
Add users to your household:
Username/Nickname

Select your Avatar:
User icons (Bell, Star, Pizza, Star) and Add User button.

Household Name: Bones Family
Emily (Avatar)

Complete

Cp1403 Prototype proto.io Set/Update Household_01



Are you the owner or a renter of the property?
Owner: Renter:

What best describes your dwelling?
House

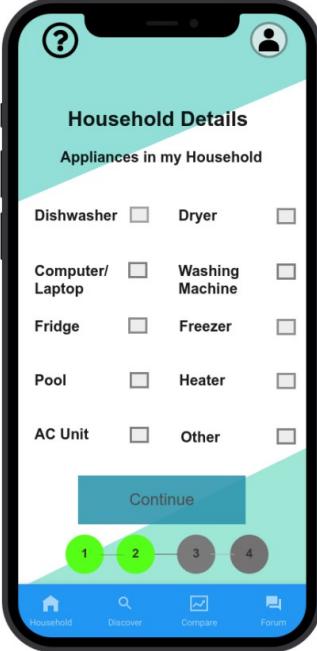
How many People live in the Household?
3

Continue

made with proto.io exported on 27/09/2021, 13:14 7/25

made with proto.io exported on 27/09/2021, 13:14 8/25

Cp1403 Prototype proto.io Set/Update Household_02

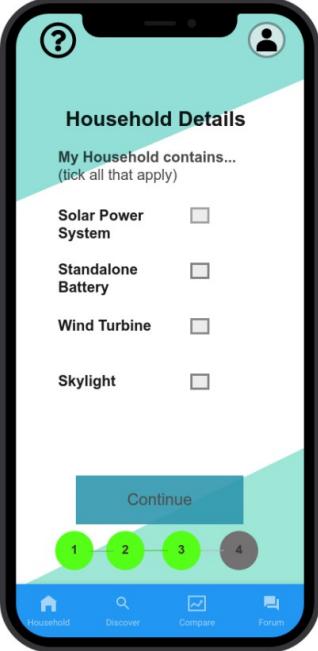


Household Details
Appliances in my Household

Dishwasher	<input type="checkbox"/>	Dryer	<input type="checkbox"/>
Computer/ Laptop	<input type="checkbox"/>	Washing Machine	<input type="checkbox"/>
Fridge	<input type="checkbox"/>	Freezer	<input type="checkbox"/>
Pool	<input type="checkbox"/>	Heater	<input type="checkbox"/>
AC Unit	<input type="checkbox"/>	Other	<input type="checkbox"/>

Continue

Cp1403 Prototype proto.io Set/Update Household_03



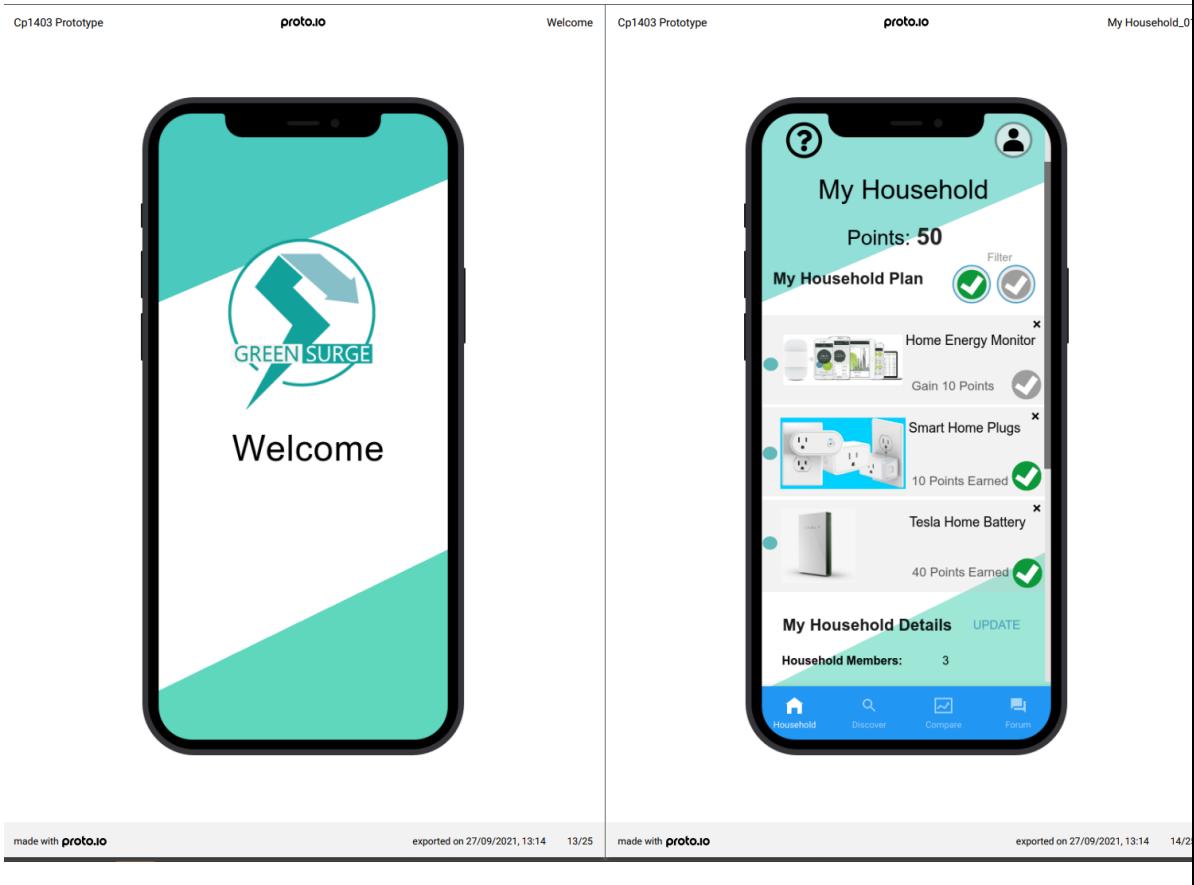
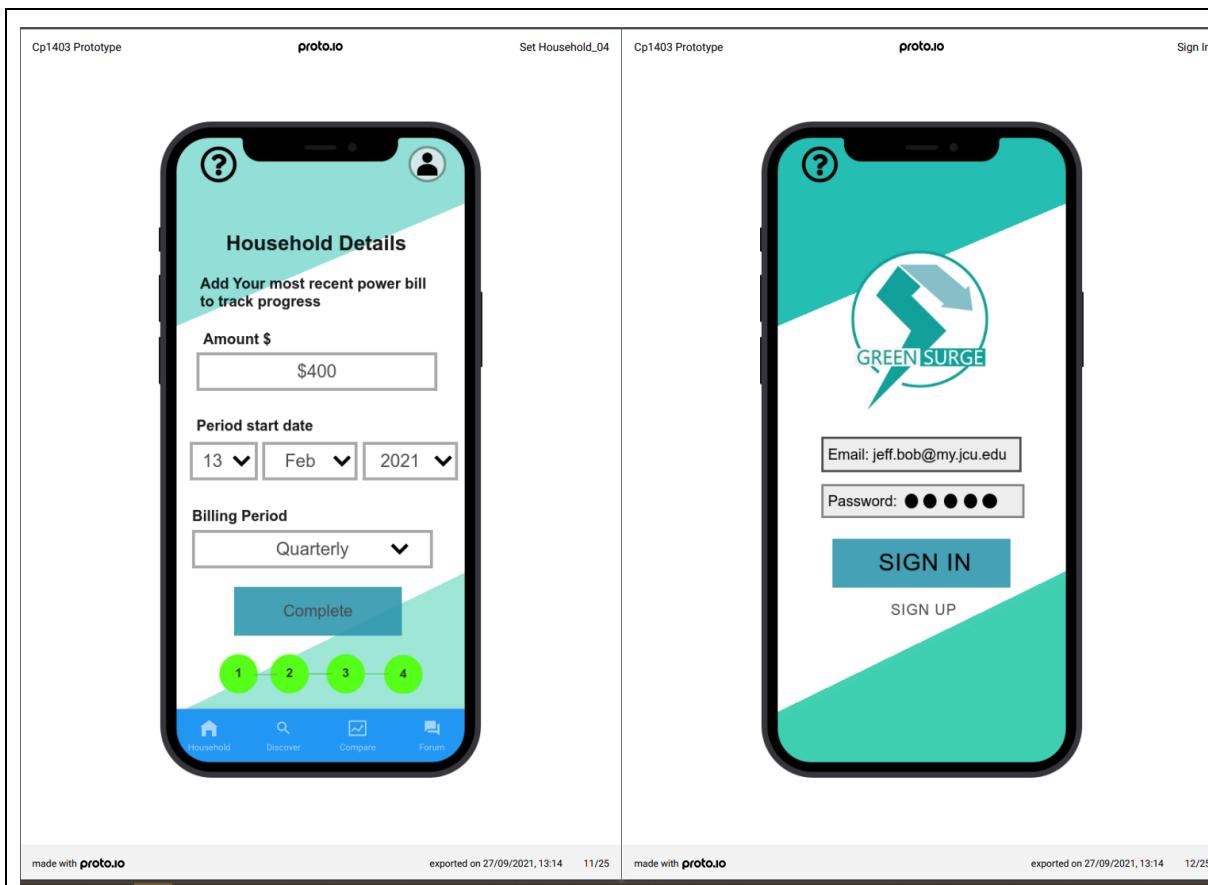
Household Details
My Household contains... (tick all that apply)

Solar Power System	<input type="checkbox"/>
Standalone Battery	<input type="checkbox"/>
Wind Turbine	<input type="checkbox"/>
Skylight	<input type="checkbox"/>

Continue

made with proto.io exported on 27/09/2021, 13:14 9/25

made with proto.io exported on 27/09/2021, 13:14 10/25



Cp1403 Prototype

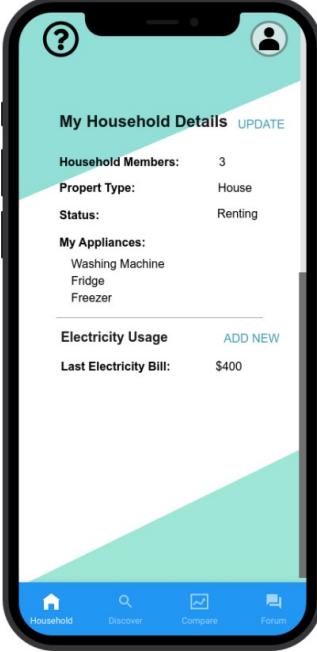
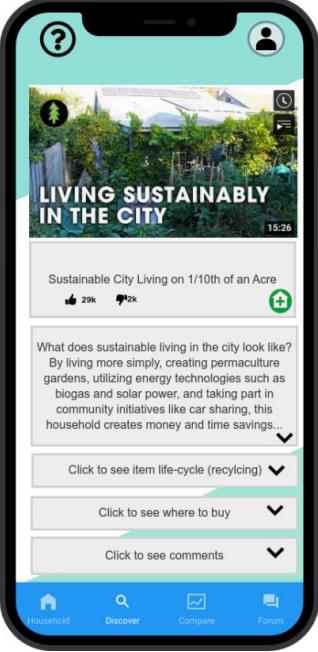
proto.io

My Household_02

Cp1403 Prototype

proto.io

Discover_02

made with proto.io

exported on 27/09/2021, 13:14 15/25

made with proto.io

exported on 27/09/2021, 13:14 16/25

Cp1403 Prototype

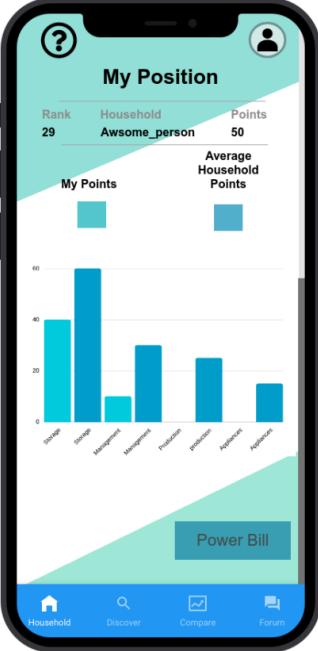
proto.io

Compare_01 - State 1

Cp1403 Prototype

proto.io

Compare_02

made with proto.io

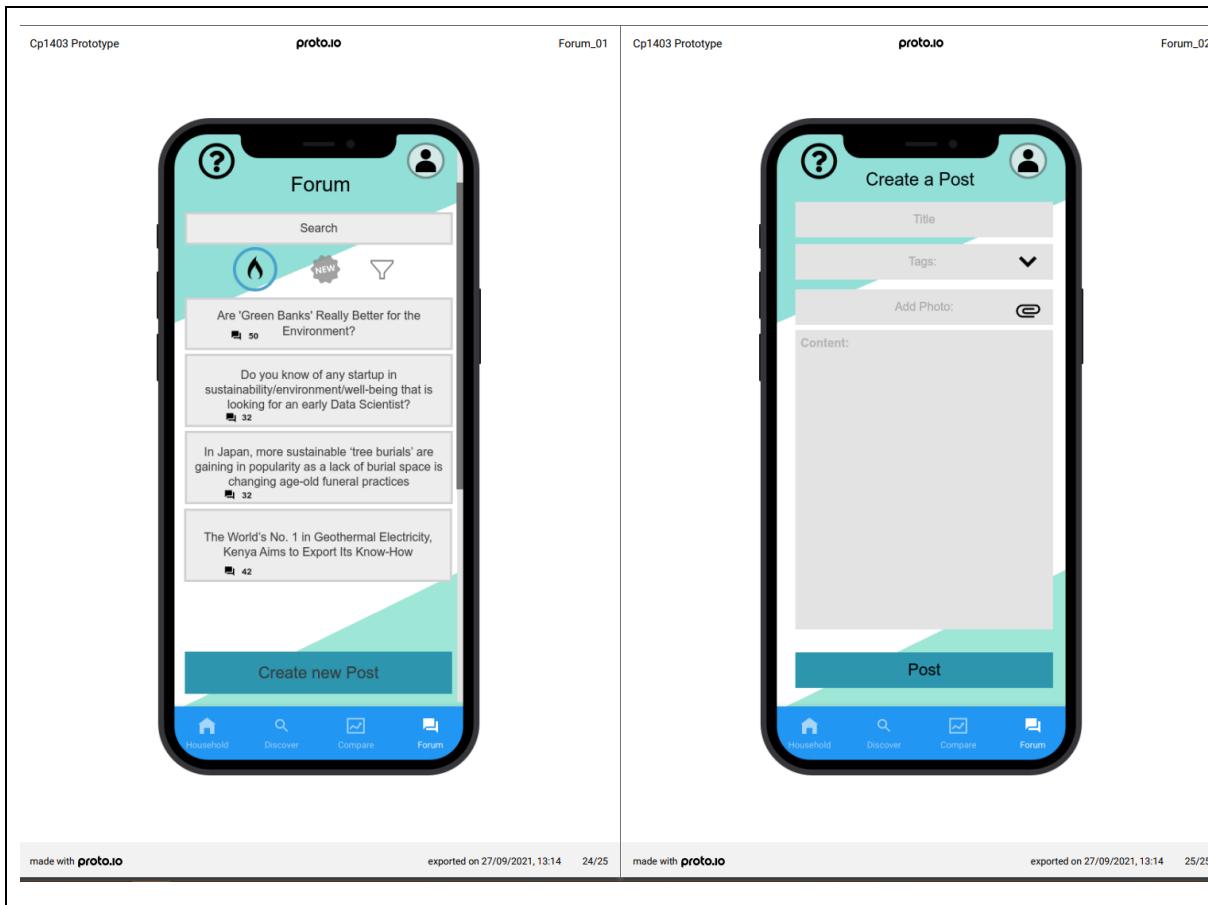
exported on 27/09/2021, 13:14 17/25

made with proto.io

exported on 27/09/2021, 13:14 19/25

Cp1403 Prototype	proto.io	Compare_03	Cp1403 Prototype	proto.io	Compare_04
made with proto.io			made with proto.io		
exported on 27/09/2021, 13:14 20/25			exported on 27/09/2021, 13:14 21/25		

Cp1403 Prototype	proto.io	Discover_03	Cp1403 Prototype	proto.io	Suggestions_01
made with proto.io			made with proto.io		
exported on 27/09/2021, 13:14 22/25			exported on 27/09/2021, 13:14 23/25		



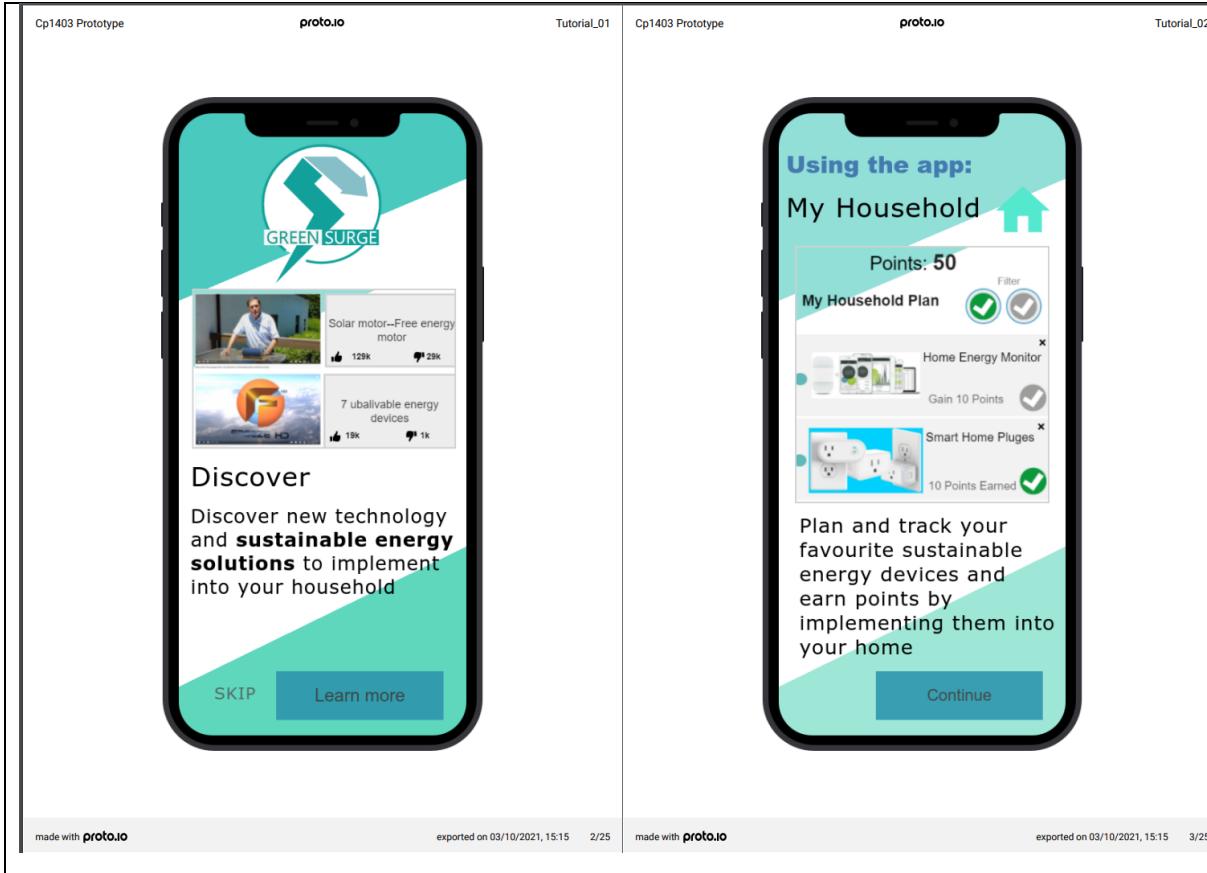
Prototype three presented some quality-of-life improvements, including buttons being made larger and easier to use and cleaner UI with less text and more visual cues. While creating this prototype the viability of the app and the ability to be used for quite a while after download was really thought about and improved. We added a suggestions page to the discovery tap as this will allow the user if they get bored of the original feed to try something new and to continue using the app for longer. The logo was changed as the green recycle logo didn't display exactly what the app was trying to convey. It was changed to a combination of the recycle and a lightning bolt to display that the primary focus is on green energy. This coincidentally made an "S" shape, which works well with the name "Green Surge".

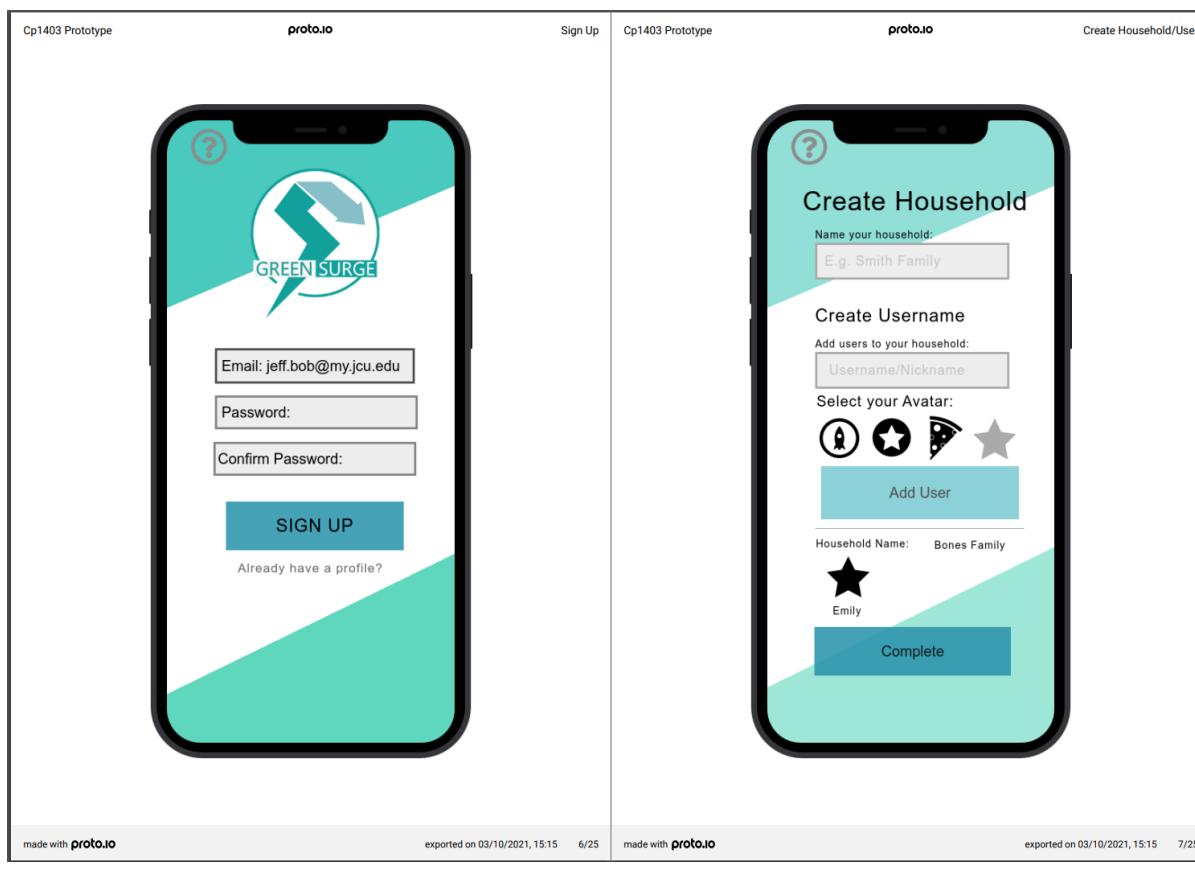
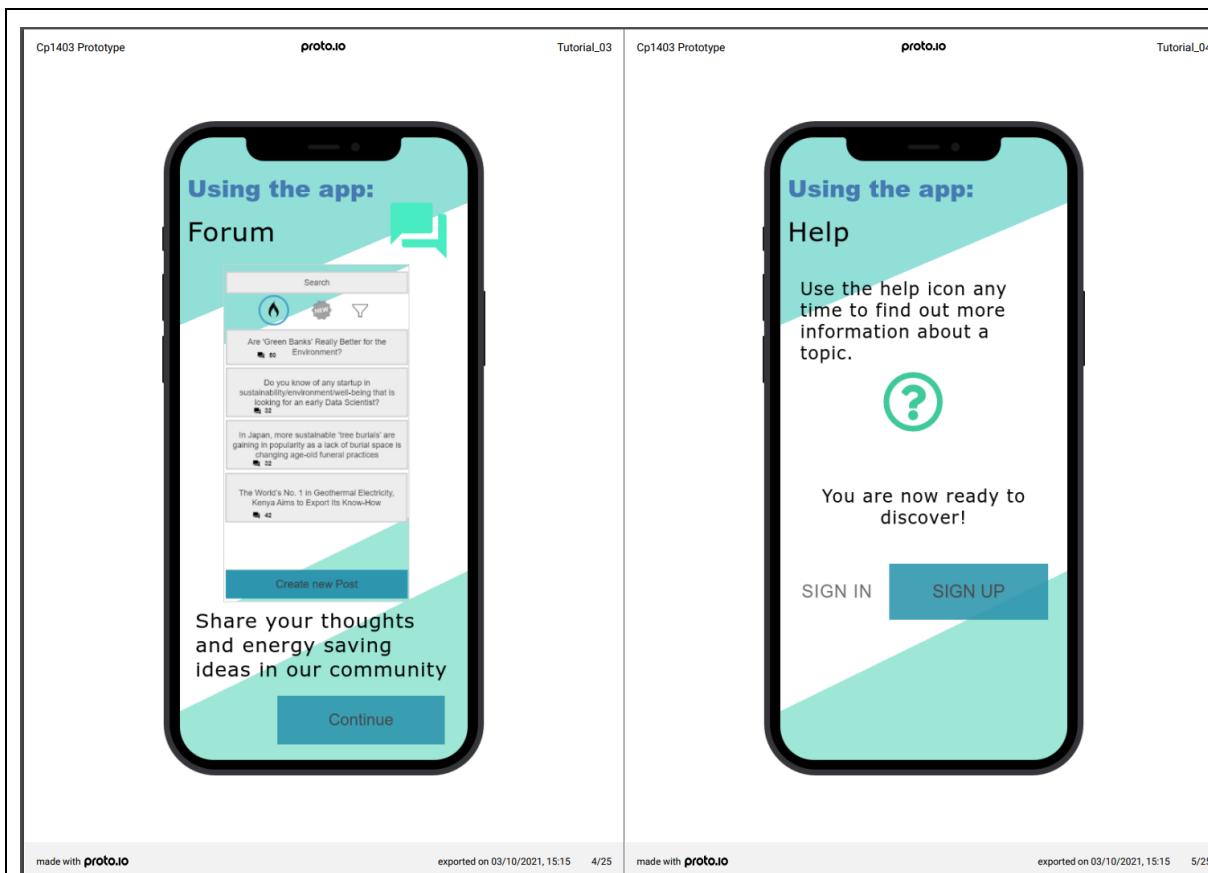
A list of all improvements that need to be fixed for next prototype are below:

- Add section to update power bill section to add latest power bill
- Avatar was changed to meet selected avatar while setting up app
- Moved sign in and up on help screen
- Change placeholder name
- Change page of create username to page 7
- Spelling and Grammar error fixes
- Changed wording of household setup

- Changed graph to be clearer
- In forums moved filter to right with label to stop confusion

Final Prototype





Cp1403 Prototype proto.io Set/Update Household_01

Household Details

Are you the owner or a renter of the property?

Owner: Renter:

What best describes your dwelling?

House

How many people live in the Household?

3

Continue

1 2 3 4

Household Discover Compare Forum

made with proto.io exported on 03/10/2021, 15:15 8/25

Cp1403 Prototype proto.io Set/Update Household_02

Household Details

Appliances in my Household

Dishwasher	<input type="checkbox"/>	Dryer	<input type="checkbox"/>
Computer/ Laptop	<input type="checkbox"/>	Washing Machine	<input type="checkbox"/>
Fridge	<input type="checkbox"/>	Freezer	<input type="checkbox"/>
Pool	<input type="checkbox"/>	Heater	<input type="checkbox"/>
AC Unit	<input type="checkbox"/>	Other	<input type="checkbox"/>

Continue

1 2 3 4

Household Discover Compare Forum

made with proto.io exported on 03/10/2021, 15:15 9/25

Cp1403 Prototype proto.io Set/Update Household_03

Household Details

Green energy solutions in my household... (tick all that apply)

Solar Power System	<input type="checkbox"/>
Standalone Battery	<input type="checkbox"/>
Wind Turbine	<input type="checkbox"/>
Skylight	<input type="checkbox"/>

Continue

1 2 3 4

Household Discover Compare Forum

made with proto.io exported on 03/10/2021, 15:15 10/25

Cp1403 Prototype proto.io Set Household_04

Household Details

Add Your most recent power bill to track progress

Amount \$

Period start date

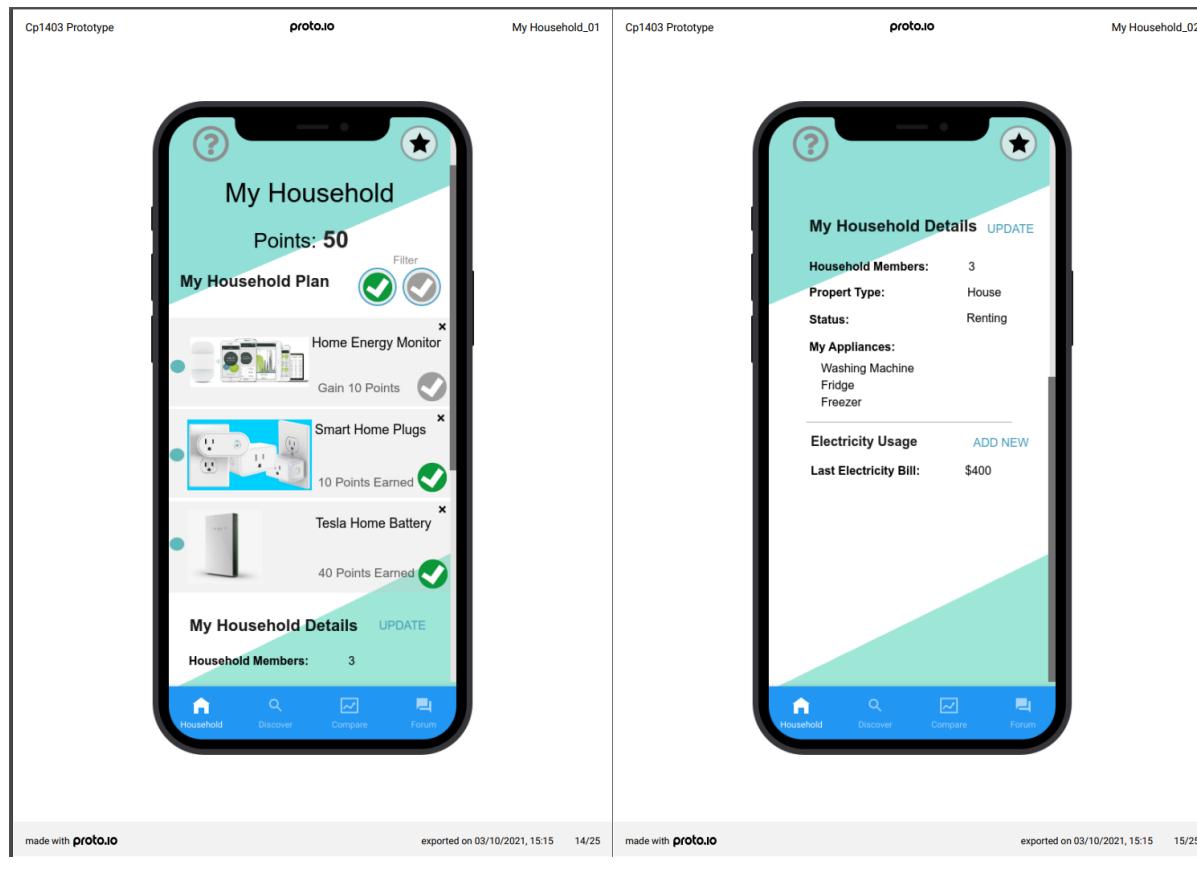
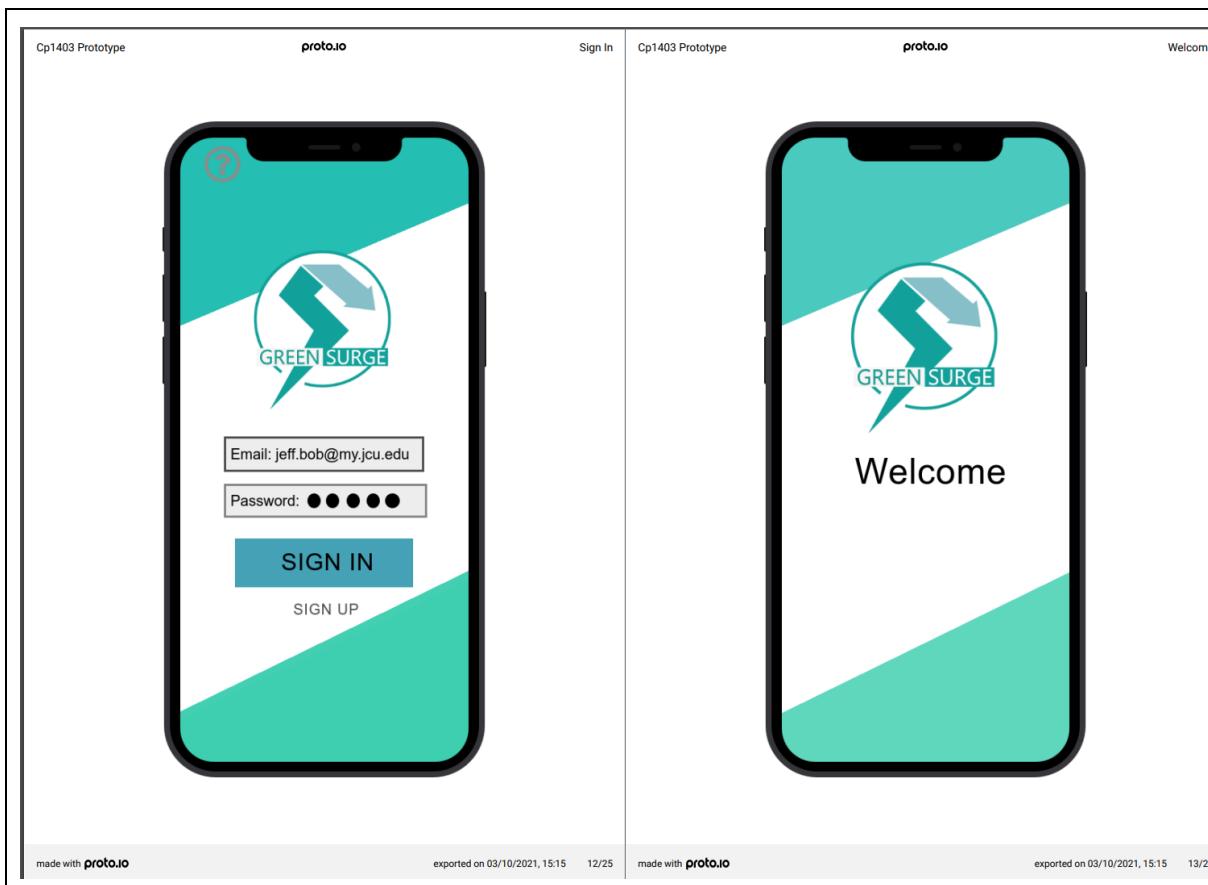
Billing Period

Complete

1 2 3 4

Household Discover Compare Forum

made with proto.io exported on 03/10/2021, 15:15 11/25



Cp1403 Prototype proto.io Compare_04

Add Latest Power Bill
Add your most recent power bill to track progress

Amount \$
\$400

Period start date
13 Feb 2021

Billing Period
Quarterly

Complete

Household Discover Compare Forum

Cp1403 Prototype proto.io Compare_01 - State

Compare My Household

Local Leaderboard

Rank	Household	Points
1	Pumpkin Gang	105
2	Saint Nicolas	95
3	Tickled_pink	82

My Position

Rank	Household	Points
29	Green_Crusaders	50

My Points Average Household Points

70
60
50
40
30
20
10
0

Green Energy Monitoring Devices Appliances

Household Discover Compare Forum

made with proto.io exported on 03/10/2021, 15:15 16/25

made with proto.io exported on 03/10/2021, 15:15 17/25

Cp1403 Prototype proto.io Compare_02

My Position

Rank	Household	Points
29	Green_Crusaders	50

Household Discover Compare Forum

Power Bill

0 10 20 30 40 50 60

Green Energy Monitoring Devices Appliances

Average Household Points My Points

Cp1403 Prototype proto.io Compare_03

Compare My Power Bill

Quarterly

Feb 2021 - May May - Aug Aug - Nov Nov - Feb 2022

\$600
\$500
\$400
\$300
\$200
\$100
\$0

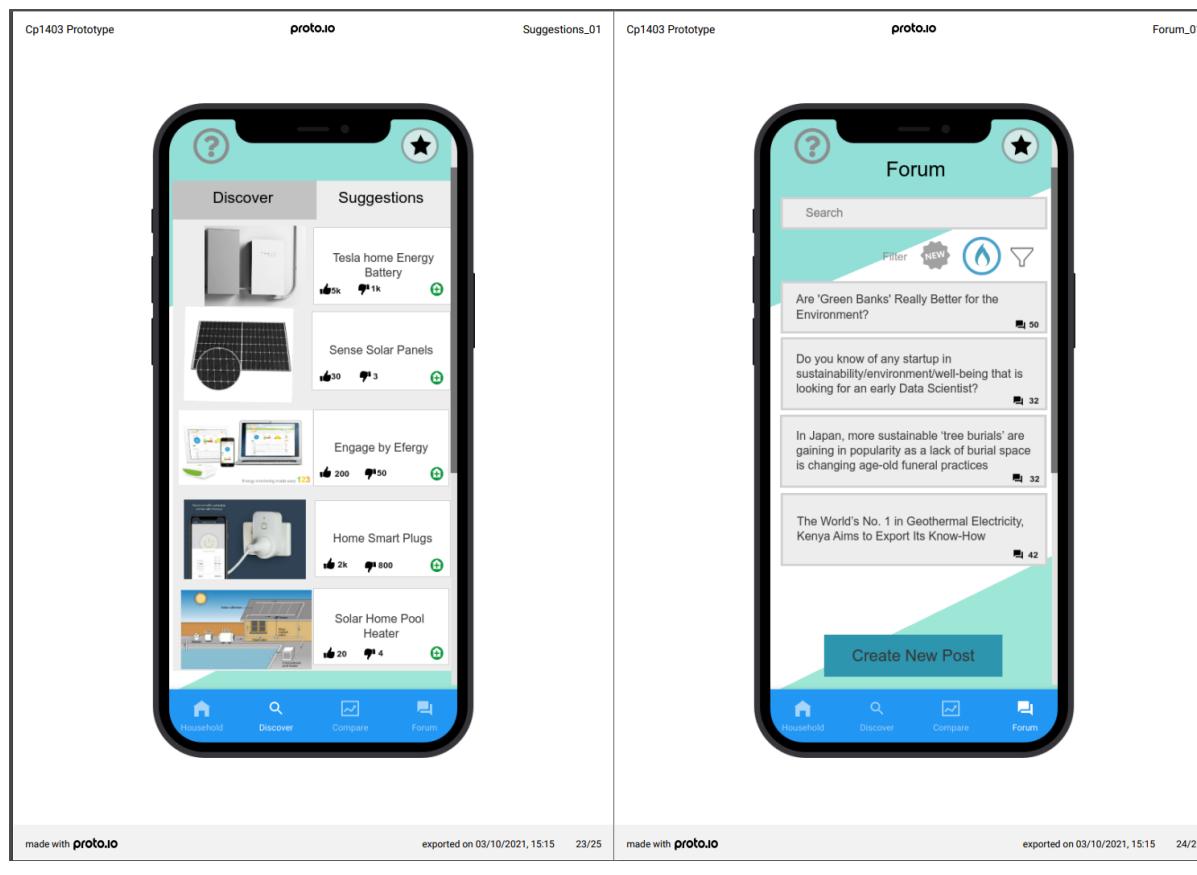
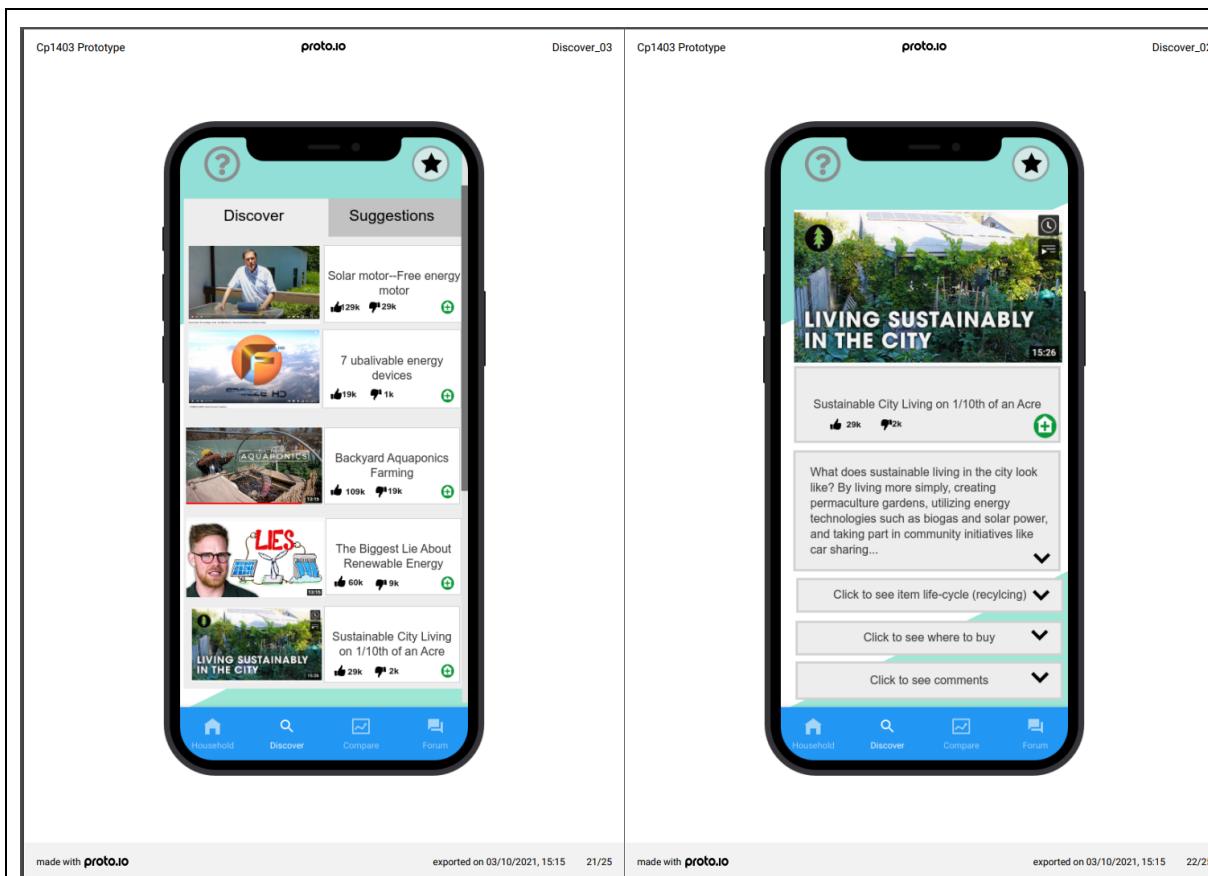
Average My Household

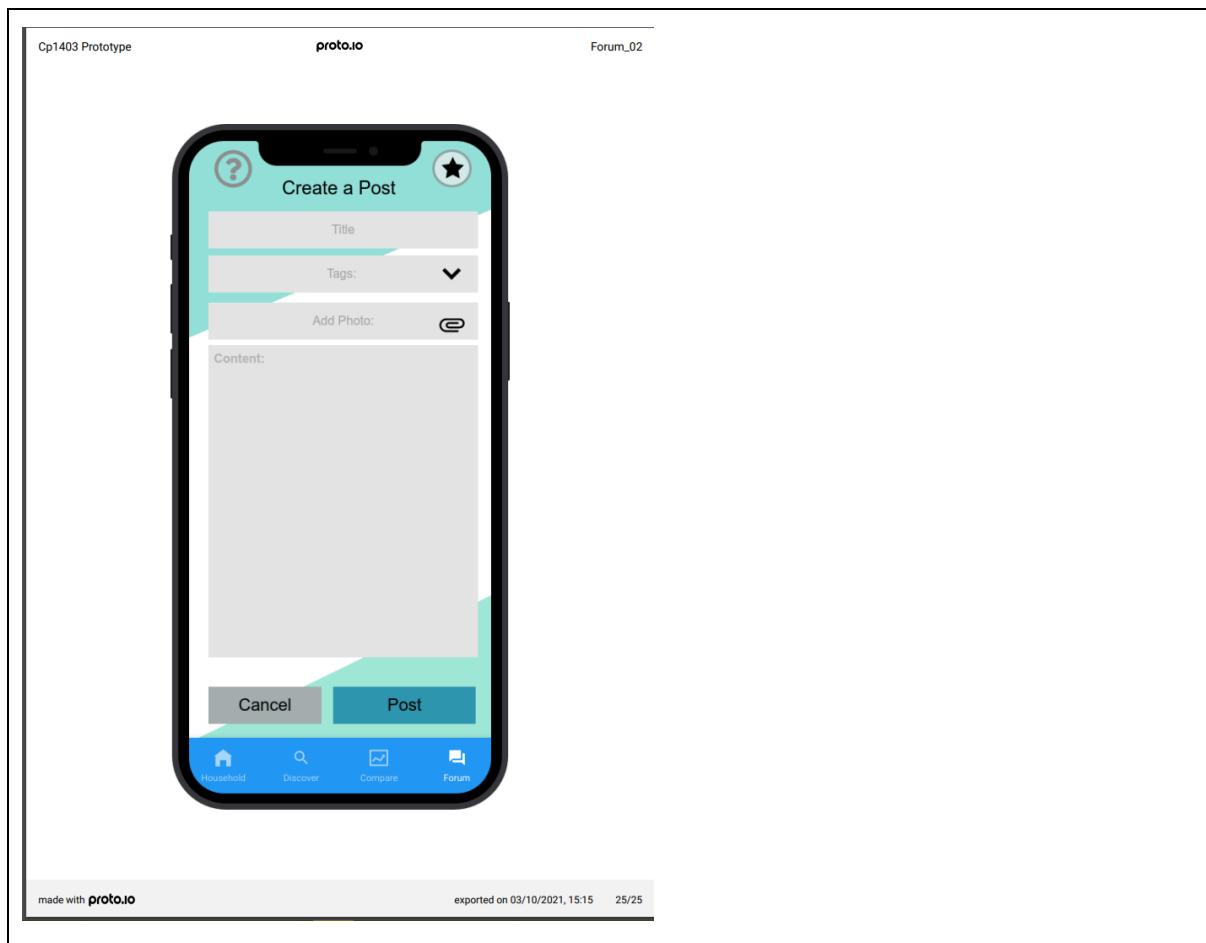
Back

Household Discover Compare Forum

made with proto.io exported on 03/10/2021, 15:15 19/25

made with proto.io exported on 03/10/2021, 15:15 20/25





For the final prototype no testing was completed. All improvements to this prototype are the following:

- Add section to update power bill section to add latest power bill
- Avatar was changed to meet selected avatar while setting up app
- Moved sign in and up on help screen
- Change placeholder name
- Change page of create username to page 7
- Spelling and Grammar error fixes
- Changed wording of household setup
- Changed graph to be clearer
- In forums moved filter to right with label to stop confusion

After this final prototype it would be at the point at which this could be converted to a full working demo on a real computer

Appendix A: Team meeting Minutes

Appendix A

Team Meeting Minutes

(Note: Meeting Minutes were continued on from previous meetings for Assignment 1: Project Plan)

Overview:

- 06 Meeting – Discuss requirements for Design Solution Assignment 2
- 07 Meeting – Design a solution, then Describe and Define solution
- Testing for Prototype 1.0 (In Practical)
- 08 Meeting – Evaluate feedback for Prototype 1.0 and Plan for Prototype 2.0
- Testing for Prototype 2.0 (In Practical)
- 09 Meeting – Evaluate feedback for Prototype 2.0 and Plan for Prototype 3.0
- Testing for Prototype 3.0 – testing completed by individuals as able
- 10 Meeting – Evaluate feedback for Prototype 3.0 and Plan for Final Prototype
- Completed Changes for Final Prototype

Team Meeting 06

Team name: Design Thinkers

Date of Meeting: 02/09/2021

Start Time: 5:00pm

End Time: 6:00pm

Members present:

- Dannielle Jones
- Braydan Newman
- Adam Albert
- Jake Edmunds
- Samuel Barrett

Meeting Chairperson: Dannielle Jones

Minutes taken by: Dannielle Jones

Summary of Meeting:

Finalising assignment 1 and discussing requirements, progress tracking and general structure for meetings for assignment 2.

