

The Short Shorts Company

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Wi-fi Thermostat and iOS mobile app
March 2012

Contents

Overview

Research

Strategies

Framework

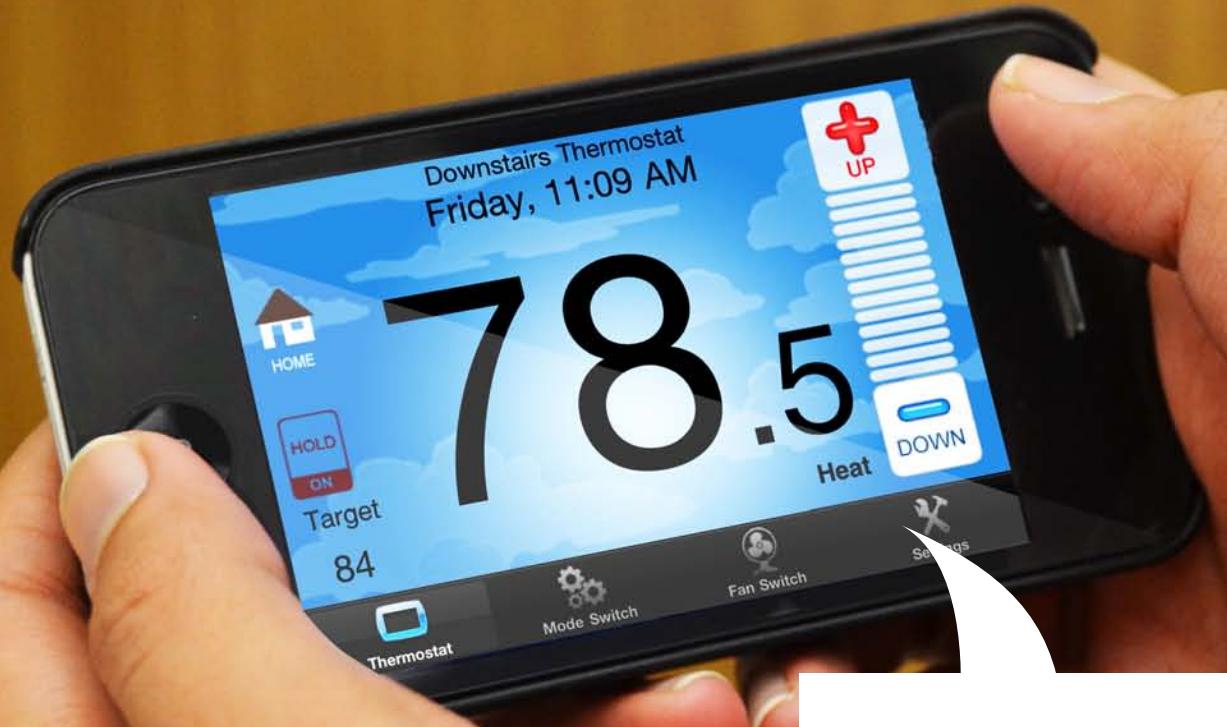
Overview



About the Client



"help people **Save money** on their energy bills by offering the best, most user-friendly technology and tools available."



Programmable and internet controlled thermostat allows user to **access** their thermostat from **anywhere** using a mobile app.

The Short Shorts Company Objective

To create an efficient wifi thermostat and iOS application
that allows **small businesses** to **save money**
by controlling **multiple zones** within the work areas.

About the User

Small Business

- maximum of 15 people
- at least 2 separate work areas



Small Business Environment

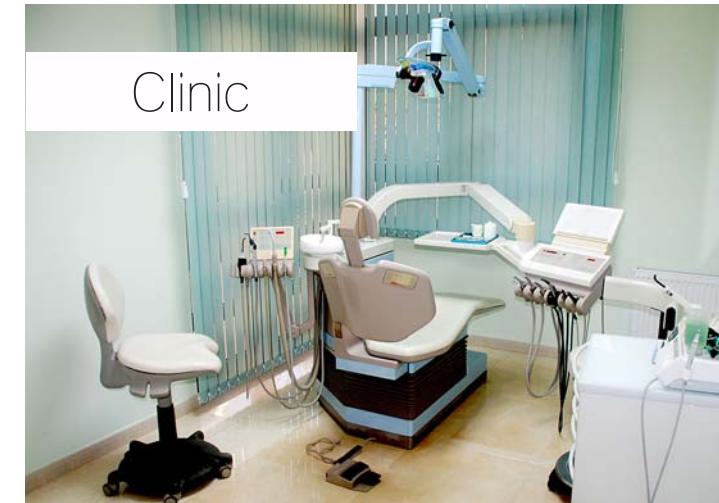
Cafe



Agency/Firm



Clinic



Bar



Retail



Restaurants



Research



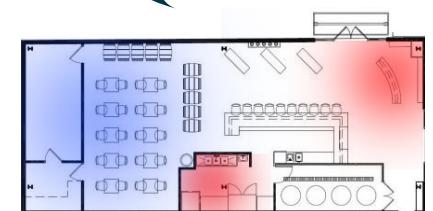
Secondary Research

Radio Thermostat

difficult to see what you want



a room will have random hotspots



cluttered

program problems

hotspots

no feedback



difficult to program to the users lifestyle

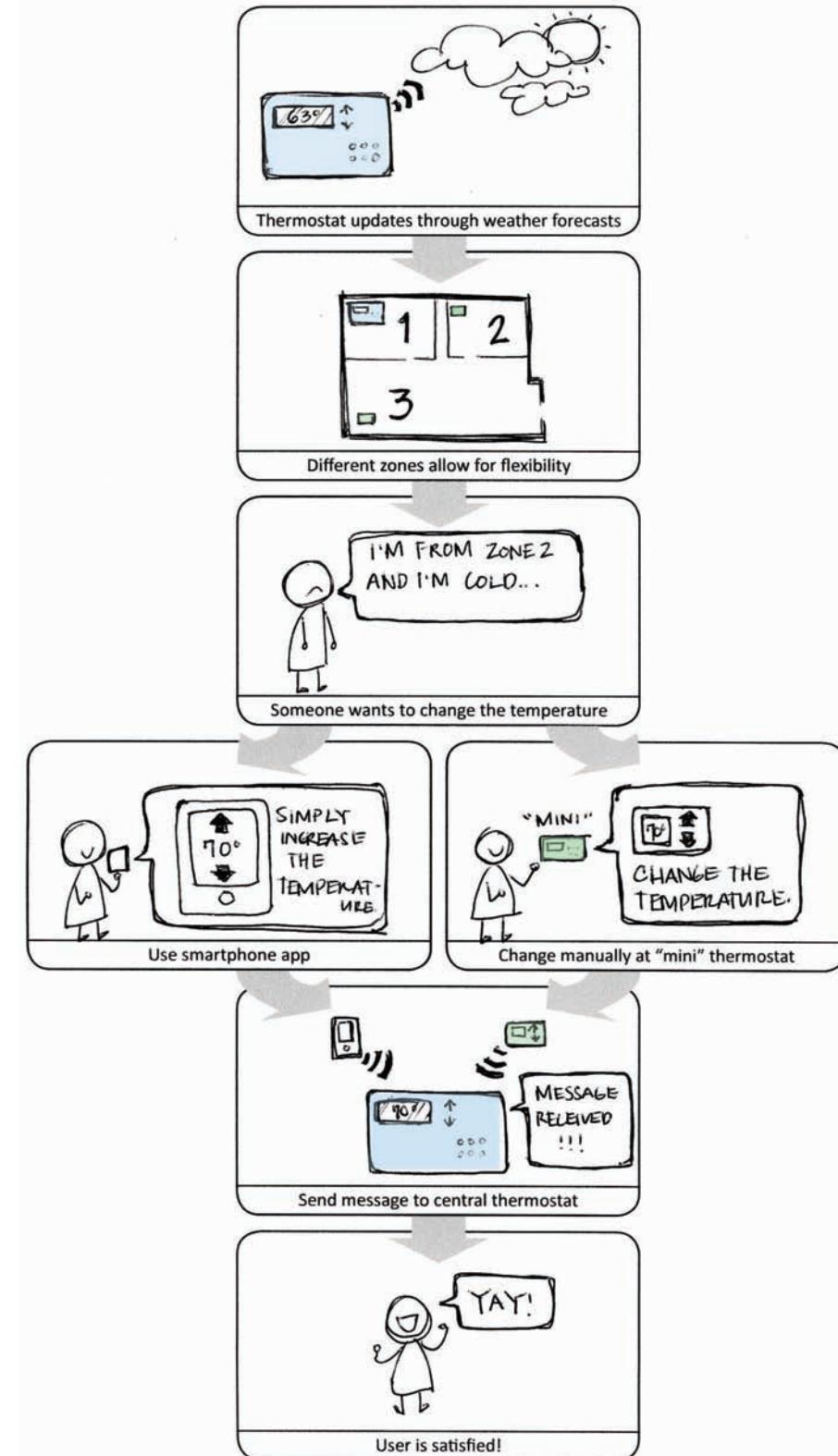
there are no notifications that show if you are saving money



Initial Storyboard



From our secondary research, we created a scenario that would utilize multiple thermostats for different temperature zones.