Prior to meeting:

Team collaborated on project plan draft on word document in OneDrive. As each team member was aware of their assigned role they completed as much as was practical in their section without needing to combine PDF documents.

Agenda

Item 1 – Writing the project plan.

Organiser (Dannielle) for the written plan assessed the current output from all team members and addressed gaps that required attention. Team members then collaborated to fill in the gaps for the written content.

Item 2 – Review Process.

Team members were then tasked to read through the completed written components to look for:

- Spelling and grammatical errors
- Odd or incorrect sentence structure
- Tense confusion
- Alternating between first, second and third person

Then make changes accordingly in order to achieve as coherent and cohesive document as possible.

Item 3 – Sort and Combine

Created sorting and organisation plan. Organiser discussed which pages needed to go where in the document by using a simple 01_ numbering system in the document filename and place these files into a single location (not changing the original documents). Once the order is created the chairperson will use a PDF combine program to join all documents together. Alterations were made as required and the final output is reviewed in-full ready for submission.

Deadline for missing components to be added and secondary/interview sections to be fleshed out: Saturday @ 12pm

Deadline for review and changes to be made and final submission to be combined together: Saturday @ 5pm

Item 5 – Discuss Assignment 2.

Discussed the requirements of assignment 2 and its connection to assignment 1. Looked at assignment description and rubric. Discussed the new team management plan and overall progress tracking in the OneNote notebook.

Next Meeting

Next meeting will address the following on our progress plan:

- Design solution

The new chairperson will be Samuel Barrett.

Action items: (who is doing what before next meeting?)

Actions for Team members:

Job to do	Who will do this work?	By When?
Go to the 07_ meeting folder and open the six thinking hats powerpoint. Using a text box add one thing to each hat.	All team members individually	Next meeting

Next Meeting Date: 08/09/2021, Wednesday

Next Meeting Time: 2:30pm

I acknowledge and have read the team meeting minutes; I understand and will prepare for the activities required prior to next team meeting as outlined in this document:

Name and Date

Dannielle Jones – 02/09/2021

Ideation Methods

Six Thinking Hats

Reference:

<http://www.debonothinkingsystems.com/tools/6hats.htm>



Blue Hat Thinking- Process

- Thinking about thinking
- What thinking is needed?
- Organizing the thinking
- Planning for action



White Hat Thinking- Facts

- Information and data
- Neutral and objective
- What do I know?
- What do I need to find out?
- How will I get the information I need?



Green Hat Thinking - Creativity

- Ideas, alternative, possibilities
- Provocation - "PO"
- Solutions to black hat problems



Yellow Hat Thinking- Benefits

- Positives, plus points
- Logical reasons are given.
- Why an idea is useful



Black Hat Thinking - Cautions

- Difficulties, weaknesses, dangers
- Logical reasons are given.
- Spotting the risks



Red Hat Thinking - Feelings

- Intuition, hunches, gut instinct
- My feelings right now.
- Feelings can change.
- No reasons are given.

<p>Adam A roadmap or something that will convey the idea beyond the prototype</p>	<p>Dannielle Pen and paper, stickys, online applications for building prototypes.</p>	<p>Jake 3D printer, light metal and timber fabrication.</p>	 Process	<p>Adam A more sustainable thinking that will impact decisions made</p>	<p>Braydan</p>	<p>Dannielle The importance of the government acknowledgement.</p>
<p>Samuel From our interviews we can gather that people want to do something about it</p> <p>Consider the level or intensity of the information that we acquire.</p>	<p>Braydan</p>	<p>Dannielle There are many different types of green energy. Test on potential users.</p>	 Facts	<p>Samuel Solution not going to become obsolete and add to the waste pile (recycle)</p>	<p>Jake Low-maintenance solution (set and forget) to fit a busy life.</p>	<p>Adam If our solution will have Impact and if it will be something that could be something that will have continued to use</p>
<p>Jake Informing about government incentives. How to make this less about finance?</p> <p>What areas of the household have the potential to generate green energy.</p>	<p>Adam Is there a way to gamify or make sustainable solutions and information regarding it more enjoyable</p> <p>Dannielle Drainpipes use gravity to deliver waste water, hydropower runs on gravity water in motor.</p>	<p>Braydan</p> <p>Samuel Categorised points system relating to Adam's idea</p>	 Creativity Pool filters that use gravity, hydropower systems.	<p>Braydan</p> <p>Dannielle Stress for the iterative development timeline.</p>	<p>Jake Unsure of the quality of our final prototype (I.e does it match what we envisioned)</p> <p>Adam Excited to see what the group can come up with and how my POV will have an impact</p>	<p>Samuel Losing control of power – control of their own power sources and efforts</p>

Team Meeting 07

Name of Team: Design Thinkers

Date of Meeting: 11/09/21

Start Time: 6:00pm

End Time: 8:30pm

Members present:

- Dannielle Jones
- Adam Albert
- Jake Edmunds
- Samuel Barrett

Members absent:

- Braydan Newman

Meeting Chairperson: Samuel Barrett

Minutes taken by: Samuel Barrett

Summary of Meeting:

This meeting was focused on the Phase 1 of the sprint model, the ‘Understand and Define’ stage. We chose to follow the ‘How might we’ method, with a Google Drive Jam Board brainswarming, six thinking hats and Affinity map technique for targeting and defining our ideas into a prototype. This was followed by the ‘Crazy8’ method over 8minutes for sketching our own versions of the prototype anonymously, then these were discussed.

Actions for Team members:

Actions to do	Who will do this work?	By When?
Prototype section 1	Adam	Weds
Prototype section 2	Sam	Weds
Prototype section 3	Jake	Weds
Prototype section 4	Danielle	Weds
Prototype section 5	Brayden	Weds

Prior to the meeting:

Pre-reading was uploaded to our group Discord channel for all of us to read in preparation. Information on the ‘How might we’ style of organising the phase 1 of the Design sprints was provided(1). An article on ‘Affinity mapping’(2) was also posted to inspire our group Jam board further.

References:

- 1) <https://designsprintkit.withgoogle.com/methodology/phase1-understand/hmw-sharing-and-affinity-mapping>
- 2) <https://designsprintkit.withgoogle.com/methodology/phase2-define/assumptions-mapping>

Agenda:

'How might we', 'Affinity mapping', 'Crazy8 - Sketching'

- We started with the 6 thinking hats technique to further refine and focus our project plan idea's needs and use cases. This was discussed as a group.
- We then placed our ideas on a Jam board using Brainswarming based on the goal question of: 'How might we better inform the user of sustainable energy opportunities that they could be taking advantage of'. This was done in silence.
- We then discussed these sticky note answers together and this enabled us to pick up on themes and drop aspects that were not relevant. As a result, we narrowed down an idea for a prototype that we were all starting to agree on as a team. This included deciding to go for an app instead of another type of technology.
- After this we commenced the 40 second per drawing 'Crazy-8 sketching' method anonymously (which we ran twice on the same sketch board as it was difficult to sketch on a computer) and then discussed these sketches before we were made aware of who's sketch's they were to eliminate any subconscious bias.
- We took all the ideas from the sketches and then defined and described our project with a layout of the different sections. This final stage enabled us to set the tasks for next week's prototype building and testing and plan for the next meeting.

Next Meeting Date: 15/09/21

Next Meeting Time: 1800 (subject to group change)

Meeting chairperson sign to approve of this meeting minute:

Name: Samuel Barrett
Date: 11/09/21

Signature: SB

Dannielle Jones – 14/09/2021

Meeting Overview

“How might we better inform the user of sustainable energy opportunities that they could be taking advantage of?”

Design solution: use and answer "How Might We" question; methods:

- ◊ Item 1. Six Thinking Hats – select a hat, members moves to different hat through meeting
- ◊ Item 2. Brainswarming – Goal/Objective at top, resources at bottom, make connections
- ◊ Item 3. Crazy Eights: divide paper into 8, 40 seconds per sketch; run at least 2 times
Anonymously sketch your best idea from crazy eights, present all sketches to group and discuss
At the end reveal whose sketch and what might have been missed
- ◊ Item 4. Evaluate ideas and Select project idea, then describe the project idea

Six Thinking Hats

From powerpoint/pdf

Designs of potential devices

Environmental impact studies showing comparisons of impacts

chart of power savings

List of technologies they could take advantage of

small video clips that highlight new technology for energy saving, monitoring, green energy generating, appliances

share ideas area for new upcoming ideas

links to find out further information but easy to read and understand information on ours

random suggestion for a new device or change to make

questions that find out what kind of household they are in to give better suggestions of advantages

not monitoring current energy but focus on how they can change using devices, new technology or informing what is on the market in a fun new way. Ranging from small tips to big items

sticky notes over top of each step to hide the next step (like with Adam's alarm clock)

points system for households

community boards
crypto currency
points

Household - individual members with a token for access

Kids restricted access

a section to talk about ideas or events in the community

active or future government incentives and the "GENERAL" information with access to get more

Interactive mini-games on various solutions

Information on systems that are in place around their area

cardboard or craft options

html prototype on a computer

Kids likes show on household account

Branswarming

"How might we better inform the user of sustainable energy opportunities that they could be taking advantage of?"

Paper and Pen 3D Printer builder

App prototype

Crazy Eights

Crazy Eights: divide paper into 8, 40 seconds per sketch; run at least 2 times

Anonymously sketch your best idea from crazy eights, present all sketches to group and discuss

At the end reveal whose sketch and what might have been missed

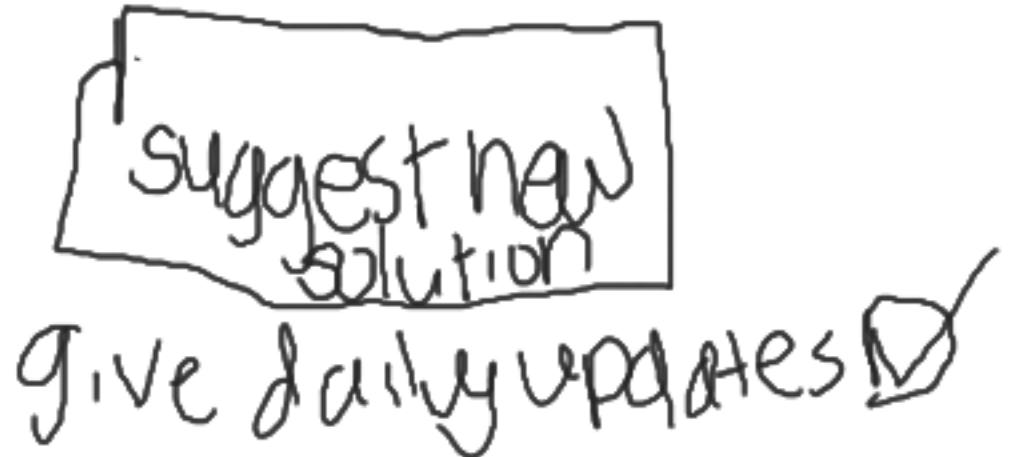
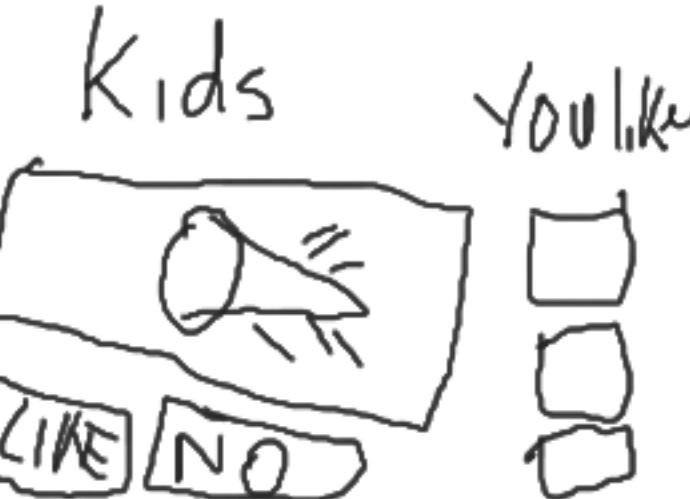
See slides that follow

Sam

Graphs - visual representation
Computer and app interchangeable
Multiple people, interaction when testing



Explore

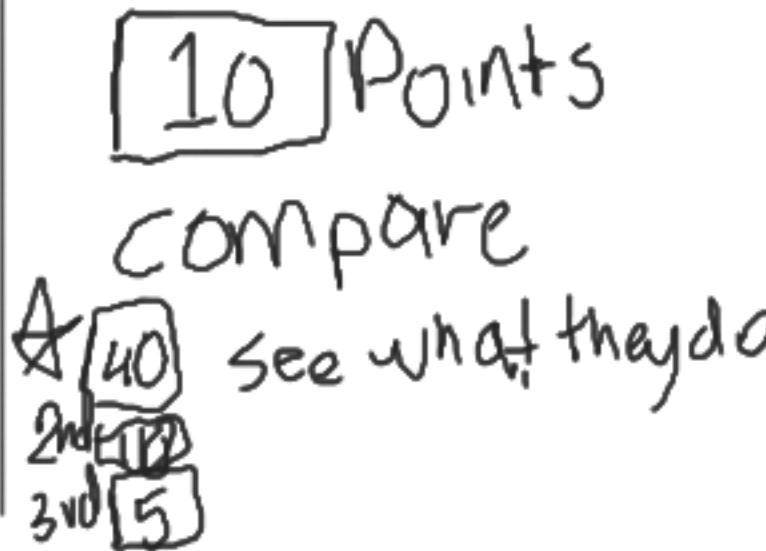


More details



Device name

where + 0
Buy
Ratings



Showing products

Members of the household with avatars and their points

Kids like/dislike and goes to sidebar tally of likes

Daily mission that could get more points

Automated app suggestion based on profile

A more detailed page about the device and where you can buy them

A leaderboard/ladder with comparison to other households

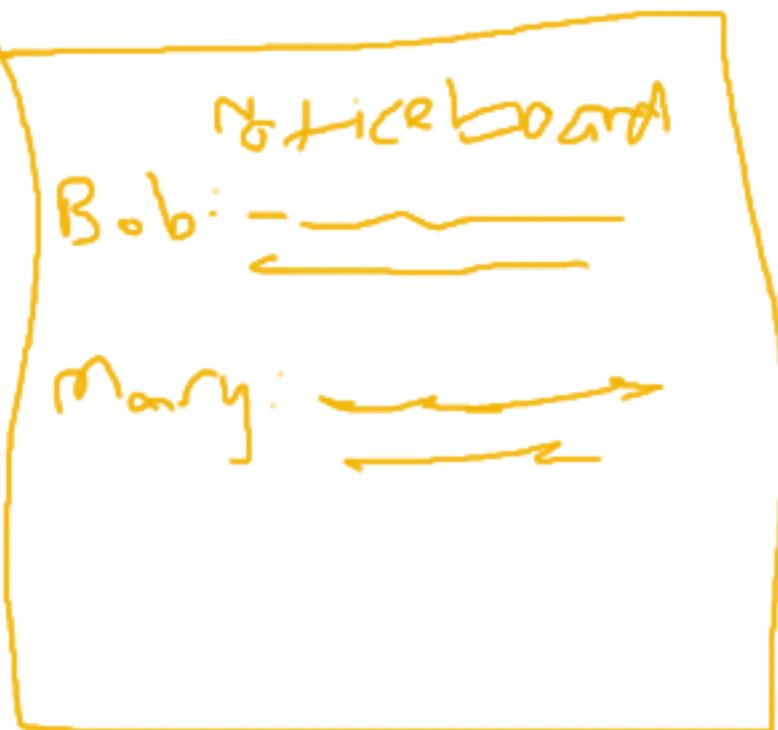
A limit on the amount kids like or what stays on their list (timeframe)

Danielle

Welcome



Usage



A welcome message at the beginning
Profiles in the household and able to login
screen to the user
Usage - using their existing electricity bill
Noticeboard - general chitchat and sharing
ideas

Jake



Gets a notification
Recognising what to turn off and talk to the family
about it and continue the cycle

Adam

A
First prototype - first test user sign up then explore or opposite???

1. Welcome screen

Household user input screen - pool, house type, how many people (generic)

S
J
2. User selection from household

D
3. Adding in current electricity bill information, what other household appliances (specifics)

B
4. Tutorial explanation on points, comparison

B
5. Explore area - videos and devices
---- more details: where to buy, ratings

Second Prototype

Notification board/Forum area - chating

Notifications? What are we notifying about? (Top button design)

Comparison - leaderboard

My history - my profile - my household

Random/new device suggestion

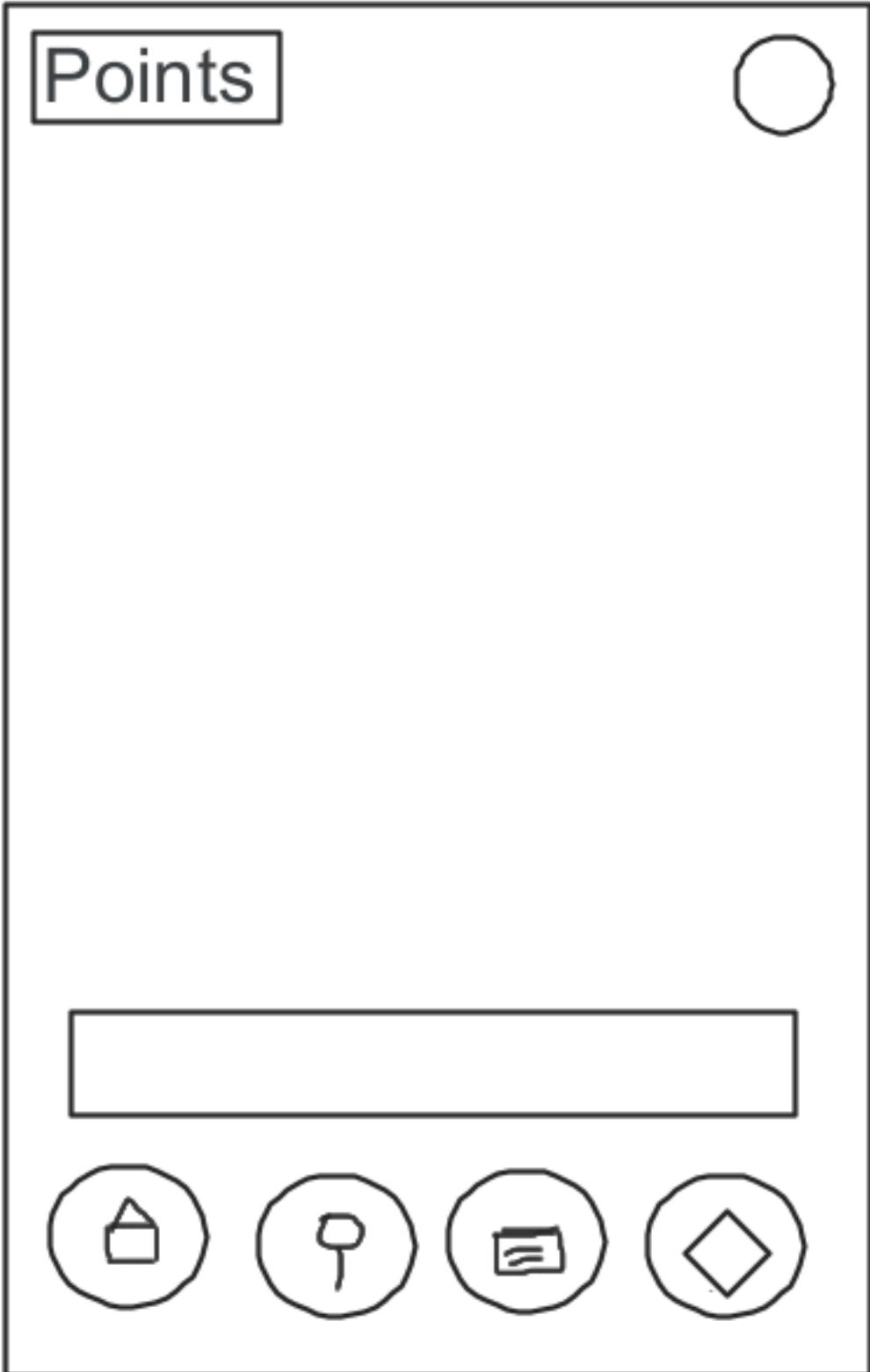
Overall graph/projections

Later considerations

Particular Kids:

Kids user - restricted to likes and list of favourites

Crypto currency



Select and Describe Solution

Prototype Testing Script

Welcome

Hello, thank you for volunteering to test our prototype. We would just like to point out that we are looking for your open and honest feedback, any comments you have are valuable to our development and we do not expect you to know everything about how to do something so please do not feel silly if you do not know what to do at any point.

We would like to record this session for review later, do we have your permission to record this testing session?

Context Questions

So that we understand a little bit more about you, do you often use phone applications in your daily life? As this application is focused around energy sustainability and green energy, are you invested in anything involving energy conservation or green energy?

Introduce the prototype

Before we begin, are you willing to participate in our prototype testing?

Please know that our prototype is not complete and at this stage we are not focused on aesthetics, but we are concerned with interaction, flow and layout. This is a paper prototype, but we ask that you simulate the actions you would make on the screen as if it was on a real mobile device.

As you are completing tasks, we encourage you to talk out loud and explain what you are doing and why you are doing it.

Tasks to do:

1. Login using an existing account / Login with a new account
2. (When completing household details) Go back and change the number people in your house
3. Update your household to living in an apartment (Existing account)
4. You have implemented a home energy monitor in your home, add the points to your account
5. How many points do you have now?
6. Can you view what systems are not implemented on your plan yet
7. Can you remove a system from your household plan?
8. Go find information on sustainable city living
9. Find where to find information on where to buy
10. Compare your household with another
11. Are you doing better than other households?
12. Are you doing better than the average household on your power bill for the last quarter?

13. Add your recent power bill
14. Look for new posts on the forum

Debrief

What did you think of the sign-up process?

Was the navigation straight-forward?

What aspects would you change?

How comfortable do you feel answering the questions about your household?

How did you find the experience in finding a sustainable energy solution?

Team Meeting 08

Team name: Design Thinkers

Date of Meeting: 15/09/2021

Start Time: 4:30pm End Time: 6:30pm

Members present:

- Adam Albert
- Braydan Newman
- Dannielle Jones
- Jake Edmunds
- Samuel Barrett

Meeting Chairperson: Adam Albert

Minutes taken by: Adam Albert

Summary of Meeting:

Prior to meeting:

The prototype was tested by a user and the group captured feedback as well as a voice recording of the user to evaluate in this meeting.

Refer to appendix A

Agenda

In this meeting the group discussed our testing with a user and evaluated their feedback towards our prototype as well as tested ourselves to make up five people in total. This feedback was then brain swarmed and compared to look for patterns and similarities.

Once the patterns had become clear the group proposed improvements to the prototype and talked about how they could be implemented as well as what the next step in testing was then concluded the meeting

Next Meeting

Next meeting will address the feedback of 5 people for prototype version 2.

The new chairperson will be Jake Edmunds.

Action items: (who is doing what before next meeting?)

Actions for Team members:

Job to do	Who will do this work?	By When?
1. Improve tutorial cohesion, household improvements, section	1. Dannielle 2. Adam 3. Jake 4. Braydon 5. Sam	Sunday 19/09/21
2. Sign in sign up, cohesion of flow		

- | | | |
|-----------------------------------------------------------------------------------------------------------------|--|--|
| <p>3. Household creation</p> <p>4. Forum section and discover improvements</p> <p>5. Comparison and Results</p> | | |
|-----------------------------------------------------------------------------------------------------------------|--|--|

Next Meeting Date: 22/09/2021, Wednesday

Next Meeting Time: 4:30pm

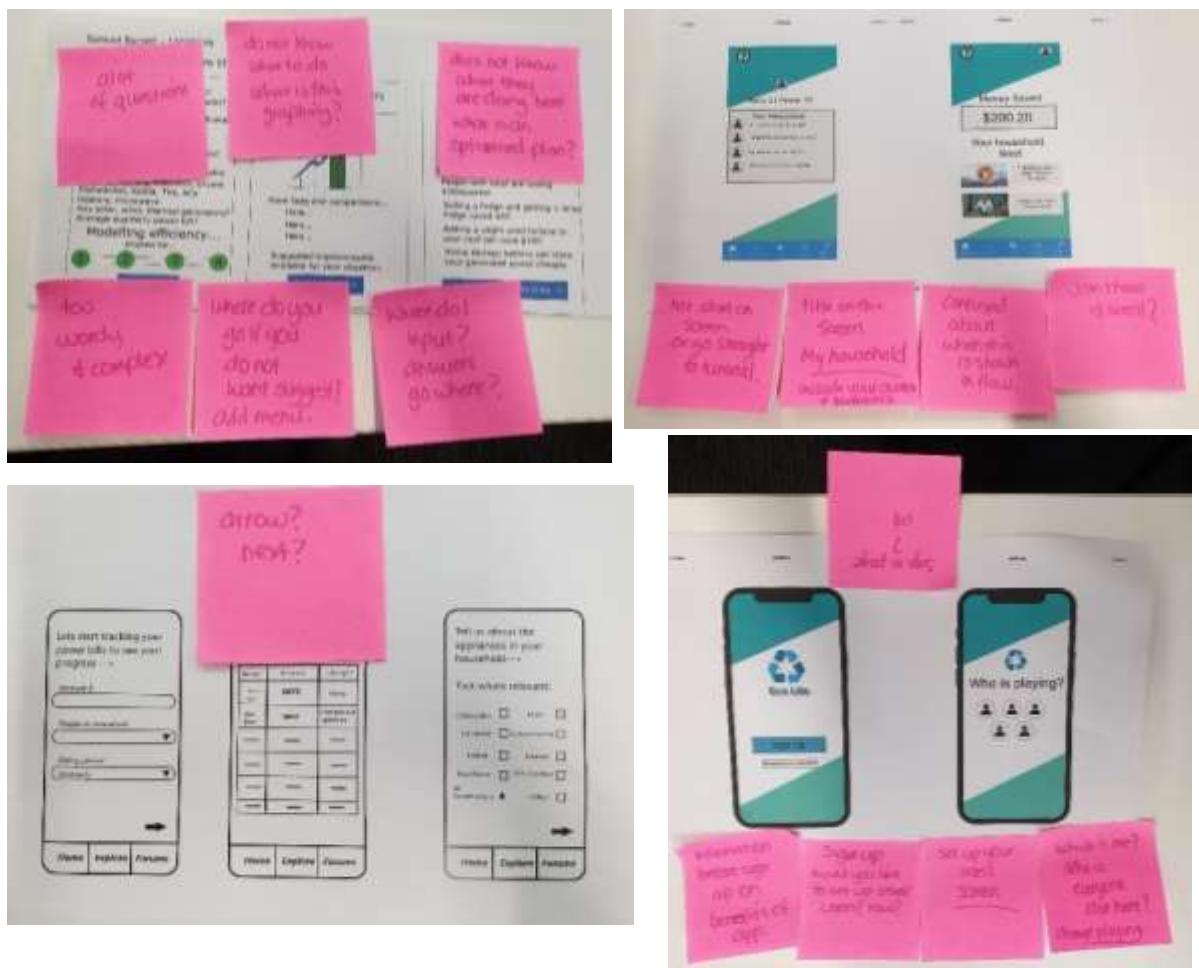
I acknowledge and have read the team meeting minutes; I understand and will prepare for the activities required prior to next team meeting as outlined in this document:

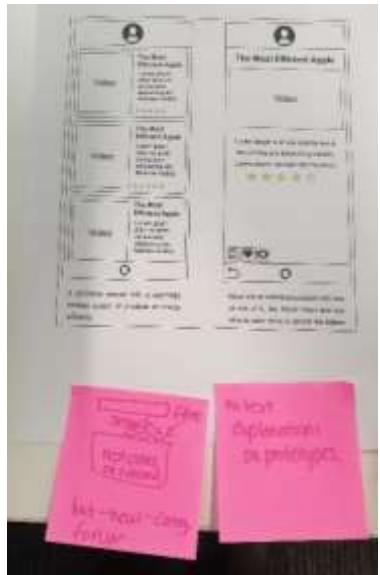
Name and Date

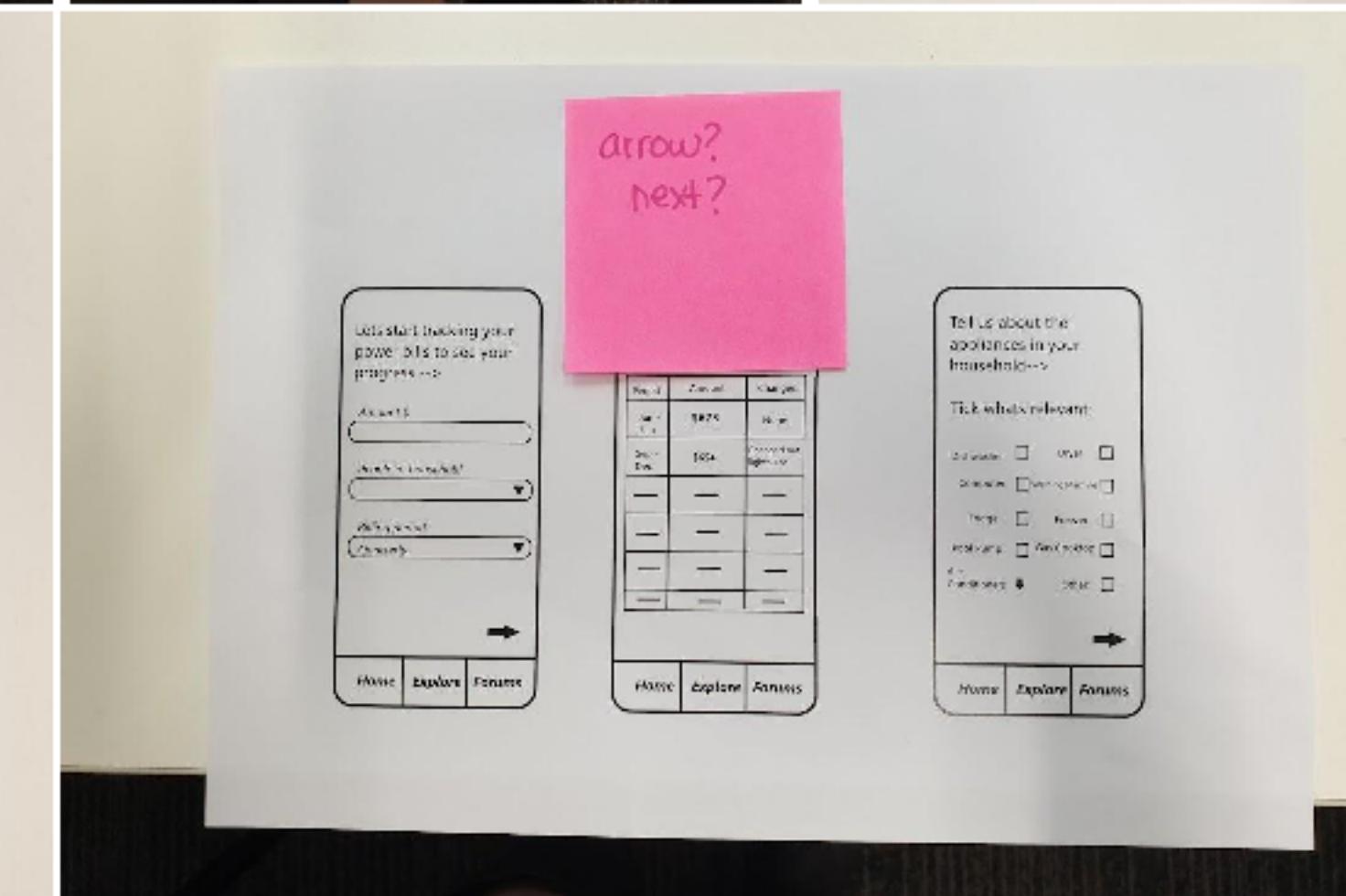
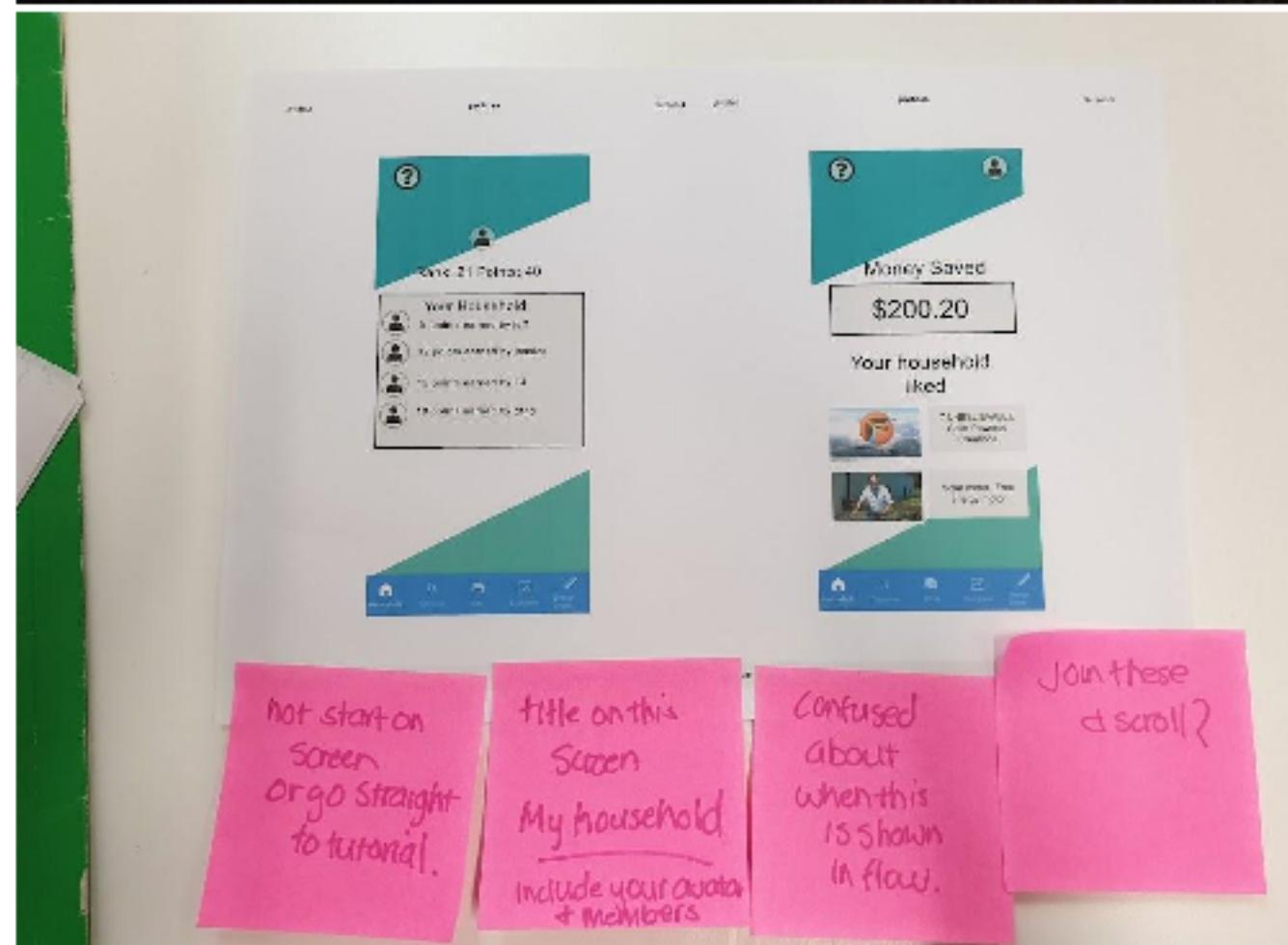
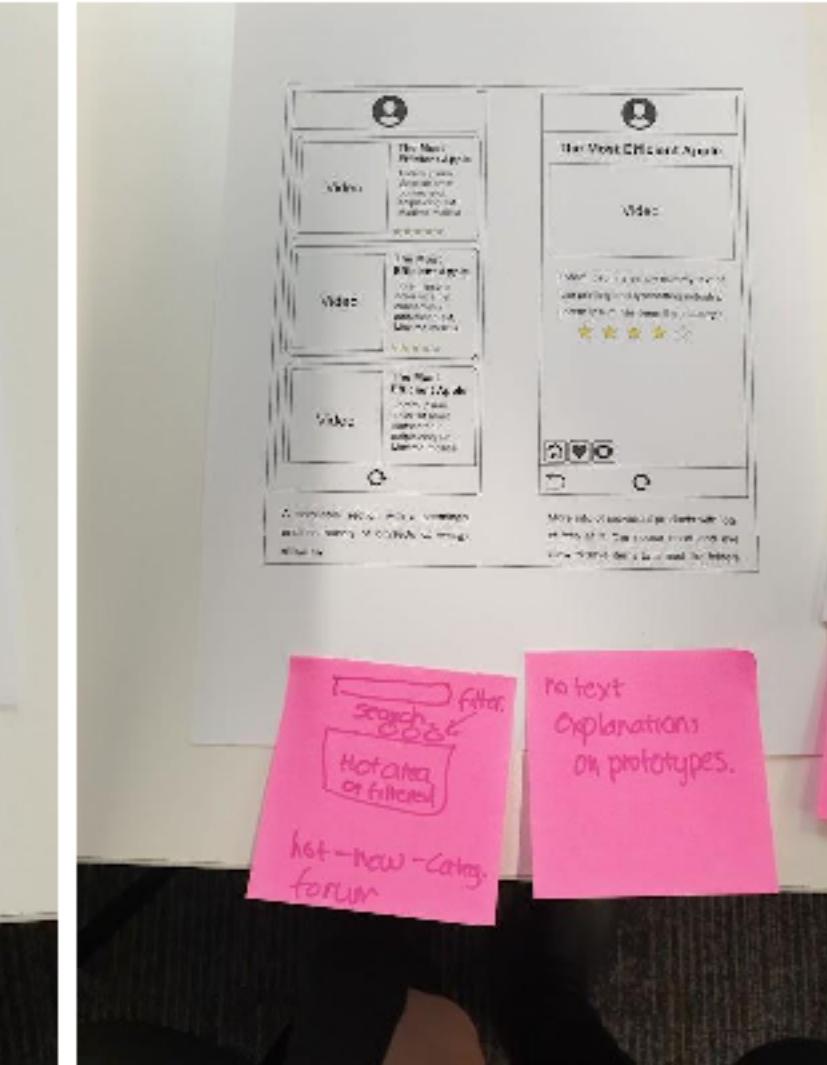
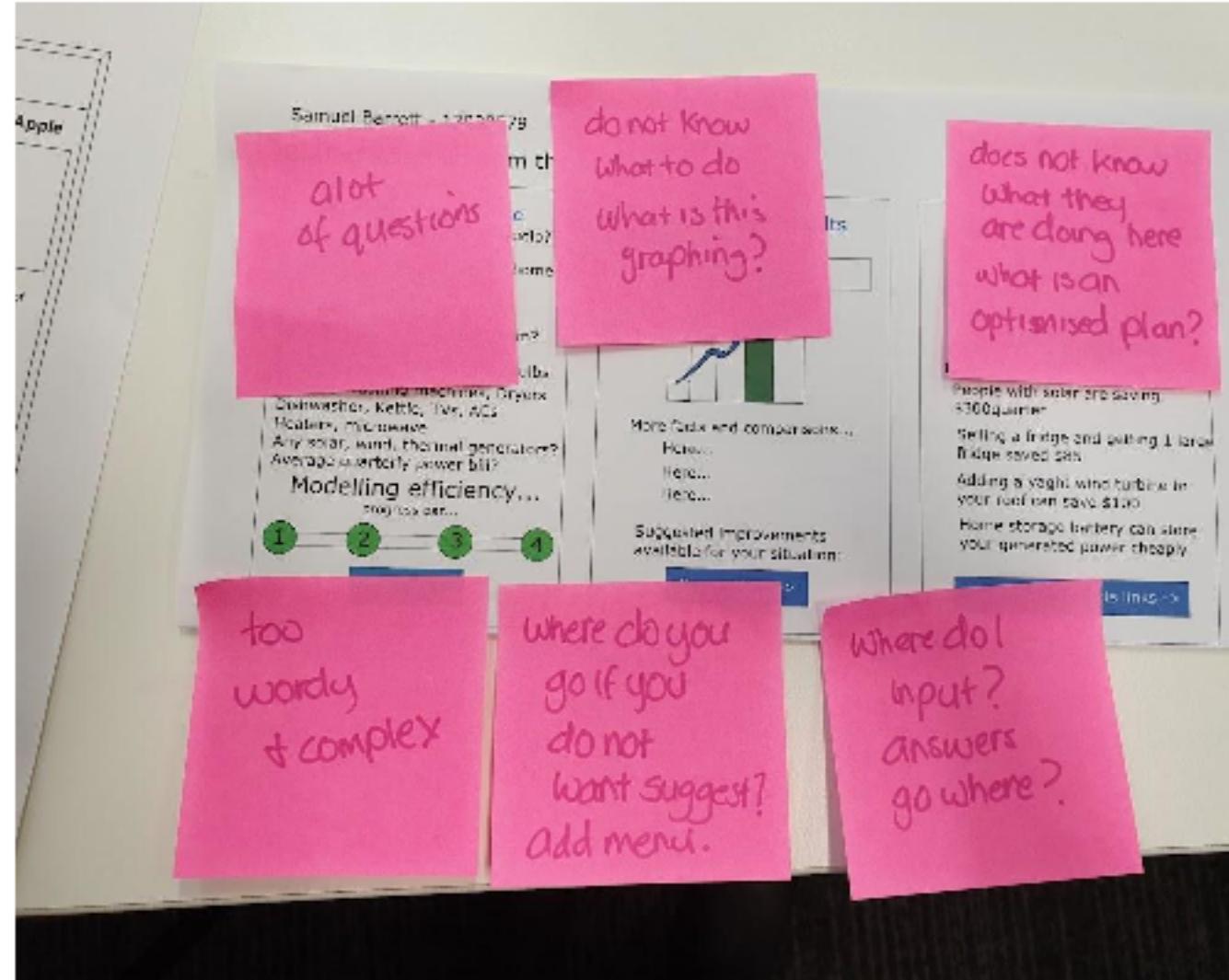
Adam Albert– 18/08/2021

Dannielle Jones – 02/10/2021

Appendix A







Tutorial before signup??

Sticky notes for each interview tester
Group together similar

Prototype 1 - Feedback and Evaluation

Key > Tester: Grace from Practical Yellow

Positives

discover tab was a good layout

understood where to sign up

jakes, first and last layout

jakes middle layout consistency and simplification, in profile instead of setup of electricity bill?

a lot of places to wordy and confusing

no set up pages or initial account adding

Changes

useless pages could be combined

simplify questions!!

Reduce questions

what am i playing

what page is she on for the household tab

where do i put the input?

what does optimised plan do what is it?

information before signup

navigation menu cohesion

condense information

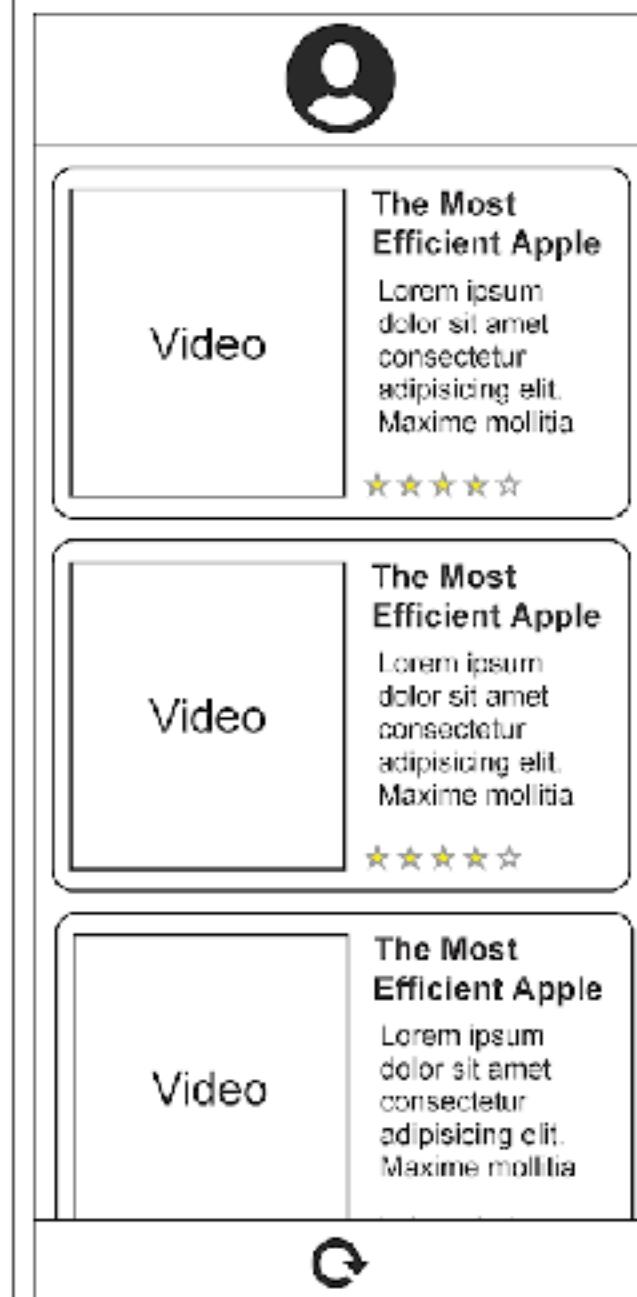
text beneath videos?

Questions

video size?

Ideas/Insights

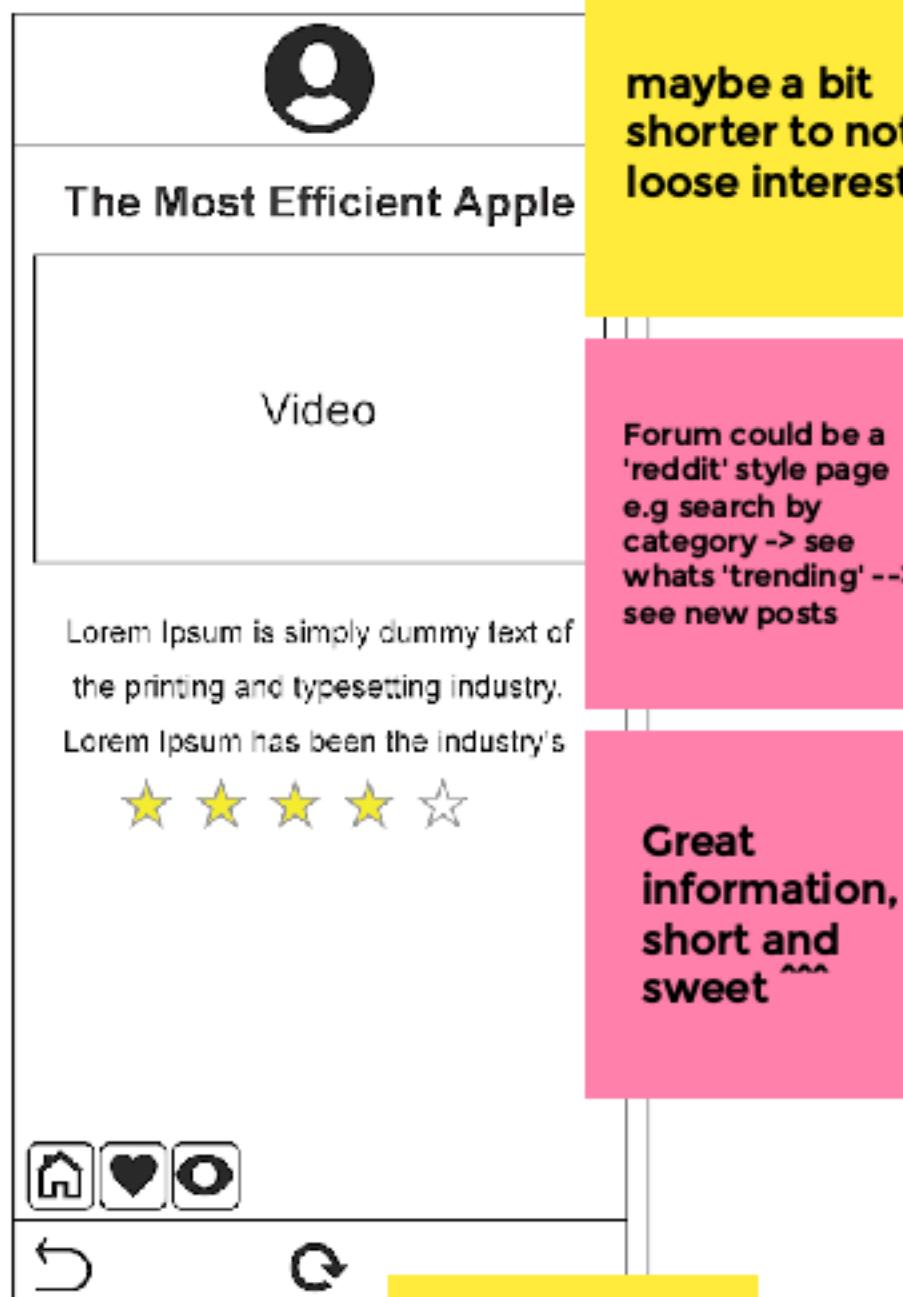
Nice progressive info



Like the layout, maybe see what a full width video would like?

full screen the video thumbnails when clicked

More Info on each product



Clear separated look for each individual device.

Add main menu navigation and where to buy in more details section. Add a Explore/Discover header at the top of page?

different layout, smaller videos more room for comments?



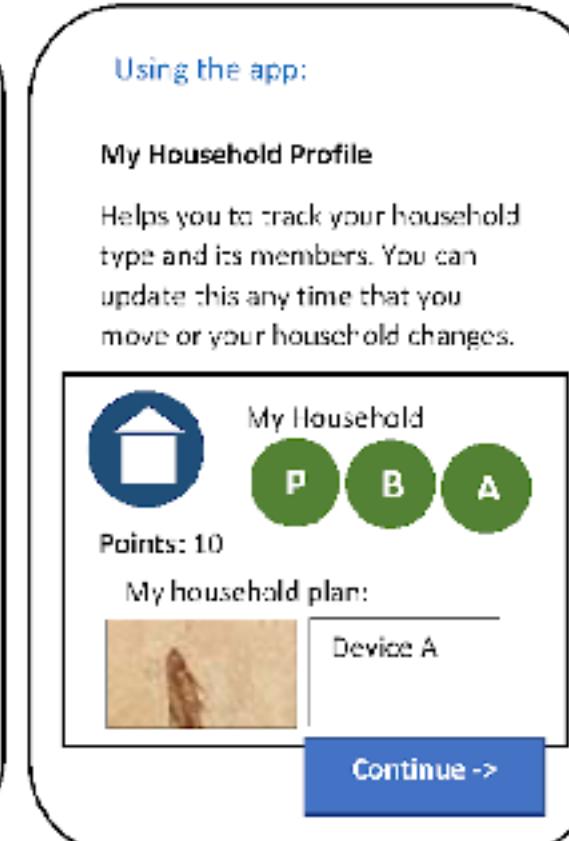
Energy Household App Tutorial

We are about:

- helping your household to implement more sustainable energy solutions
- We want to inform you:
- on the life-cycle of your sustainable solutions
- how or what you can do to take action in your home
- where you can save or buy sustainable energy solutions
- help you to discover new and wonderful technology!

SKIP

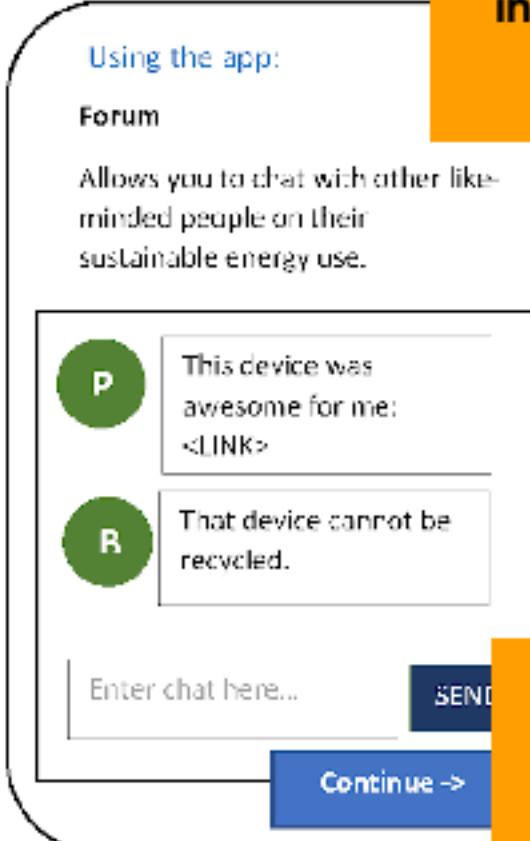
Continue ->



Using the app:

My Household Profile

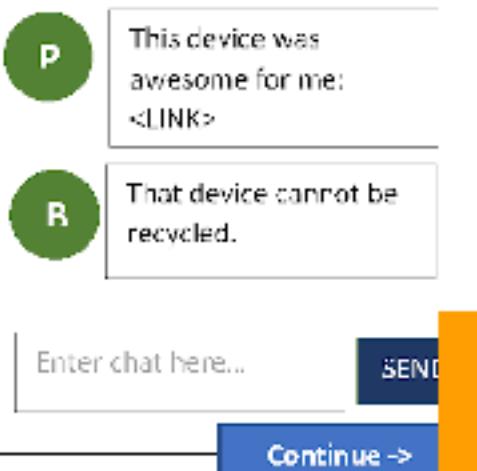
Allows you to track your household type and its members. You can update this any time that you move or your household changes.



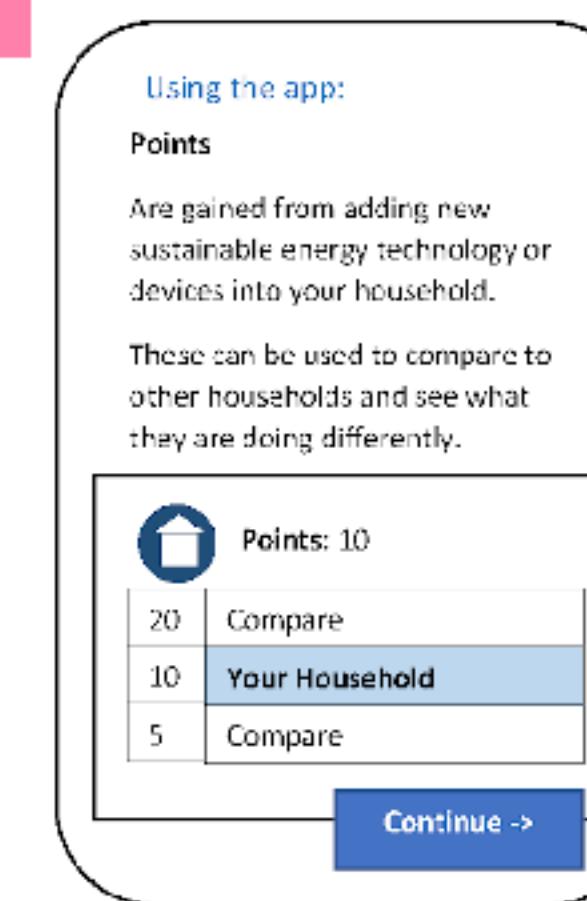
Using the app:

Forum

Allows you to chat with other like-minded people on their sustainable energy use.



Bring score in after the user profile created



Points: 10

20

Compare

10

Your Household

5

Compare

Continue ->

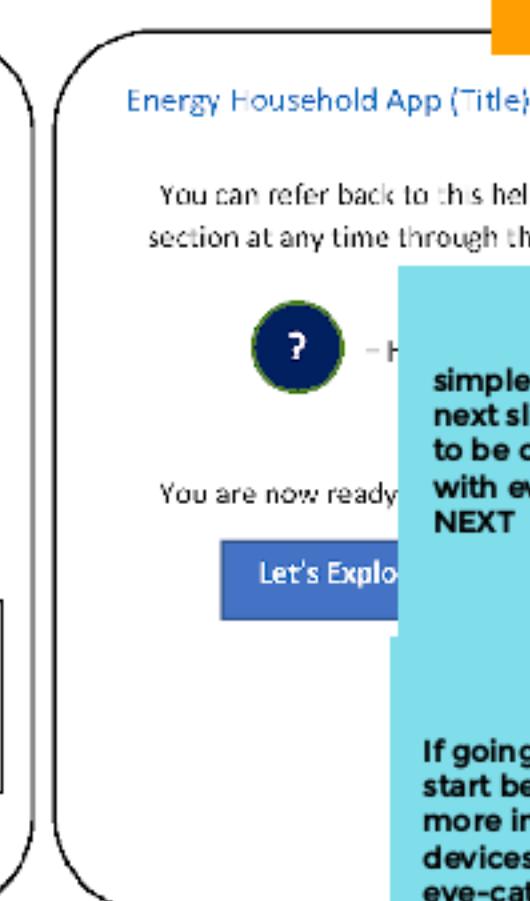


Using the app:

Explore

Allows you to find new technology and green energy solutions that interest and suit your household.

These can be used to compare to other households and see what they are doing differently.



Energy Household App (Title)

You can refer back to this help section at any time through the:



You are now ready

Let's Explore

simple navigation to next slide but needs to be consistent with everyone else NEXT

If going to be at the start before signup, more images of devices and eye-catching things.

Lets construct your home

House, Apartment, Unit, or Studio?
Do you own or rent?
How many people live in your home?
How many rooms?
Are any rooms vacant?
Gas or Electric stove?
How many thermal water system?
How many
LED lights, Fluorescent lights, Bulbs
Fridge, Washing machine, Dryer
Dishwasher, Kettle, TVs, ACs
Heaters, microwave
Any solar, wind, thermal generators?
Average quarterly power bill?

Modelling efficiency...

progress bar...



Continue >

adapted and simplified ease of use

Remove questions:
vacant rooms, Use
more icons to
answer questions or
clickable yes/no
type response areas.
We do not need the
user to give short
answer feedback?

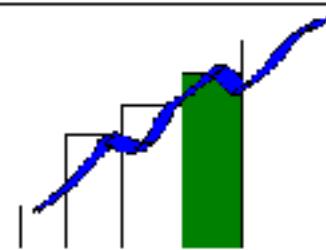
Progress easily displayed

Layout more open here

Here are your results

Your power bill is:

Above average



More facts and comparisons...

Here...

Here...

Here...

Suggested Improvements
available for your situation:

Suggestions ->

Suggested efficiency upgrades:

For fully optimised solar and appliances see a numbers in the home construction tab

Now? ->

skip

In your situation:

People with solar are saving \$300/quarter

Selling a fridge and getting 1 large
fridge saved \$65

Adding a veget wind turbine to
your roof can save \$120

Home storage battery can store
your generated power directly

Suggested products links ->

**good link to final
submission of the user
profile**

**Clear and
easy to
read**

Great form layouts
for the questions,
quick and easy,
profile would
generate on
submission

**very
simple
easy for
everyone**

Clean and easy to
respond with drop
downs with not too
many questions.

Lets start tracking your
power bills to see your
progress -->

Amount \$

People in household

Billing period

Home Explore Forums

Your bill history -->

Period	Amount	Changes
Jun - Sep	\$673	None
Sep - Dec	\$654	Changed out lightbulbs
—	—	—
—	—	—
—	—	—
—	—	—

Home Explore Forums

Tell us about the
appliances in your
household-->

Tick what's relevant:

- Dishwasher Dryer
Computer Washing Machine
Fridge Freezer
Pool Pump Gas Cooktop
Air Conditioners Other:



Home Explore Forums

This image displays a collection of user interface prototypes for an 'Eco Life' application, arranged in a grid-like structure. Each prototype is accompanied by one or more colored callout boxes containing user feedback, observations, or design critiques.

Row 1:

- proto00:** A sign-up screen featuring a teal header with the 'Eco Life' logo. It includes a 'Sign Up' button, a 'Already have a profile?' link, and two large feedback boxes:
 - A light blue box: "Your household liked -- could be two lists --- just things they like and a list for their household plan that is stuff they commit to implementing in their household"
 - A pink box: "Not sure about the whole multiple people on one account idea"
- proto01:** A 'Who is playing?' screen showing a list of six user icons. It includes a question mark icon in the top right corner.
- proto02:** A 'Welcome Back' screen featuring a teal header with the 'Eco Life' logo.
- proto03:** A 'Rank: 21 Points: 40' screen showing a list of household members and their points: Your Household (3), Jessica (12), TJ (15), and Greg (10). It includes a question mark icon in the top left corner.

Row 2:

- proto04:** A 'money starts at zero for new users' screen featuring a yellow header with the text 'money starts at zero for new users'.
- proto05:** A 'Money Saved' screen showing '\$200.20'.
- proto06:** A navigation bar with five items: Household, Discover, Chat, Compare, and Design Share. The 'Household' item is highlighted with a teal background.
- proto07:** A 'change position of icons in menu' screen with a light blue header and a teal footer. It features a large blue callout box with the text 'change position of icons in menu' and a yellow arrow pointing towards the menu area.

Row 3:

- proto08:** A 'Household' screen showing a list of items under 'Your household liked': TUMBLEWEED Solar Powered Clothesline and Solarmotor-Free energy motor.
- proto09:** A 'Discover' screen with a green callout box: "Absolutely amazing colour scheme".
- proto10:** A 'Compare' screen with a yellow callout box: "no consistency with pages (no FLOW!)".
- proto11:** A 'Design Share' screen with a yellow callout box: "Amzing flow".

Row 4:

- proto12:** A 'Household' screen with a large yellow callout box: "Icon not related to icon, aesthetic of block not sure if connects and clutters view a little. New name closer to energy."
- proto13:** A 'Discover' screen with a light blue callout box: "user is not over burdened with content".

Test this
ourselves
and our
friends

Nice
layout
and name

**Clear and
easy to
read**

Clean and easy to respond with drop downs with not too many questions.

Absolutely amazing colour scheme

Positives

Good scrolling layout

Great information, short and sweet ^^

Nice progressive info

Bring scores in after the user profile is created

good link to final submission of the user profile

very simple easy for everyone

Layout more open here

user is not over burdened with content

could we condense information on a lot of pages and add icons instead?

could we improve flow of the app?

What do the navigation buttons do? Need consistent main menu

is there a way to order everything as to not lose potential users

Could we improve usability for disabilities

Questions

How can we make it even simpler? 1) tute info 2) sign-up 3) get house info 4) results/compare 5) suggestions

Whens the perfect time to drop the 'sign-up' button

Prototype 1 - Feedback and Evaluation

Elle: Blue, Jake: Pink, Sam: Orange, Adam: Yellow, Brayden: Green

no consistency with pages (no FLOW!)

Sticky notes for each interview
Group together similar

Forum could be a 'reddit' style page e.g search by category -> see whats 'trending' --> see new posts

maybe a bit shorter to not loose interest

Changes

Like the layout, maybe see what a full width video would like?

More Info on each product

Add main menu navigation and where to buy in more details section. Add a Explore/Discover header at the top of page?

full screen the video thumbnails when clicked

Clear separated look for each individual device.

different layout, smaller videos more room for comments?

If going to be at the start before signup, more images of devices and eye-catching things.

Not sure about the whole multiple people on one account idea

adapted and simplified ease of use

Progress easily displayed

Remove questions: vacant rooms, Use more icons to answer questions or clickable yes/no type response areas. We do not need the user to give short answer feedback?

Icon not related to icon, aesthetic of block not sure if connects and clutters view a little. New name closer to energy.

Looks more like a login screen for existing users, app should open for a single user only, with an add extra user button

money starts at zero for new users

simple navigation to next slide but needs to be consistent with everyone else NEXT

Eye-catching start

change main menu to forum chat on right

Nav bar = Household -> Discover -> Compare -> Forum

reduce unnecessary clutter

comments in discover section

take parts of household questions section and put into compare, have a separate section in compare that contains overview and suggestions - this is inside of my household profile

re-arrange the order for flow electricity bills is last

Need more images and icons then plain text

clickable keywords for help or information

pull appliance data from various suppliers based on user house profile, then have a more like this option

Ideas/Insights

Second Prototype

Notification board/Forum area - chatting

Notifications? What are we notifying about? (Top button design)

Comparison - leaderboard

My history - my profile - my household

Random/new device suggestion

Overall graph/projections

Settings - gear icon

Prototype 2 - Plan

Find common problems from testers and solve them

dani - tutorial improvements and cohesion, household improvements, section 1

adam- sign in sign up, cohesion of flow. section 2

jake - household creation, section 3

braydon - forum section and discover improvements, section 4

sam- comparison and results, section 5

Team Meeting 09

Team name: Design Thinkers

Date of Meeting: 22/09/2021

Start Time: 4:30pm

End Time: 6:30pm

Members present:

- Jake Edmunds
- Adam Albert
- Danielle Jones
- Sam Barrett

Members absent:

- Braydon Newman

Meeting Chairperson: Jake Edmunds

Minutes taken by: Jake Edmunds

Summary of Meeting:

This meeting was to unpack feedback gathered from our second round of user testing on our prototype. As a group we went through the tester's comments and worked out fixes to problems mentioned. Problems ranged from text placement and spacing to re-thinking of entire pages for better understandability.

Agenda

- Unpack the information gathered from the testing conducted.
- Discuss the changes we could make to our solution as a group
- Assign sections for people to work on before next meeting

Link:

https://jamboard.google.com/d/1PwM8UZLhrrwPysD1POpRmFcS1lh2m-vMuf_JiNFt9Js/viewer?f=3

Next Meeting

Next meeting will be to review our changes as a group and make improvements if necessary.

The new chairperson will be Braydon Newman

Next Meeting Time: Wednesday 4:30PM (29/09/2021)

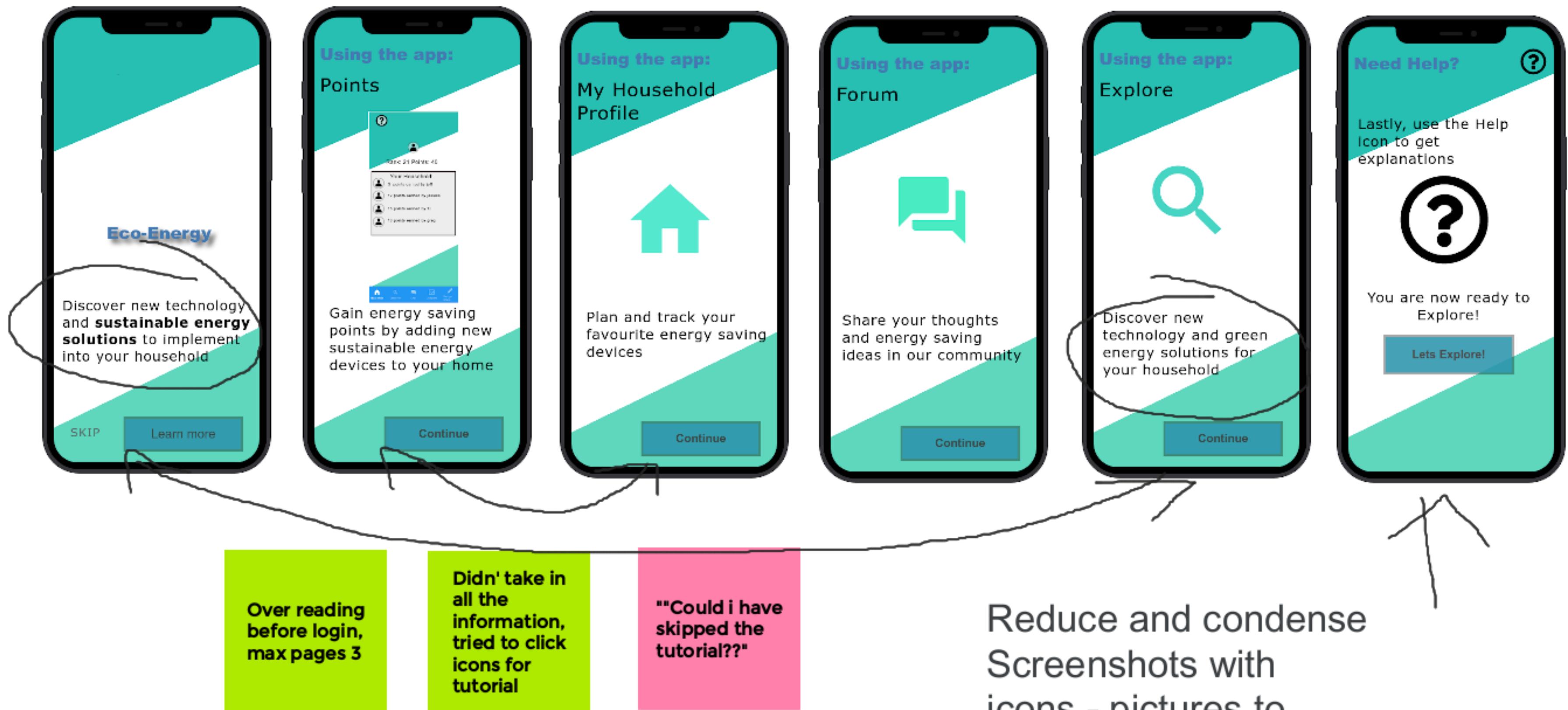
I acknowledge and have read the team meeting minutes; I understand and will prepare for the activities required prior to next team meeting as outlined in this document:

Name and Date

Jake Edmunds – 22/09/2021

Dannielle Jones – 24/09/2021

Tutorial



Reduce and condense
Screenshots with
icons - pictures to
explain

Login



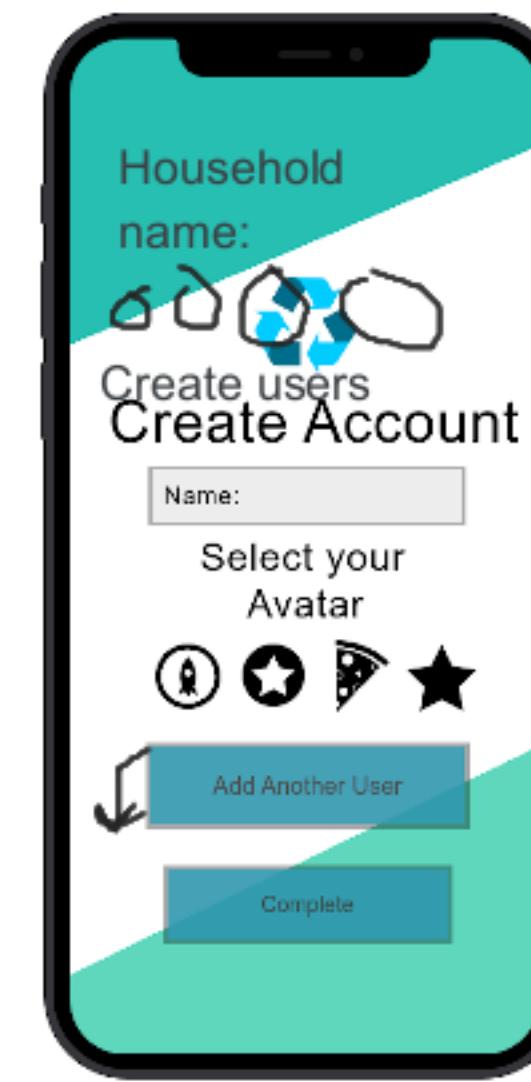
Filled out email and password to sign up then clicked Sign up

Larger signup and change to ALL CAPS

New screen with signup and signin on same as same level

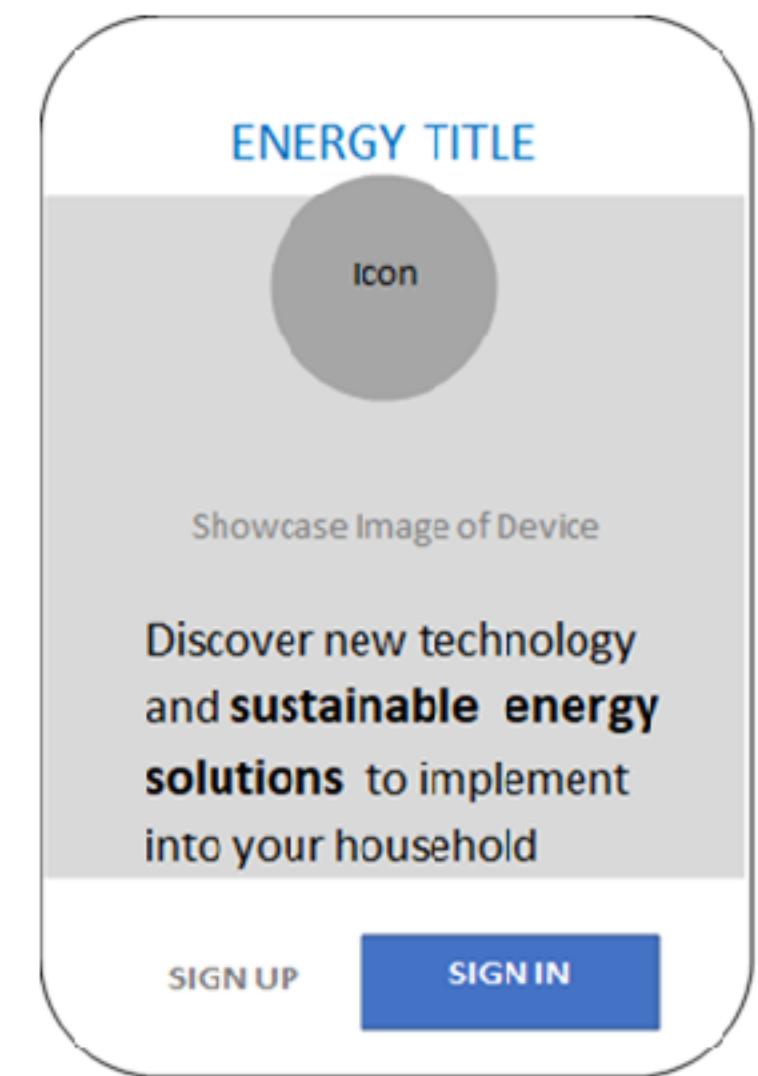
welcome only

Sign Up



"Name as in Nickname??"
username

Add user
Needs to show a user after they are added



side by side but sign in is then greyed out one

Setup/Update Household

owner spelt
incorrect
owner of
property

"Property Details"

Household Details

Are you an owner or a renter of the household?

Owner: Renter:

What best describes your dwelling?

House

How many People live in the Household?

3

Continue

Household Details

Appliances in my Household

Dishwasher Dryer
Computer Washing machine
Fridge Freezer
Pool Gas cooktop
Air Conditioner(s) Other

Continue

Household Details

My Household contains Tick all that apply

Solar Power system
Standalone Battery
Wind Harnessing system
Compost station

Continue

Household Details

Add Your most recent power bill to track progress

Amount \$
\$400

Period start date
13 Feb 2021

Billing Period
Quarterly

Complete

number of
people is
drop down
and multi-
input box
(can write to
override)

gaps
between the
checkboxes
and the text

gas cooktop
to heater

Does
computers
include
laptops?

Computer/
Laptop
A/C Units

Wording on
these - why do
we have a
compost
station for
energy?

Wind turbine?
Battery
connected
to...?

Wind
Turbine,
instead of
Wind
harnessing
system

compost
changes to
skylights

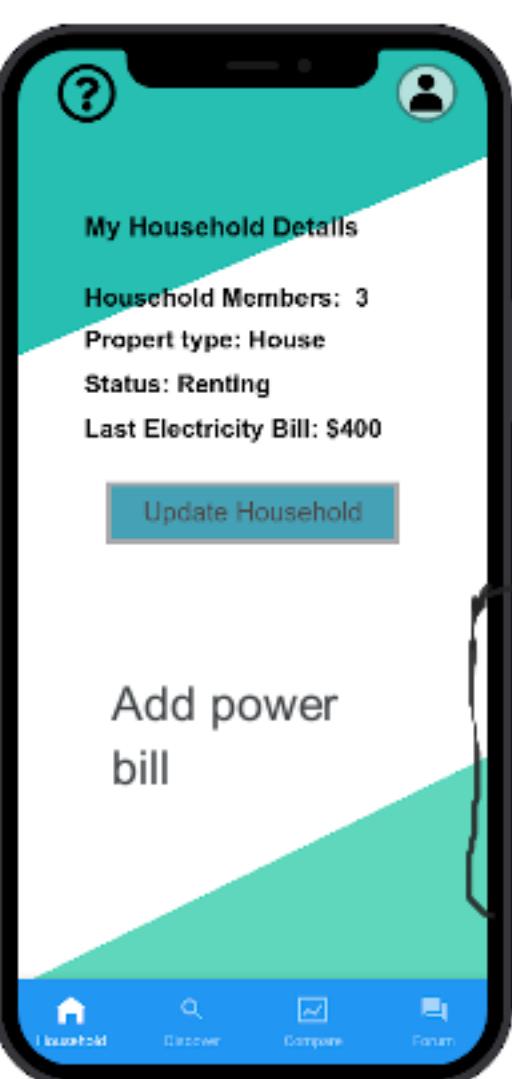
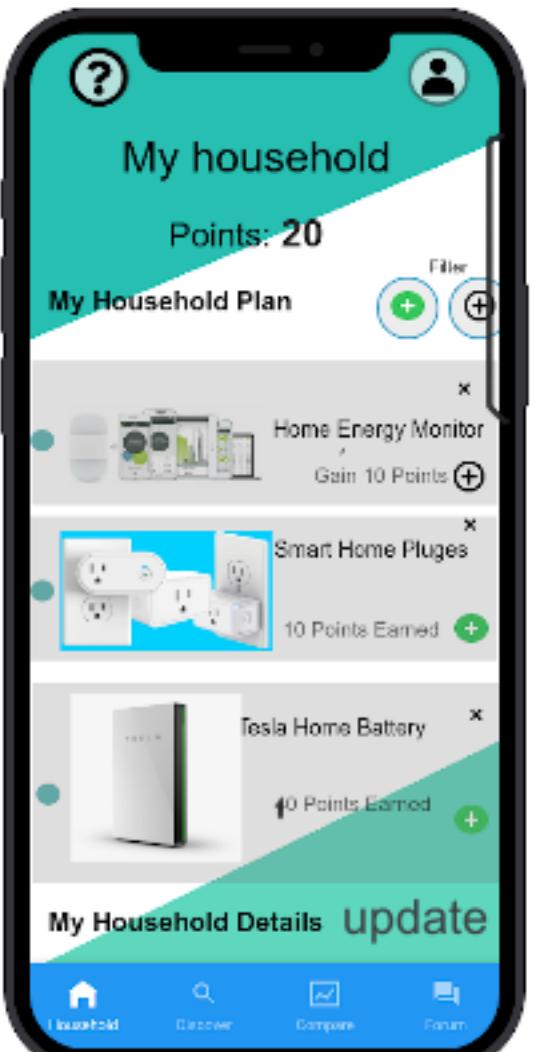
complete
different
shade/
colour than
normal
continue
buttons

— My Household —

values
wrong

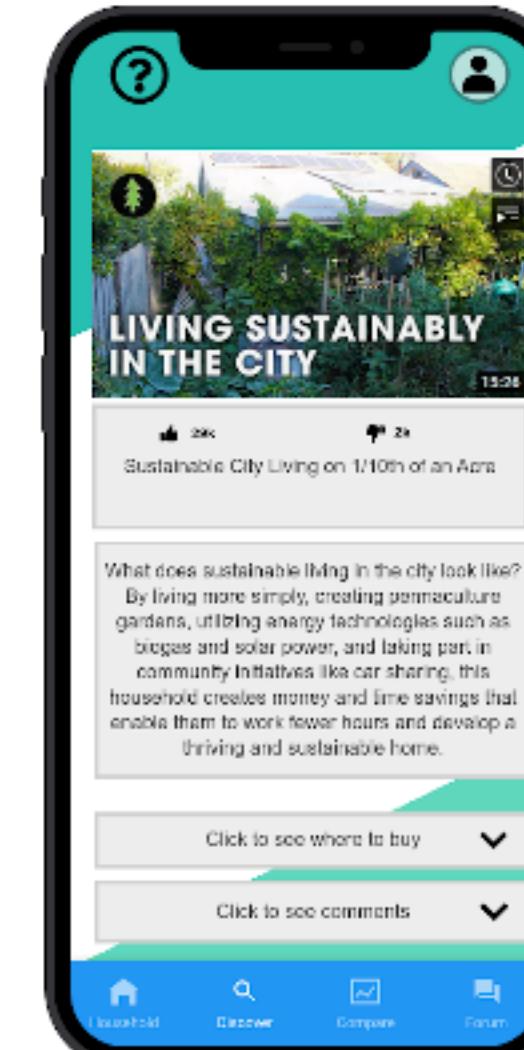
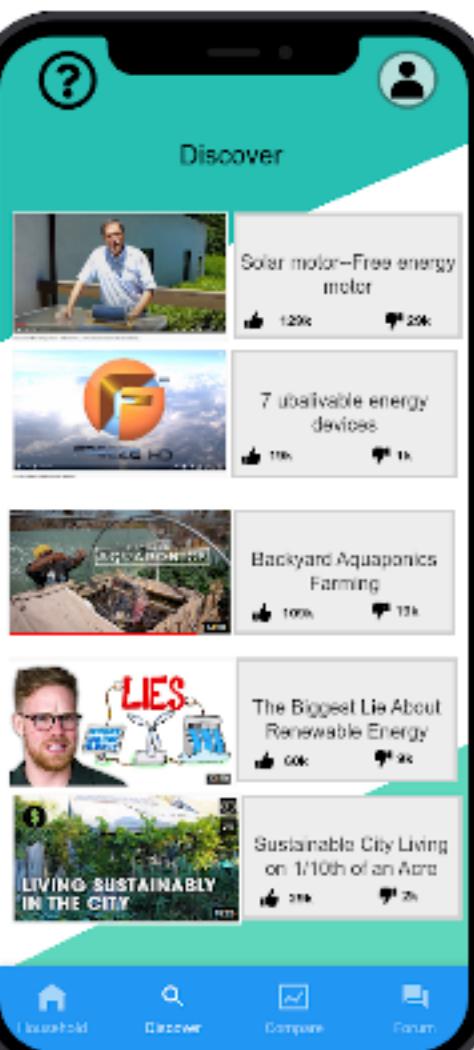
change + to
ticks like in
tutorial_04
file

scroll bar to
indicate the
continuously
scrolling

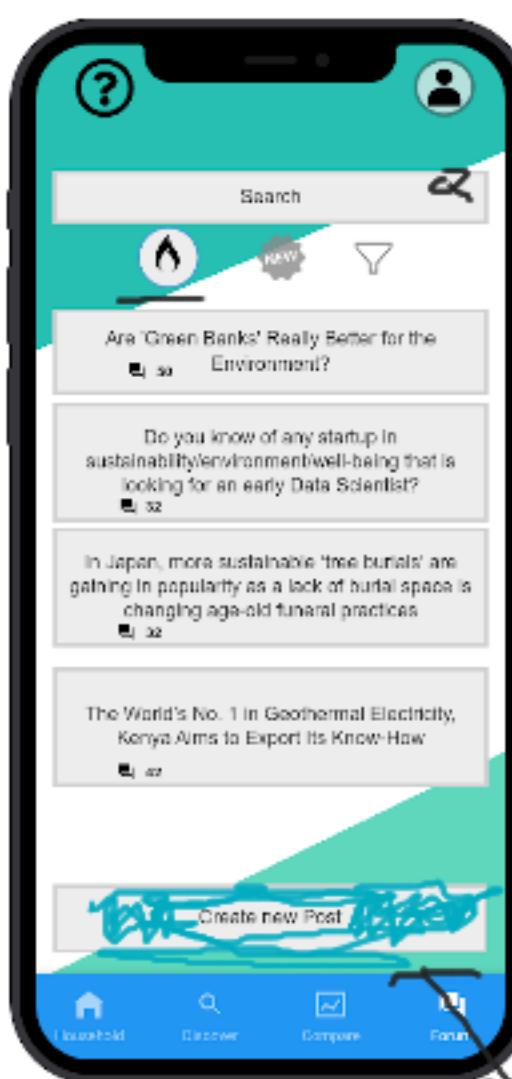
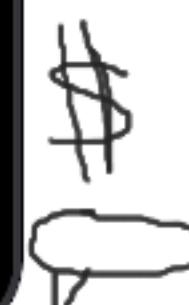


add to
household
plan button
in discover

Add power
bill



bold titles
not content



Post

colour

Points system was confusing, mainly because values were wrong

Clear adding and finding device

Clicked on the "home energy monitor" tab not the + sign when adding to household plan

Understood point system and how to add device

Tried to add device to the plan, question to open?, bad design

Most UI elements easy to understand

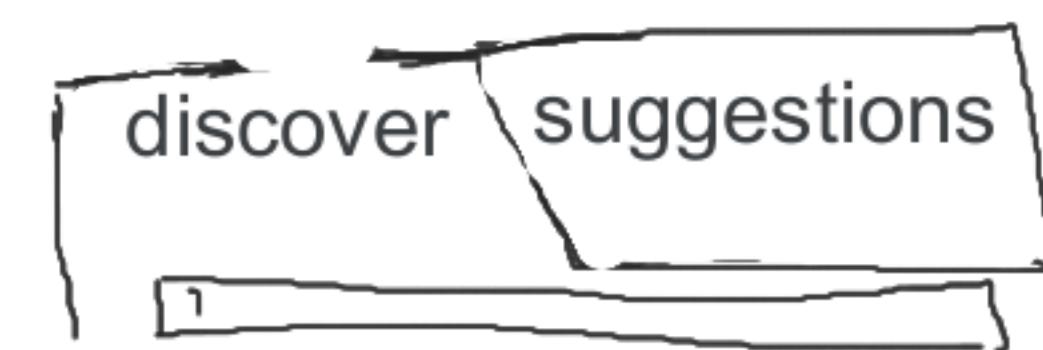
More emphasis on the discover button

Search/Discover would normally be up top. Not looking at bottom first

tab for suggestions in the discover page



Took a while to find Forum/Navbar

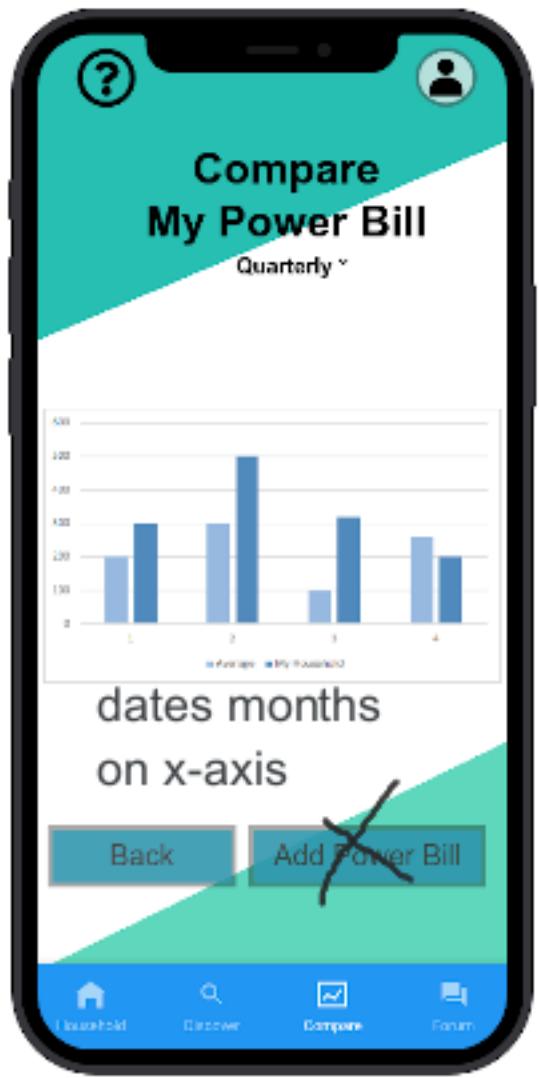
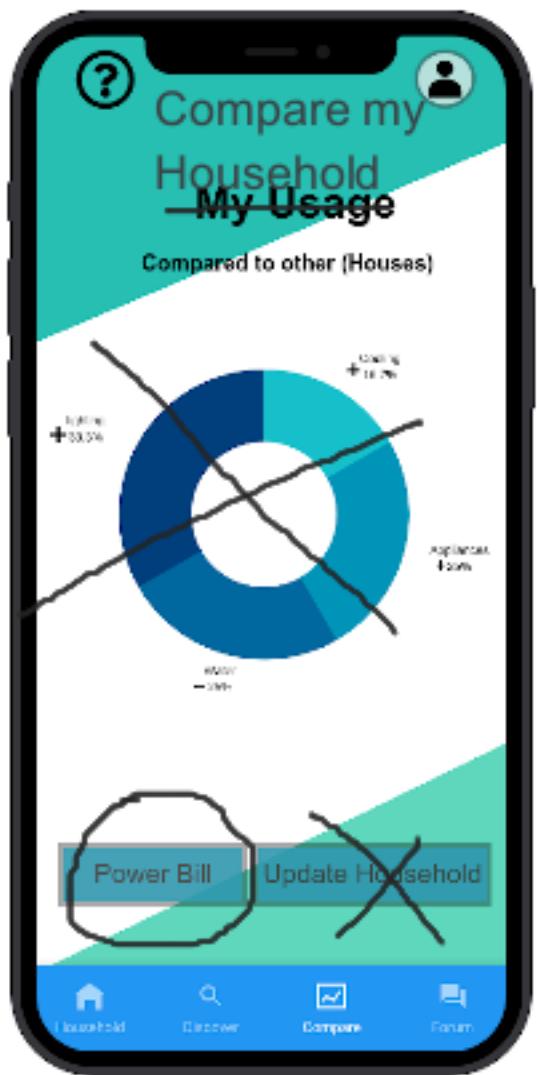


title keywords and content post button

Underline for what tab your on in Forum new at top/start

discover suggestions

Compare



Leaderboard

Ranking: 1

10 My household

5 other house



Unsure about how the information provided by graph

Positive means better? Wasn't sure what to do on the page.