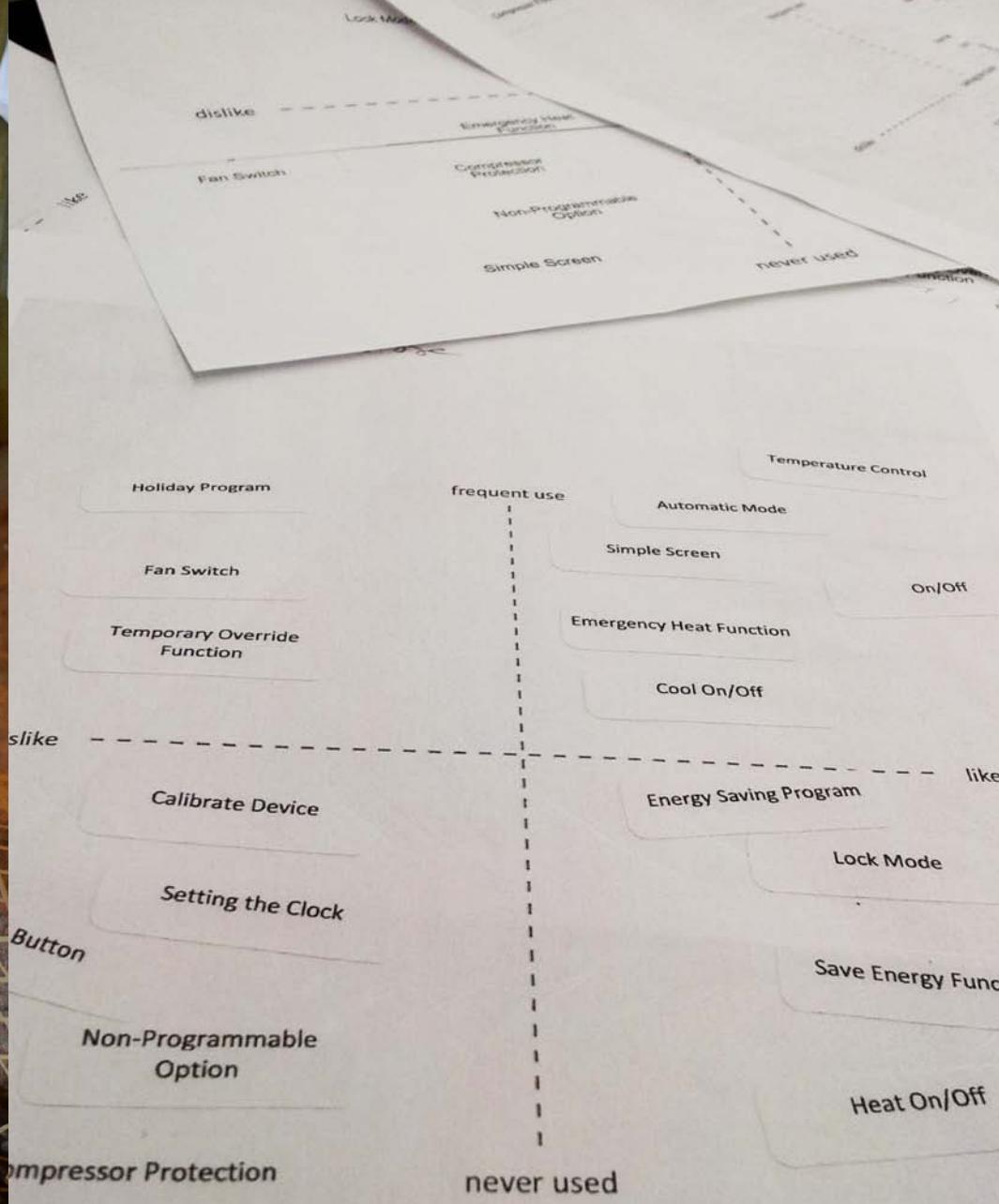
We talked to small business owners and employees around the Bay Area for contextual inquiry.



Primary Research



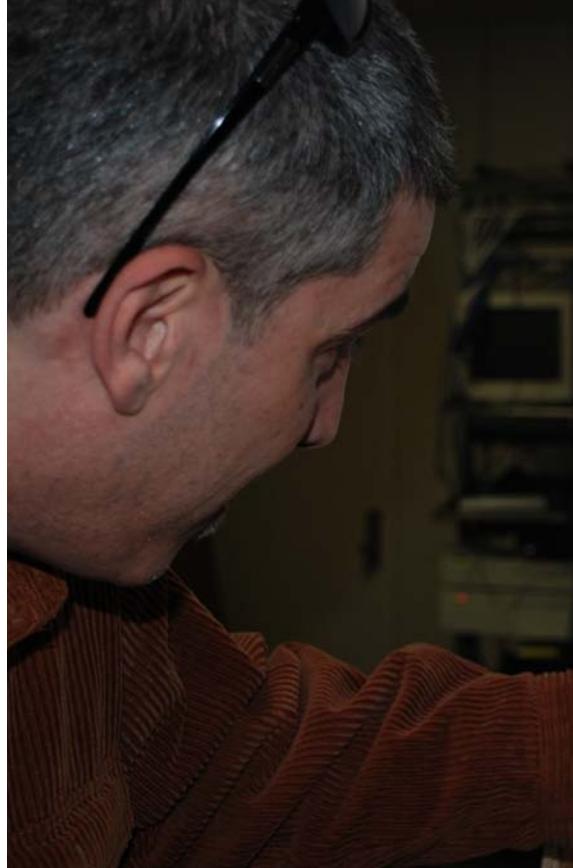
activity



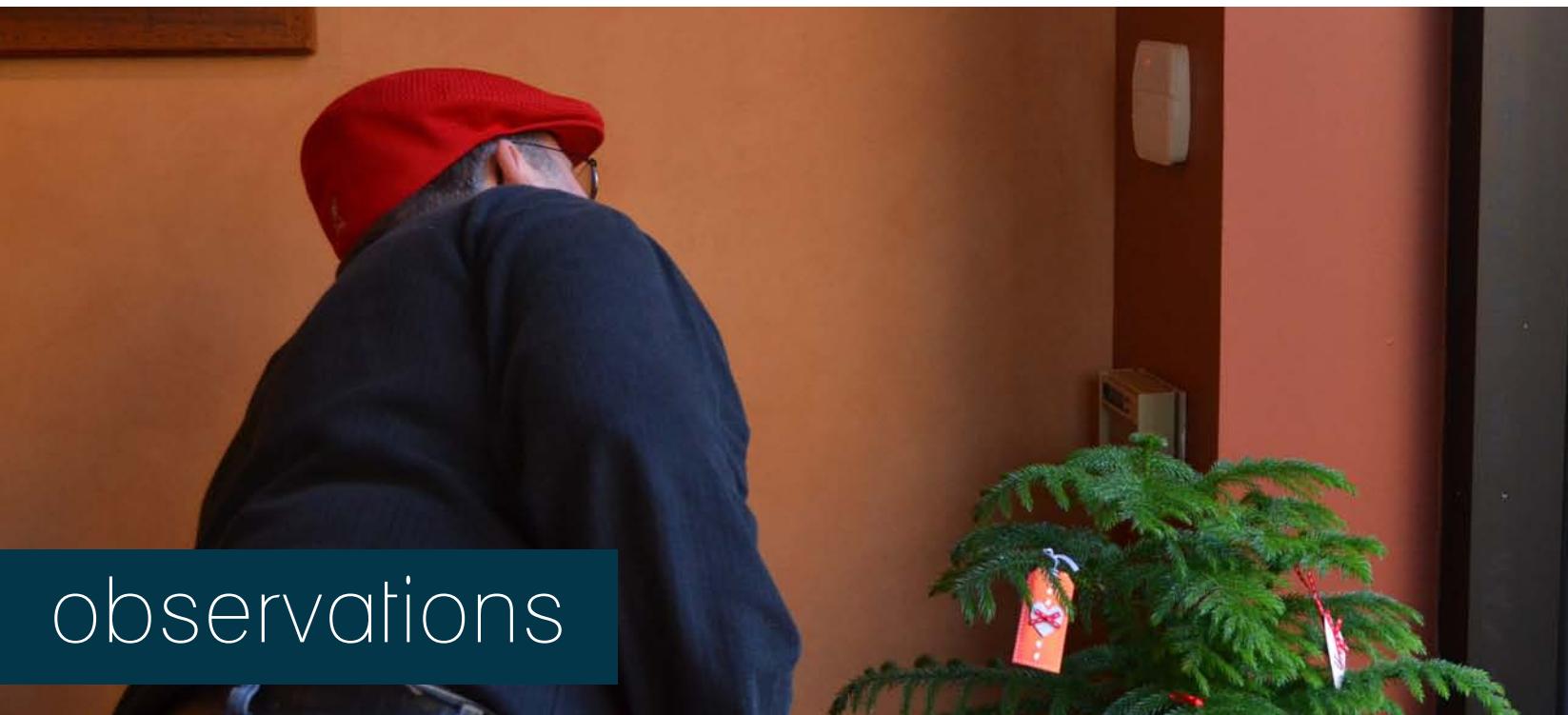
We had participants place features on how much they enjoyed it and frequency of use.