Power bill sounds past tense, not sure on where to update

Unsure how to add power bill. In "update household" or "Power Bill"

When asked if the household was performing better than others replied yes. Then admitted she didn't know what the comparison was

Doesn't like the pie graph - Use a table

Can't get clear info on the compare page

Un-clear pie graph with + and -

Prototype 2 - Feedback and Evaluation

Key: tester_01: blue, tester_02: pink, tester_03: orange, tester_04: yellow, tester_05: green

Positives

Changes

Questions

Team decided not to fill this in this time as it
was posted beside each screen to see clearer

Ideas/Insights

Later considerations
Kids user - restricted to likes
and list of favourites
Crypto currency
Random suggestions for
new device
Comparison leaderboard

Plan to make changes:



Prototype 3 - Plan

App Name: Green Surge
App logo ideas:



sustainable - energy -
power - renewable -
green energy

colour scheme: green/blue

Adam: Primary for changes,
suggestions - new pages

Danielle/Jake: minor changes
danielle first half & logo, jake
last

Braydan/Sam: conduct next
round of testing

Team Meeting 10

Team name: Design Thinkers

Date of Meeting: 25/08/2021

Start Time: 2:30pm

End Time: 4:30pm

Members present:

- Jake Edmunds
- Braydan Newman
- Adam Albert
- Danielle Jones
- Samuel Barrett

Meeting Chairperson: Braydan Newman

Minutes taken by: Braydan Newman

Summary of Meeting:

Prior to meeting:

During the practical the prototype was tested and given out to multiple people for feedback

Agenda:

During the meeting it was planned to go through the prototype feedback to come up with positives, changes and ideas/insights for the next prototype iteration (the final exhibition prototype).

We went through the project report template and discussed as a group what some of the things would go into each section and to refer back to the meeting minutes if not sure.

Result of Meeting:

The meeting resulted in a lot of comments on the prototype, most if not all comments made were only very minor things and could be changes in a matter of minutes, no major faults were found in our prototype to change at this stage.

Once all meeting minutes were uploaded Danielle would combine into a single PDF document for each team member to use for Appendix A. Adam and Jake would make graph changes to the final prototype and Danielle was to make very small adjustments as discussed. Braydan and Sam would continue to test Prototype_03 to ensure that nothing was missed in first two iterations.

Next Meeting:

No further meeting will be held before due date.

I acknowledge and have read the team meeting minutes; I understand and will prepare for the activities required prior to next team meeting as outlined in this document:

Name and date:

Braydan Newman - 30/09/2021

Danielle Jones – 02/10/2021

Prototype 3 - Feedback and Evaluation

Changes

Key: tester_01: yellow (Team comments)

Positives

Logo design and the s-shape

Scroll bar works for indicating scroll interactivity

Add latest power bill in update power bill section	Move down sign in and sign up on help tutorial screen	Change the colour of the help icon on pages 6 onwards	Change to create username on page 7	My household contains... I have these green solutions... etc. Change the wording	Change the key for the graph to be clearer on compare my household section
My power bill - months Feb-Apr	Avatar in the top right corner changes to avatar symbol, outer circle to match help icon colour	Change household name placeholder to Smith Family	Spelling mistake in appliances in household details	Y in your is a captial letter	Green Energy, Monitoring, Appliances, other - categories for the compare section graph. These categories are dynamic based on the devices available on the app.

Have we answered our HMW question?

Do we meet our POV statement?

Questions

Text cutting through the background visual	Future thought for implementation to app - the My Household and points is sticky to the screen so you can scroll and still see those elements	Rounded and shadow to help further distinguish between discover and suggestions.
Filter leaderboard by area for future prototype comparisons		In forum move icons to filter on right-hand side

Ideas/Insights

Final Prototype Exhibition - Week 13

& Write Individual Reports

Appendix B

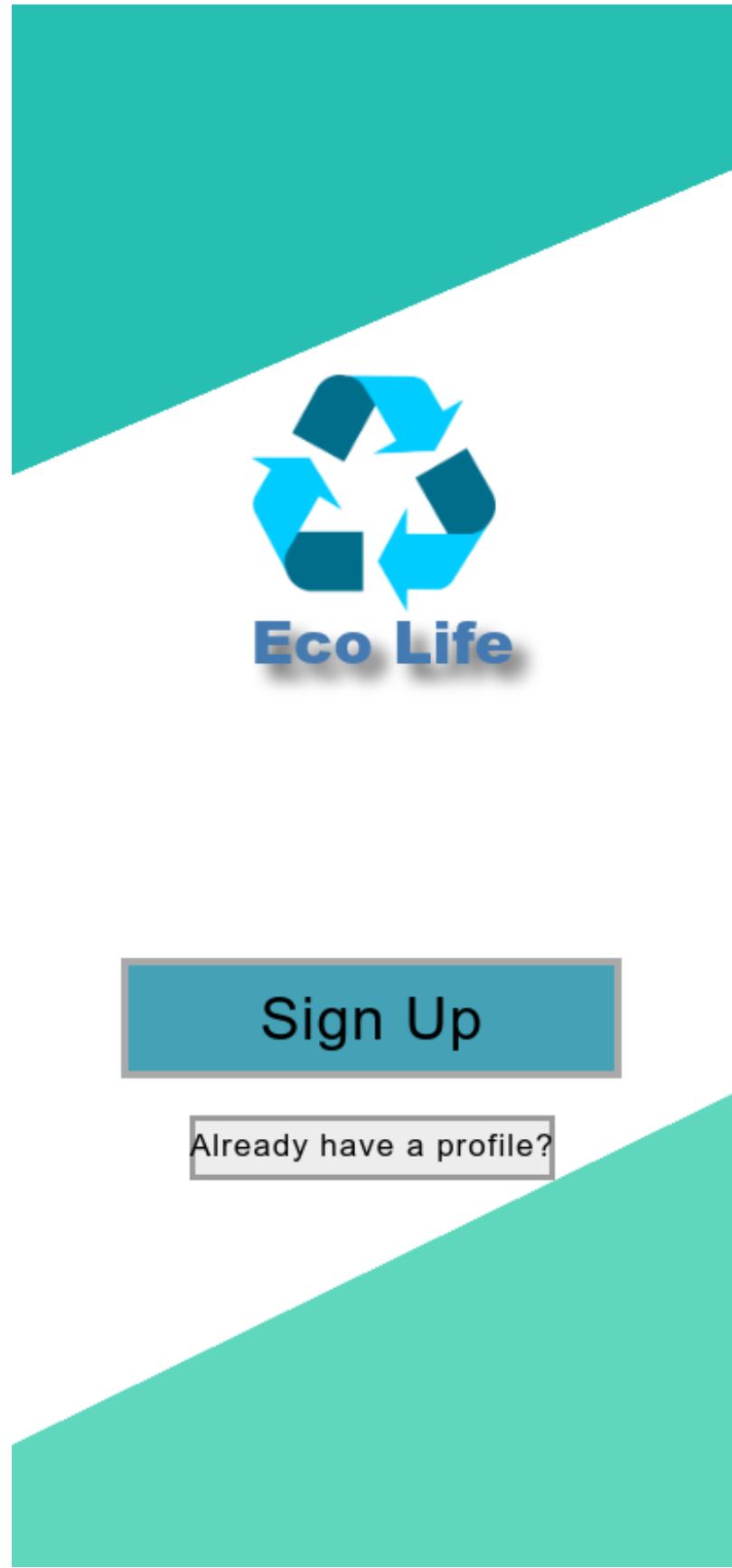
Prototype Iterations

Our group felt more comfortable using computers to develop our prototype than drawings and sketches on paper. This also permitted us to easily share these ideas in real-time with each other to make and discuss changes by using Discord share screen or using the prototype application area itself.

Overview:

- Prototype 1.0 – sections were completed by individual team members using word or other applications
- Prototype 2.0 – sections were completed by individual as listed using word application, Adam at this point was already in development for Prototype 2.1 to combine our ideas into a cohesive app
- Prototype 2.1 – used Proto prototype software using all ideas from all previous individual sections
- Prototype 3.0 – used Proto prototype software to refine sections and keep cohesive across prototype
- Prototype 4.0 – final prototype for this project

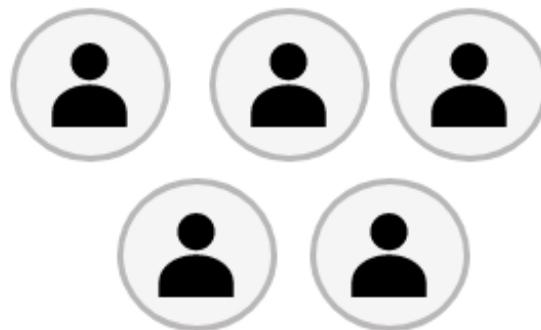
Prototype 1.0



ADAM ALBERT



Who is playing?



ADAM ALBERT



Welcome Back

ADAM ALBERT

Rank: 21 Points: 40

Your Household

- 3 points earned by jeff
- 12 points earned by jessica
- 15 points earned by TJ
- 10 points earned by greg

Household Discover Chat Compare Design Share

ADAM ALBERT

The screenshot shows a mobile application interface. At the top left is a question mark icon inside a circle, and at the top right is a user profile icon. The main heading "Money Saved" is displayed above a large bold dollar amount "\$200.20". Below this, the text "Your household liked" is followed by two recommended items: a thumbnail for "7 UNBELIEVABLE Solar Powered Creations" and a thumbnail for a video showing a man demonstrating a solar motor. The bottom navigation bar includes icons for Household, Discover, Chat, Compare, and Design Share.

Money Saved

\$200.20

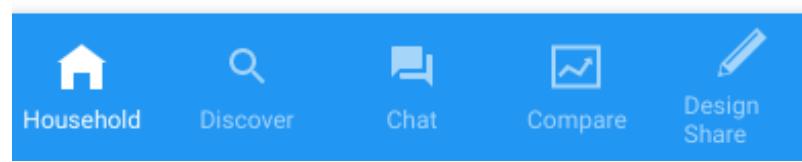
Your household liked

7 UNBELIEVABLE Solar Powered Creations

Solar motor--Free energy motor

Household Discover Chat Compare Design Share

ADAM ALBERT



ADAM ALBERT/DANNIELLE JONES

Energy Household App Tutorial

We are about:

- helping your household to implement more sustainable energy solutions

We want to inform you:

- on the life-cycle of your sustainable solutions
- how or what you can do to take action in your home
- where you can save or buy sustainable energy solutions
- help you to discover new and wonderful technology!

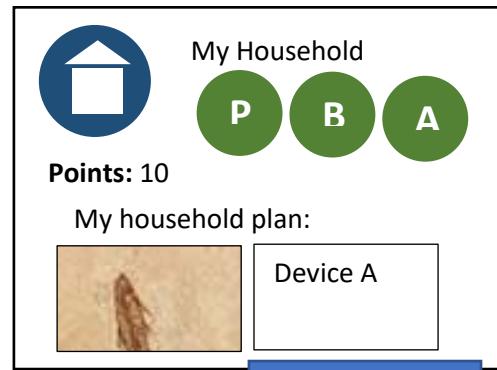
SKIP

Continue ->

Using the app:

My Household Profile

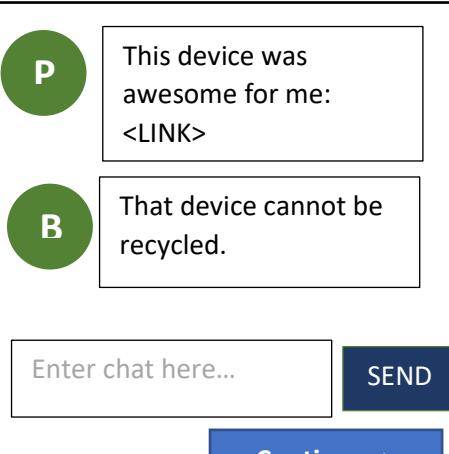
Helps you to track your household type and its members. You can update this any time that you move or your household changes.



Using the app:

Forum

Allows you to chat with other like-minded people on their sustainable energy use.



Using the app:

Points

Are gained from adding new sustainable energy technology or devices into your household.

These can be used to compare to other households and see what they are doing differently.



Points: 10

20	Compare
10	Your Household
5	Compare

Continue ->

Using the app:

Explore

Allows you to find new technology and green energy solutions that interest and suit your household.

You can get a random suggestion of a big or small change to make in your household. Or just find technology or ideas that interest you to save to your household sustainable energy plan.



Solar fish device

Continue ->

Energy Household App (Title)

You can refer back to this help section at any time through the:



= help

You are now ready to explore!

Let's Explore!

Lets start tracking your power bills to see your progress -->

Amount \$

People in household

Billing period

Quarterly



Your bill history -->

Period	Amount	Changes
Jun - Sep	\$673	None
Sep - Dec	\$654	Changed out lightbulbs
—	—	—
—	—	—
—	—	—
—	—	—
—	—	—

Tell us about the appliances in your household-->

Tick whats relevant:

Dishwasher Dryer

Computer Washing Machine

Fridge Freezer

Pool Pump Gas Cooktop

Air-Conditioners Other:



Home **Explore** **Forums**

Home **Explore** **Forums**

Home **Explore** **Forums**



Video

The Most Efficient Apple

Lore ipsum
dolor sit amet
consectetur
adipisicing elit.
Maxime mollitia



Video

The Most Efficient Apple

Lore ipsum
dolor sit amet
consectetur
adipisicing elit.
Maxime mollitia



Video

The Most Efficient Apple

Lore ipsum
dolor sit amet
consectetur
adipisicing elit.
Maxime mollitia



A scrollable section with a seemingly endless supply of products of energy efficacy

BRAYDAN NEWMAN



The Most Efficient Apple

Video

Lore Ipsum is simply dummy text of the printing and typesetting industry.

Lore Ipsum has been the industry's



More info of individual products with lots of info of it, the house heart and eye allow to save items to almost like folders

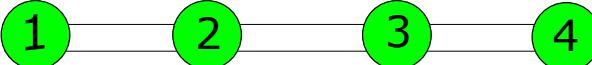
2. User selection from the household

Lets construct your home

House, Apartment, Unit, or Studio?
Do you own or rent?
How many people live in your home?
How many rooms?
Are any rooms vacant
Gas or Electric stove?
How many litre hot water system?
How many:
LED lights, Fluorescent lights, Bulbs
Fridges, Washing machines, Dryers
Dishwasher, Kettle, TVs, ACs
Heaters, microwave
Any solar, wind, thermal generators?
Average quarterly power bill?

Modelling efficiency...

progress bar...



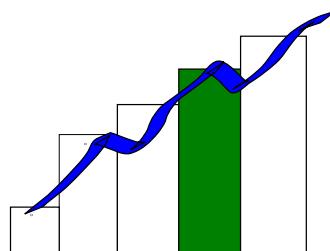
[Continue ->](#)

NOTE: Each of these questions can open in separate windows to refine size of appliance, power rating.
Any home generation of power would open on a separate window to refine.
Lights can average time on? (Difficult)

Here are your results

Your power bill is:

Above average



More facts and comparisons...

Here...

Here...

Here...

Suggested improvements available for your situation:

[Suggestions ->](#)

This section needs refining to compare to things like fully Earthified homes with maximum sustainable living choices. The algorithm would sort based on the situation entered in the 'Lets construct your home' tab. ie: If renting this list, If 4 bed owner, this list etc

Suggested efficiency upgrades:

For fully optimised plan add appliance serial numbers in the home construction tab

[Now? ->](#) [Skip](#)

In your situation:

People with solar are saving \$300 quarter

Selling a fridge and getting 1 large fridge saved \$85

Adding a yacht wind turbine to your roof can save \$100

Home storage battery can store your generated power cheaply

[Suggested products links ->](#)

This product page can be like the the list in Amazon where they also show other people also bought etc. Algorithm can link to suppliers sites, they would pay to have their links, and a commission would arrive for all sales from links to the app developers.

Forum/Notification
Board is under
construction

Go Back

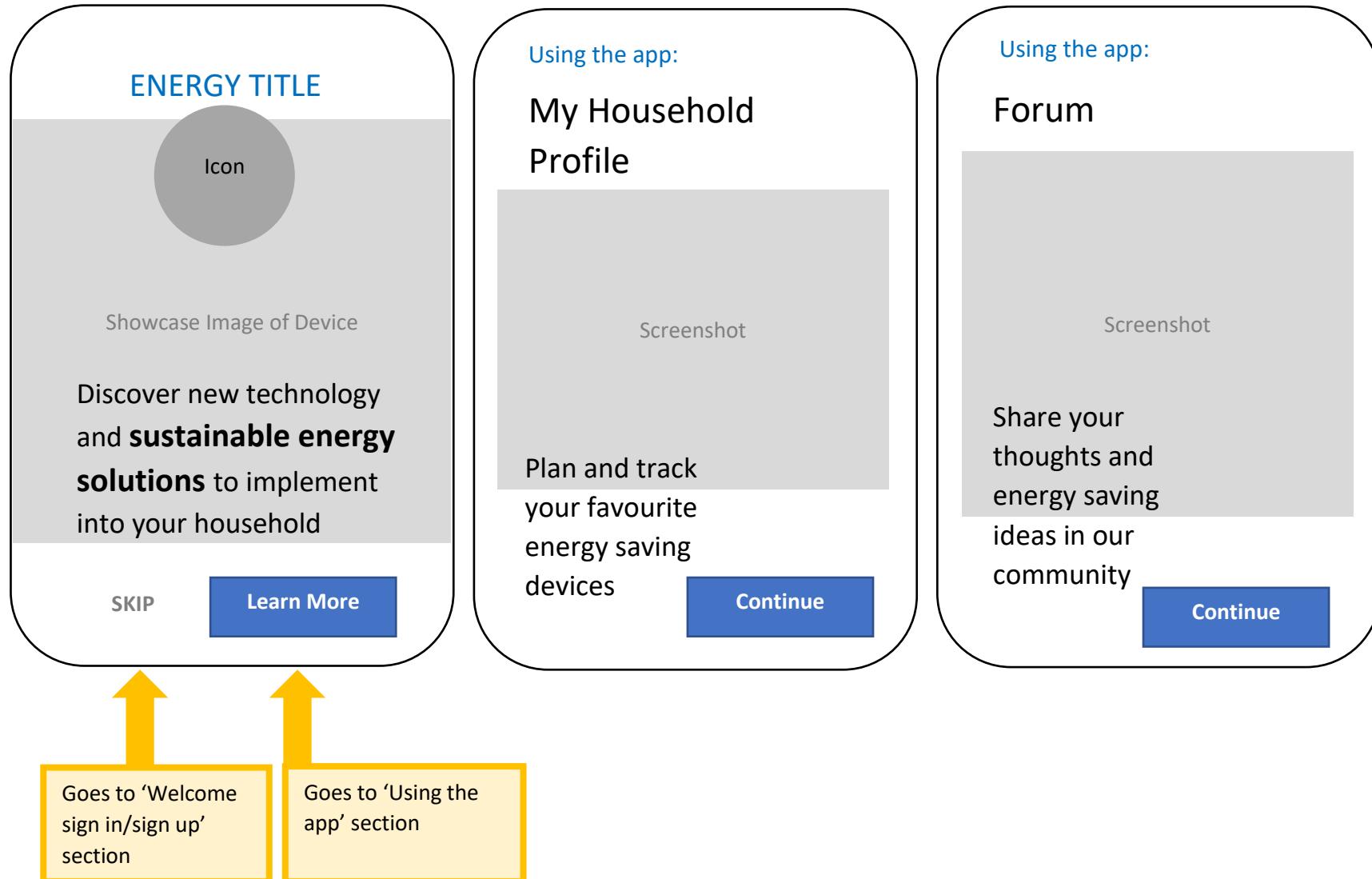
Compare my
household is under
construction

Go Back

My Household is
under construction

Go Back

Prototype 2.0



Using the app:

Points

Screenshot

Gain energy saving points by adding new sustainable energy devices to your home

Continue

Using the app:

Explore

Screenshot

Discover new technology and green energy solutions for your household

Continue

Need Help?

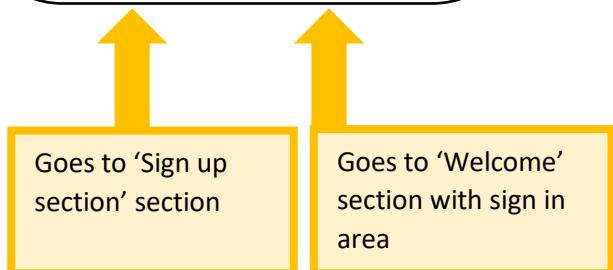
Lastly, use the help icon to get explanations:



You are now ready to explore!

Let's Explore!

Goes to 'Welcome sign in/sign up' section



This screen appears if a user has used the app before but no account is logged in

?

My Household

Points: 20

My Household Plan

Filter  

	Device Video	Device A	
	Device Video	Gain 10 points 	
	Device Video	10 points earned 	
	Device Video	Device C	
		10 points earned 	

My Household Details

Household members: 3
Property type: House
Status: Renting
Last electric bill: \$400

Update Household

My Household Details

 Household  Discover  Chat  Compare  Design Share

 Household  Discover  Chat  Compare  Design Share

Device Video 

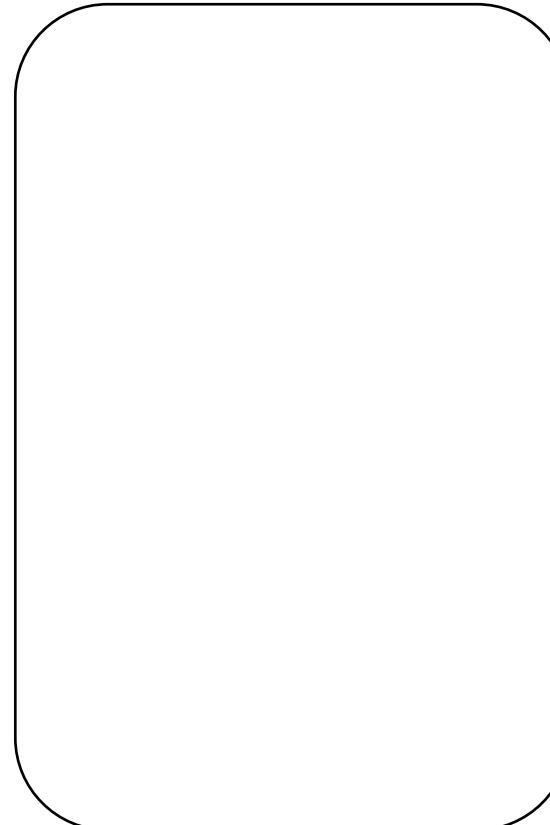
10 points earned 

My Household Details

Household members: 3
Property type: House
Status: Renting
Last electric bill: \$400

Update Household

 Household  Discover  Chat  Compare  Design Share



Lets start with the make-up of your household -->

Are you an owner or do you rent?

Owner Rent

What best describes your dwelling?

House



How many people in your household?

4



[Home](#)

[Explore](#)

[Forums](#)

Tell us about the appliances in your household-->

Tick what's relevant:

Dishwasher Dryer

Computer Washing Machine

Fridge Freezer

Pool Pump Gas Cooktop

Air-Conditioners Other:



[Home](#)

[Explore](#)

[Forums](#)

Does your household contain any of the following -->

Tick all that apply:

- Solar power system
- Standalone Battery
- Wind harnessing system
- Compost station



Home

Explore

Forums

Add your recent power bill to track your progress in the future -->

Amount \$

Period Start Date

▼

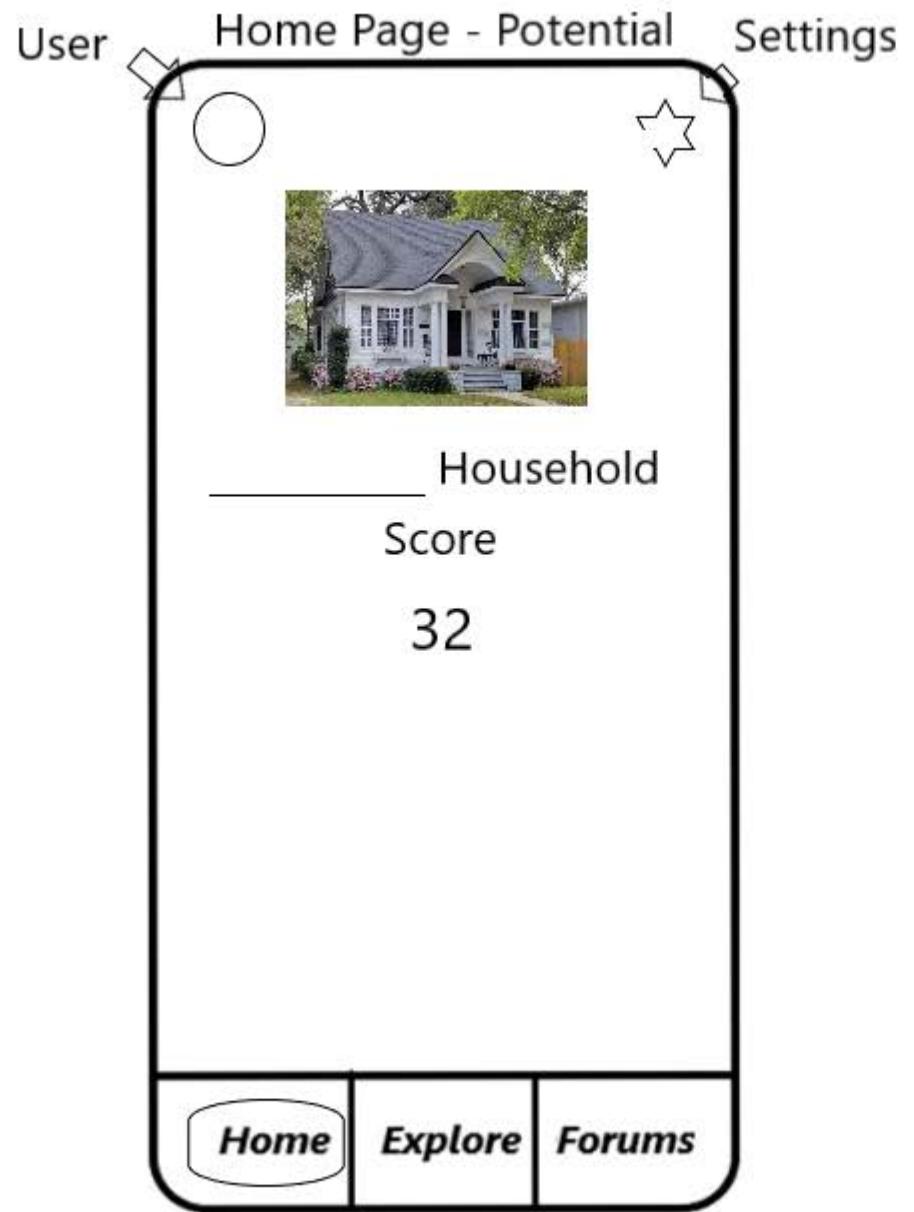
Billing period

▼

Home

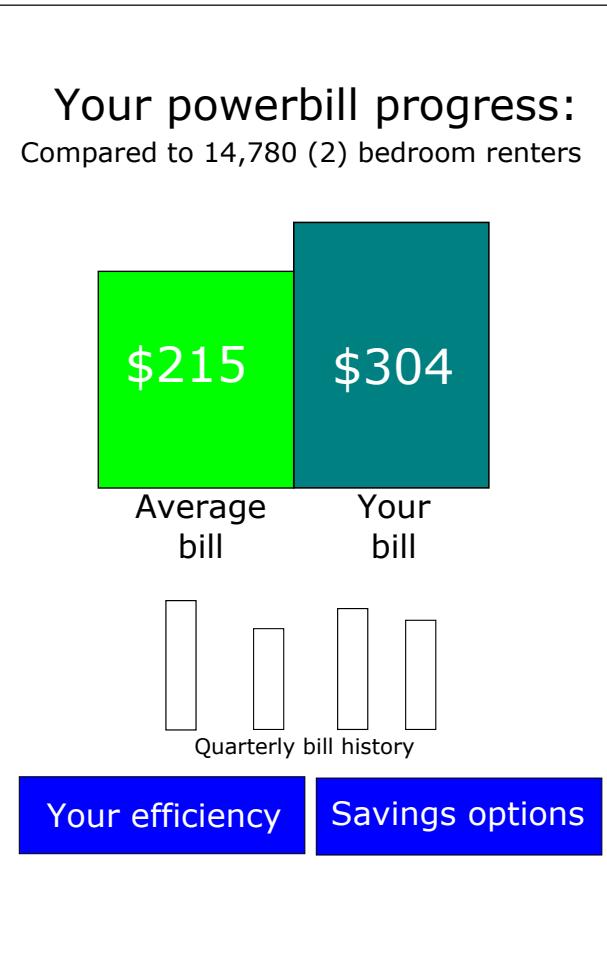
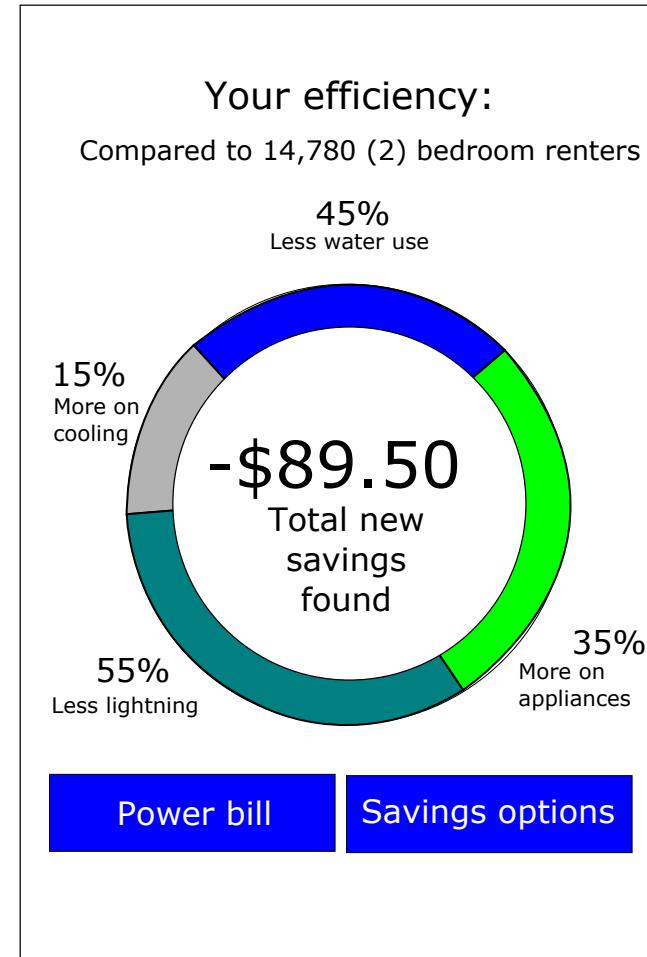
Explore

Forums



Compare section

From contract
your home section



To savings
suggestions
section



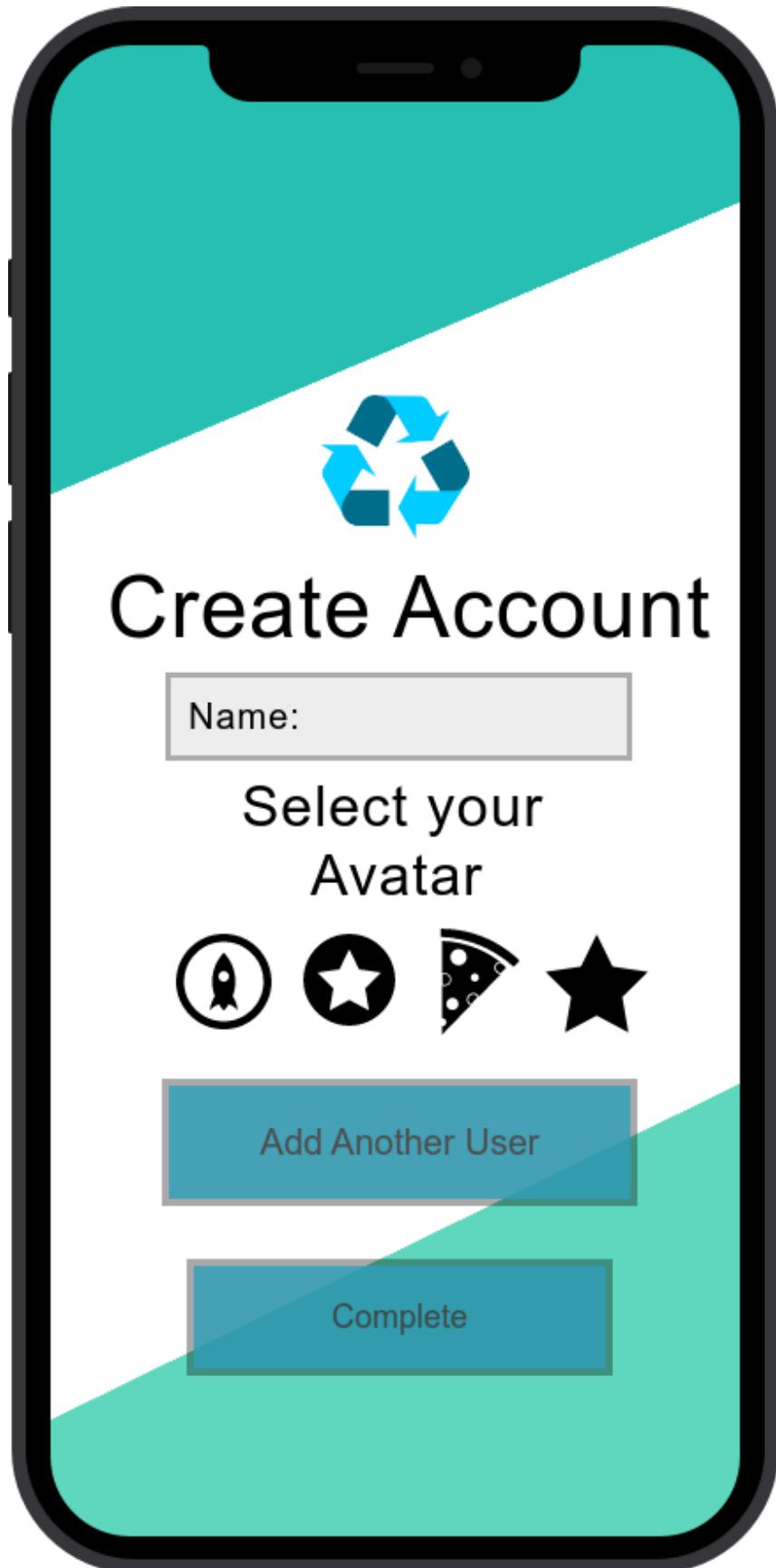
Prototype 2.1

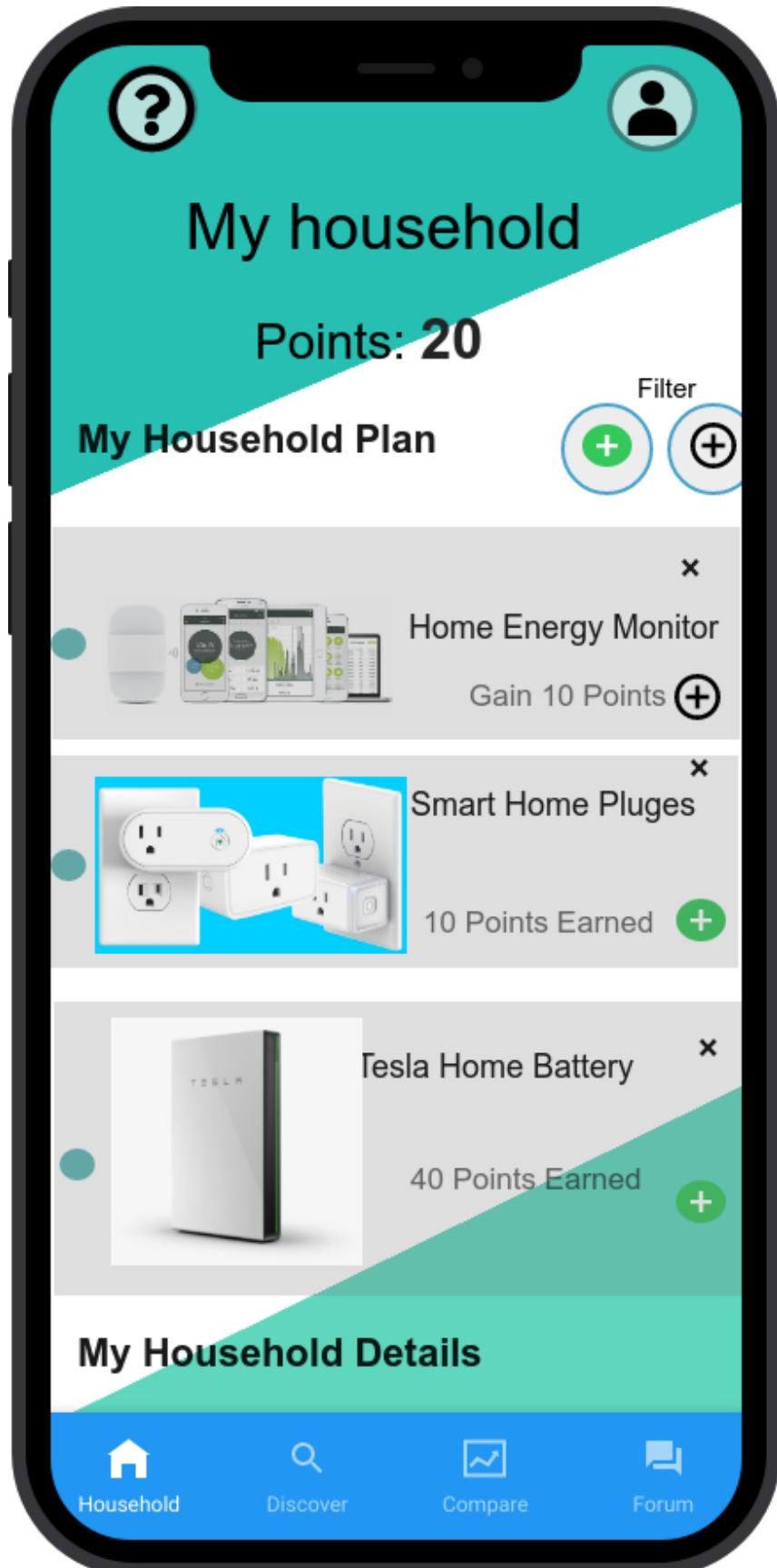


The screen shows a 'Discover' feed with five video thumbnails:

- Solar motor--Free energy motor**
Thumbnail: A man in a white shirt demonstrating a solar motor on a table. Likes: 129k, Dislikes: 29k.
- 7 ubalivable energy devices**
Thumbnail: A logo for 'FREEZE HD' with a stylized 'F' and 'HD'. Likes: 19k, Dislikes: 1k.
- Backyard Aquaponics Farming**
Thumbnail: A person working in a backyard aquaponics system. Likes: 109k, Dislikes: 19k.
- The Biggest Lie About Renewable Energy**
Thumbnail: A man with glasses and a beard, with the word 'LIES' overlaid in red. Likes: 60k, Dislikes: 9k.
- Sustainable City Living on 1/10th of an Acre**
Thumbnail: A green roofed building with the text 'LIVING SUSTAINABLY IN THE CITY'. Likes: 29k, Dislikes: 2k.

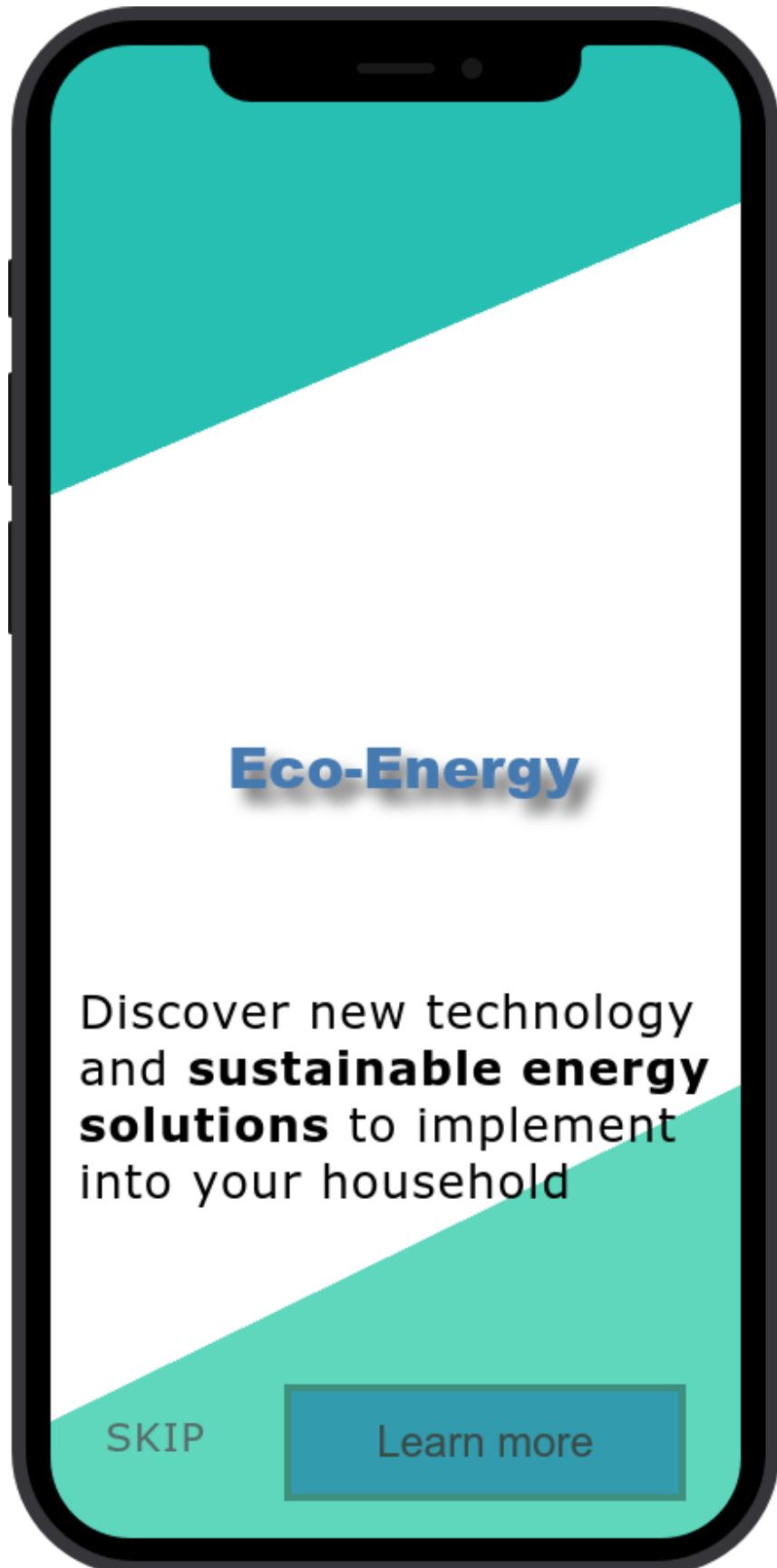
At the bottom, there is a navigation bar with four icons: Household (home icon), Discover (magnifying glass icon), Compare (graph icon), and Forum (speech bubble icon).



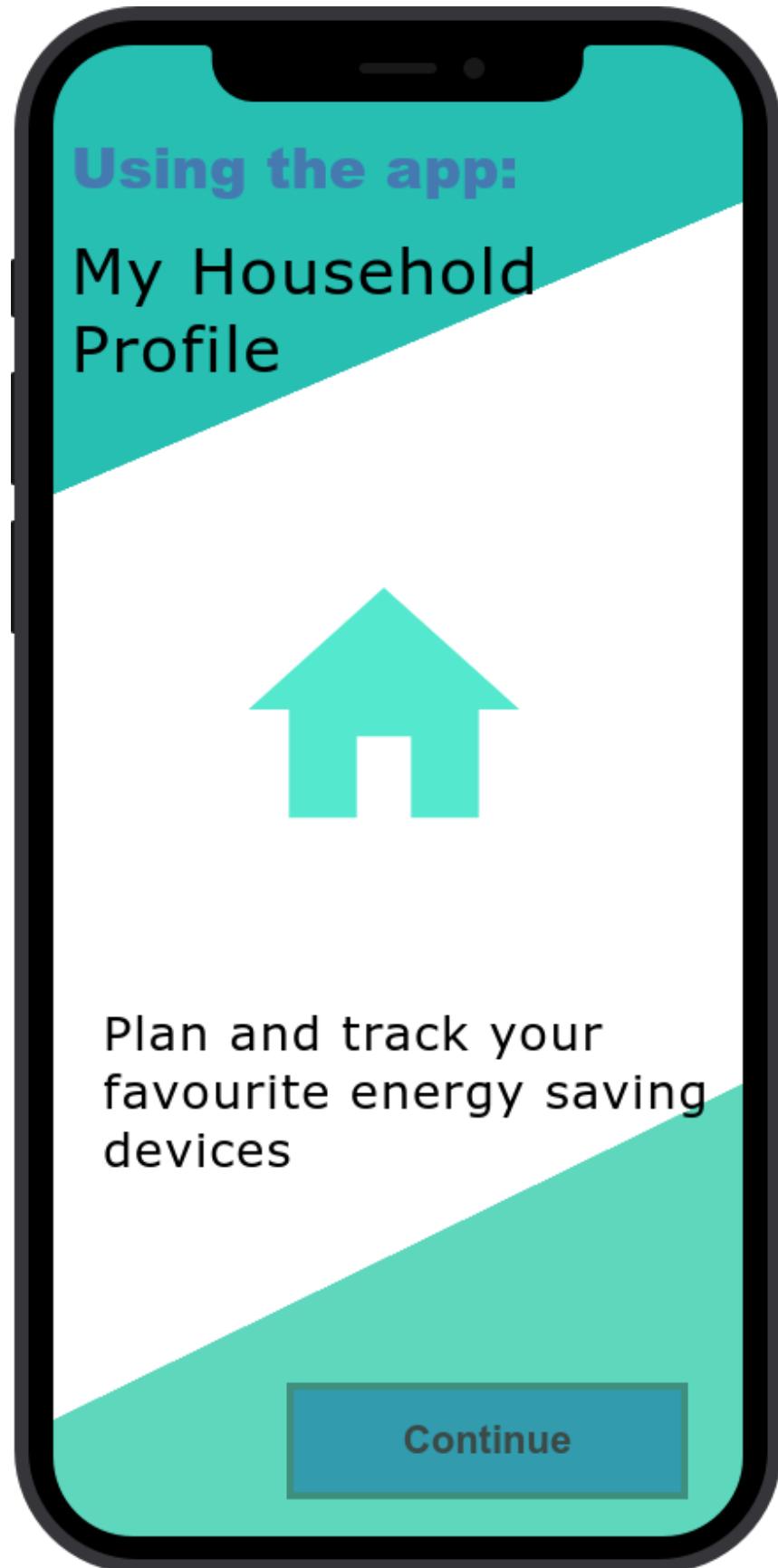


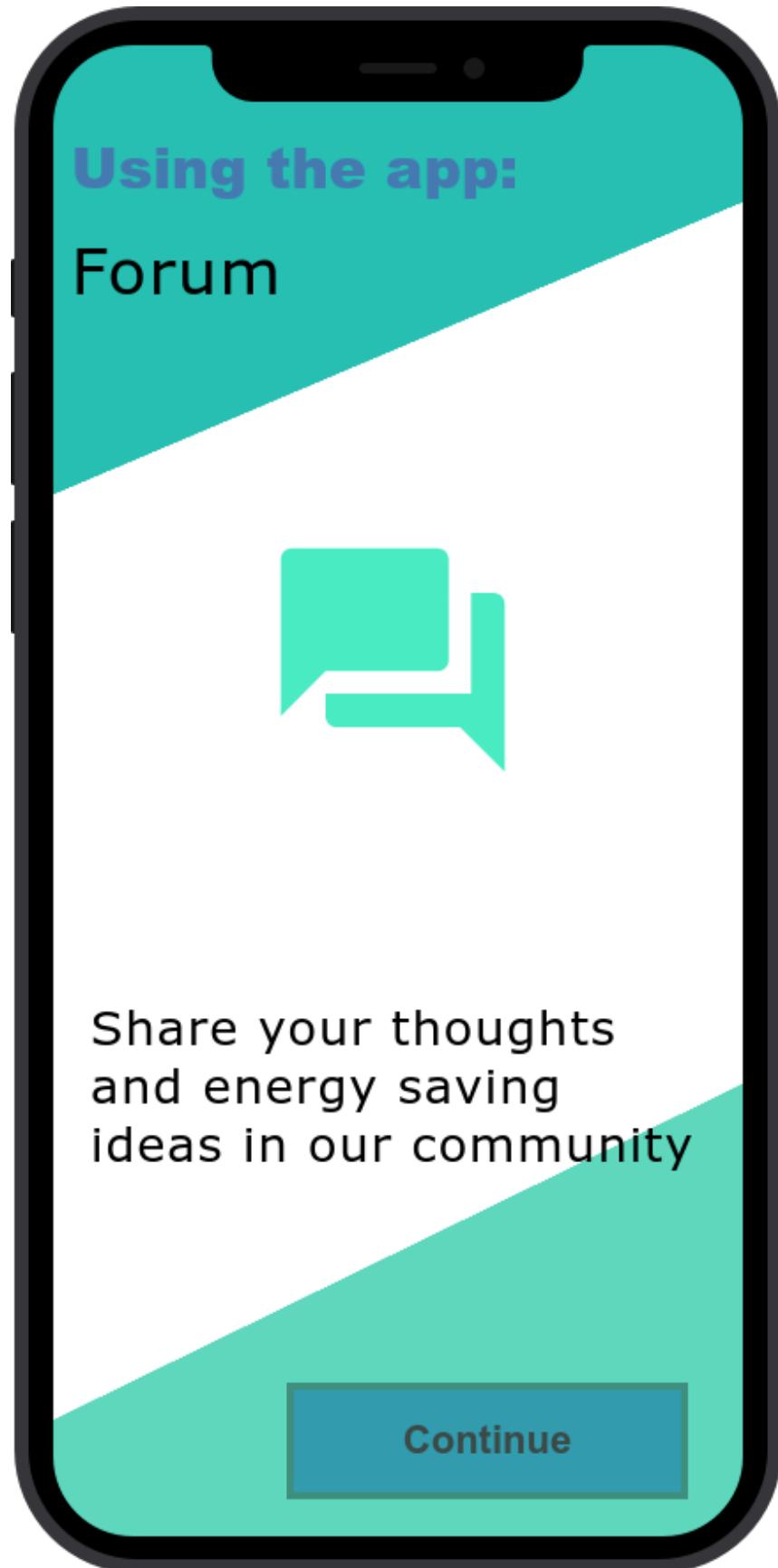


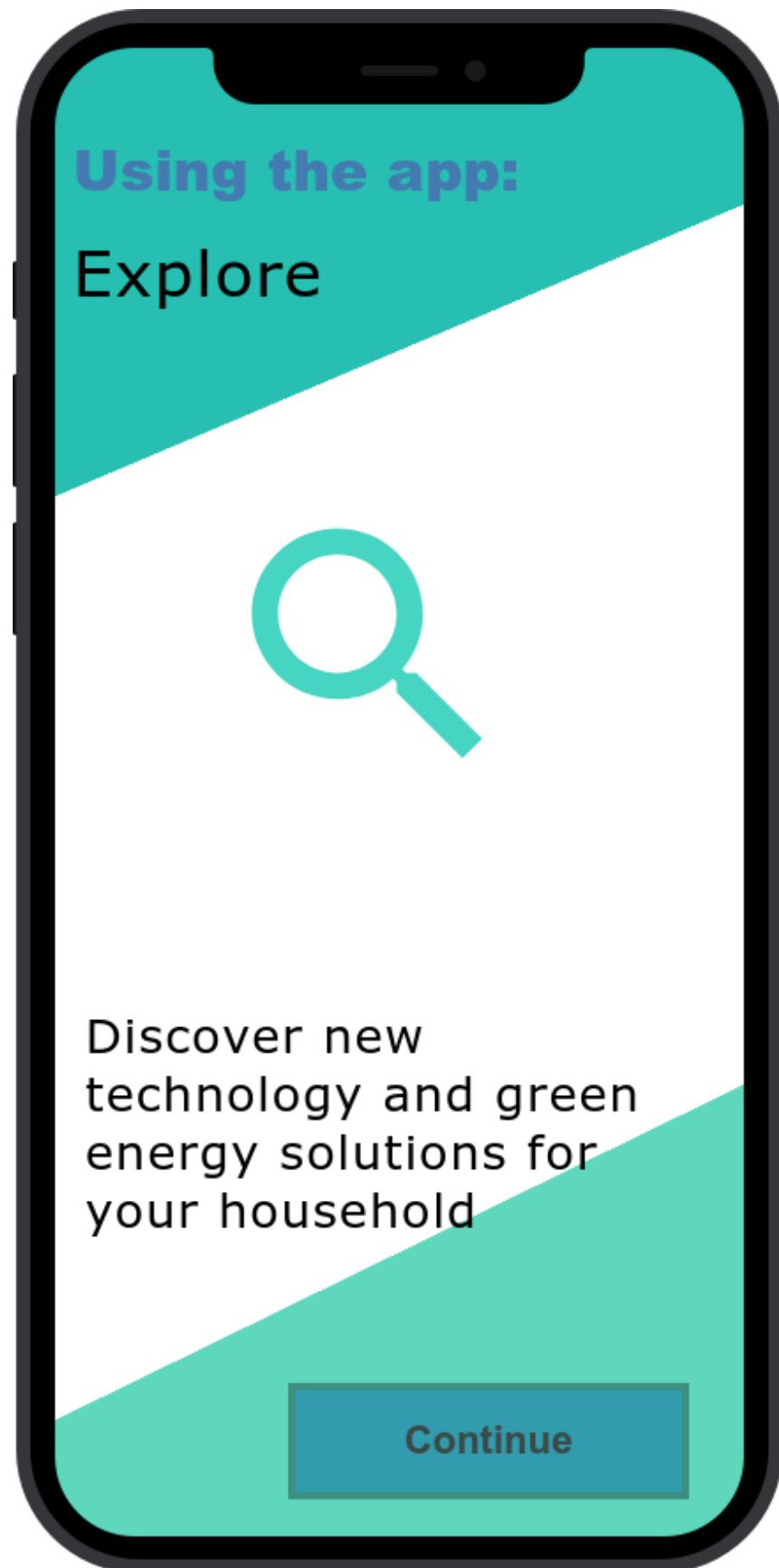


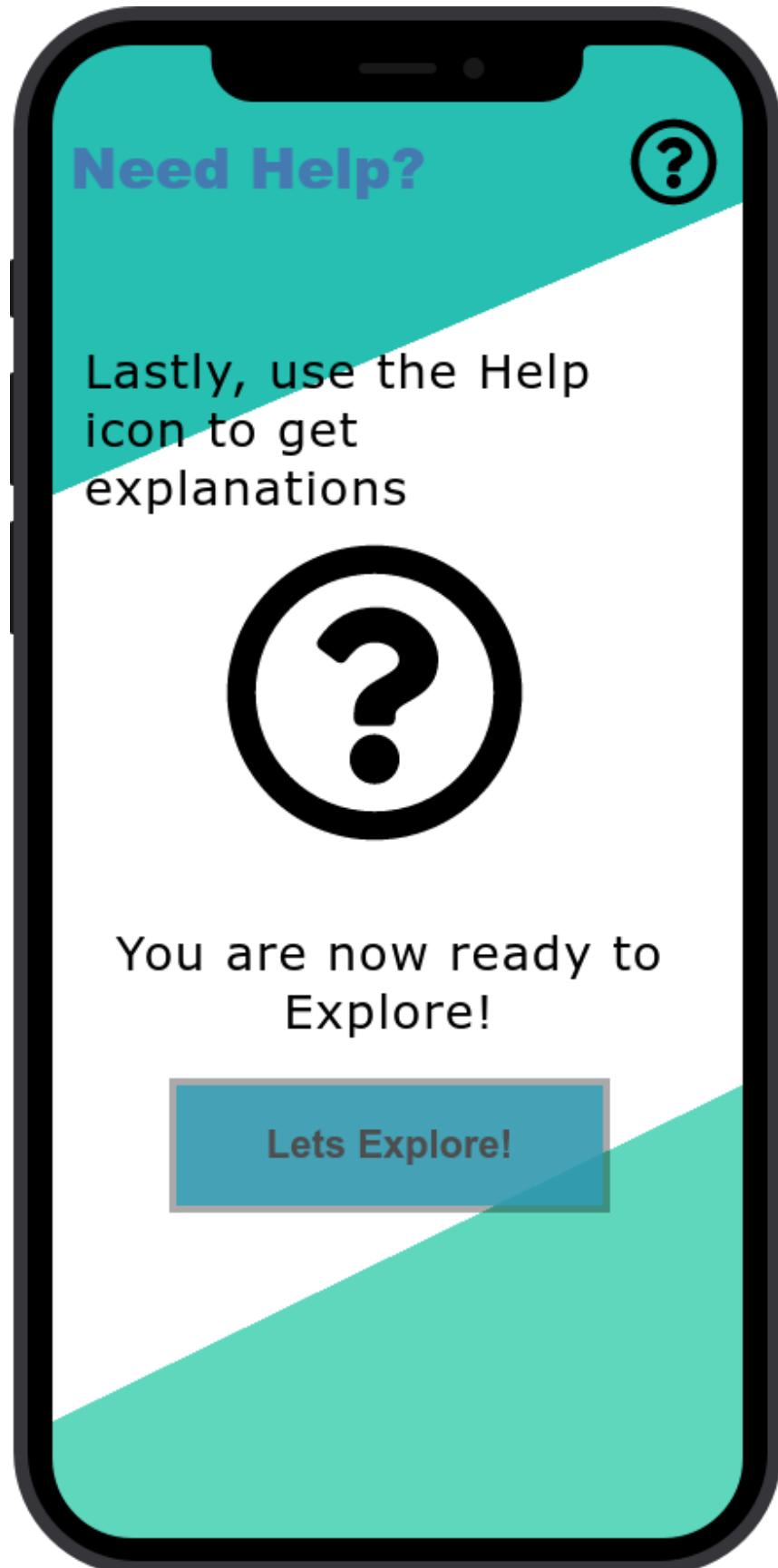


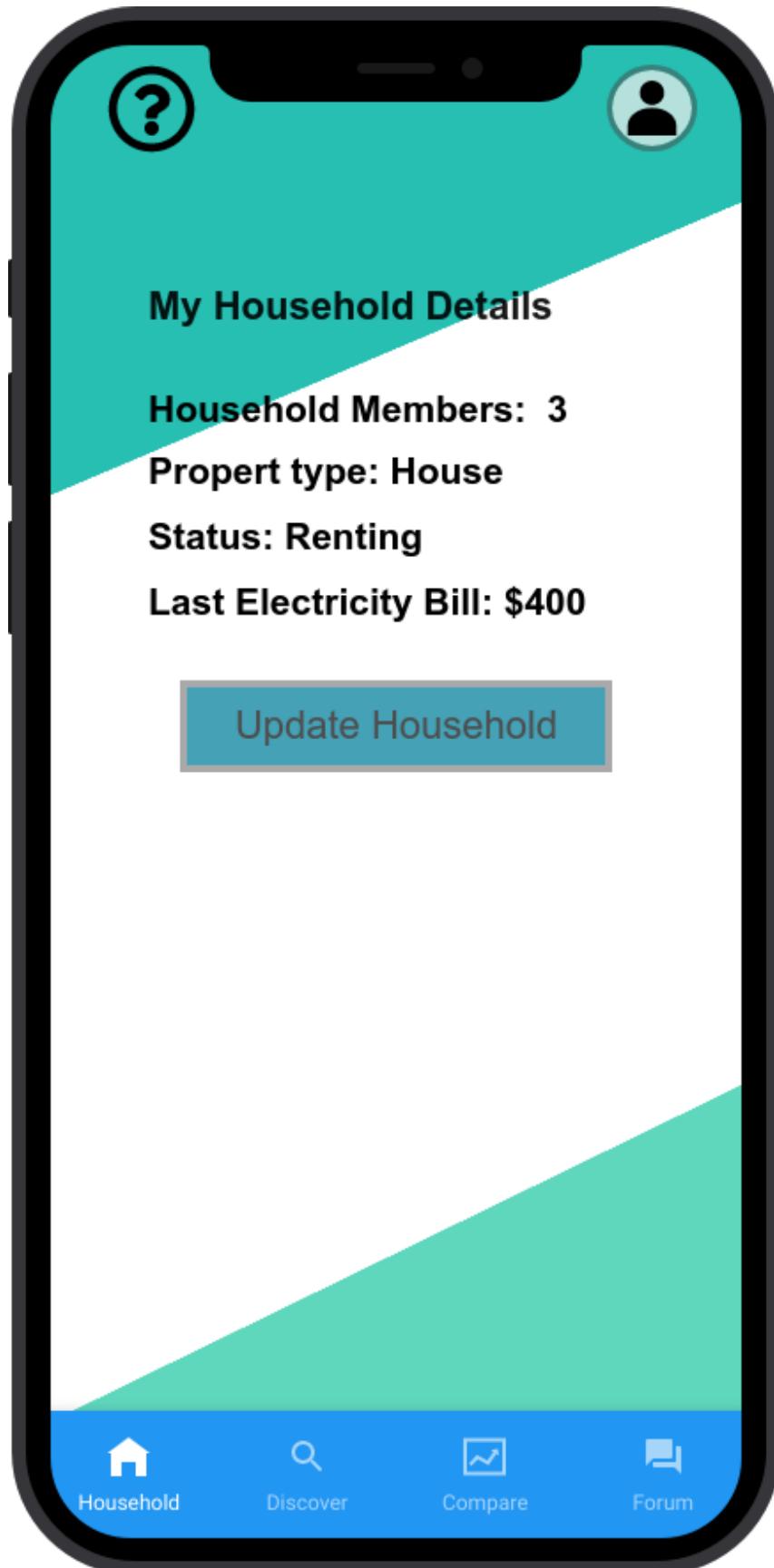


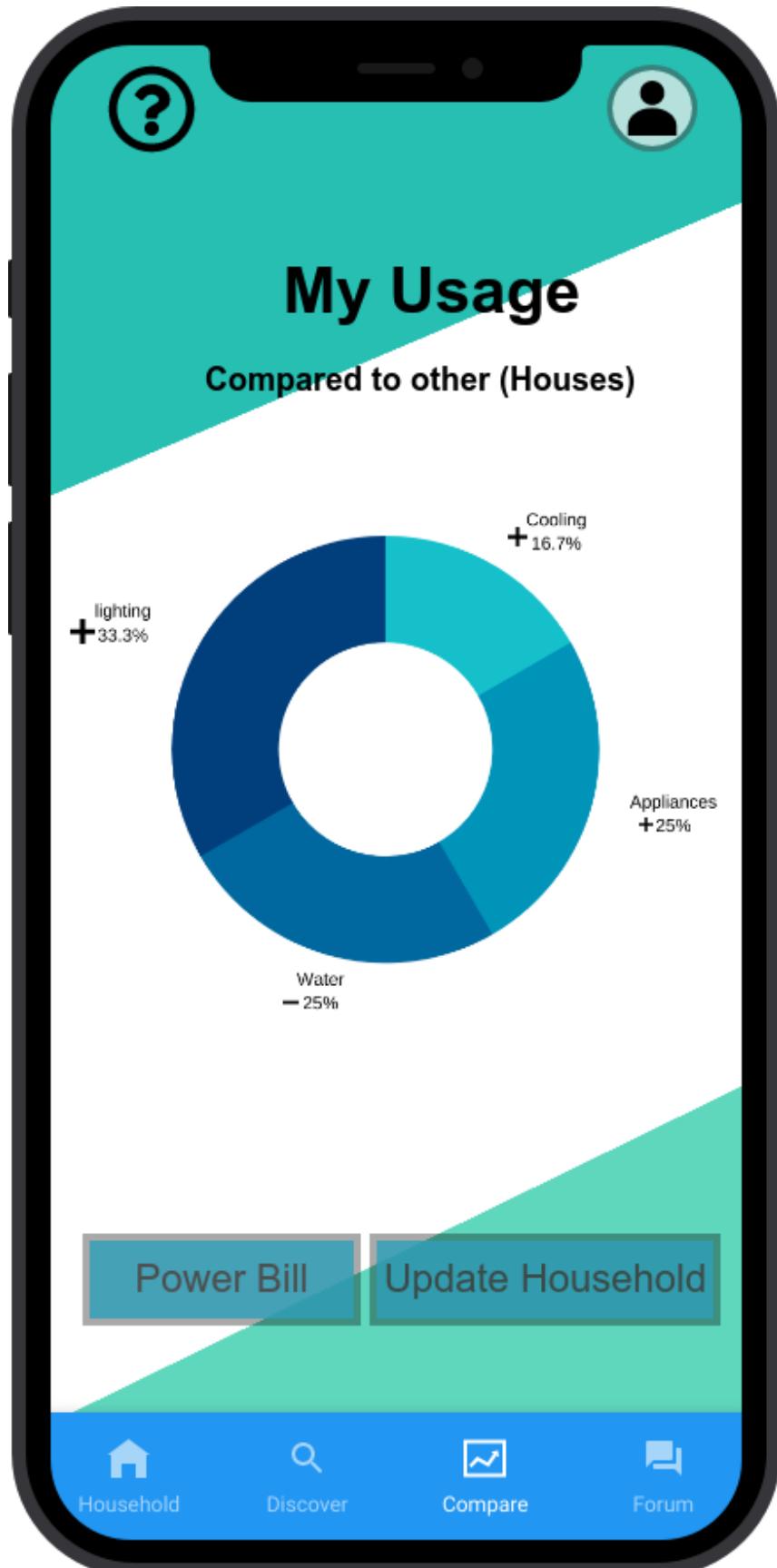


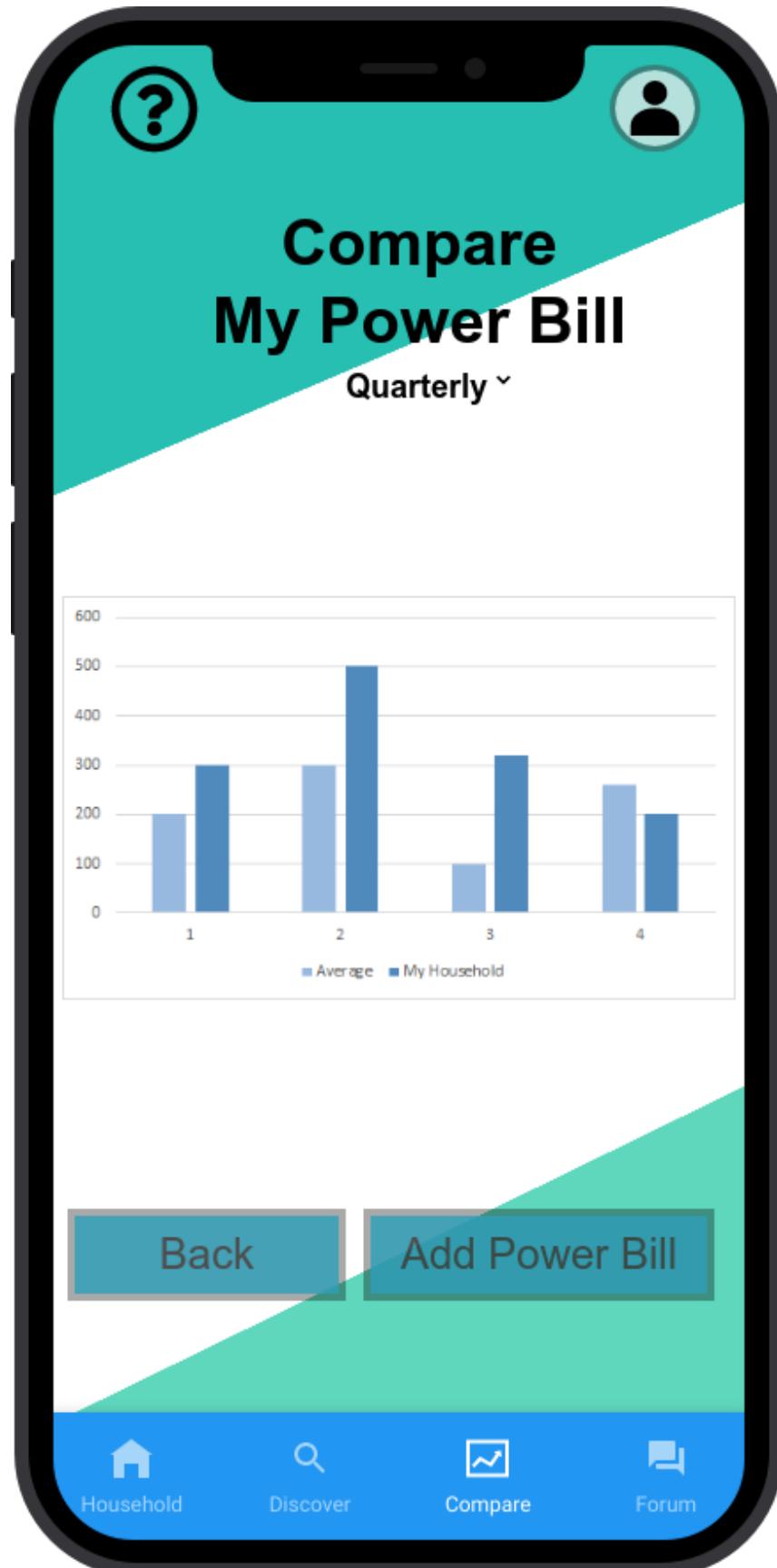












The image shows a mobile application interface for a survey. At the top left is a question mark icon, and at the top right is a user profile icon. The title "Household Details" is centered at the top. Below it is a question: "Are you an owner or a renter of the household?" followed by two radio buttons: "Owner: " and "Renter: ". Next is a question: "What best describes your dwelling?" with a dropdown menu set to "House". Below that is another question: "How many People live in the Household?" with a dropdown menu set to "3". At the bottom is a large blue button labeled "Continue". A progress bar at the bottom shows four steps, with the first step highlighted in green. The bottom navigation bar includes icons for "Household" (home), "Discover" (magnifying glass), "Compare" (chart), and "Forum" (speech bubble).

Household Details

Are you an owner or a renter of the household?

Owner: Renter:

What best describes your dwelling?

House

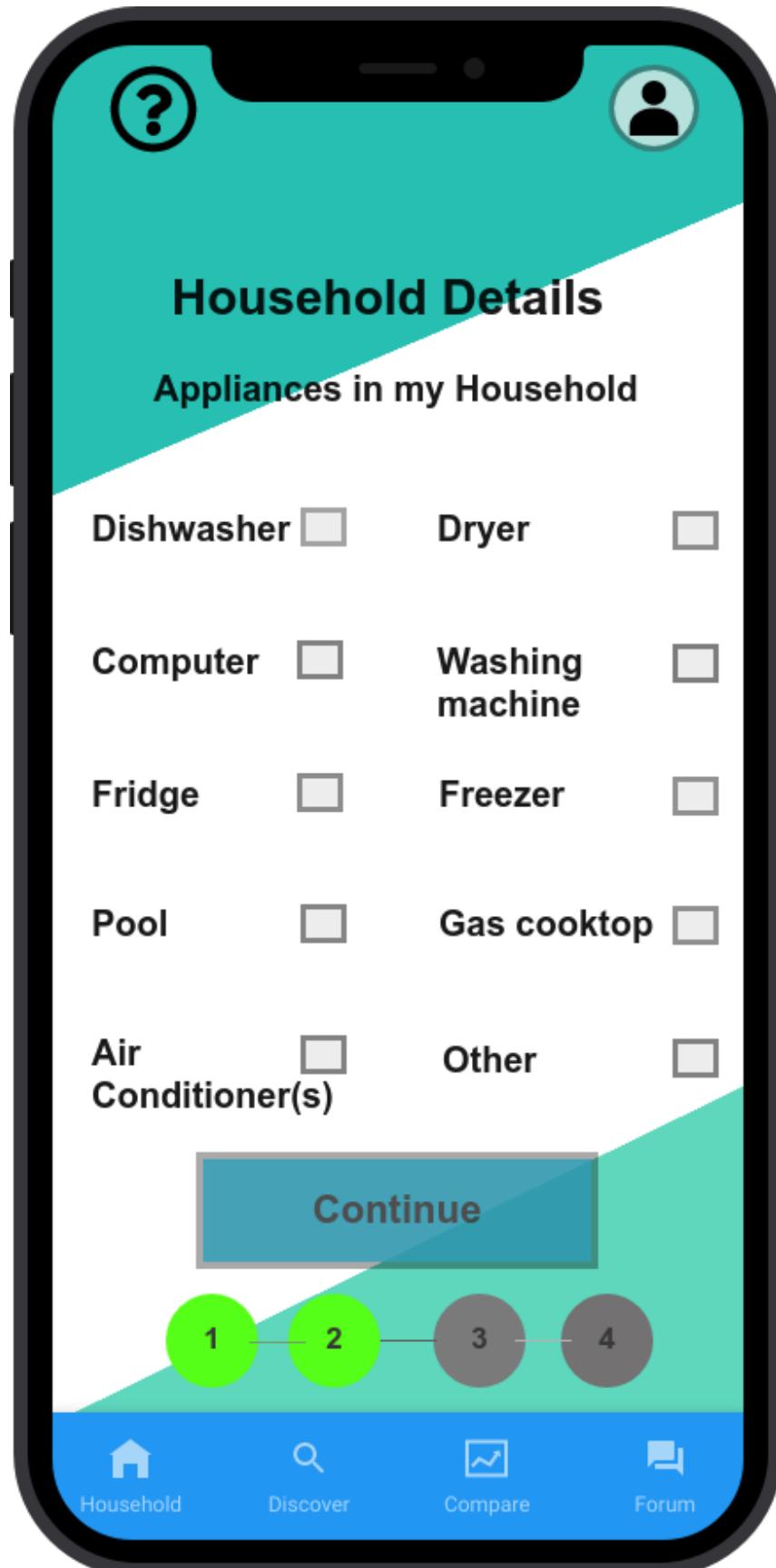
How many People live in the Household?