observations



observations

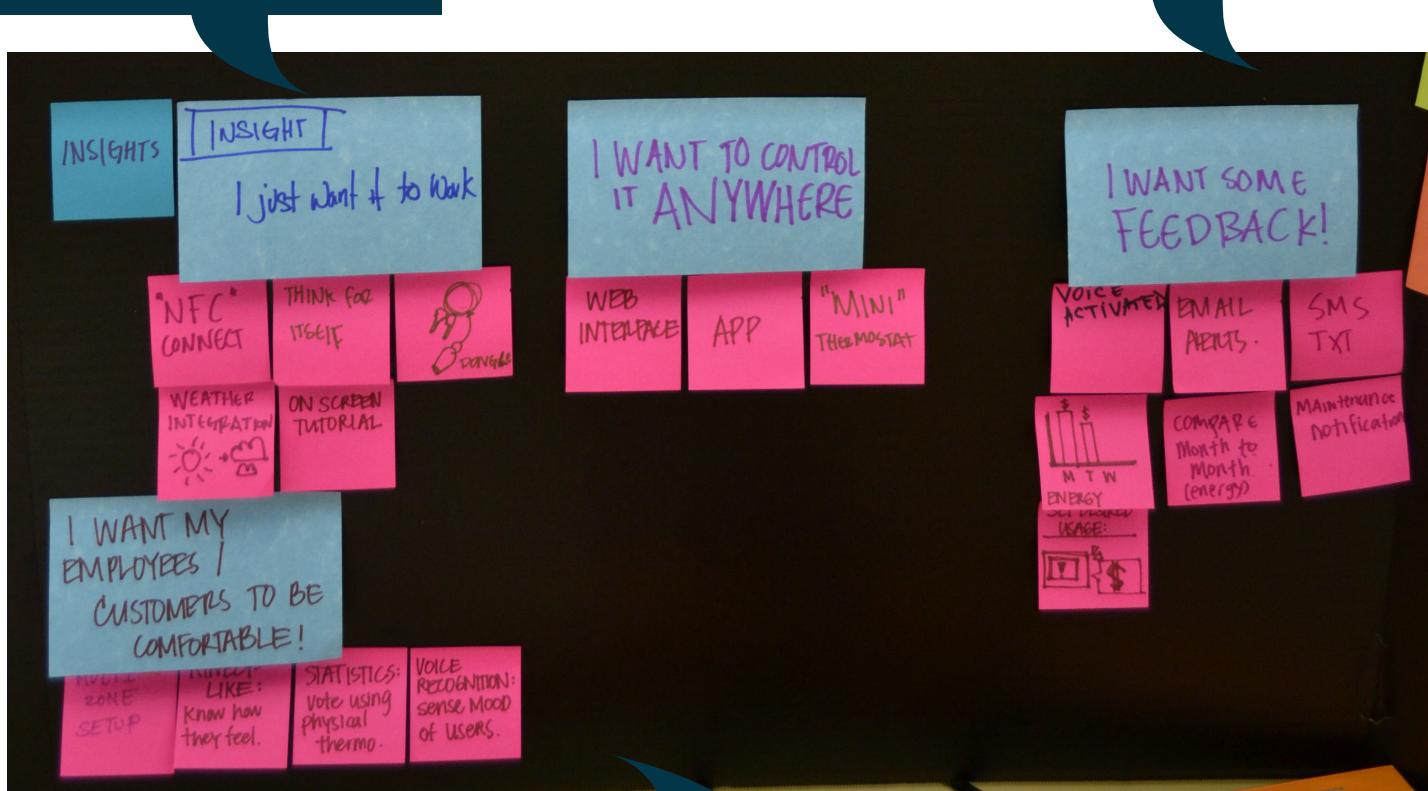
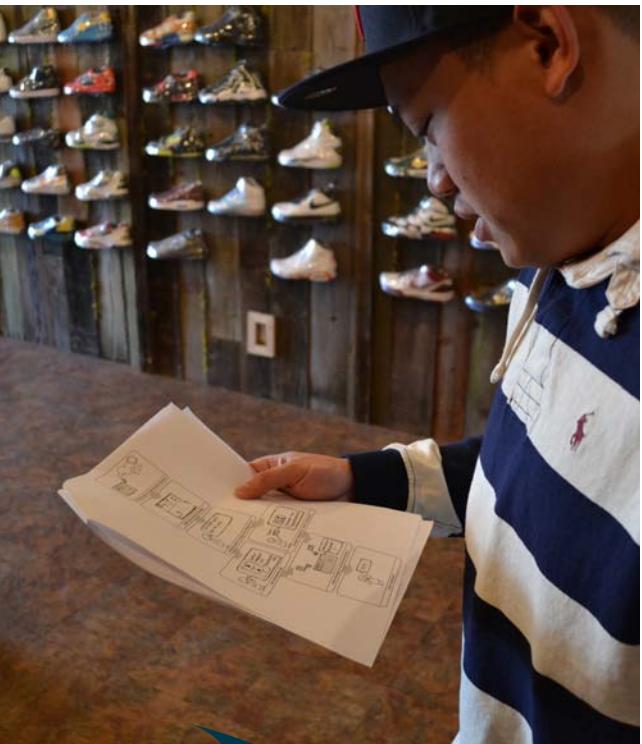