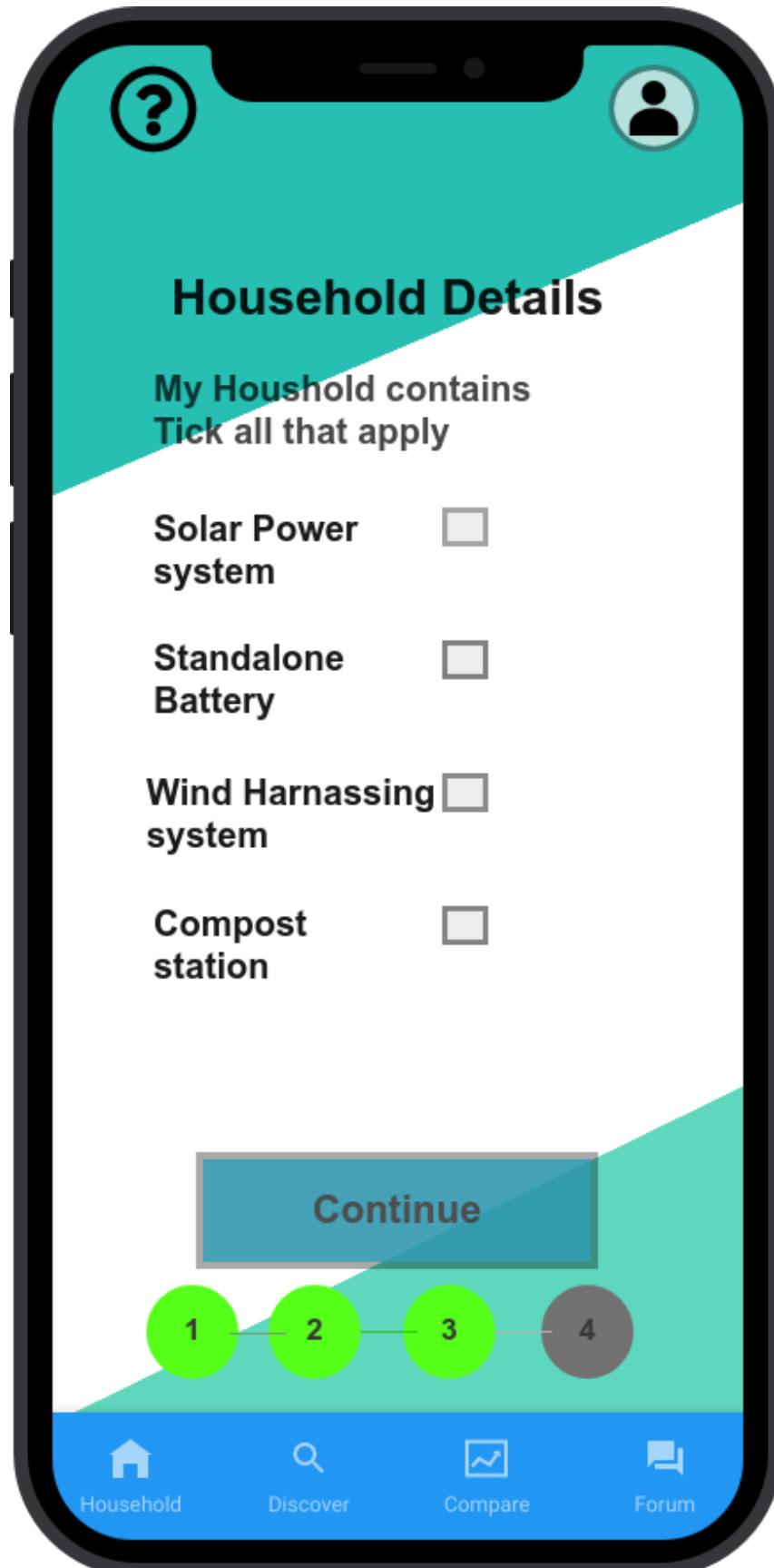
3

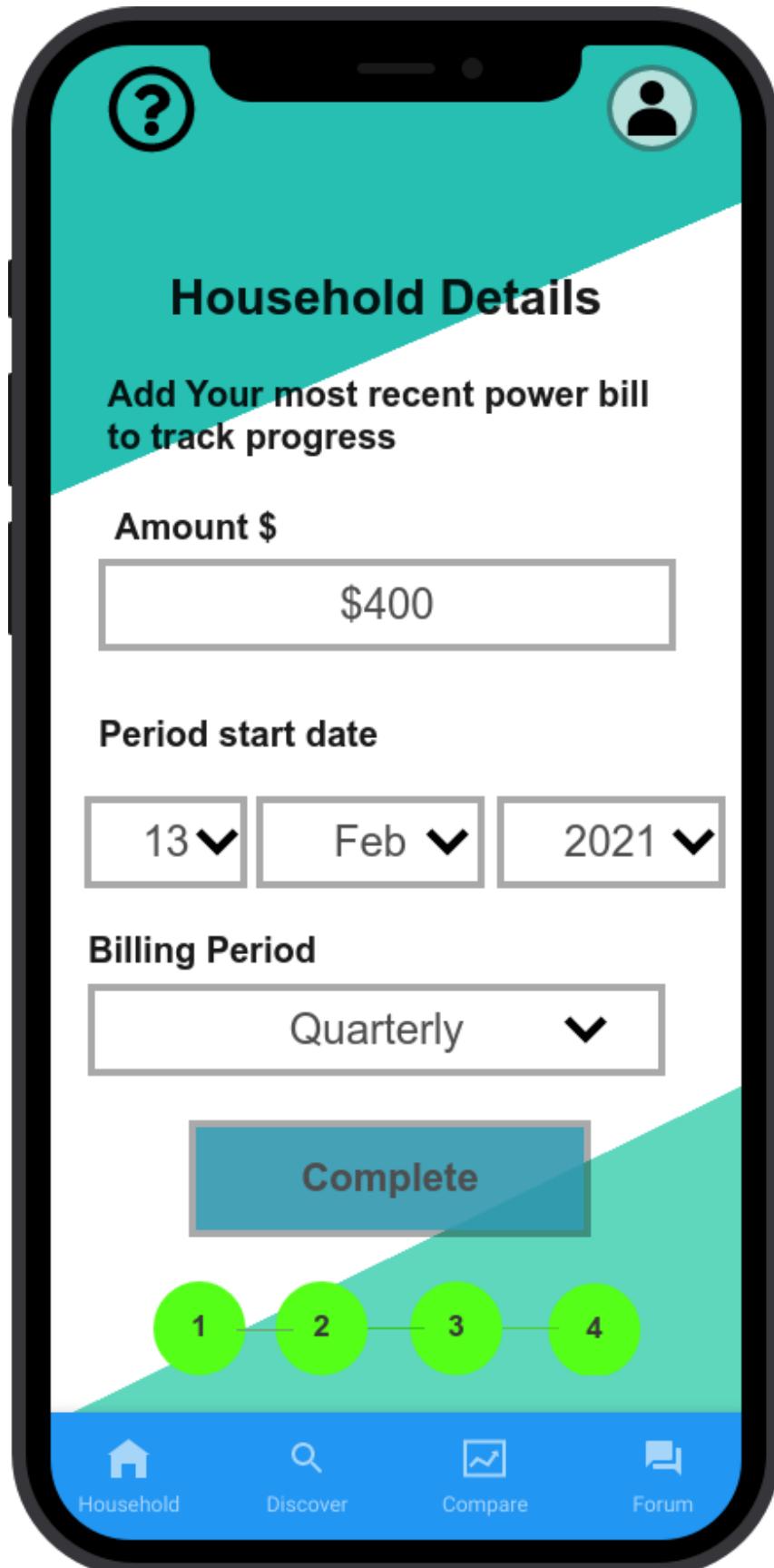
Continue

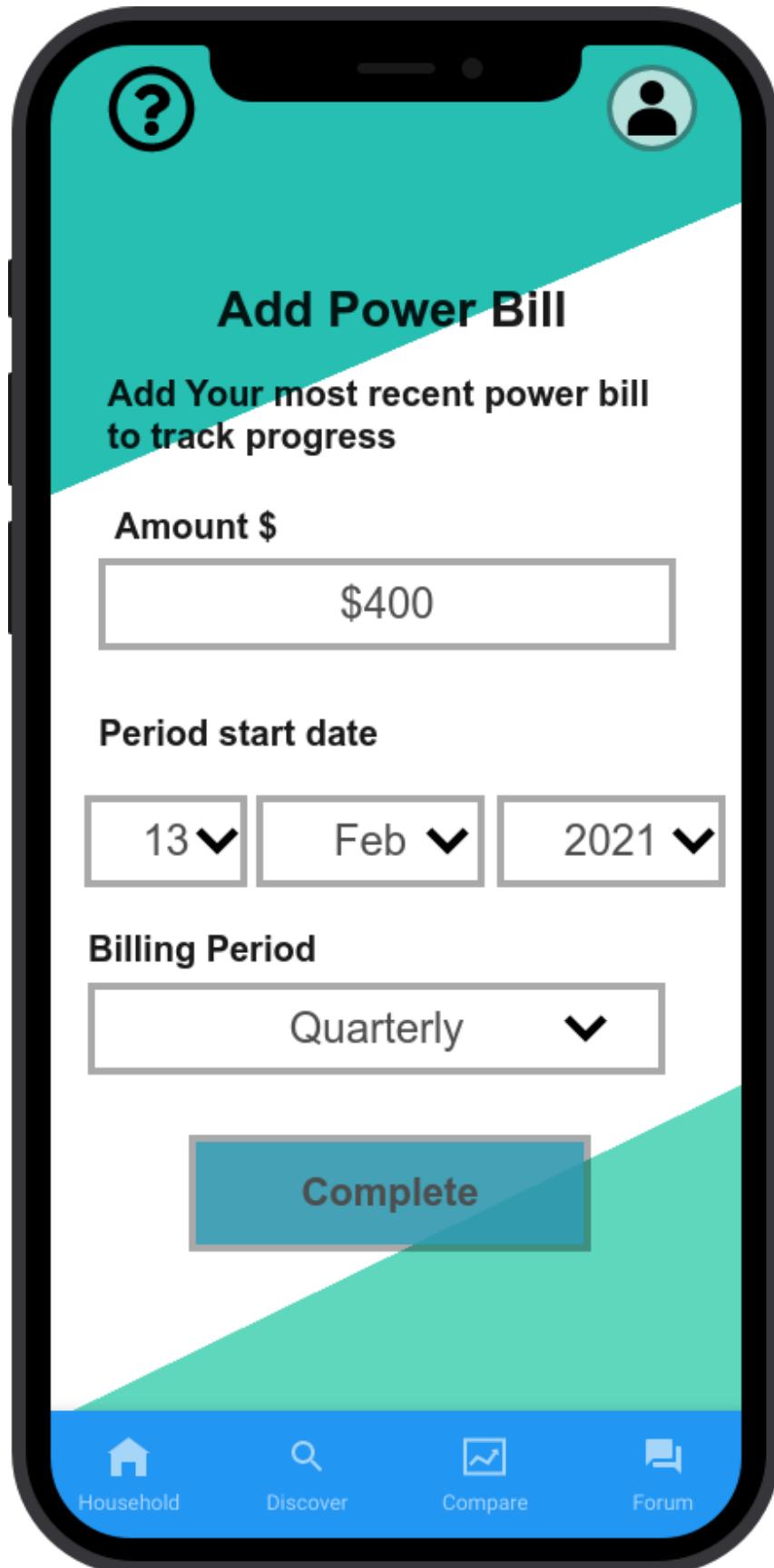
1 2 3 4

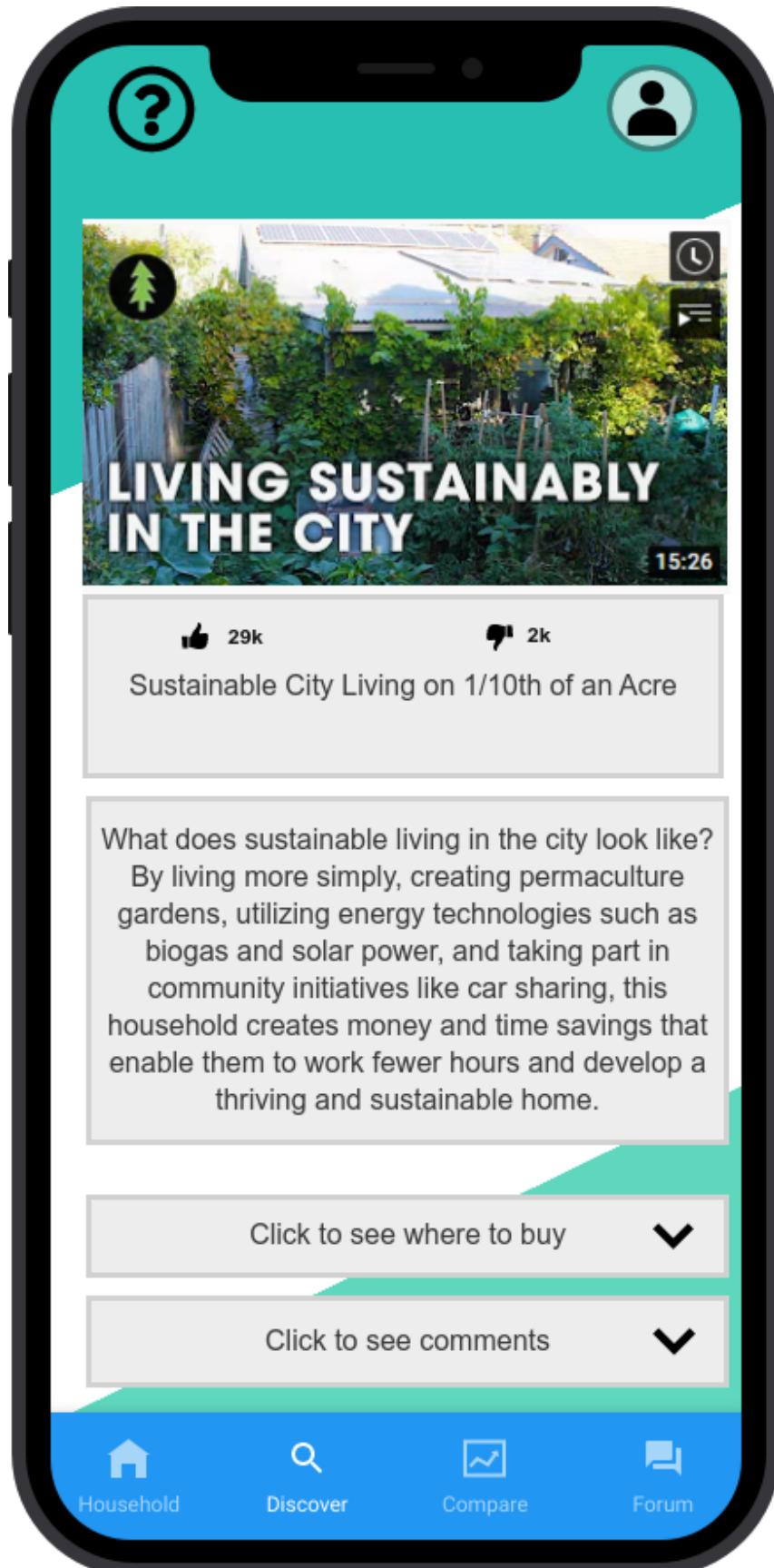
Household Discover Compare Forum

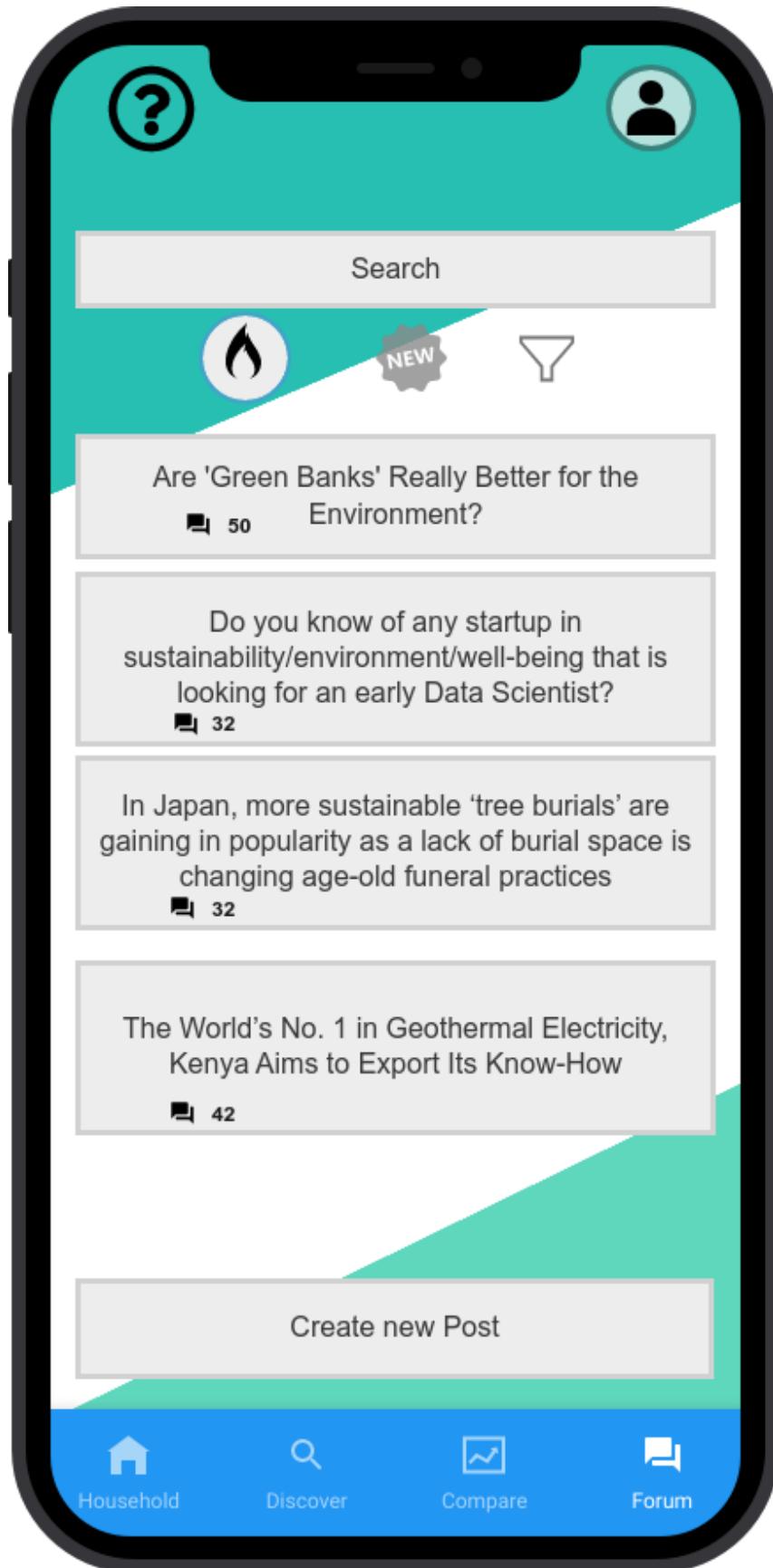




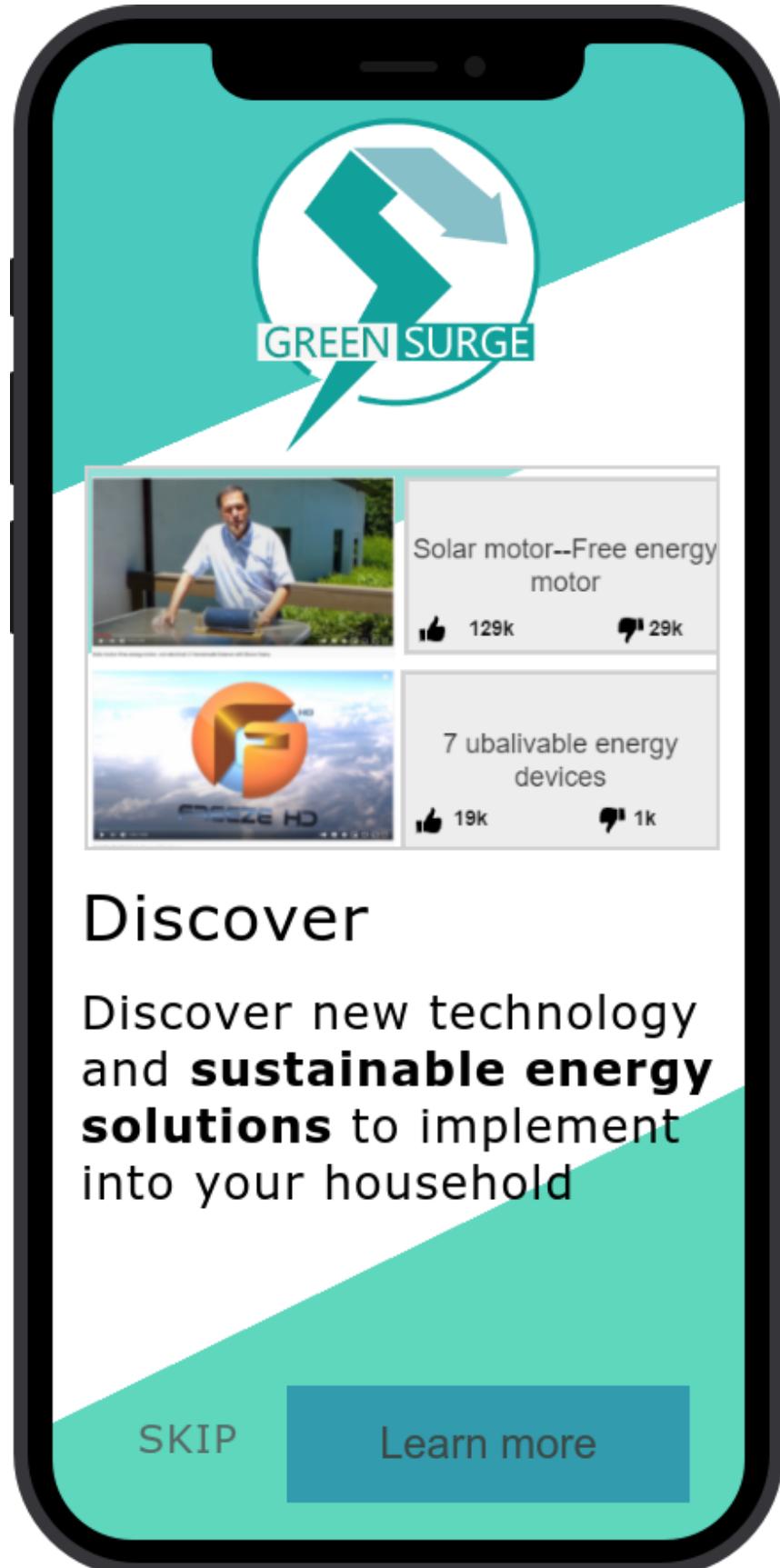








Prototype 3.0

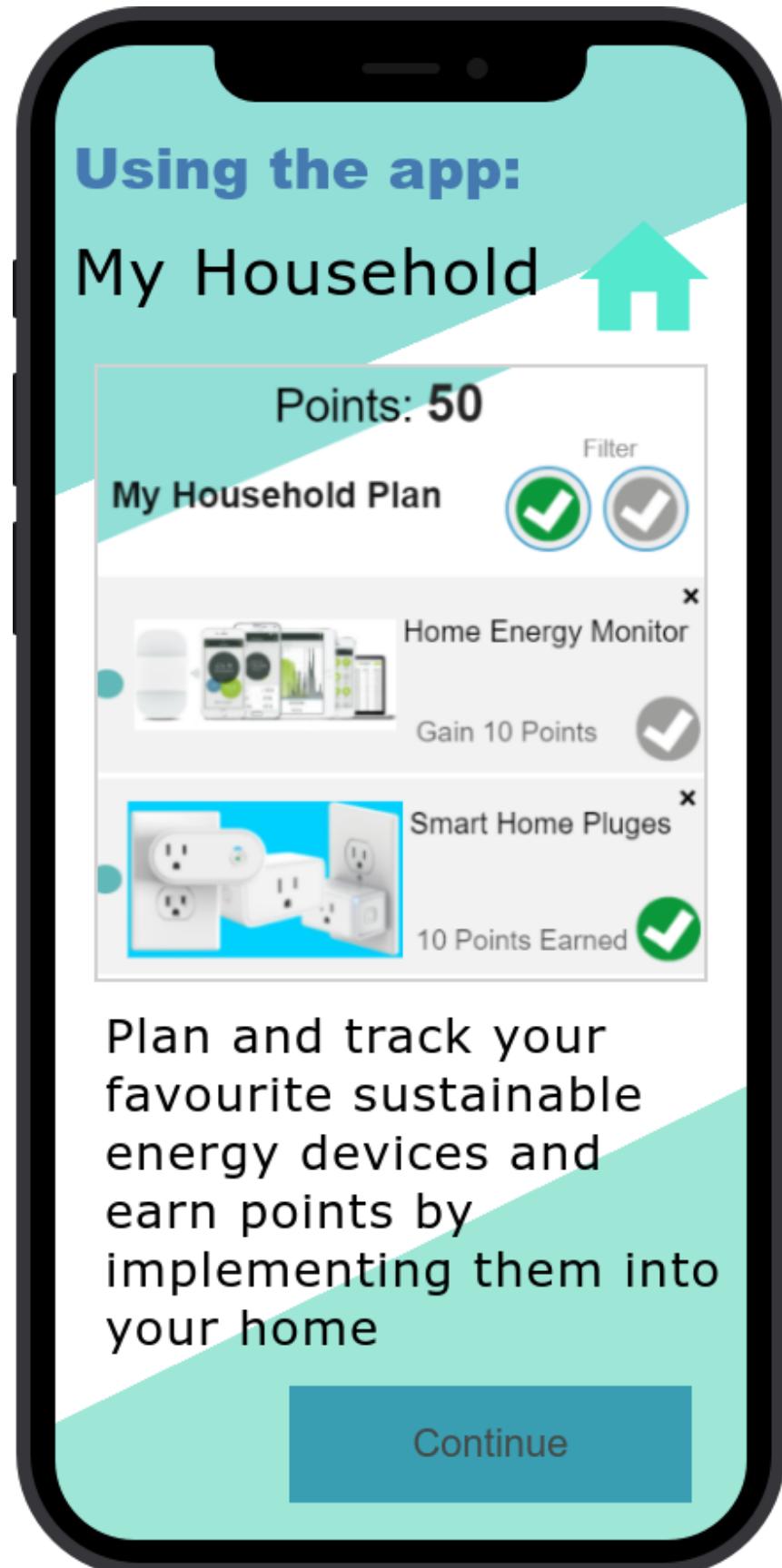


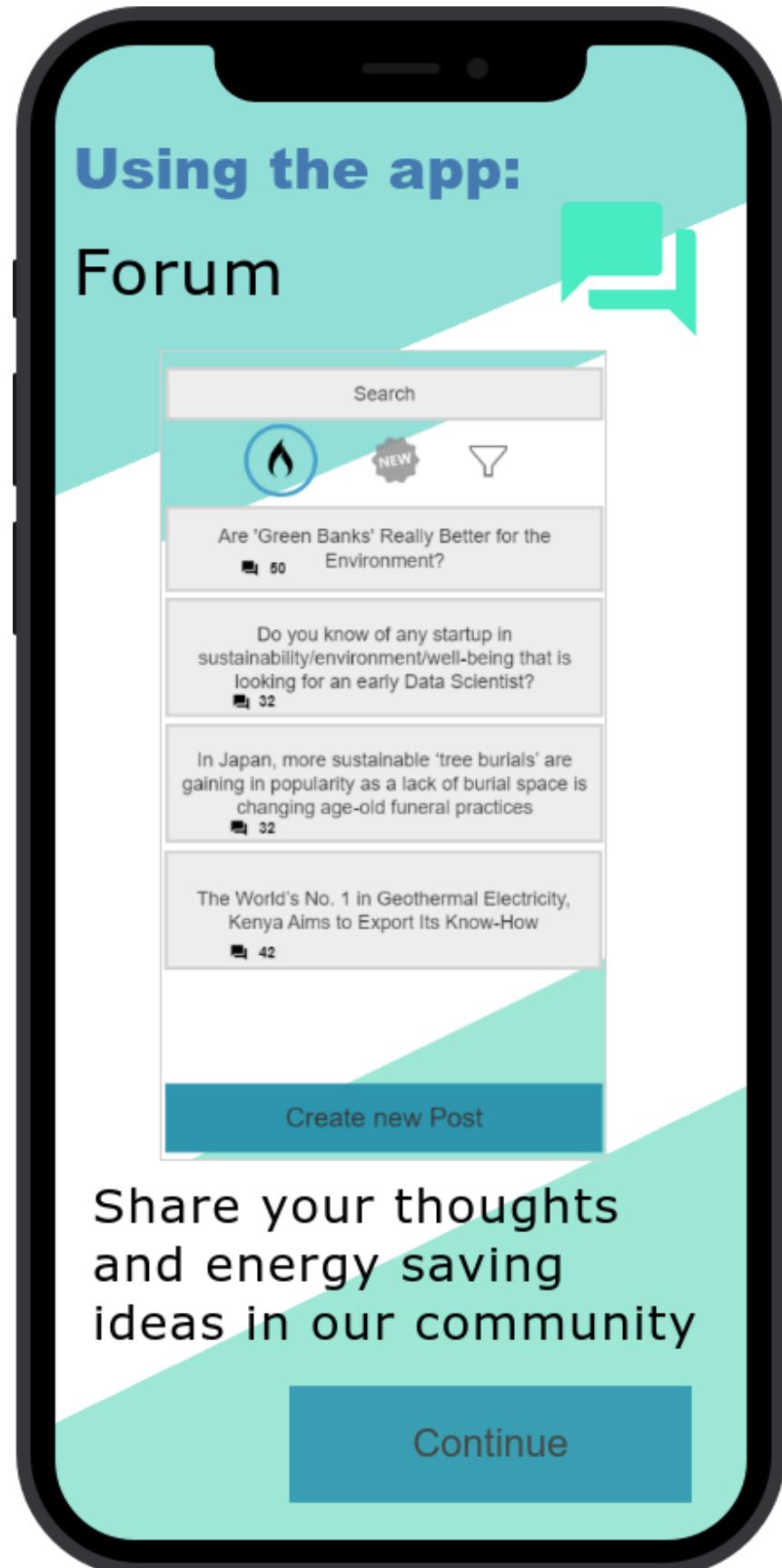
Discover

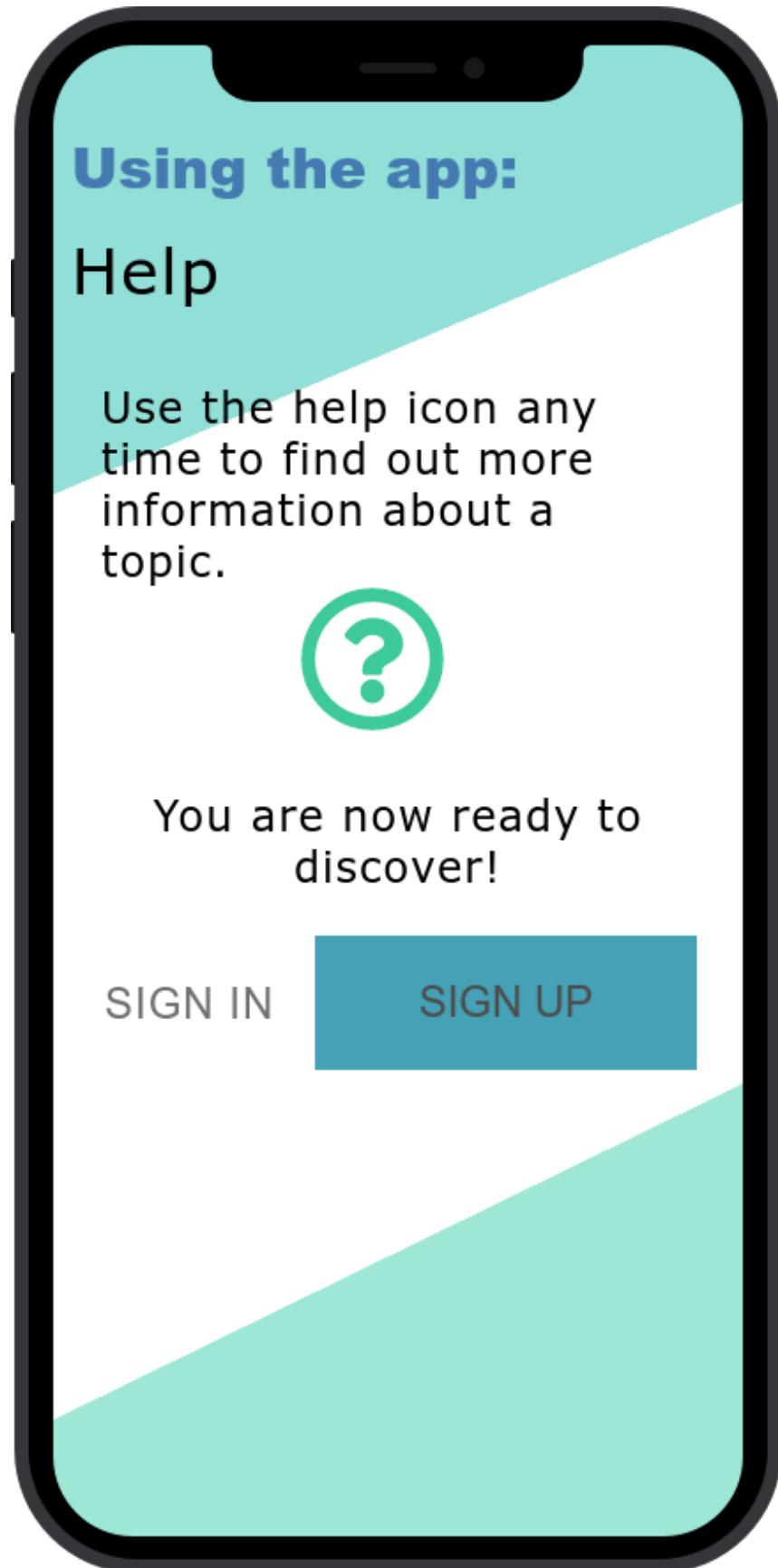
Discover new technology and **sustainable energy solutions** to implement into your household

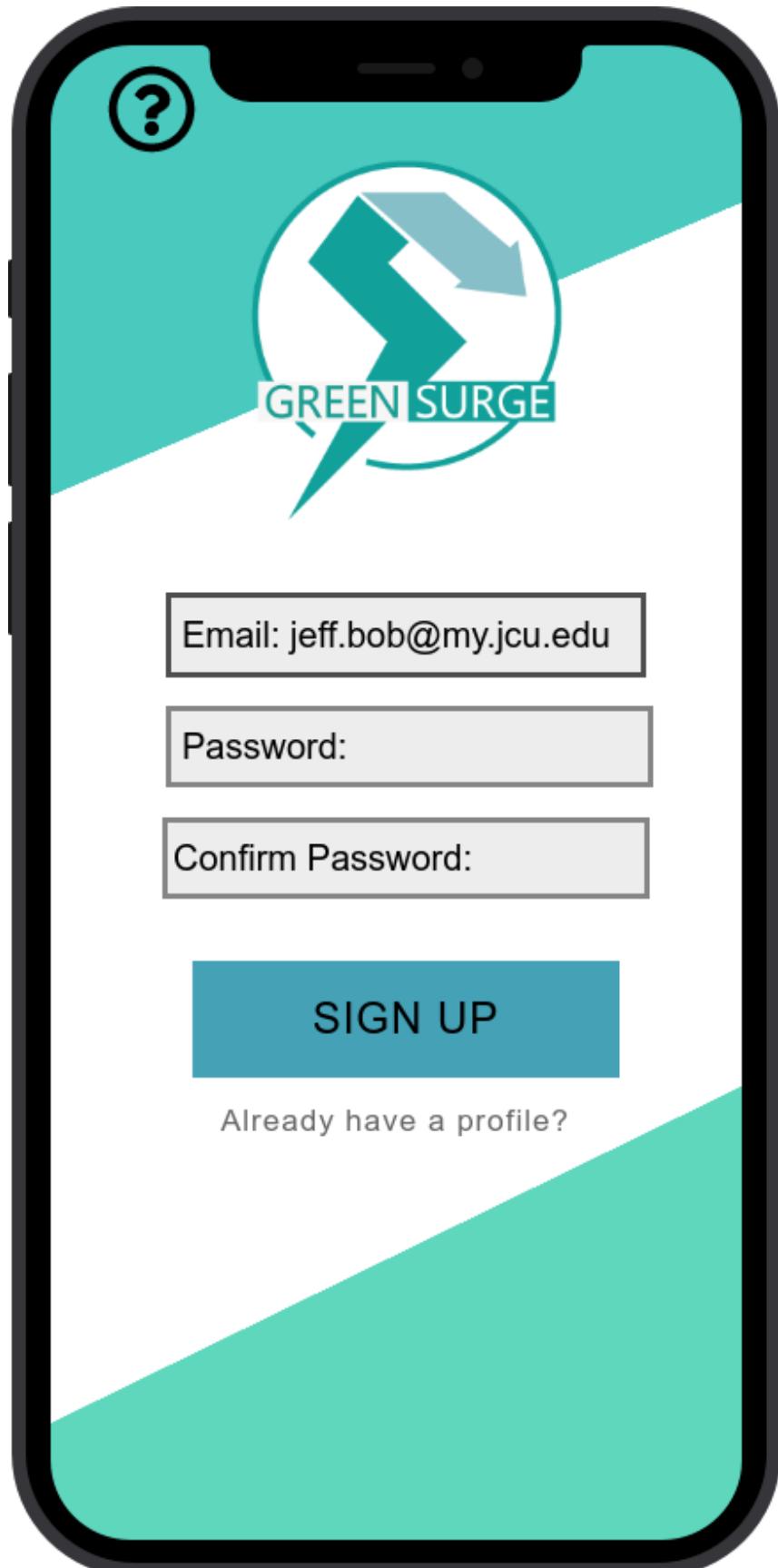
SKIP

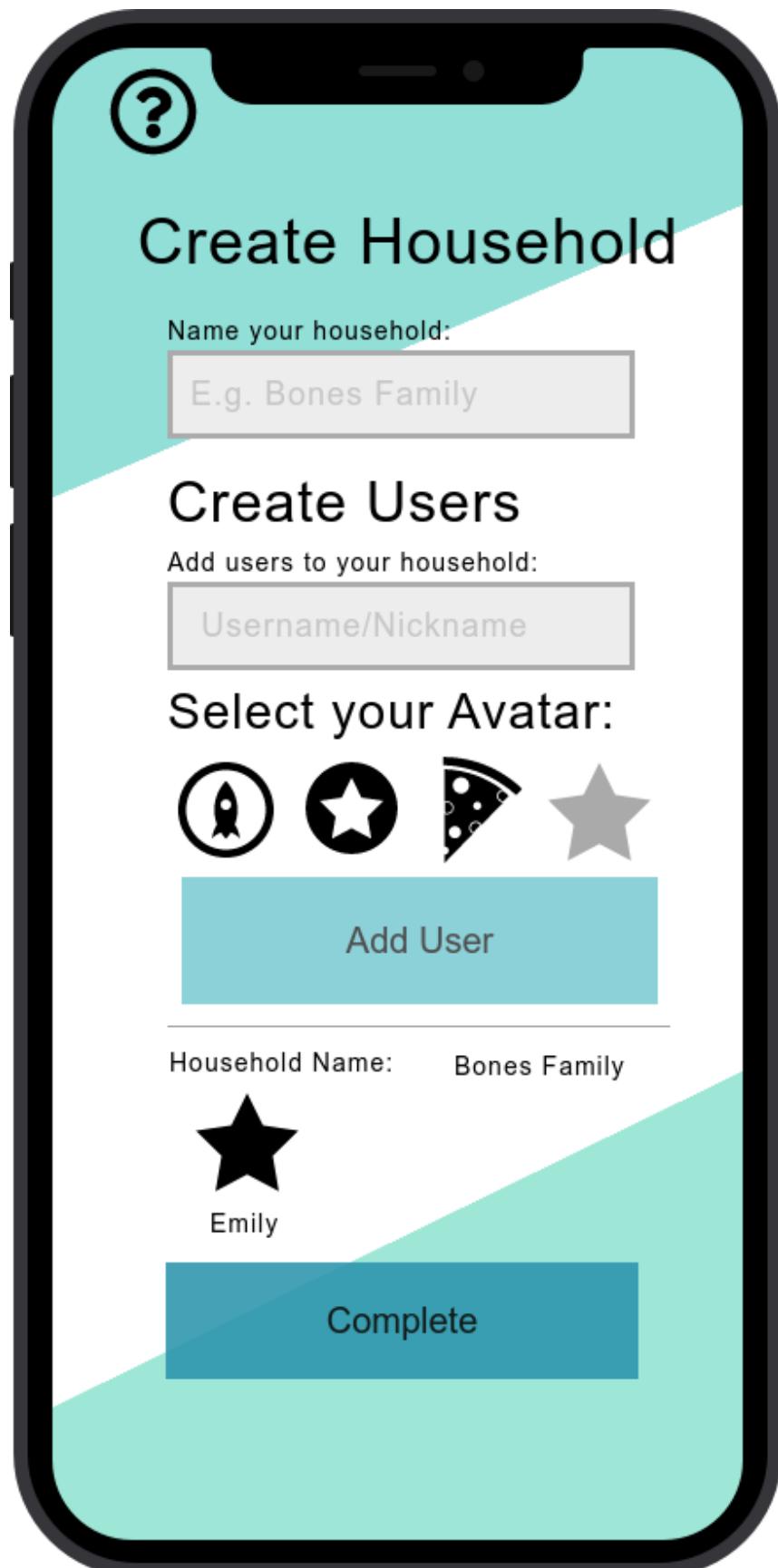
Learn more











The image shows a smartphone displaying a user interface for setting or updating household details. The screen has a light blue header and footer, and a white central content area.

Header:

- A question mark icon in a circle at the top left.
- A user profile icon in a circle at the top right.

Main Content Area:

Household Details

Are you the owner or a renter of the property?

Owner: Renter:

What best describes your dwelling?

House ▼

How many People live in the Household?

3 ▼

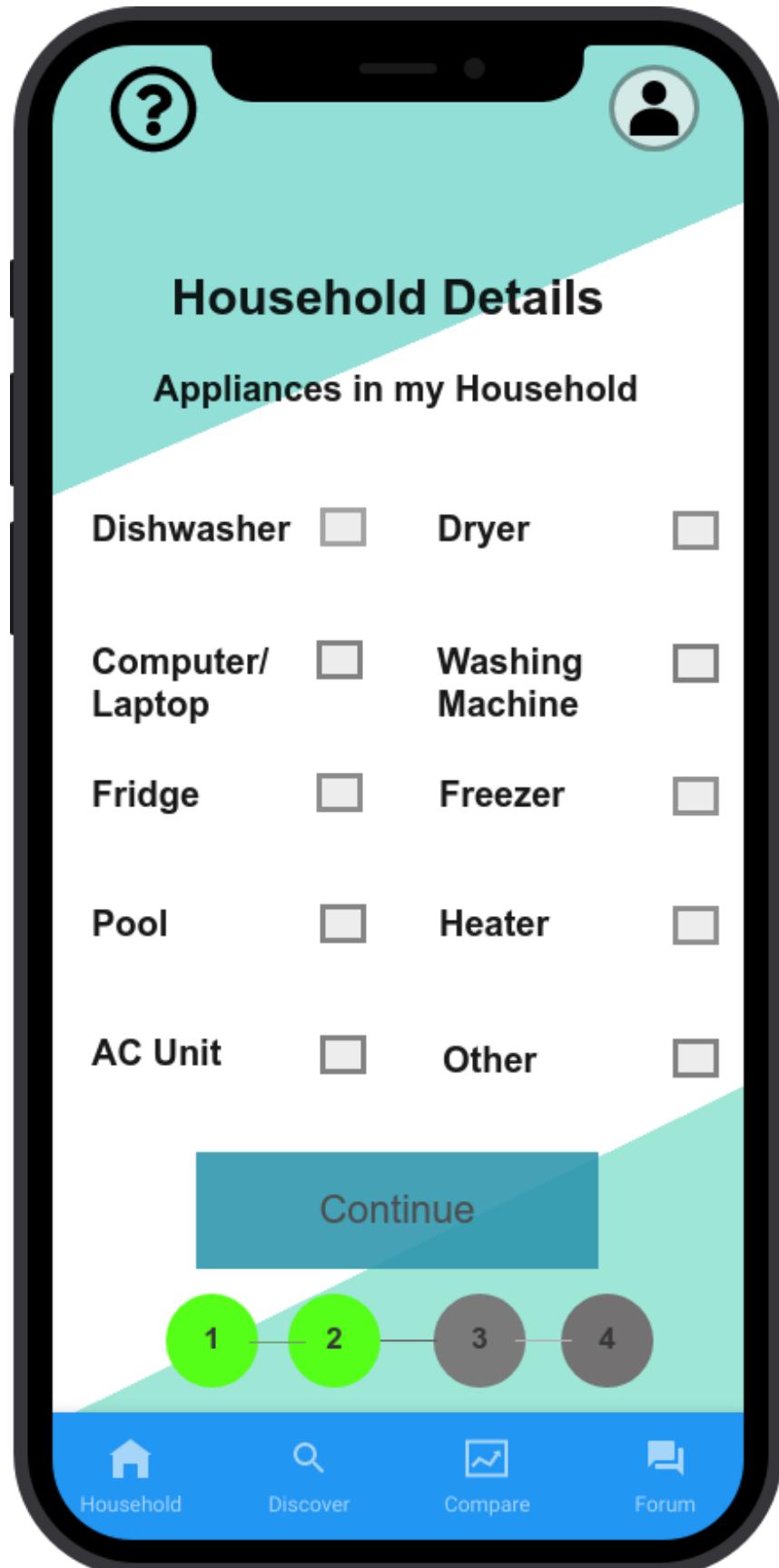
Footer:

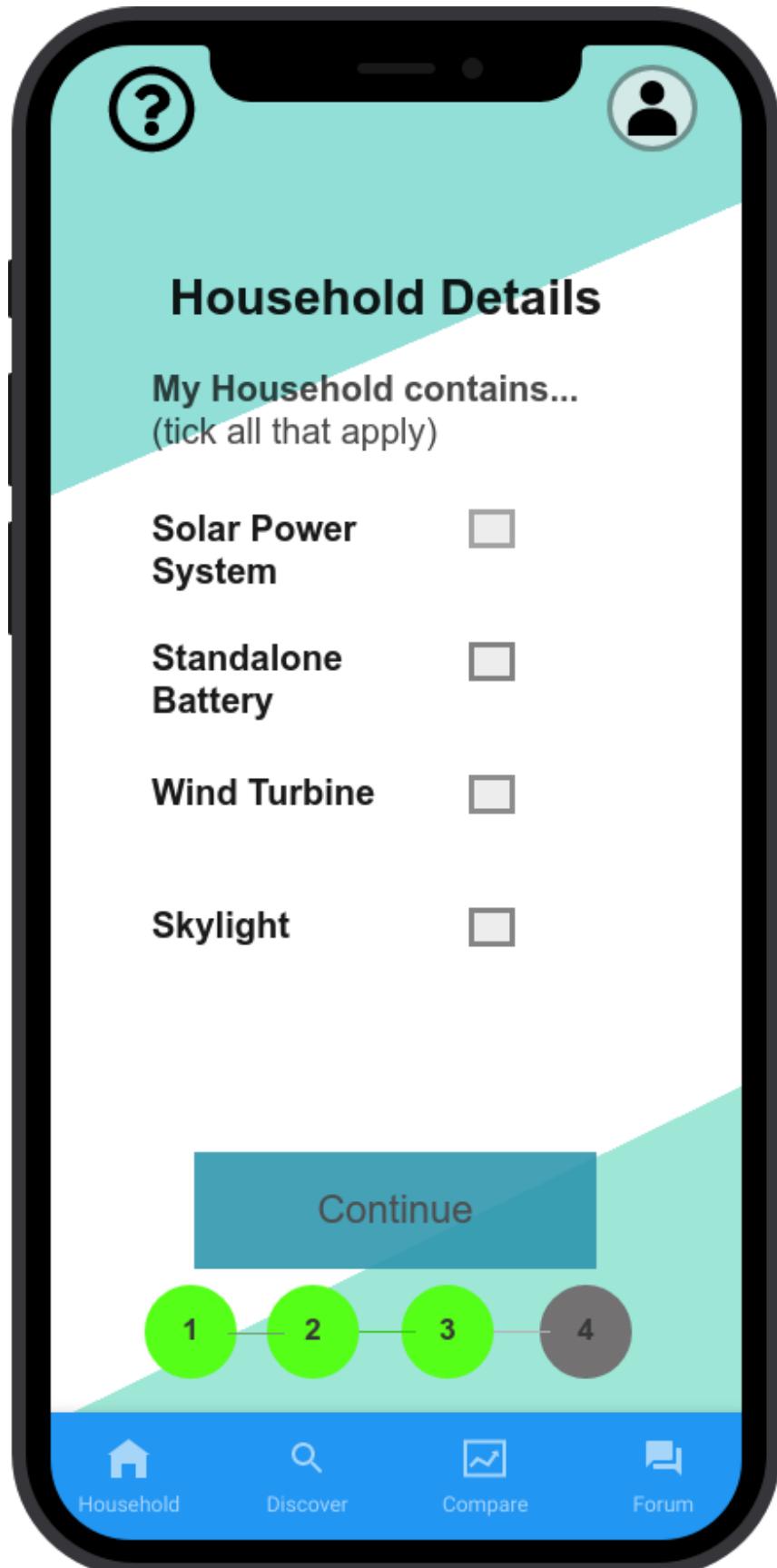
Continue ▼

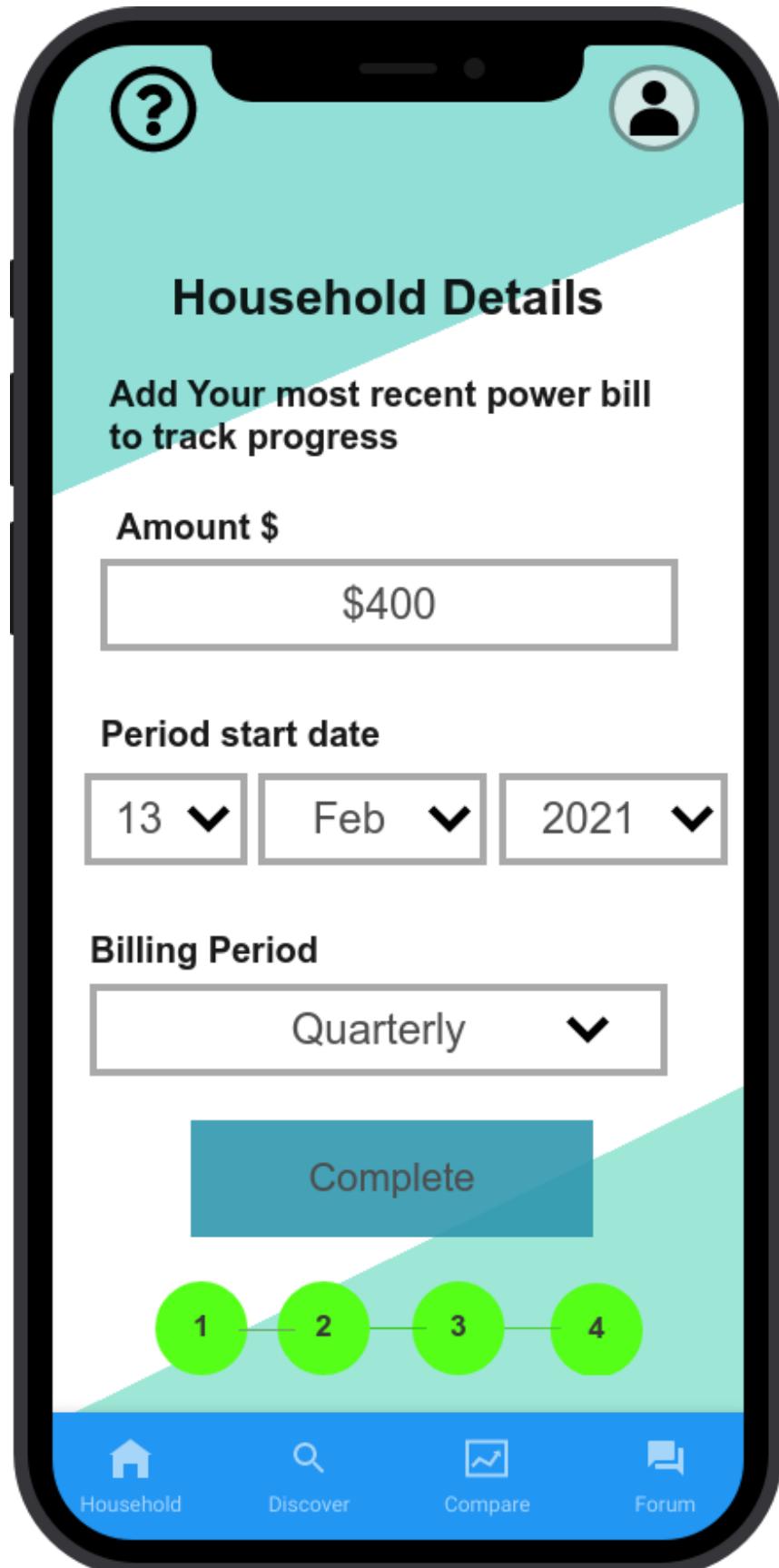
1 2 3 4

Bottom Navigation Bar:

- Household (Home icon)
- Discover (Search icon)
- Compare (Graph icon)
- Forum (Speech bubble icon)