observations

Insights

I want feedback regarding how much money I am saving

I want my employees/ customers to be comfortable



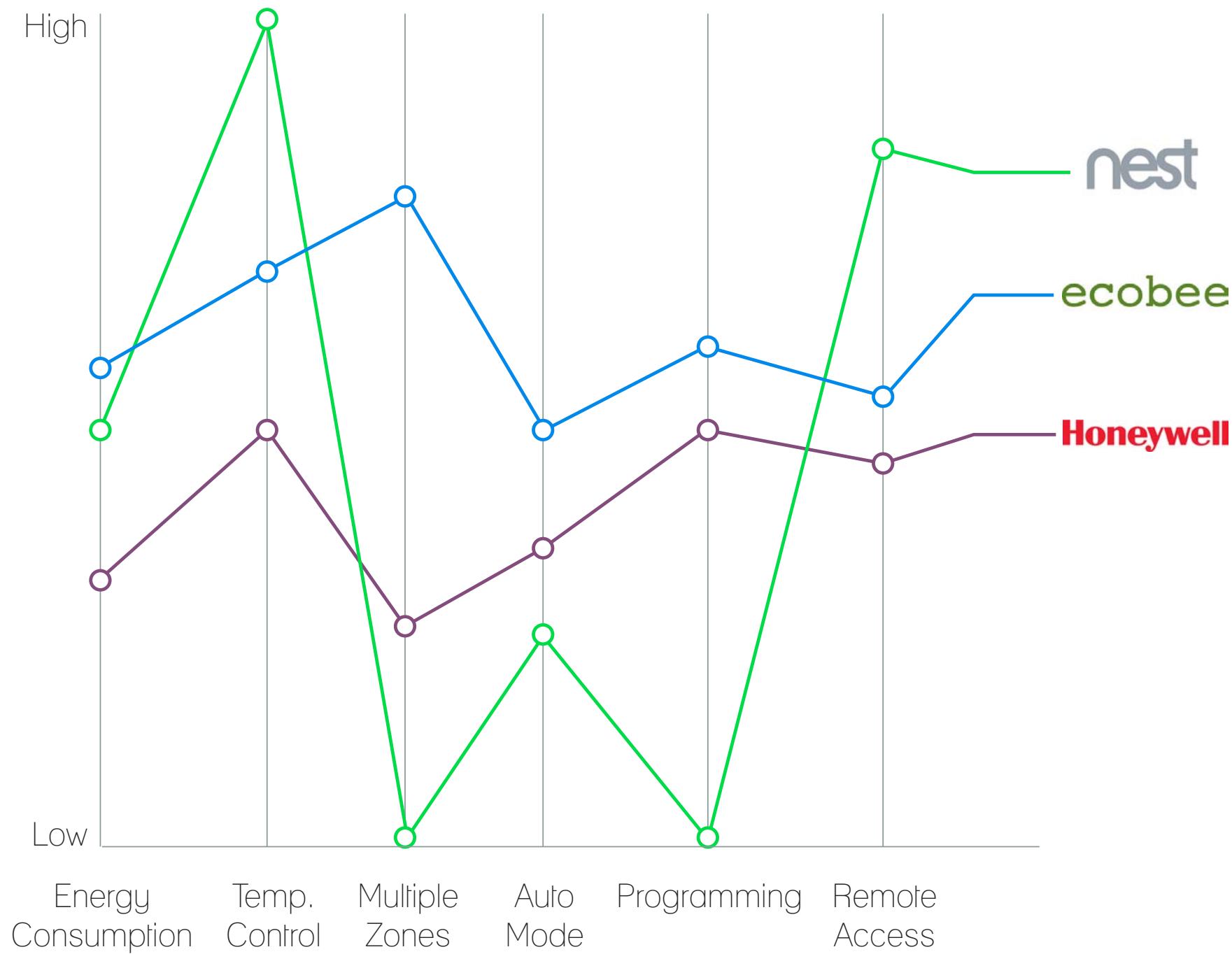
I want to control it anywhere

I just want it to work

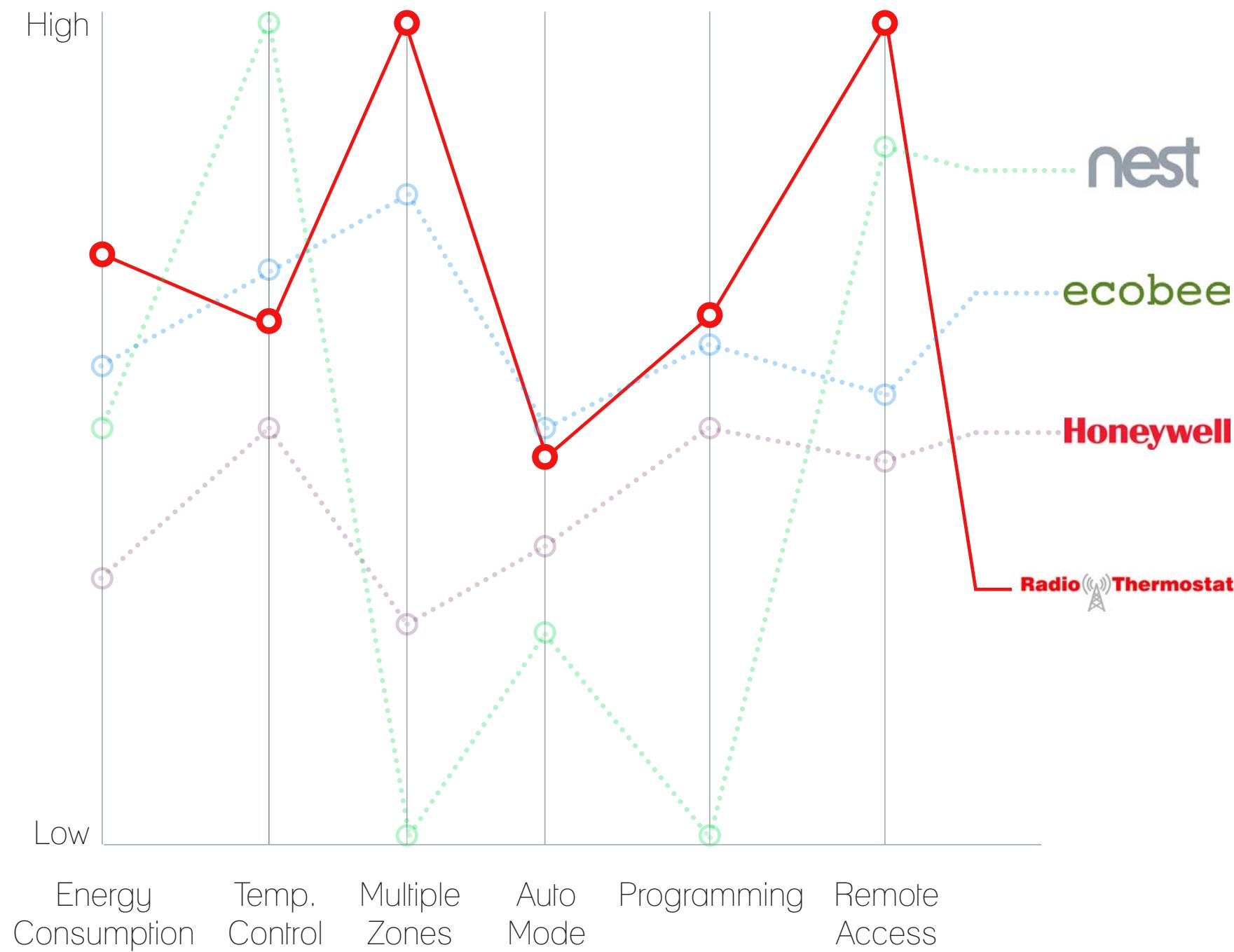
Strategy



Differentiation Chart



Differentiation Chart



Framework



The Short Shorts Company Design Principles

To seamlessly blend a simple programming process that would reduce users effort.

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To seamlessly blend a simple programming process that would reduce users effort.

To design experiences, not features, that would results in a memorable interaction between the user and the product.

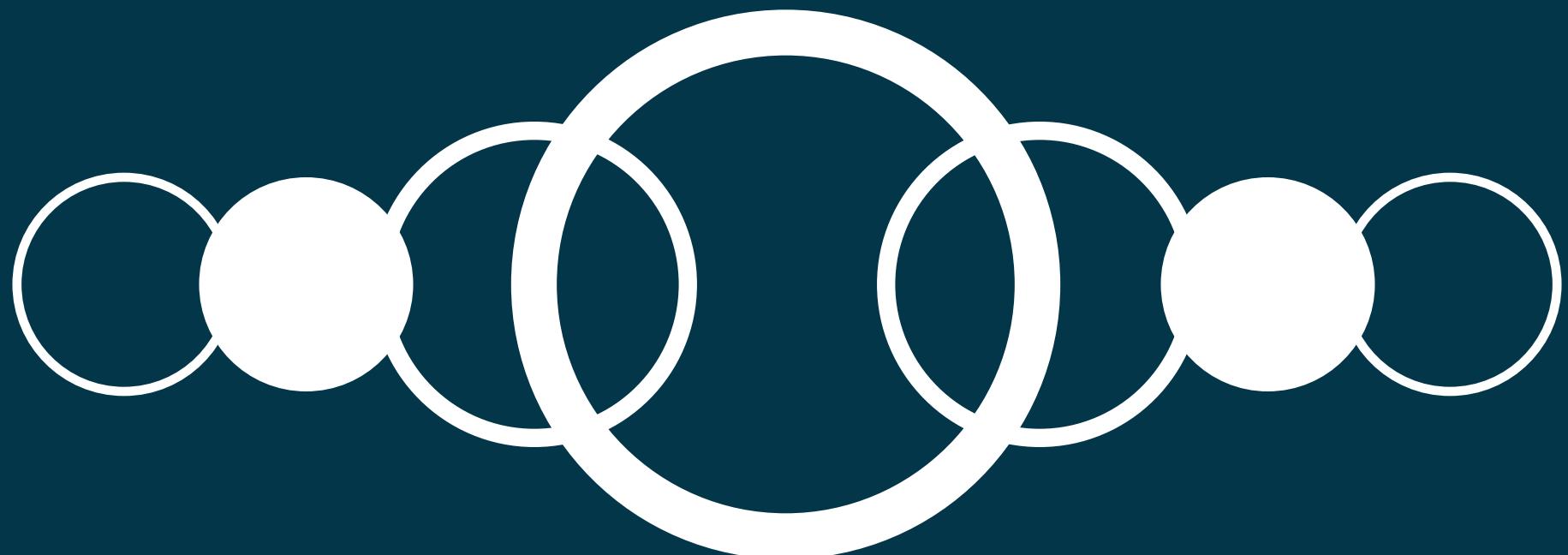
The Short Shorts Company Design Principles

To seamlessly blend a simple programming process that would reduce users effort.

To design experiences, not features, that would results in a memorable interaction between the user and the product.

To provide proper feedback so that users are aware of their actions.

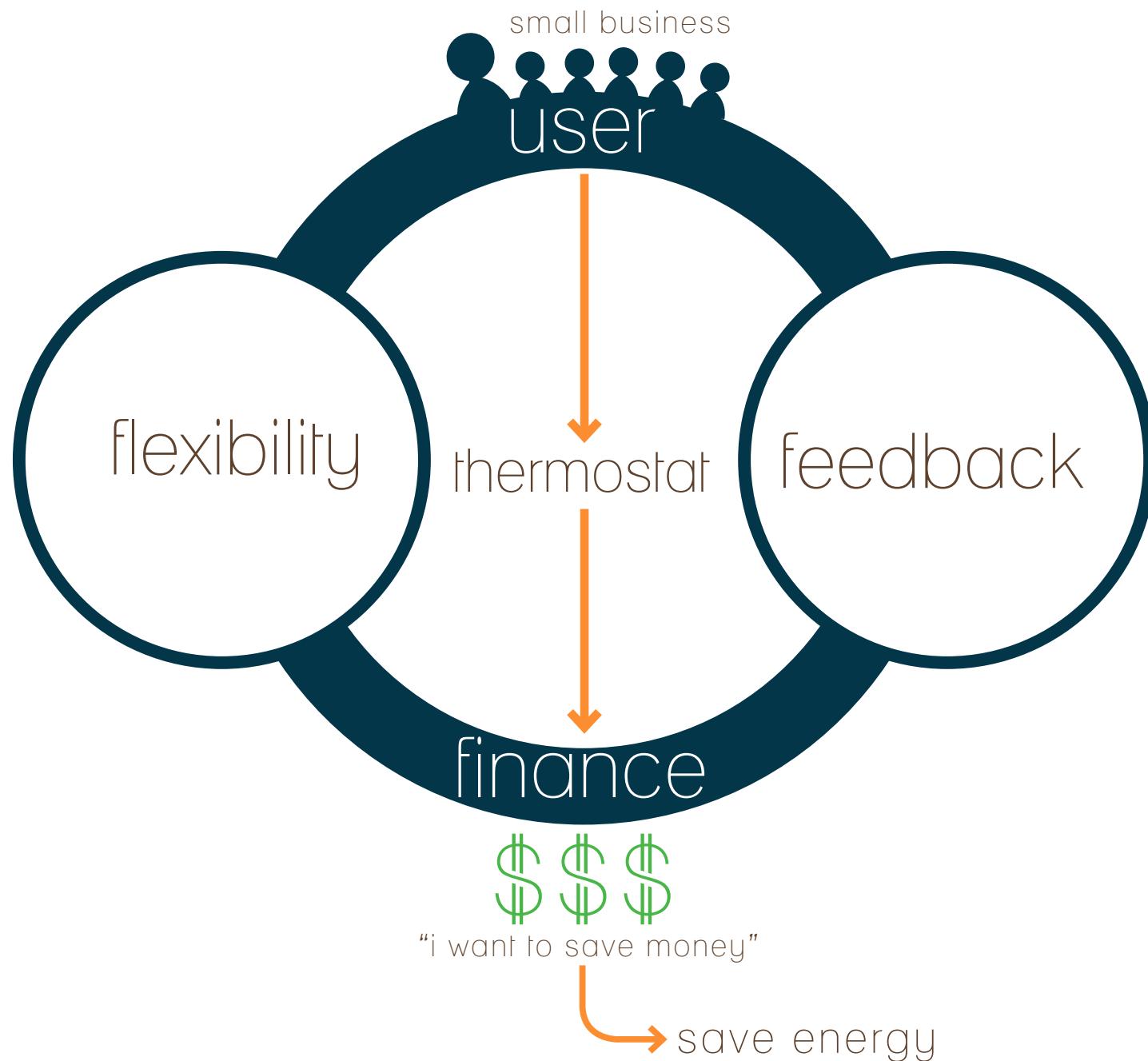
.....Conceptual Model.....