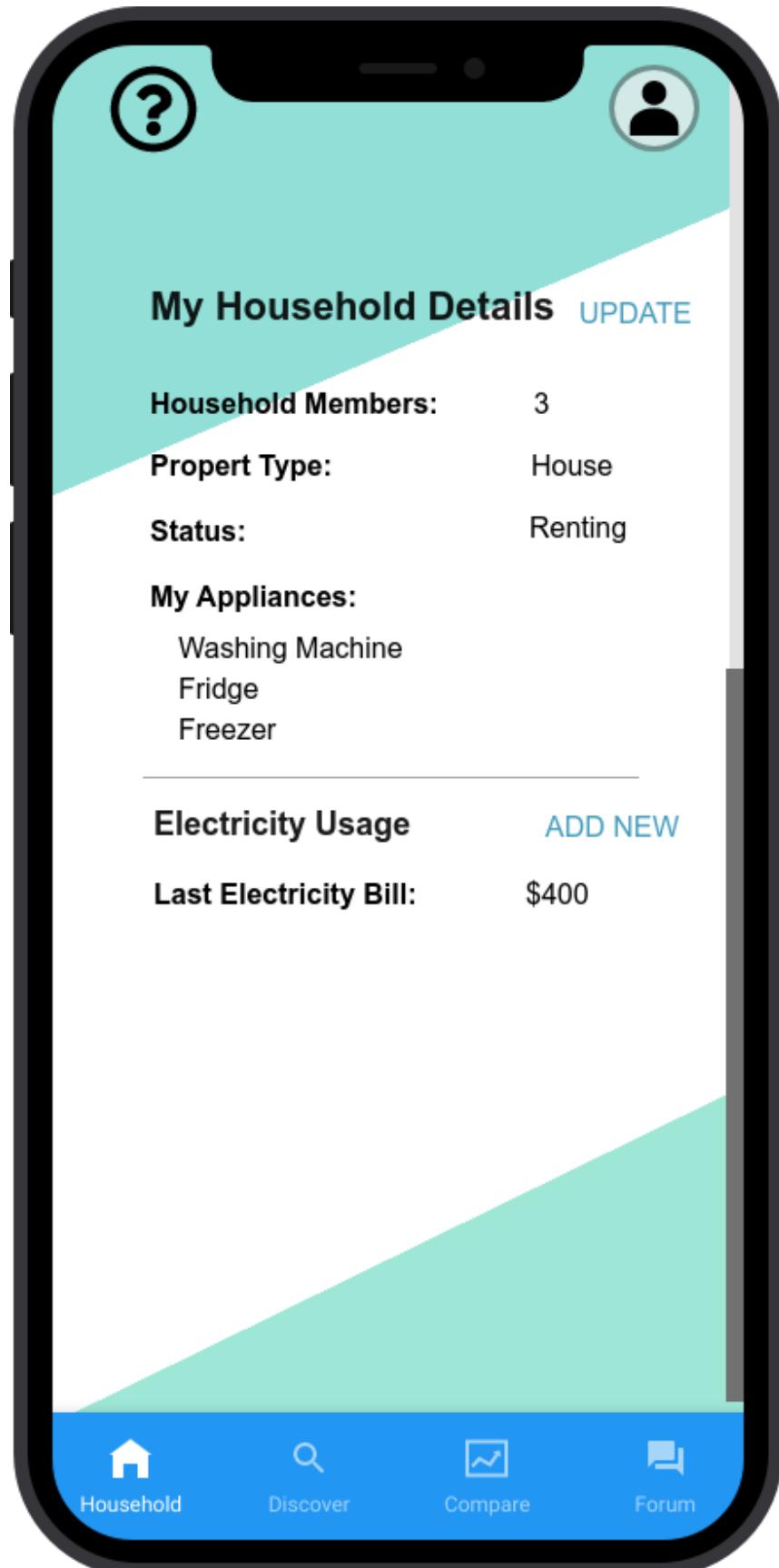


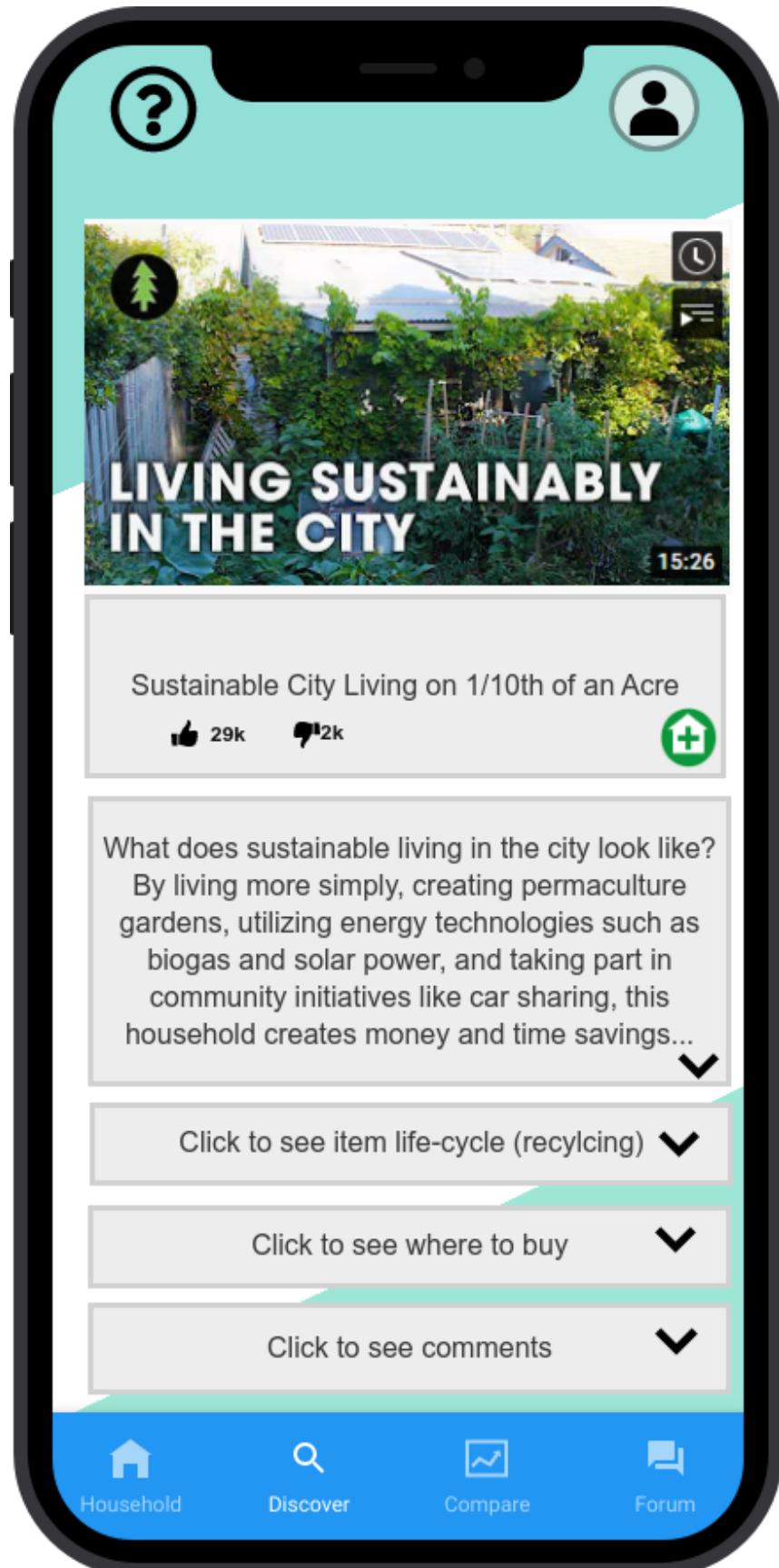












The image shows a mobile application interface titled "Compare My Household". At the top left is a question mark icon, and at the top right is a user profile icon. The main title "Compare My Household" is centered above a "Leaderboard" section. The leaderboard table has columns for Rank, Household, and Points:

Rank	Household	Points
1	Pumpkin Gang	105
2	Saint Nicolas	95
3	Tickled_pink	82

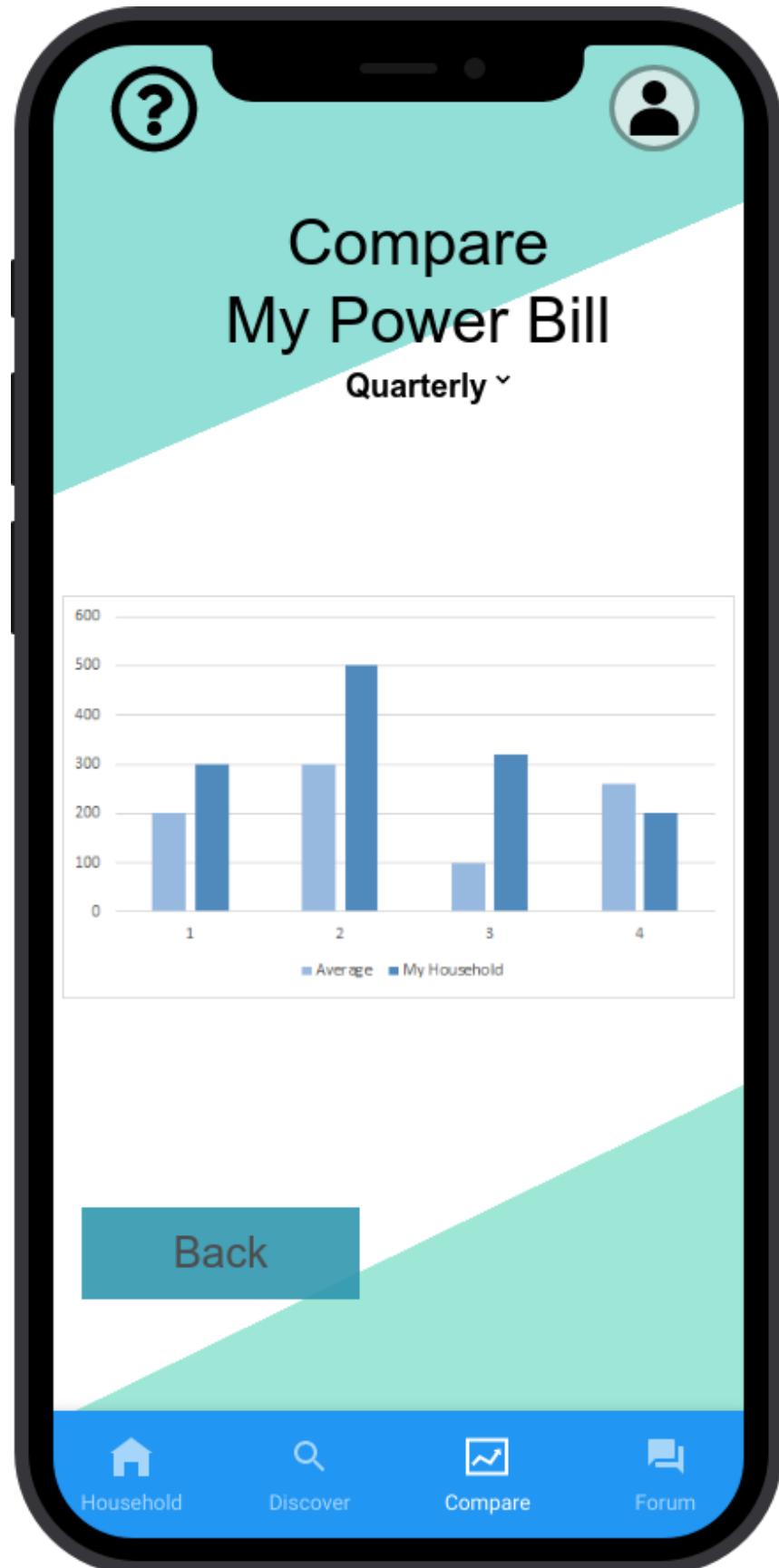
A downward arrow indicates more data is available. Below the leaderboard is a section titled "My Position" with a single entry:

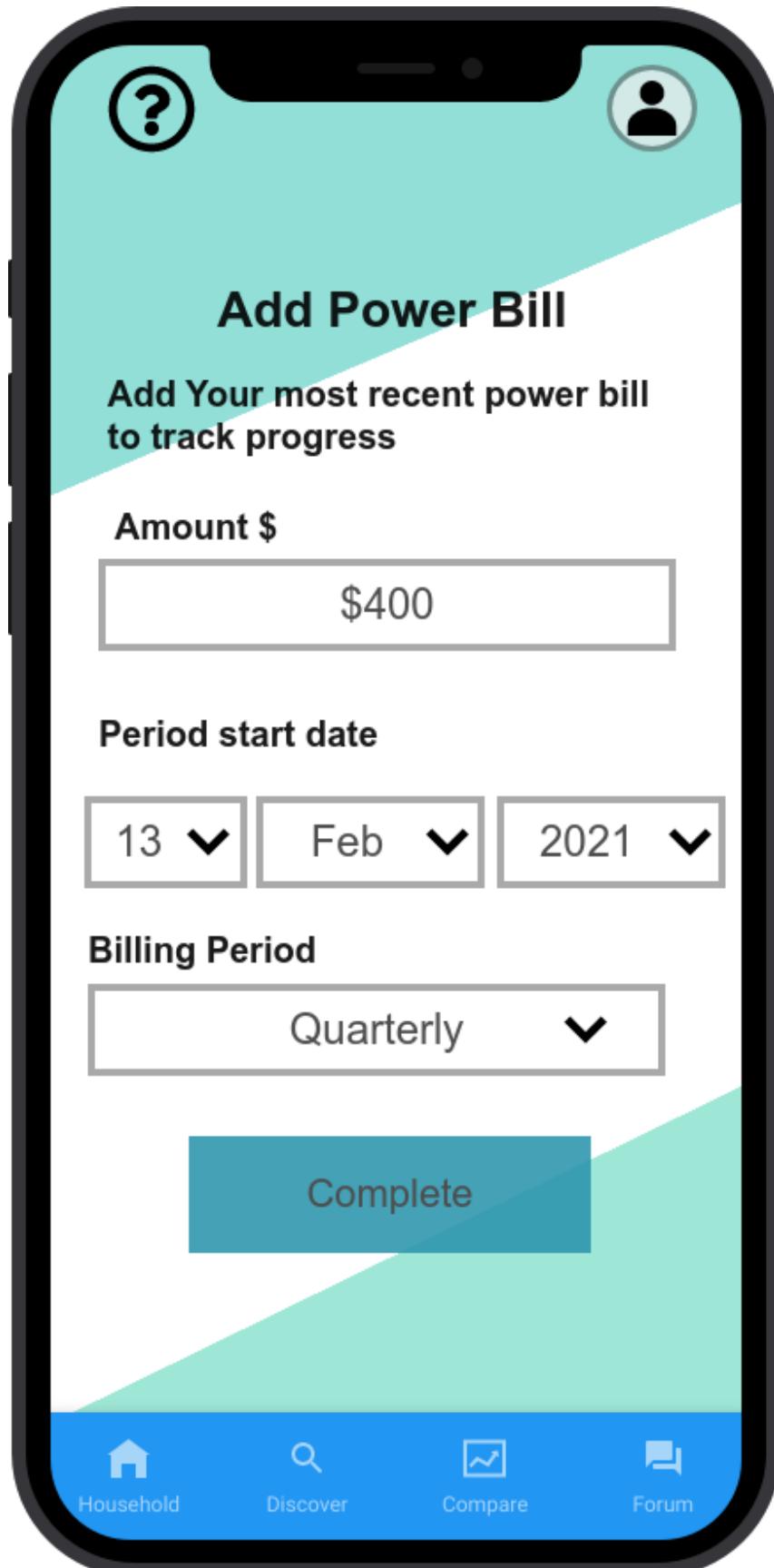
Rank	Household	Points
29	Awsome_person	50

Below this are two bar charts. The first chart, titled "My Points", shows three bars with values 20, 40, and 60. The second chart, titled "Average Household Points", shows one bar with a value of 50. The background features a light teal diagonal gradient.

At the bottom is a blue navigation bar with four items: "Household" (selected), "Discover", "Compare", and "Forum".







Discover

Suggestions

Solar motor--Free energy motor
129k 29k +

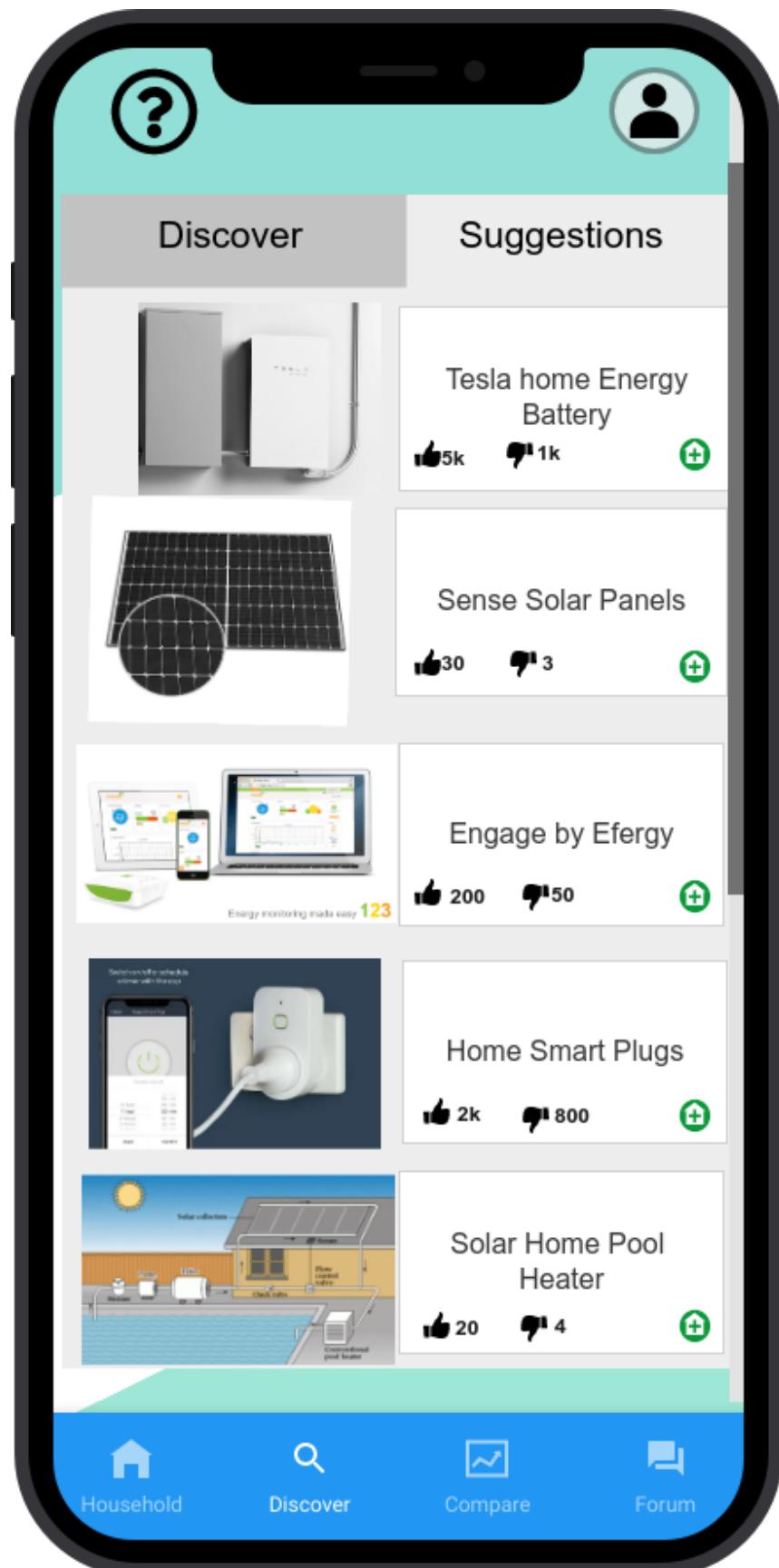
7 ubalivable energy devices
19k 1k +

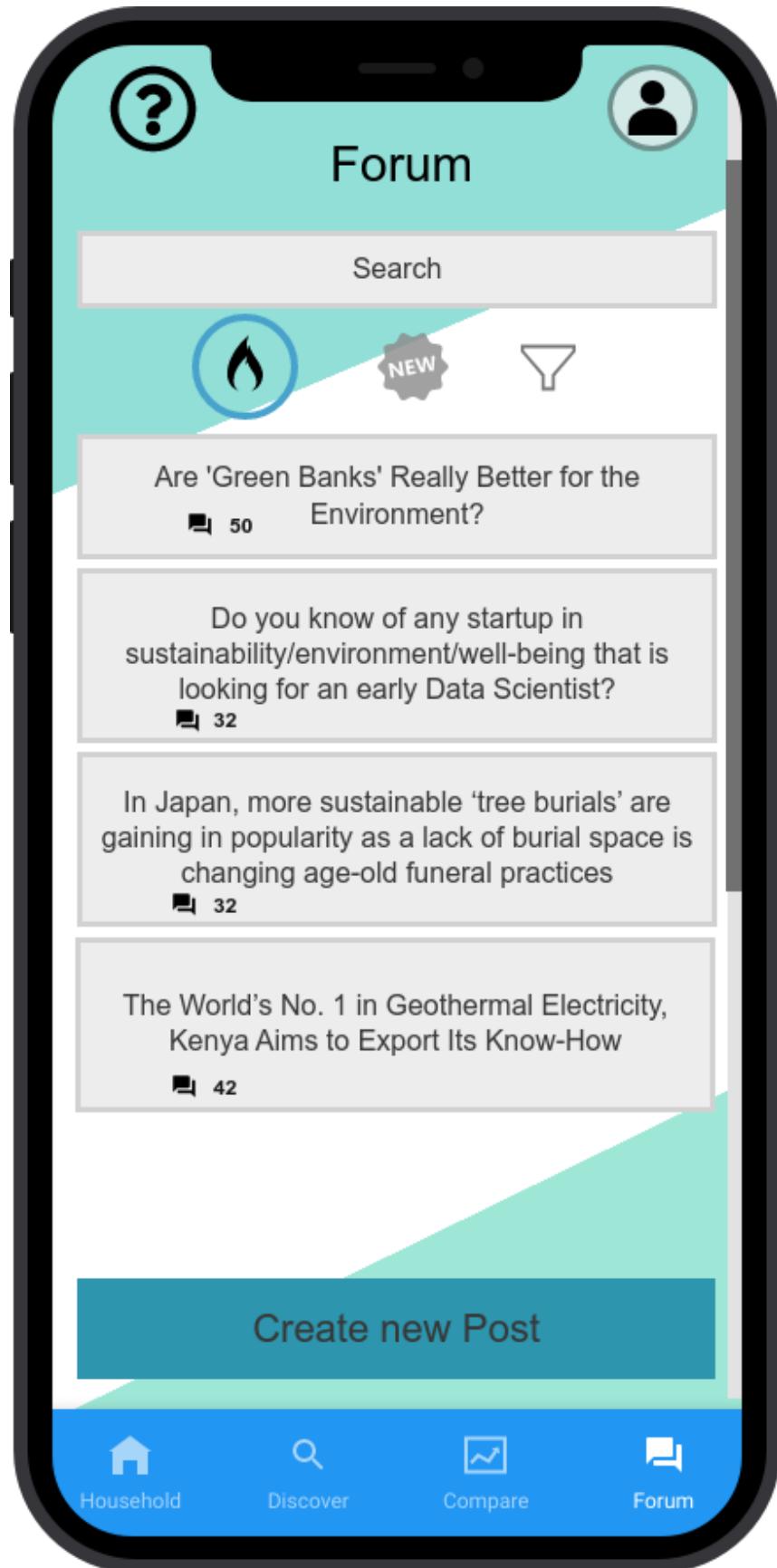
Backyard Aquaponics Farming
109k 19k +

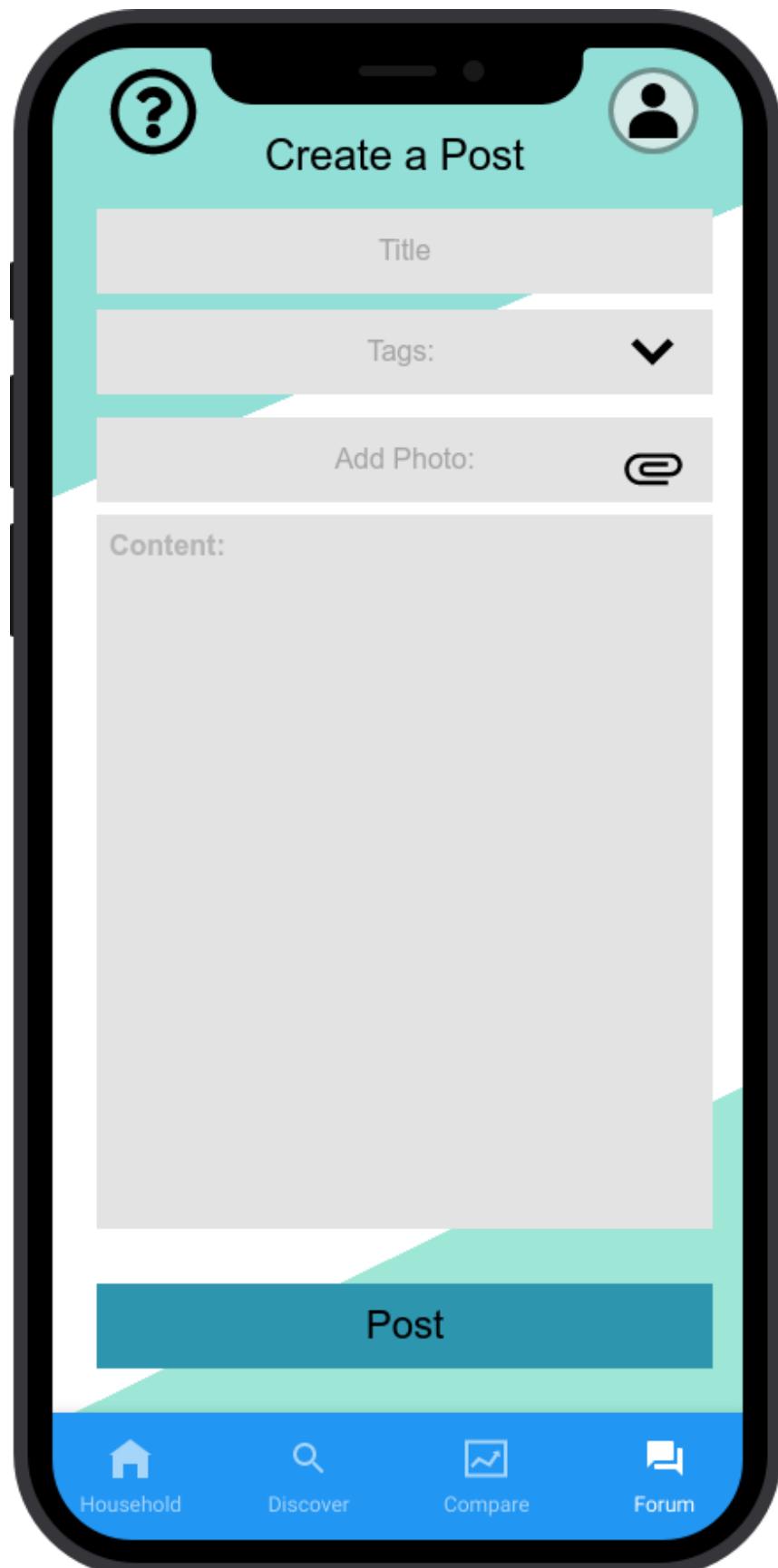
The Biggest Lie About Renewable Energy
60k 9k +

Sustainable City Living on 1/10th of an Acre
29k 2k +

Household Discover Compare Forum

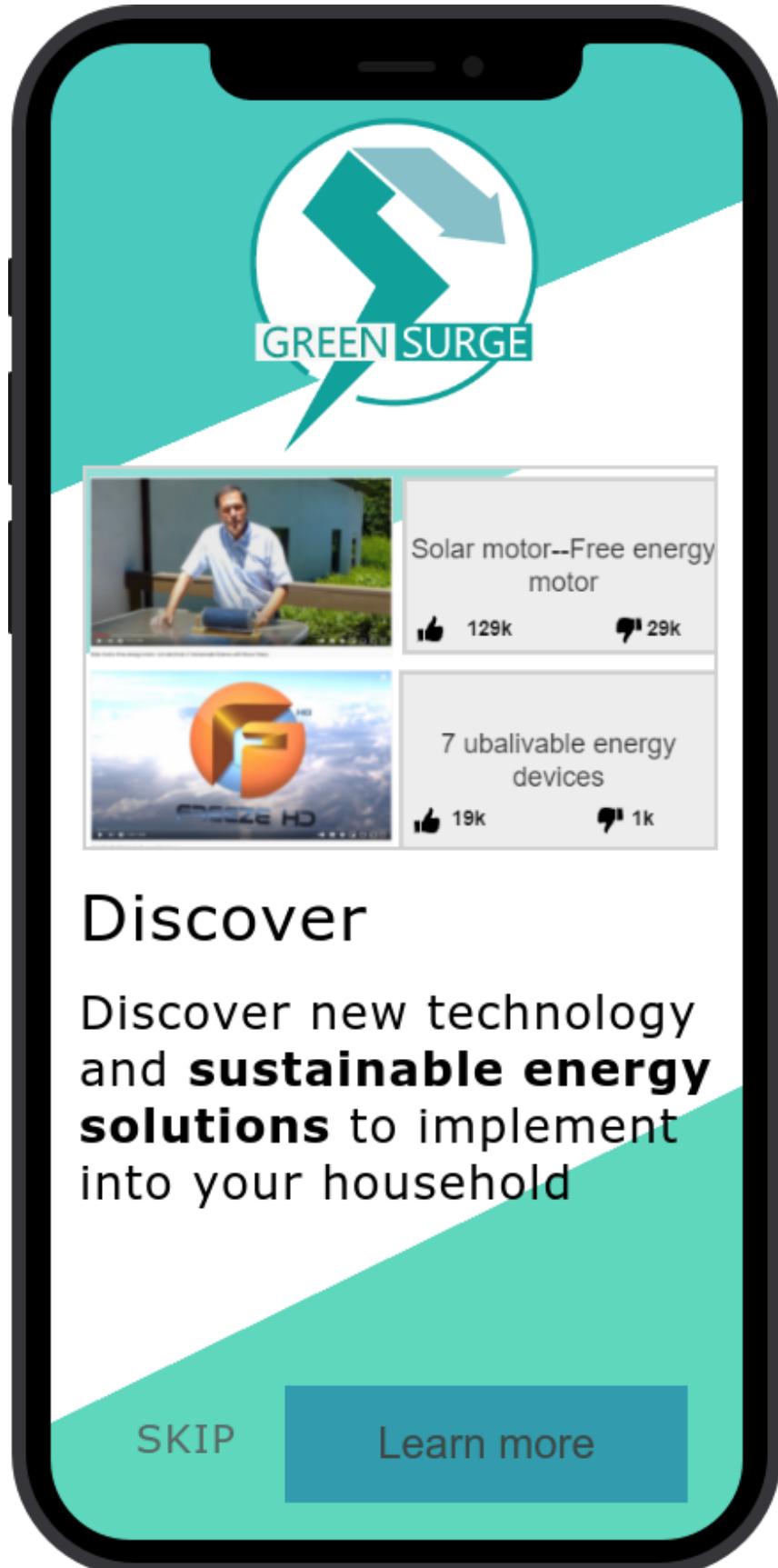


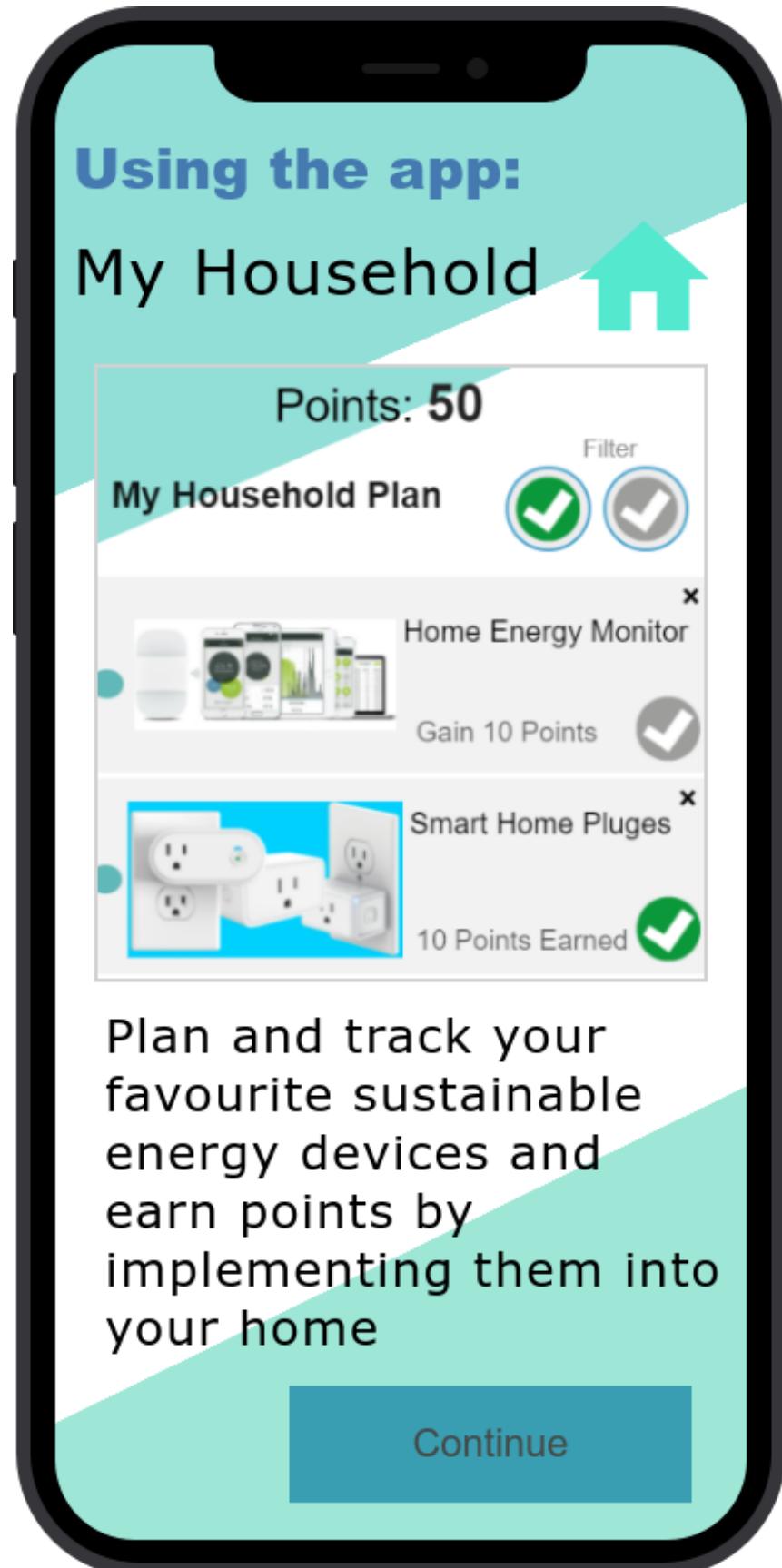


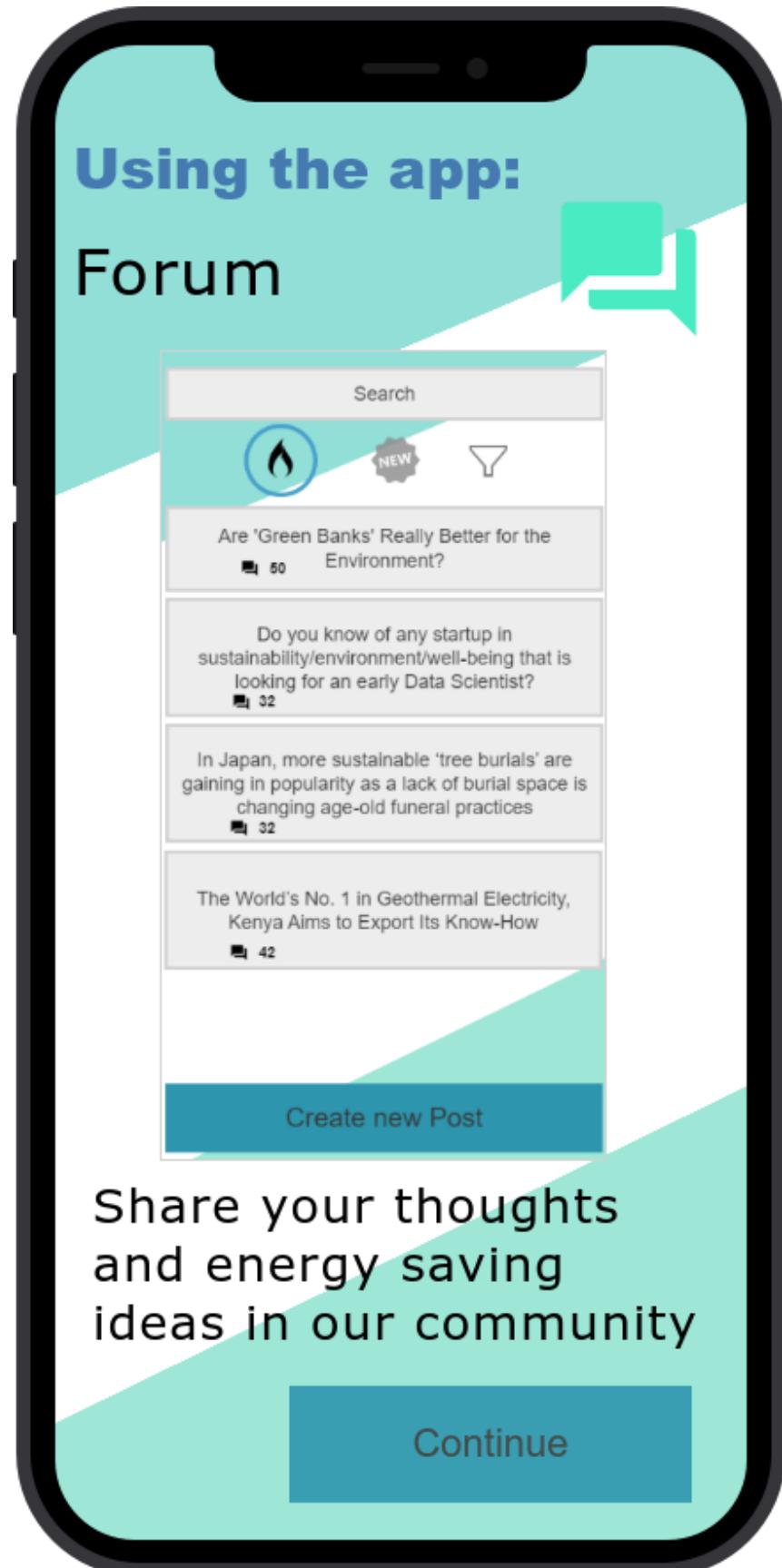


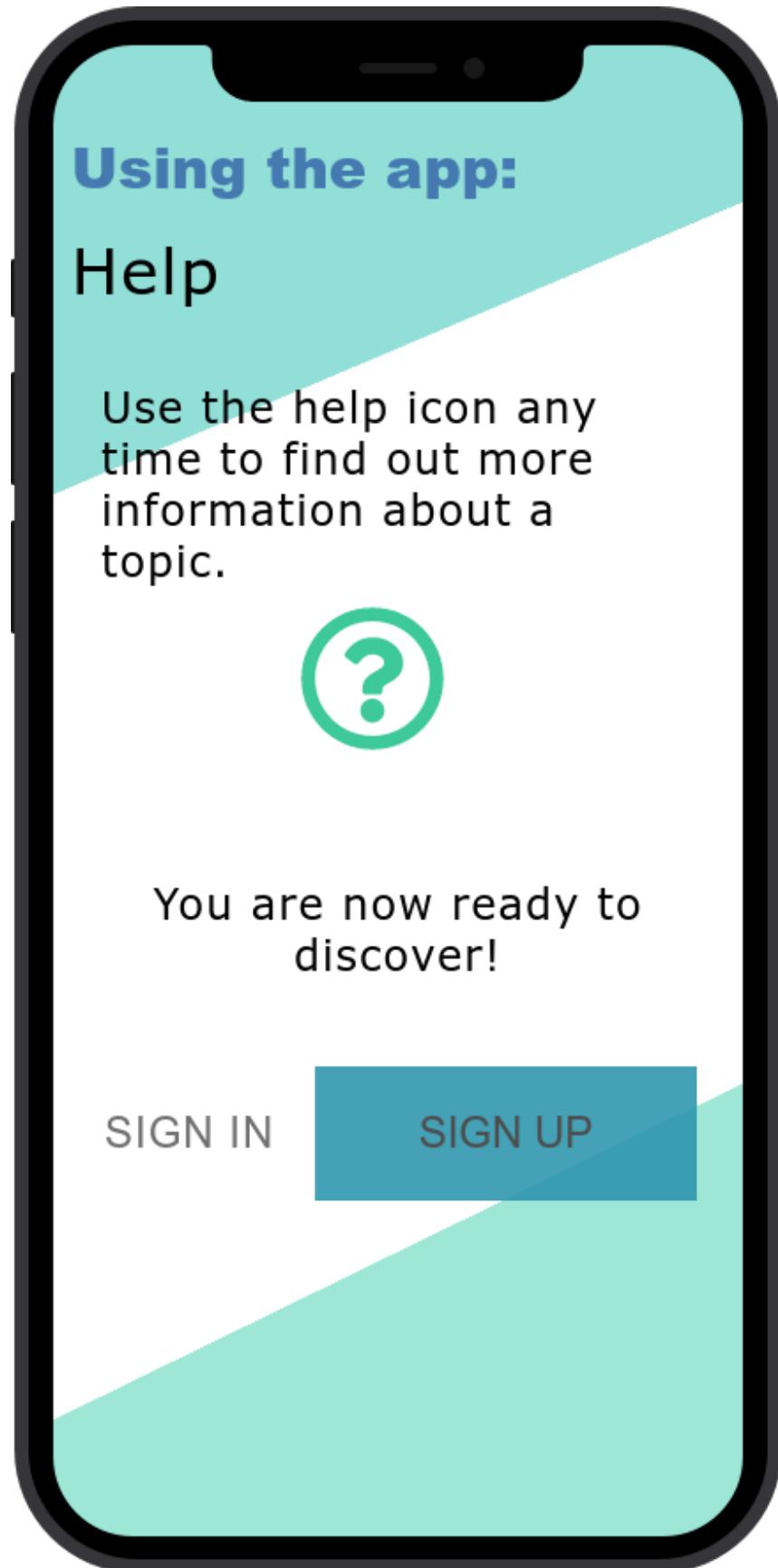
Prototype 4.0

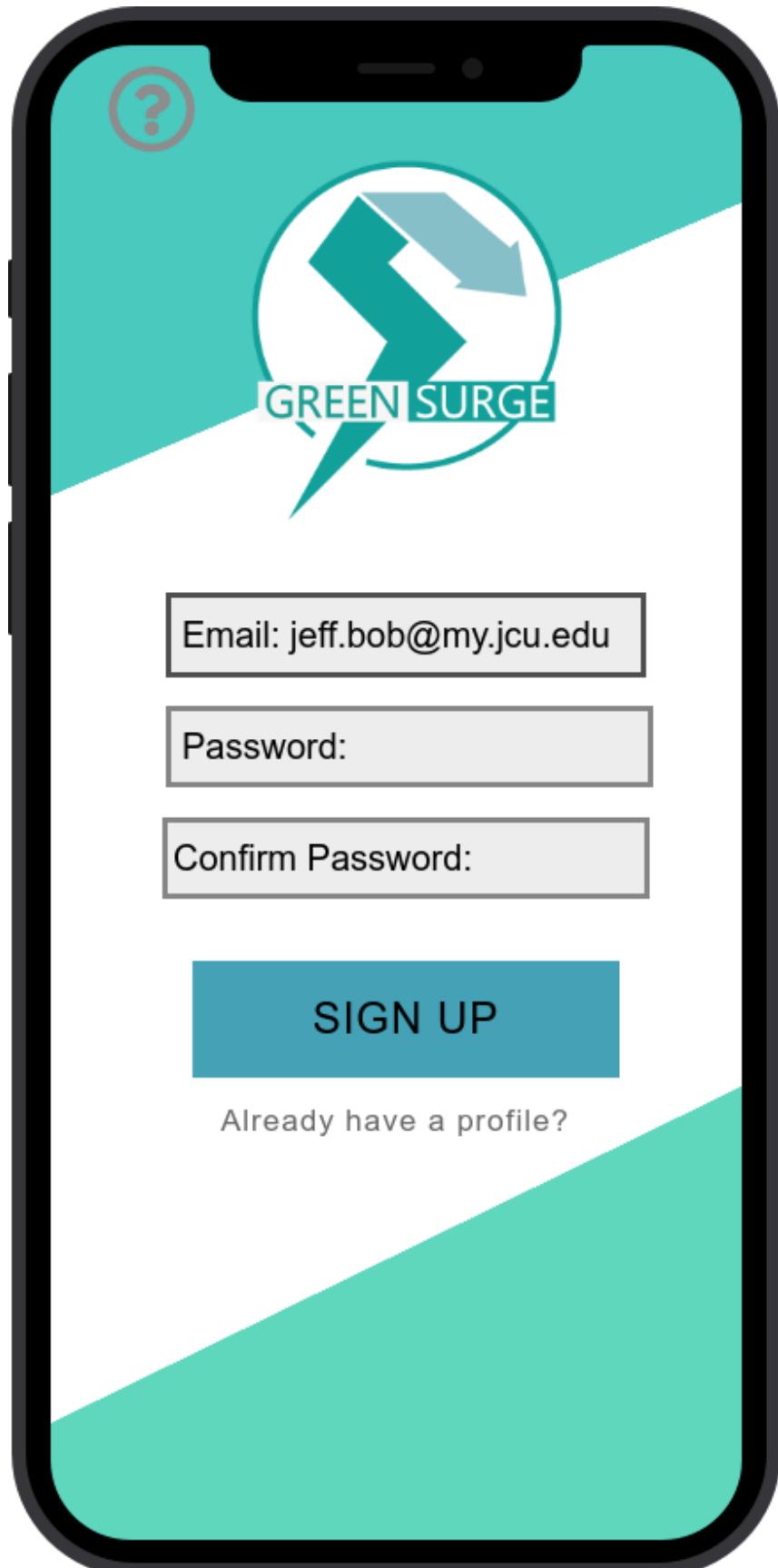
Final

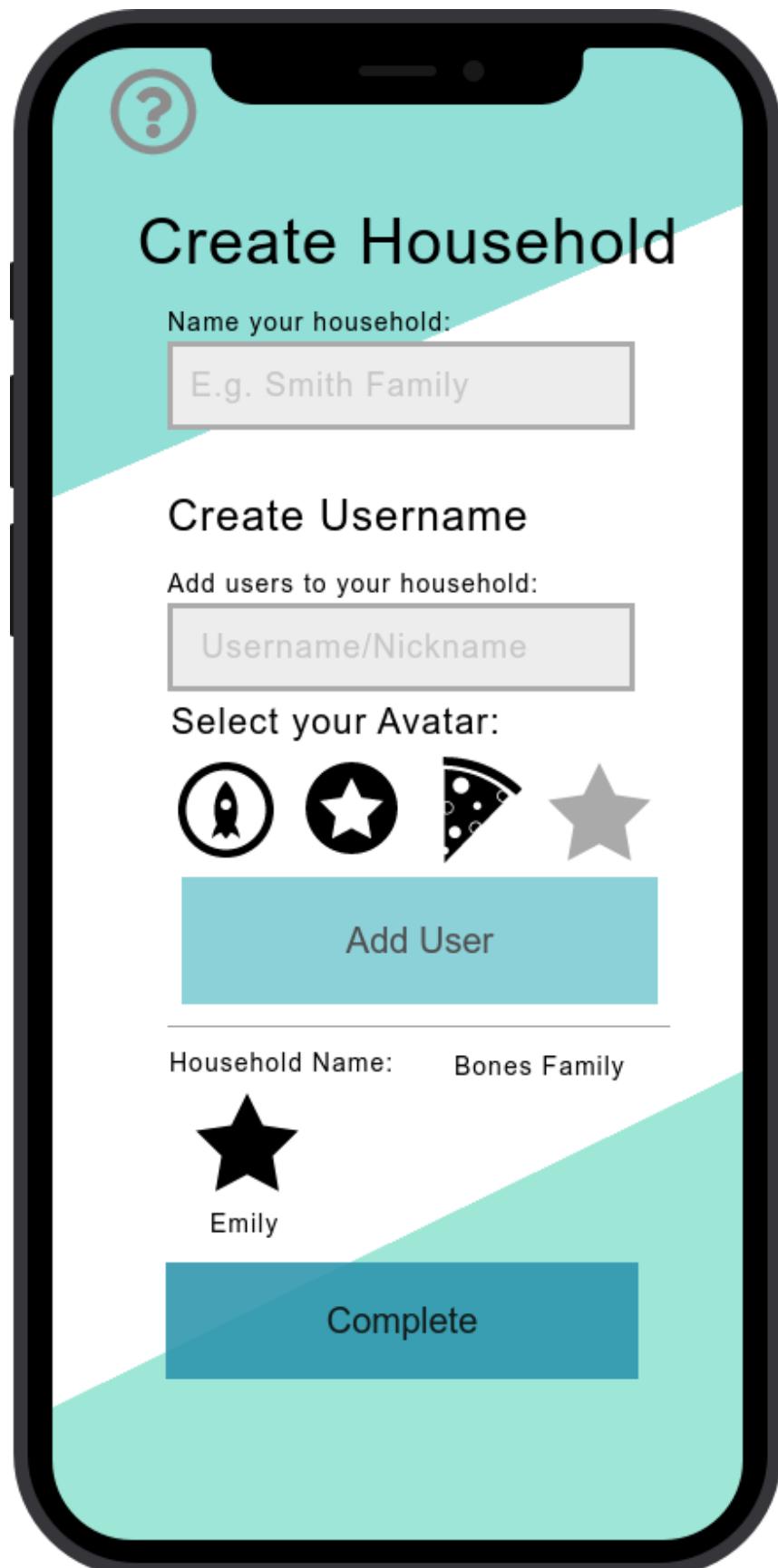












The image shows a smartphone displaying a mobile application interface. The top of the screen features a light blue header with rounded corners. In the top-left corner is a question mark icon inside a circle, and in the top-right corner is a star icon inside a circle. The main content area has a white background.