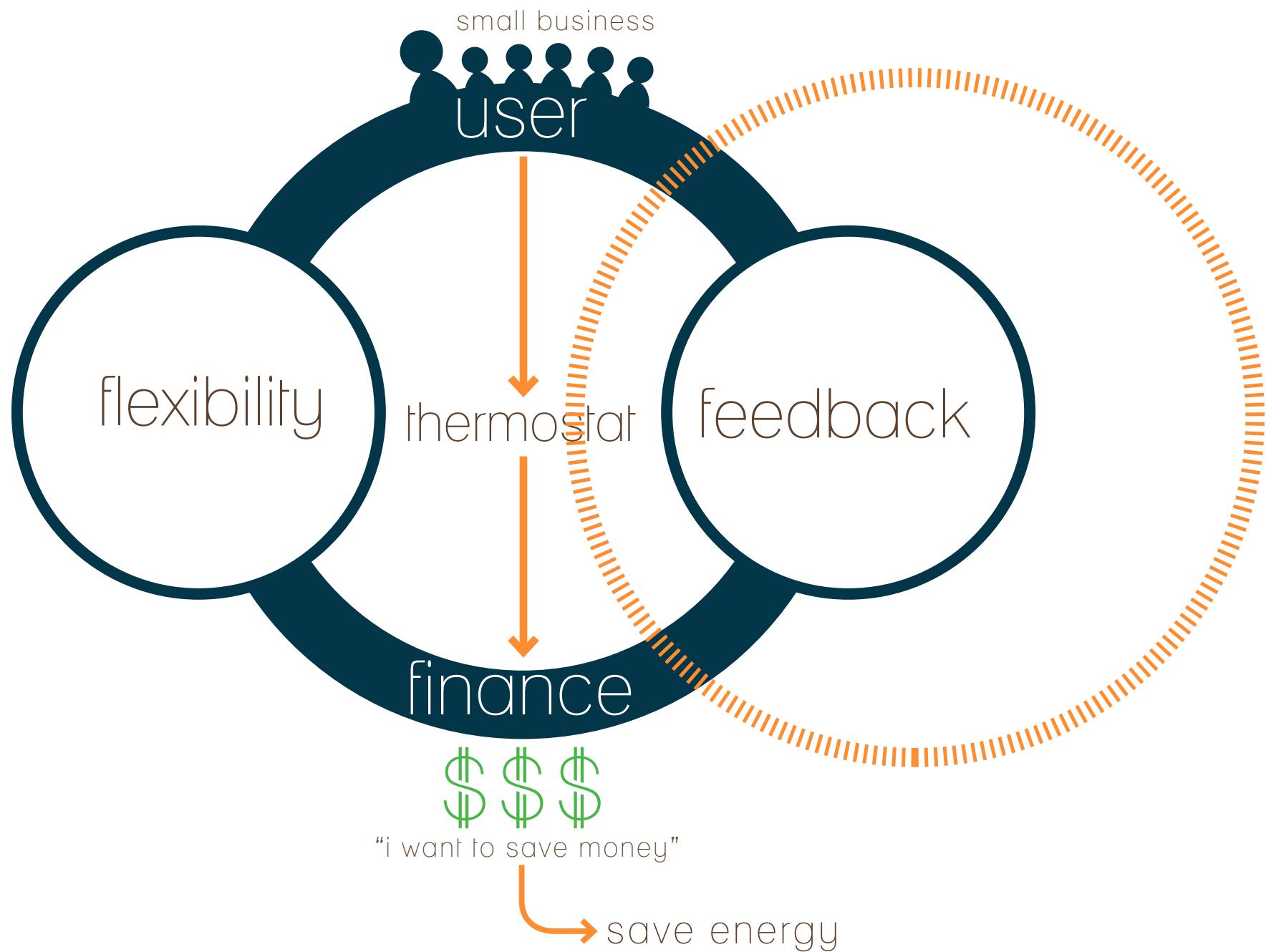
Conceptual Model



Conceptual Model



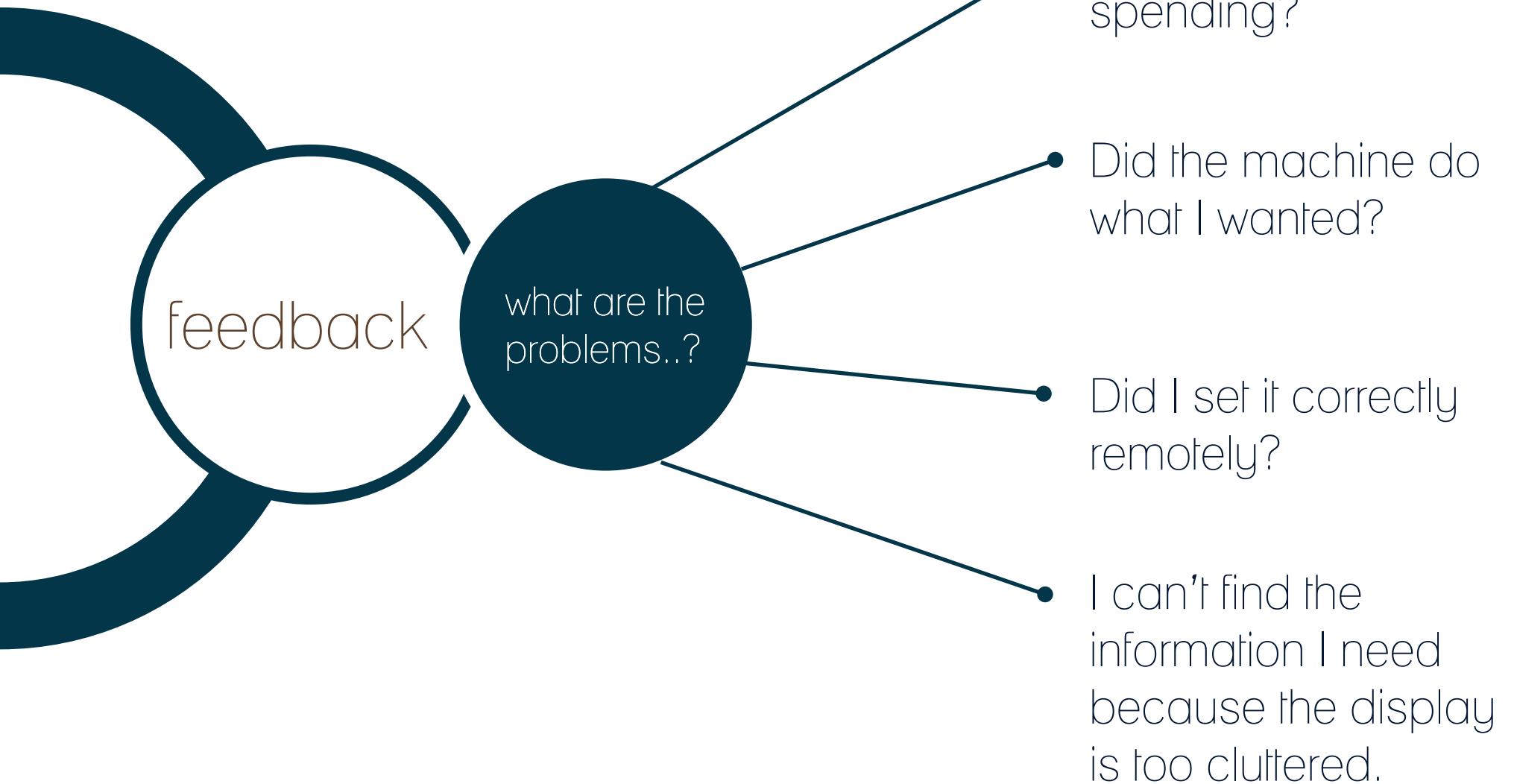
Conceptual Model



Conceptual Model



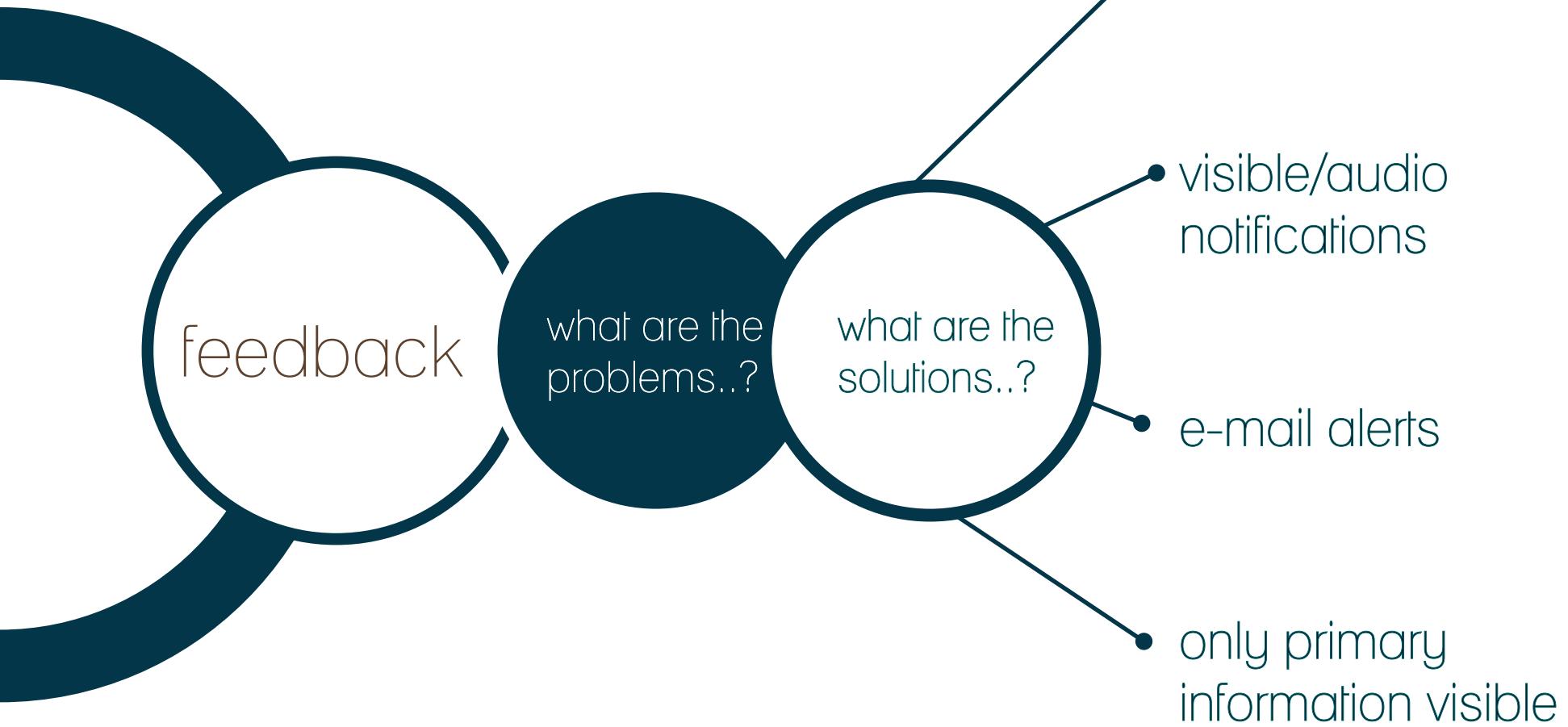
Conceptual Model



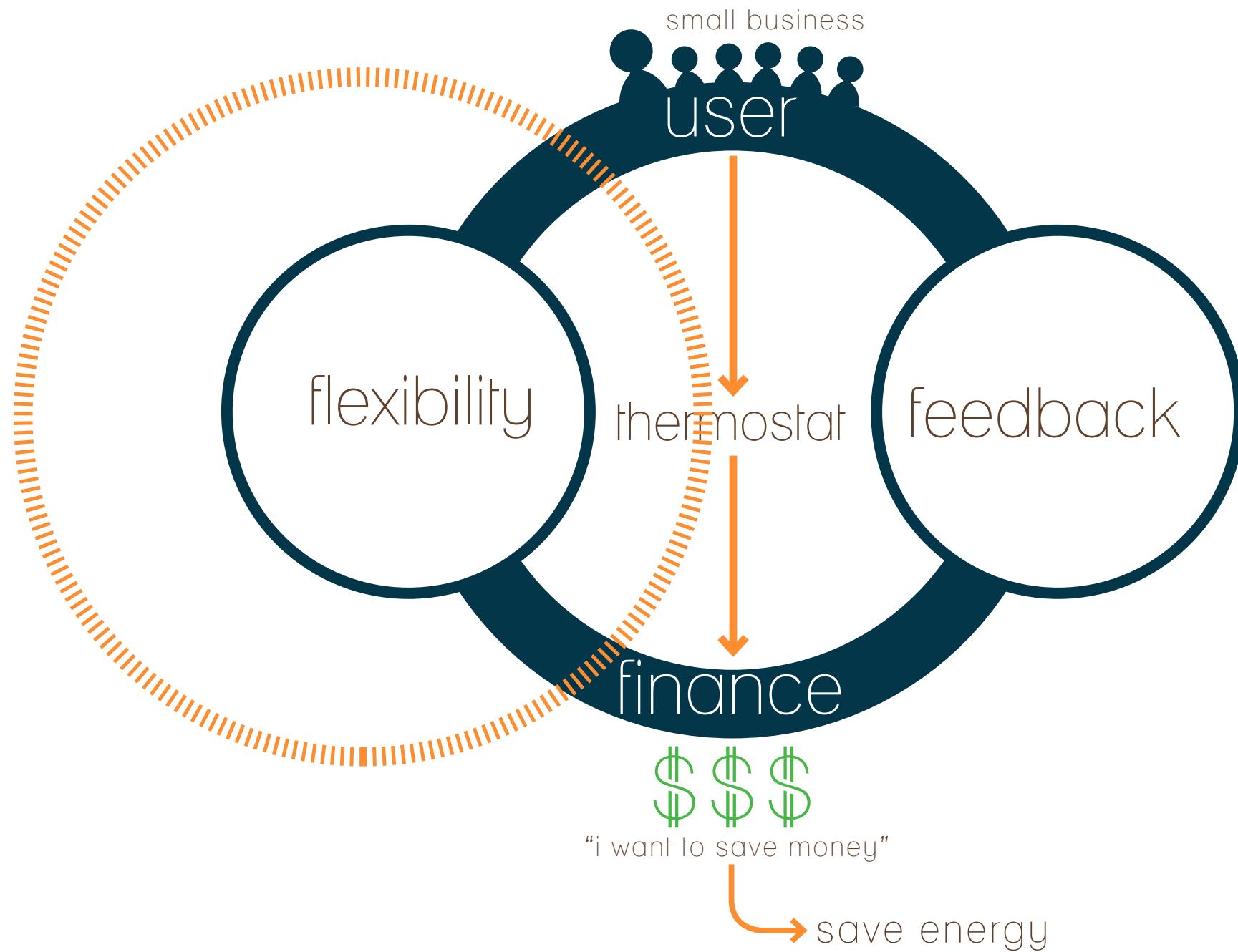
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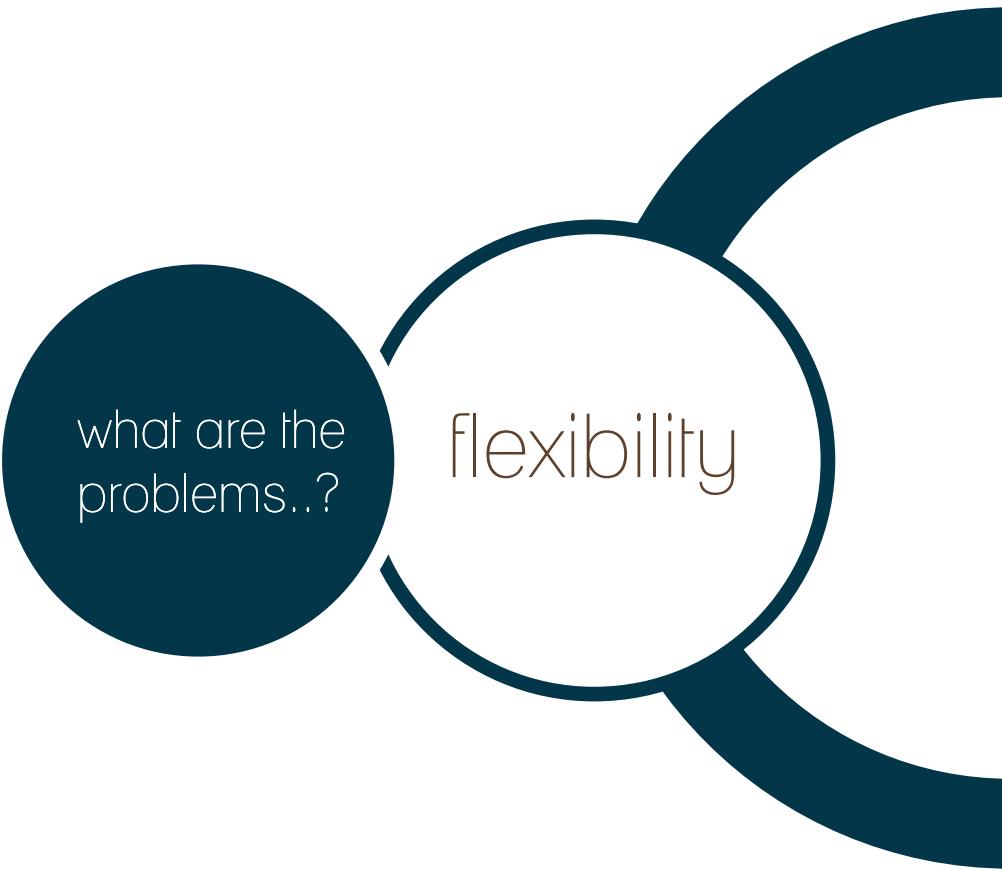
Conceptual Model