Household Details

Are you the owner or a renter of the property?

Owner: Renter:

What best describes your dwelling?

House

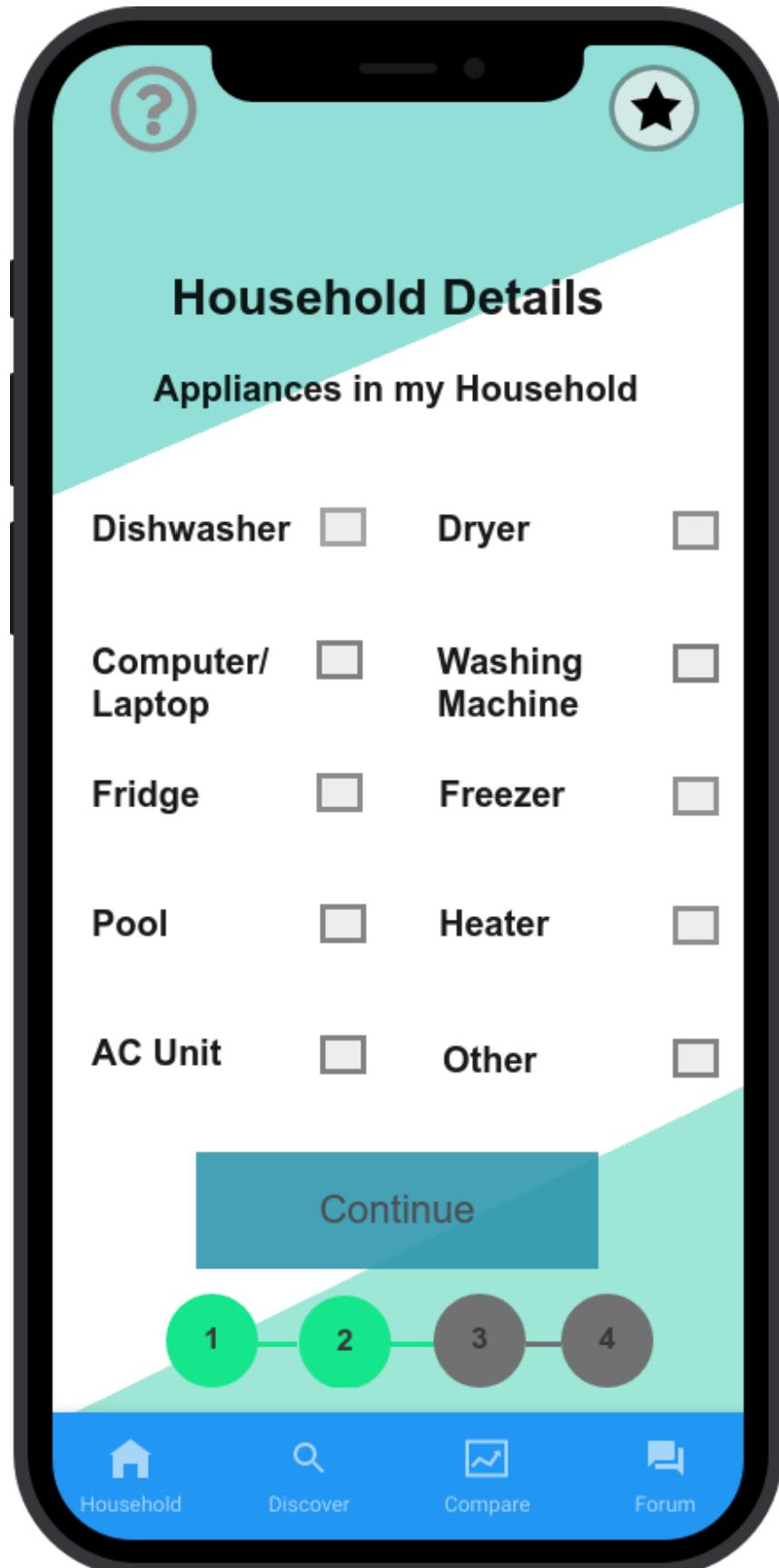
How many people live in the Household?

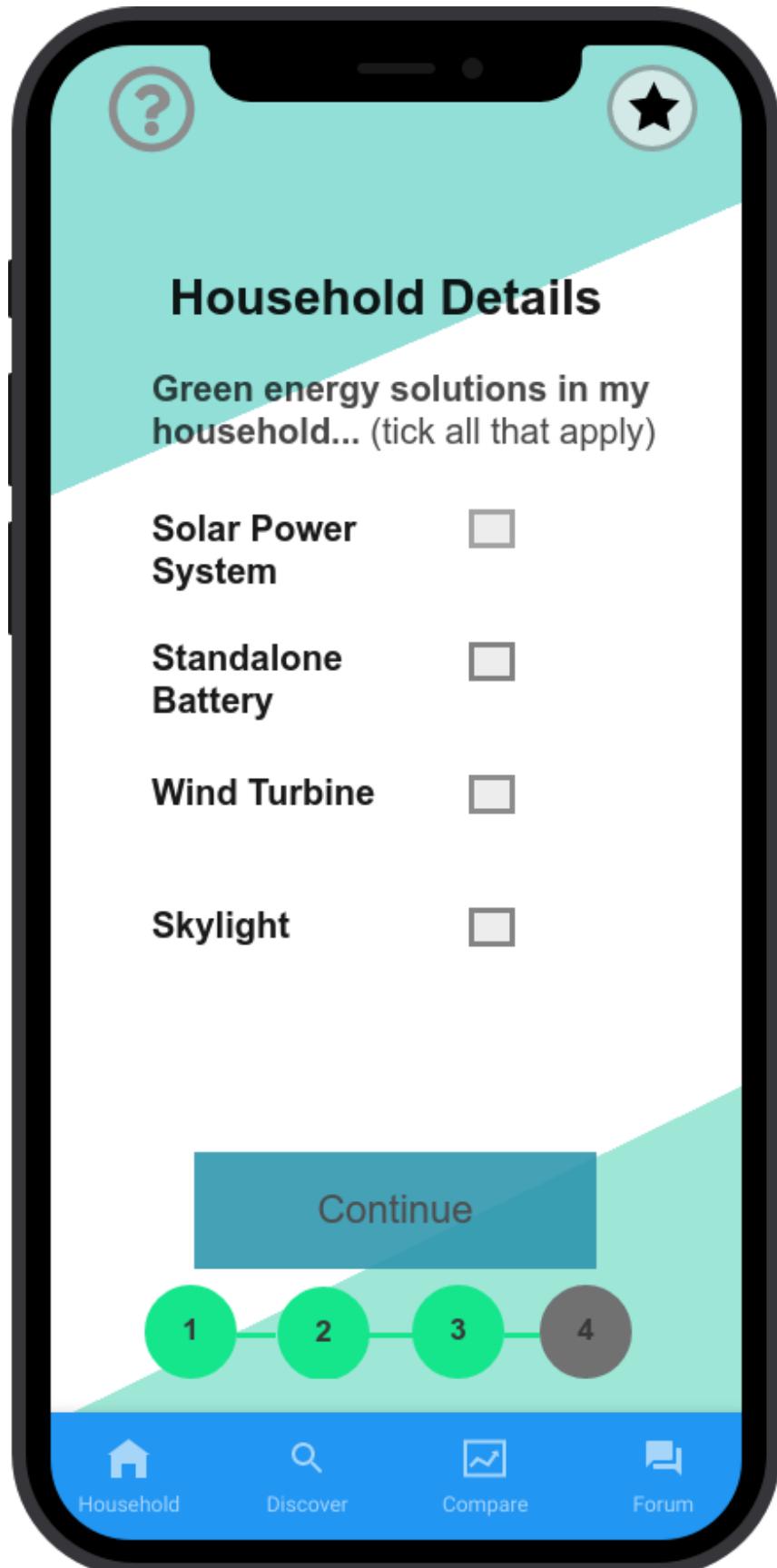
3

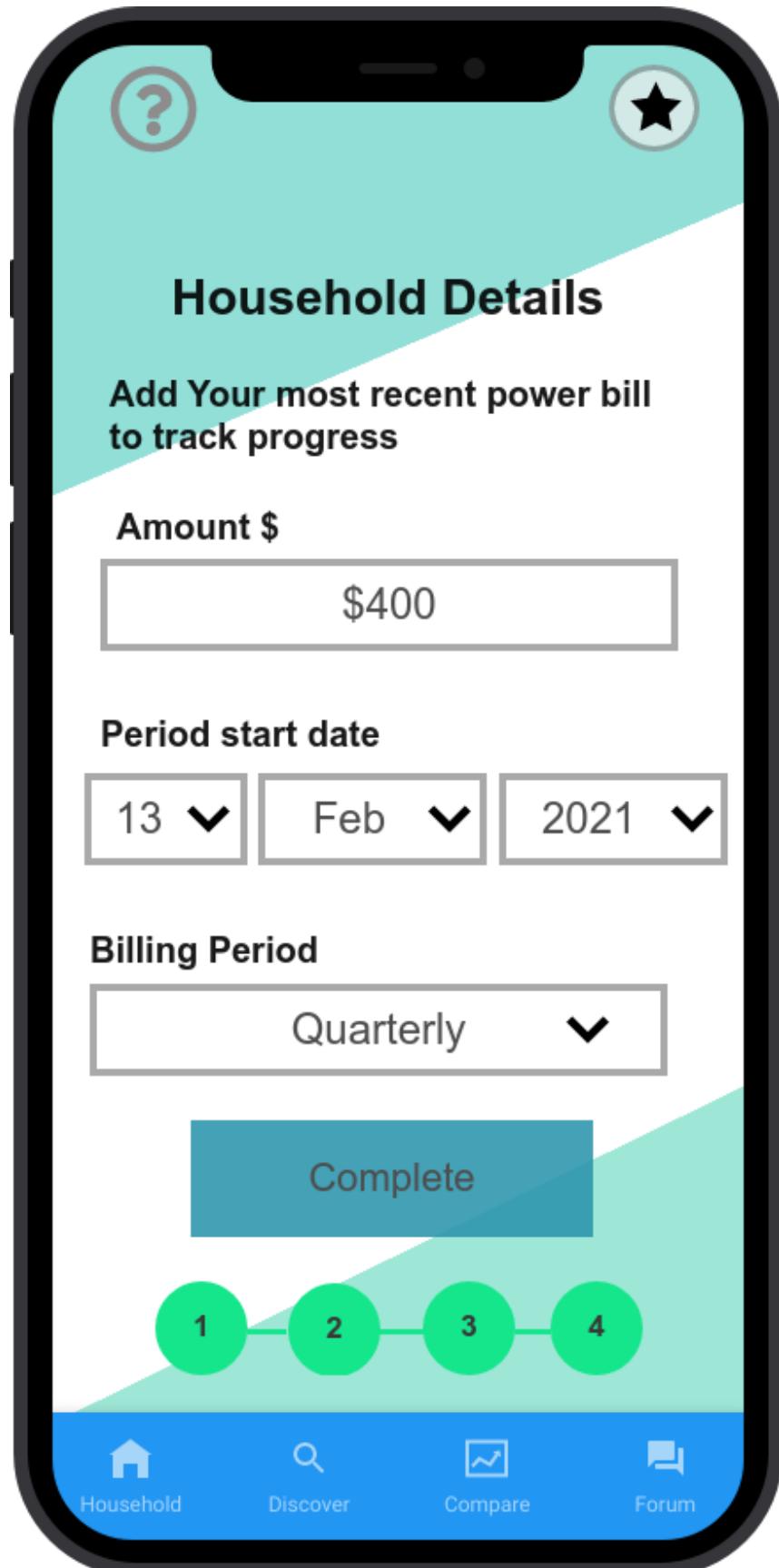
Continue

1 2 3 4

Household Discover Compare Forum



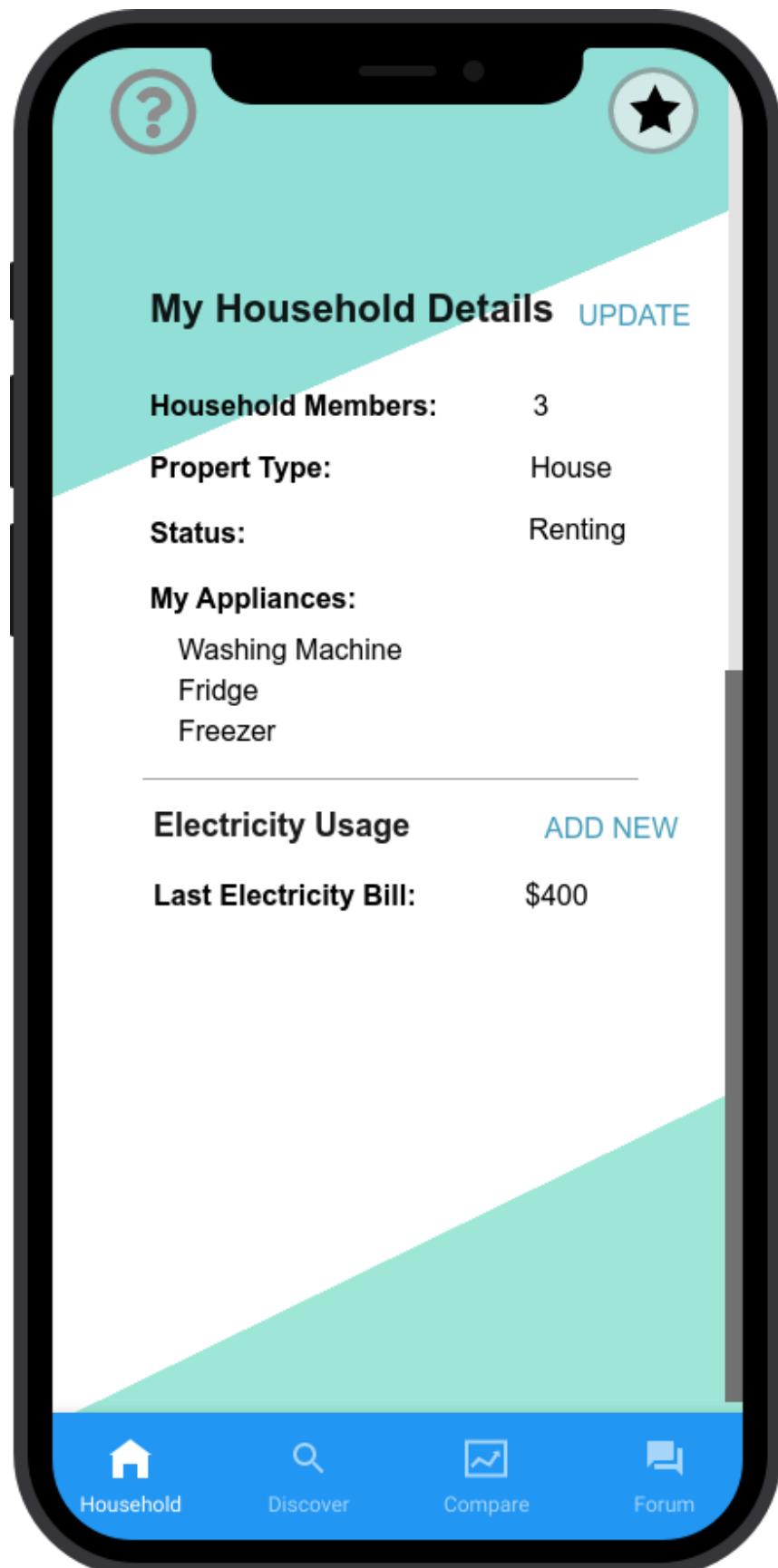


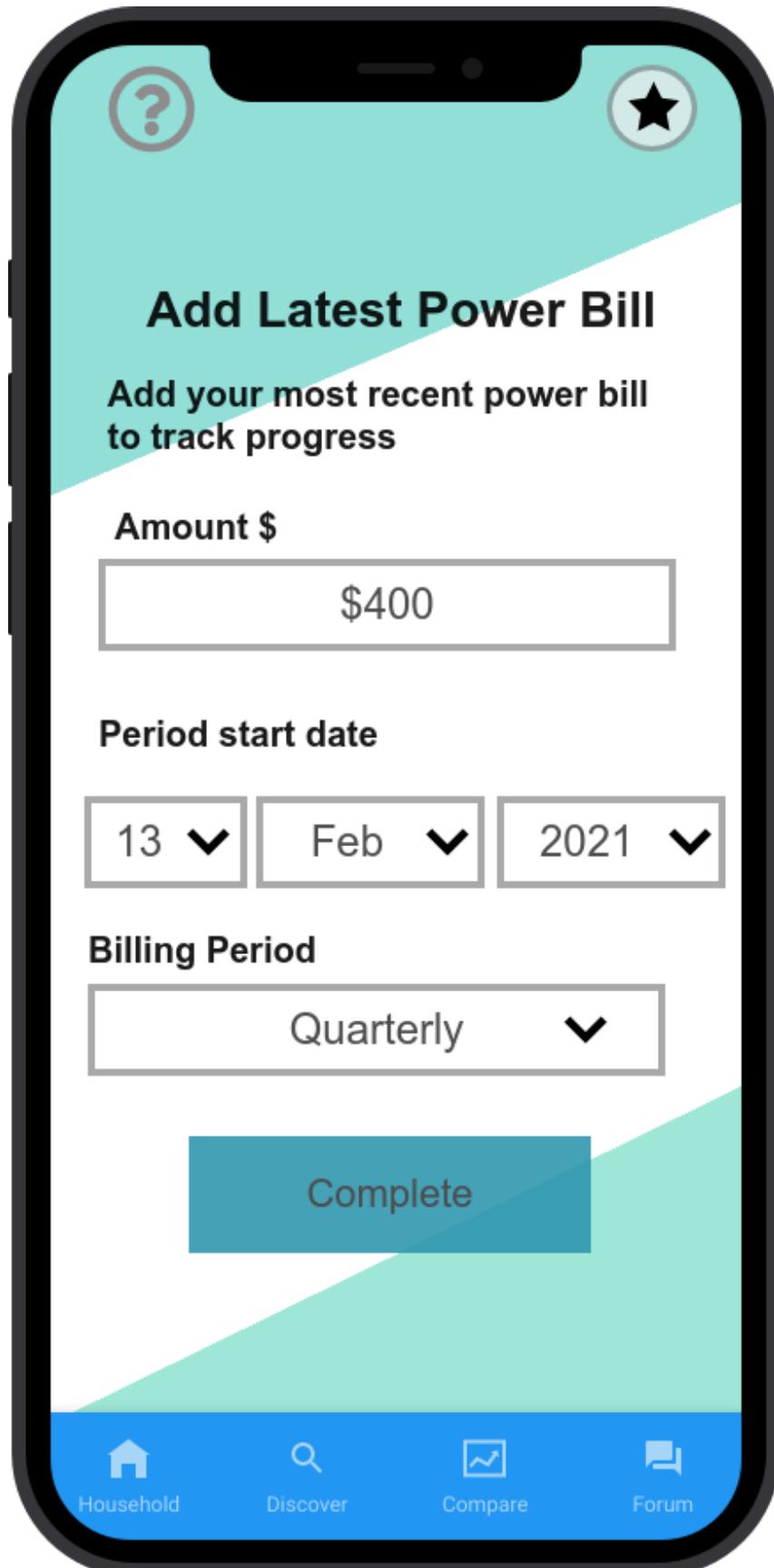












The image shows a smartphone displaying a mobile application interface. The top of the screen features a teal header with a question mark icon on the left and a star icon on the right. The main title "Compare My Household" is centered in large black font. Below it, a section titled "Local Leaderboard" includes a downward arrow icon.

Rank	Household	Points
1	Pumpkin Gang	105
2	Saint Nicolas	95
3	Tickled_pink	82

A horizontal scroll bar is visible below the leaderboards.

My Position

Rank	Household	Points
29	Green_Crusaders	50

Legend:

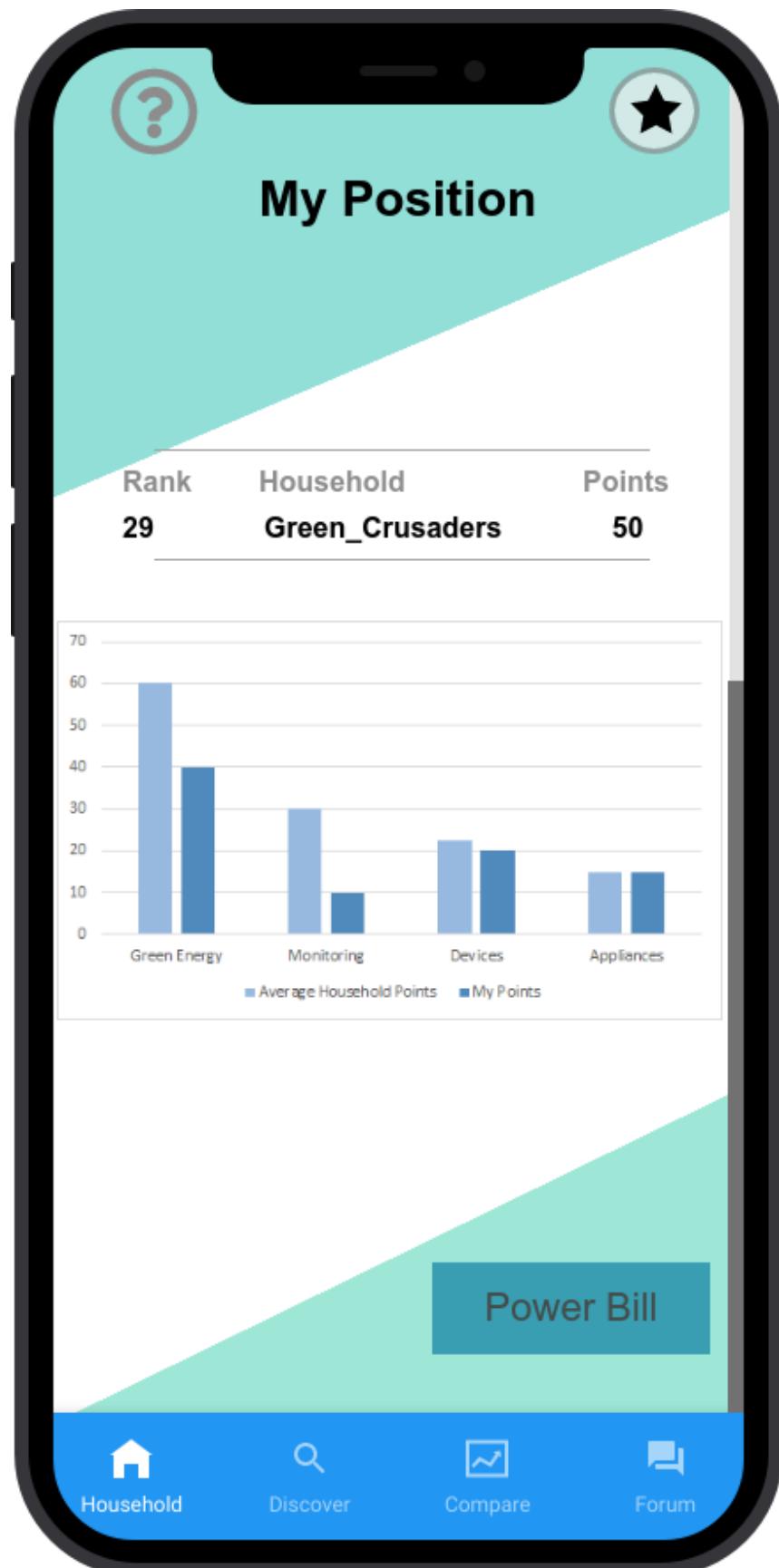
- My Points (Teal square)
- Average Household Points (Blue square)

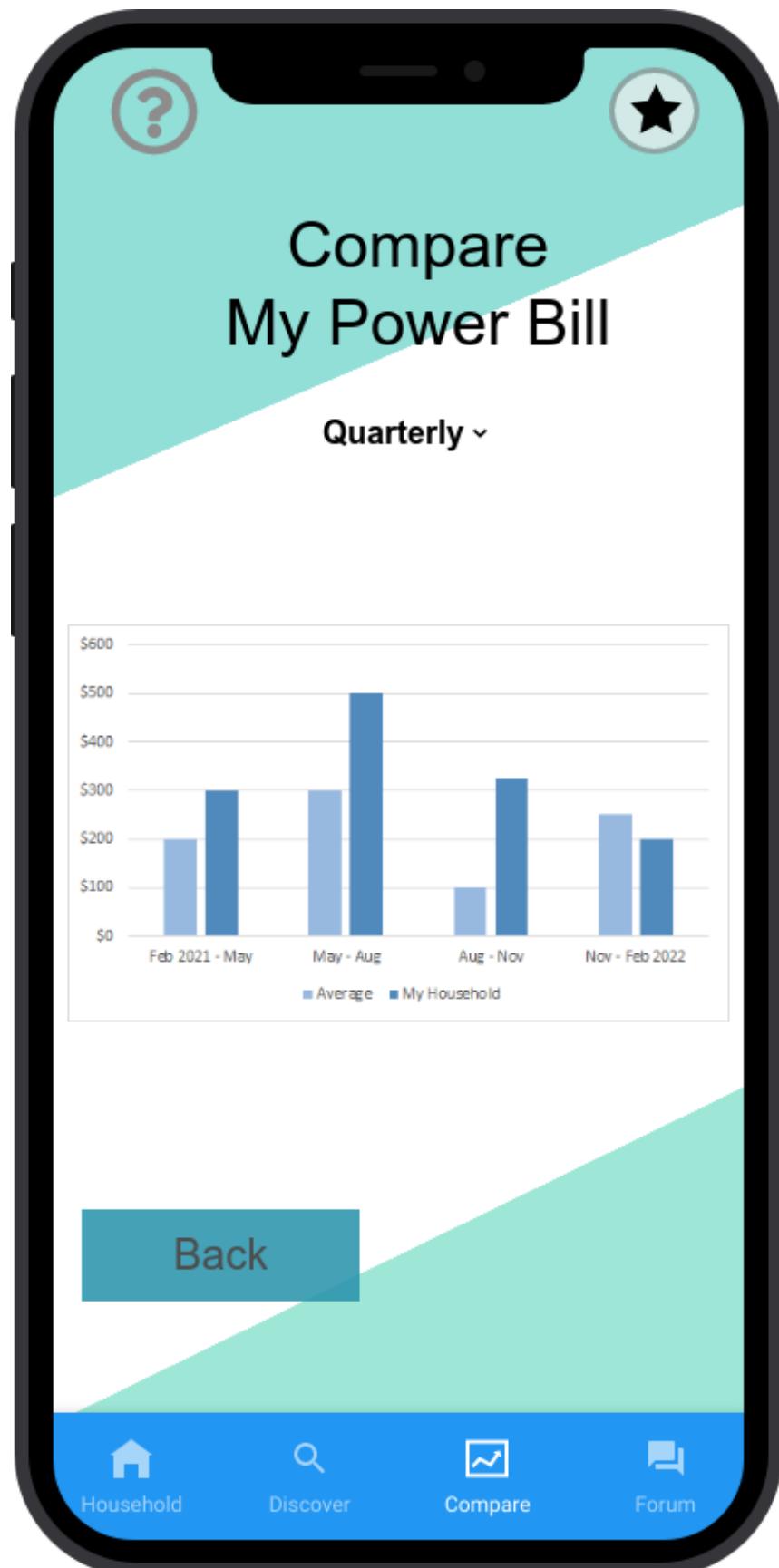
Bar chart comparing household points:

Household	My Points	Average Household Points
Pumpkin Gang	105	105
Saint Nicolas	95	95
Tickled_pink	82	82
Green_Crusaders	50	50

Bottom navigation bar:

- Household (Home icon)
- Discover (Search icon)
- Compare (Graph icon)
- Forum (Speech bubble icon)





Discover Suggestions

Solar motor--Free energy motor
129k 29k +

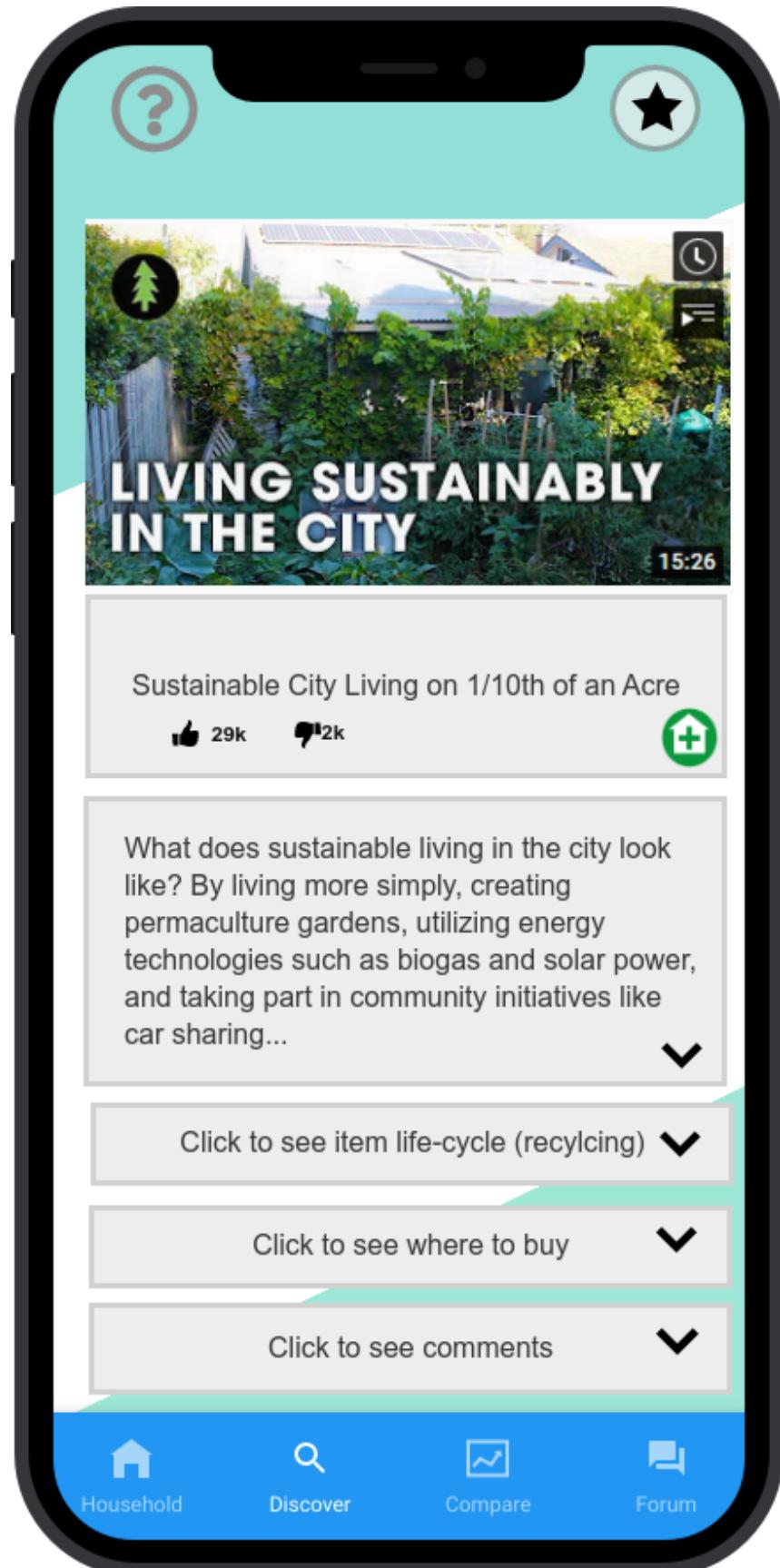
7 ubalivable energy devices
19k 1k +

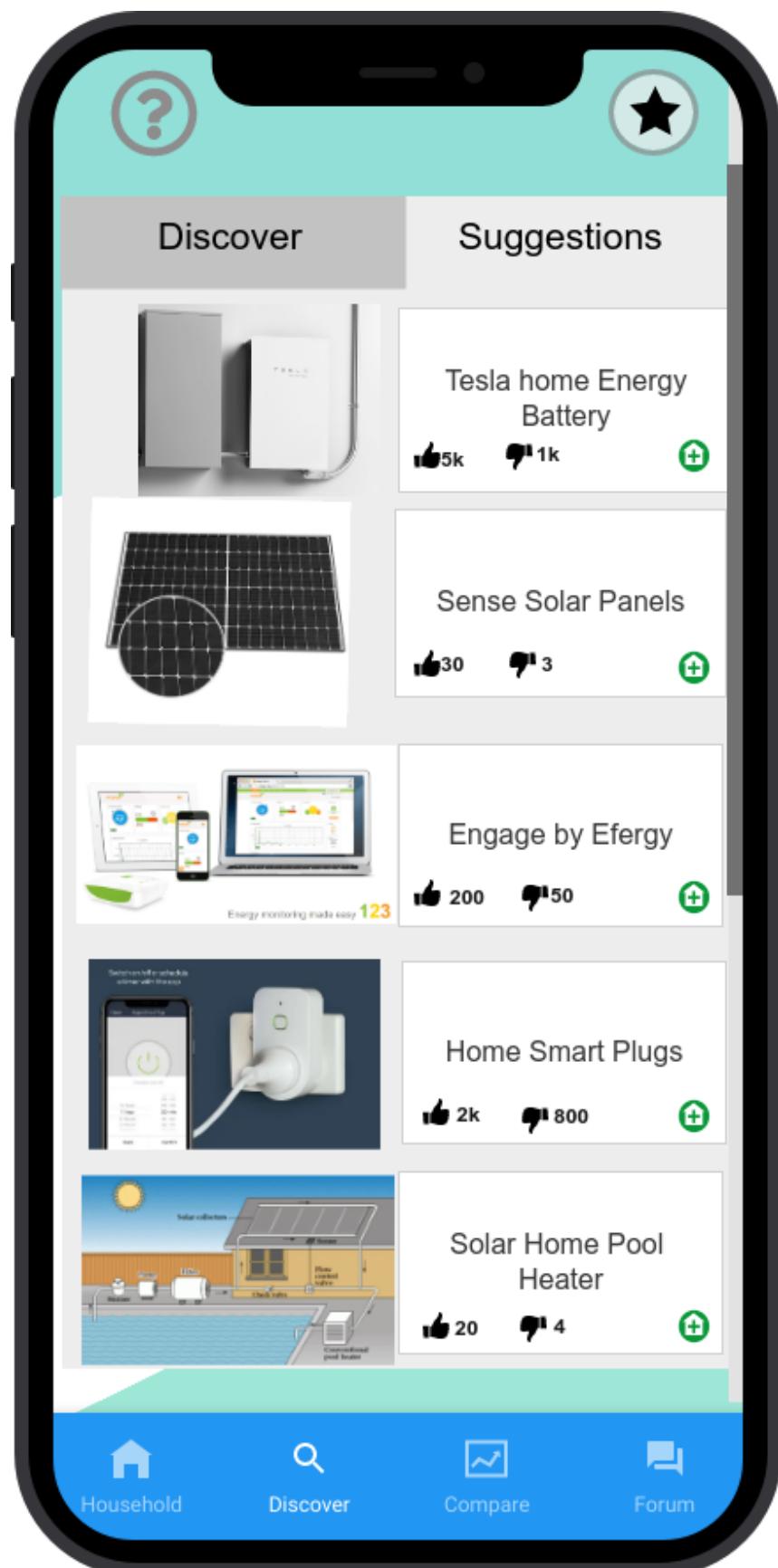
Backyard Aquaponics Farming
109k 19k +

The Biggest Lie About Renewable Energy
60k 9k +

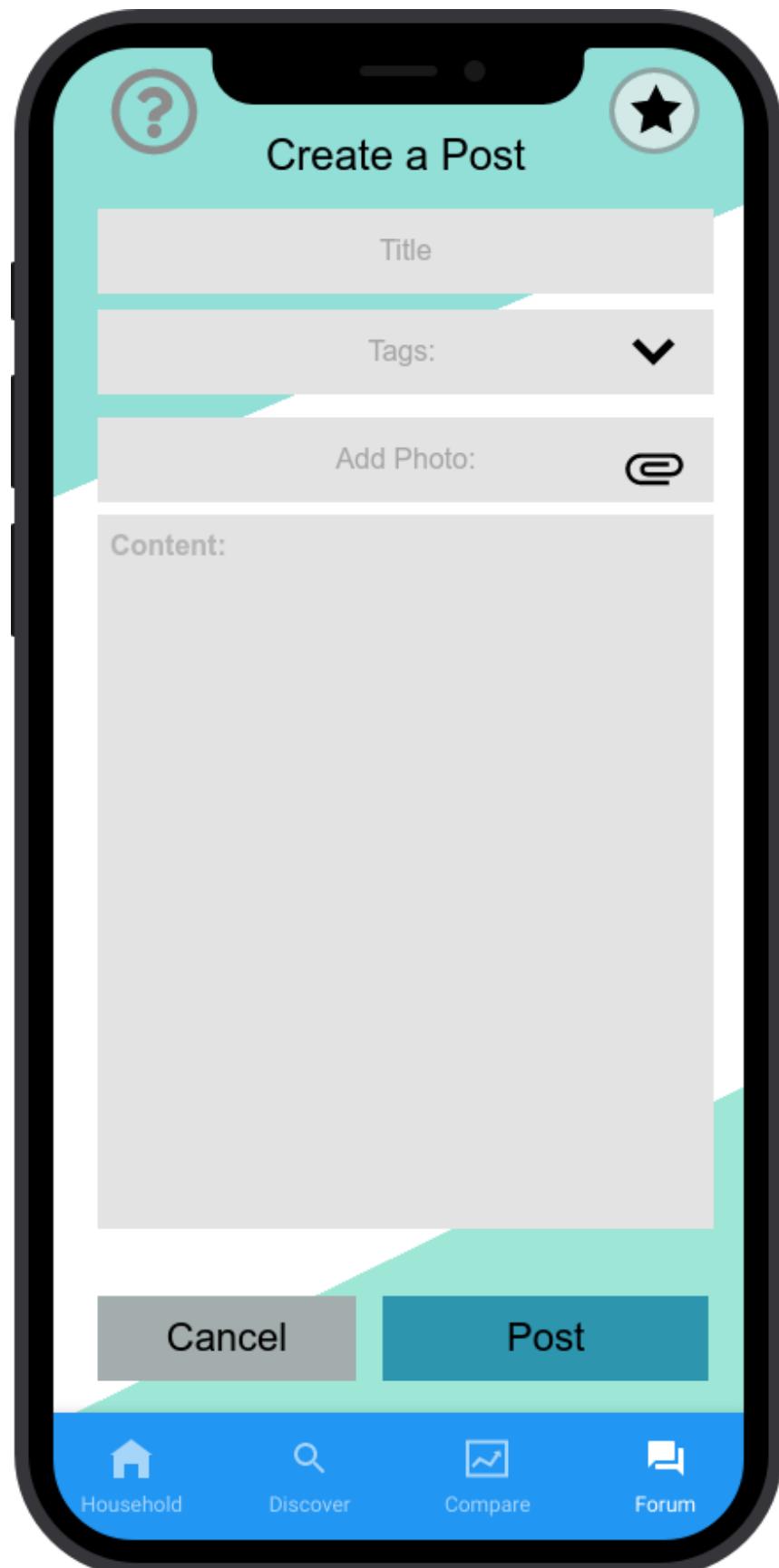
Sustainable City Living on 1/10th of an Acre
29k 2k +

Household Discover Compare Forum









Appendix: Teamwork Contribution Report Teamwork Contribution Report Template

My contributions for each design thinking process:

Project Work	Contributions
Empathy	21-22/08/2021 conduct 2 interviews with potential users
Define	29/08/2021 Contributed to team discussion about refining the question to a single sentence
Ideation	16/08/2021 Suggested 5 ideas in brainstorm meeting
Prototyping	15/09/2021 Uploaded my initial prototype design for testing
Testing	15/09/2021, 22/9/2021, 1/10/2021 Conducted testing for all the prototypes
Team management and information sharing	3/09/2021 Contributed in collating all the secondary research

My contributions for each team meeting:

Meeting Date	Role in Meeting	Contributions
11/08/2021	Participate	<ul style="list-style-type: none">Joined in on discussions and voiced opinions about the following: Name, Rules, Communication, and meeting timeGenerated many topic ideas for problems while also branching off on others' ideas
16/08/21	Participate (left after 30 min)	<ul style="list-style-type: none">Briefly joined in on discussion about topic ideasAfter meeting completed secondary research about final idea
18/08/2021	Participate	<ul style="list-style-type: none">Discussed our secondary research with groupParticipated in the creation of interview questions

25/08/2021	Participate	<ul style="list-style-type: none"> Went over the interviews conducted and put all information gathered into empathy maps and did the POV for each group
29/08/2021	Chairperson and Minute Taking	<ul style="list-style-type: none"> Guided the meeting to keep the team on track and make sure we get done what is needed for this meeting Went over the POV statements and got everyone's opinions on the most important things said in each POV statement Joined in discussion of the single refined POV statement Brainswarmed and made connections to help us with the last brainstorming Brainstormed lots of HMW questions and then did a heat map to decide which question will be our final question Helped facilitate dividing up tasks for final submission of group submission Wrote up meeting minutes for the meeting just conducted
02/09/2021	Participate	<ul style="list-style-type: none"> Worked on getting necessary files in correct formats for final combined of files Went through what was missing with chairperson and completed tasks and files that were missing Discussed the next assessment and how well go about it
11/09/21	Absent	<ul style="list-style-type: none"> After meeting was told my requirements and completed my section of the initial prototype
15/09/2021	Participate	<ul style="list-style-type: none"> Went over and discussed the testing of prototype 1 for feedback Feedback was brainswarmed and connections were made While looking at the brainwarm improvements where then made to be implemented I worked on the section I was given for the next prototype

22/09/2021	Absent	<ul style="list-style-type: none"> • After meeting review work that had been done and take to the team about what it meant and my thoughts • Use this meeting to prepare for the next meeting
25/08/2021	Chairperson and Minute Taking	<ul style="list-style-type: none"> • Feedback from last test was discussed and insights in what needed to be changed were done • We then divided out the last bit of remaining work