Conceptual Model



Conceptual Model

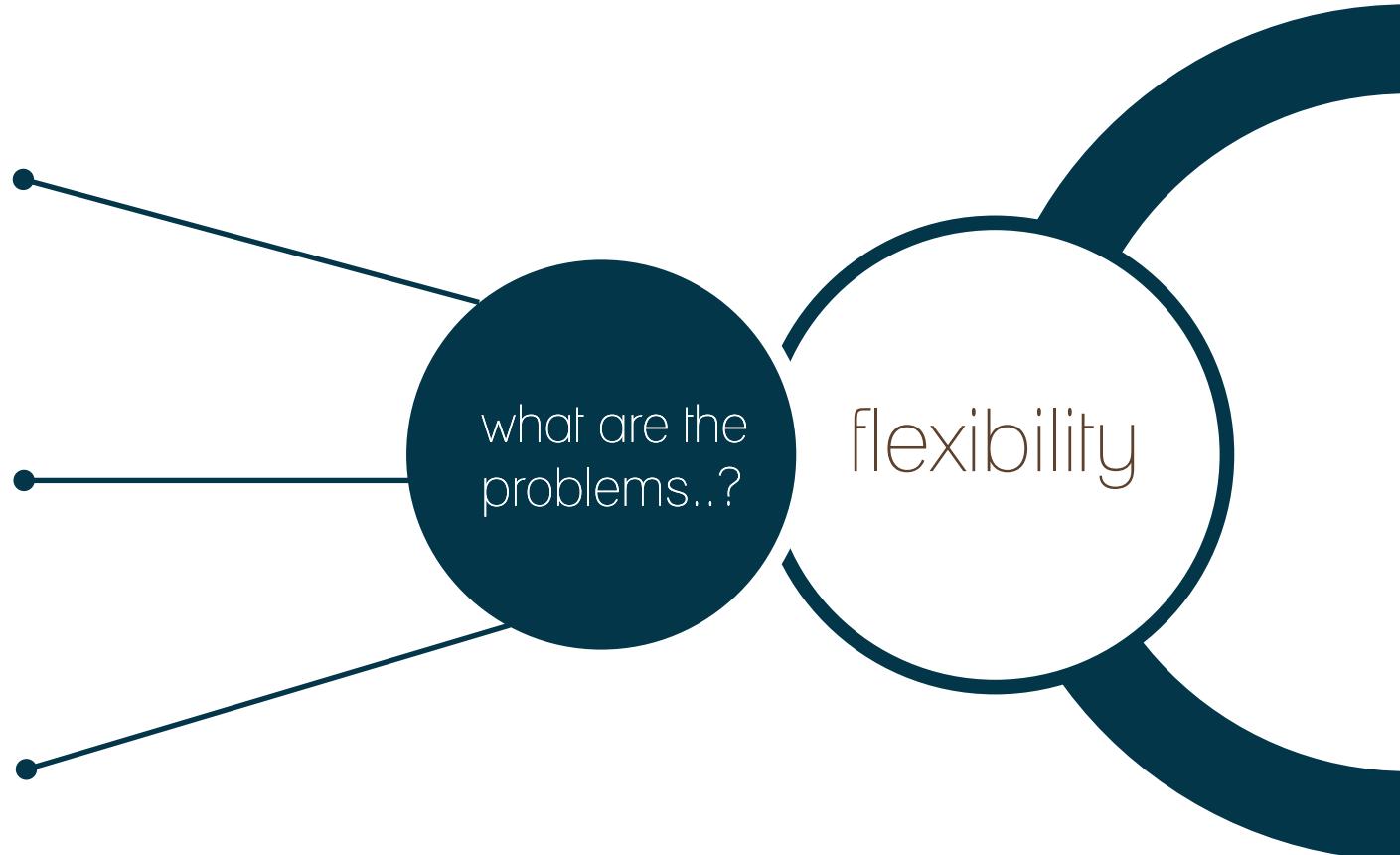


Conceptual Model

I forgot to turn off my thermostat!

It's cold in one room and hot in another, how do I fix that?

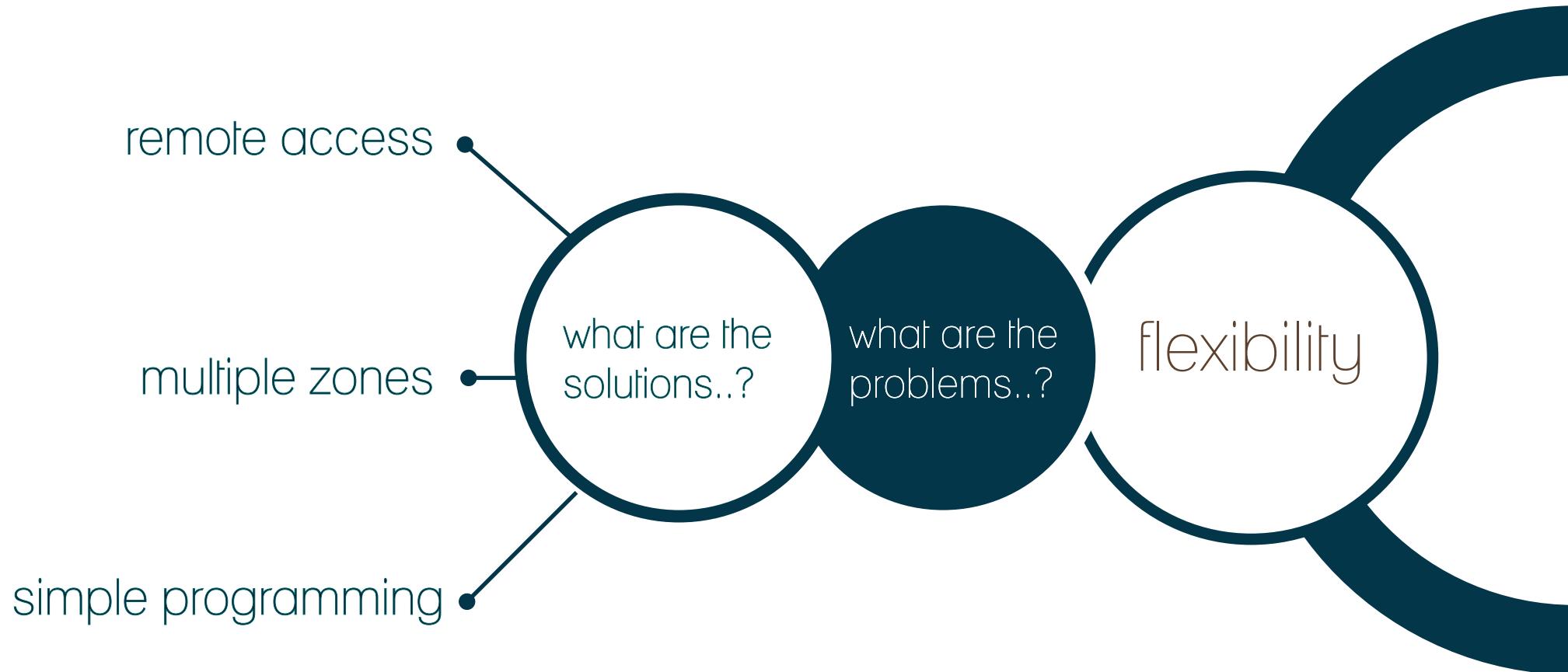
I don't know how to set the program because it's too complicated.



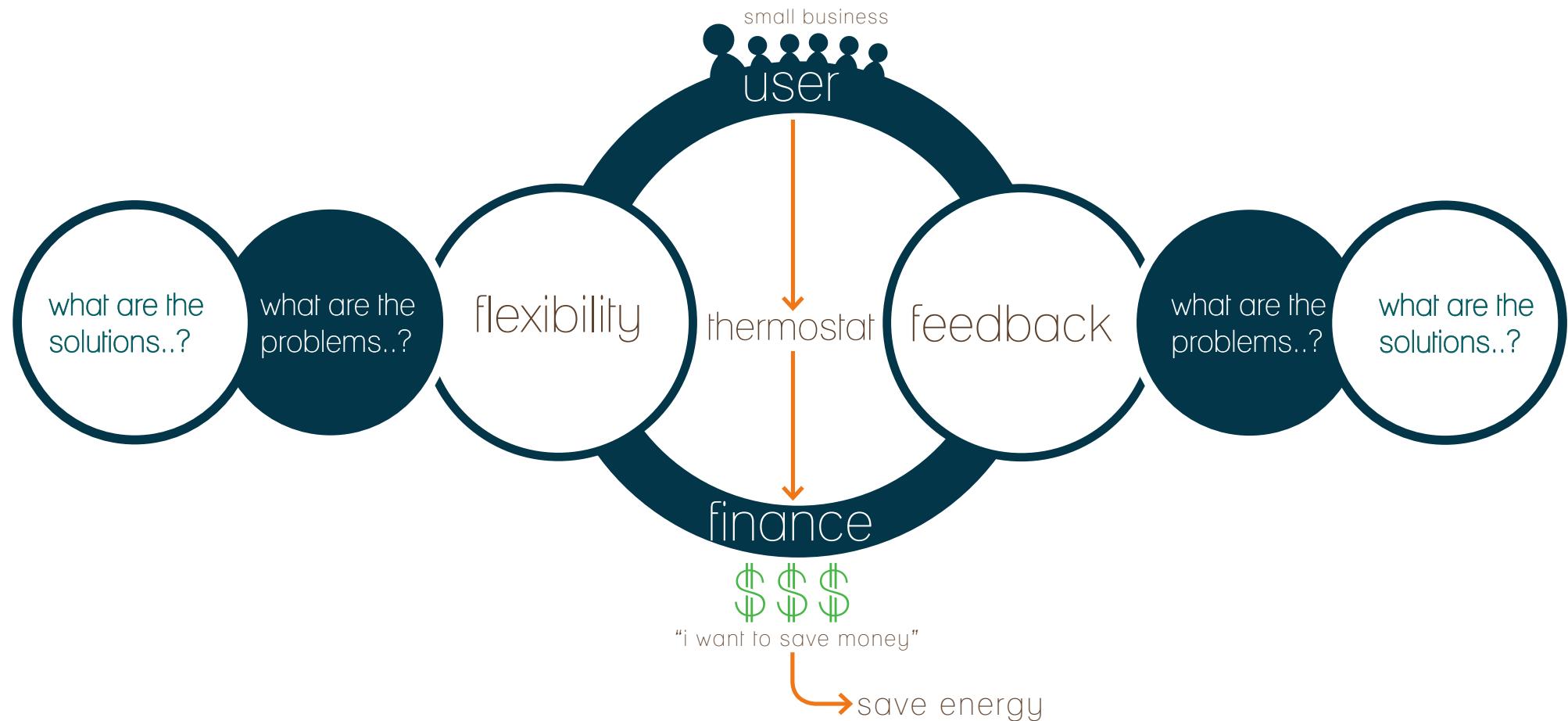
Conceptual Model



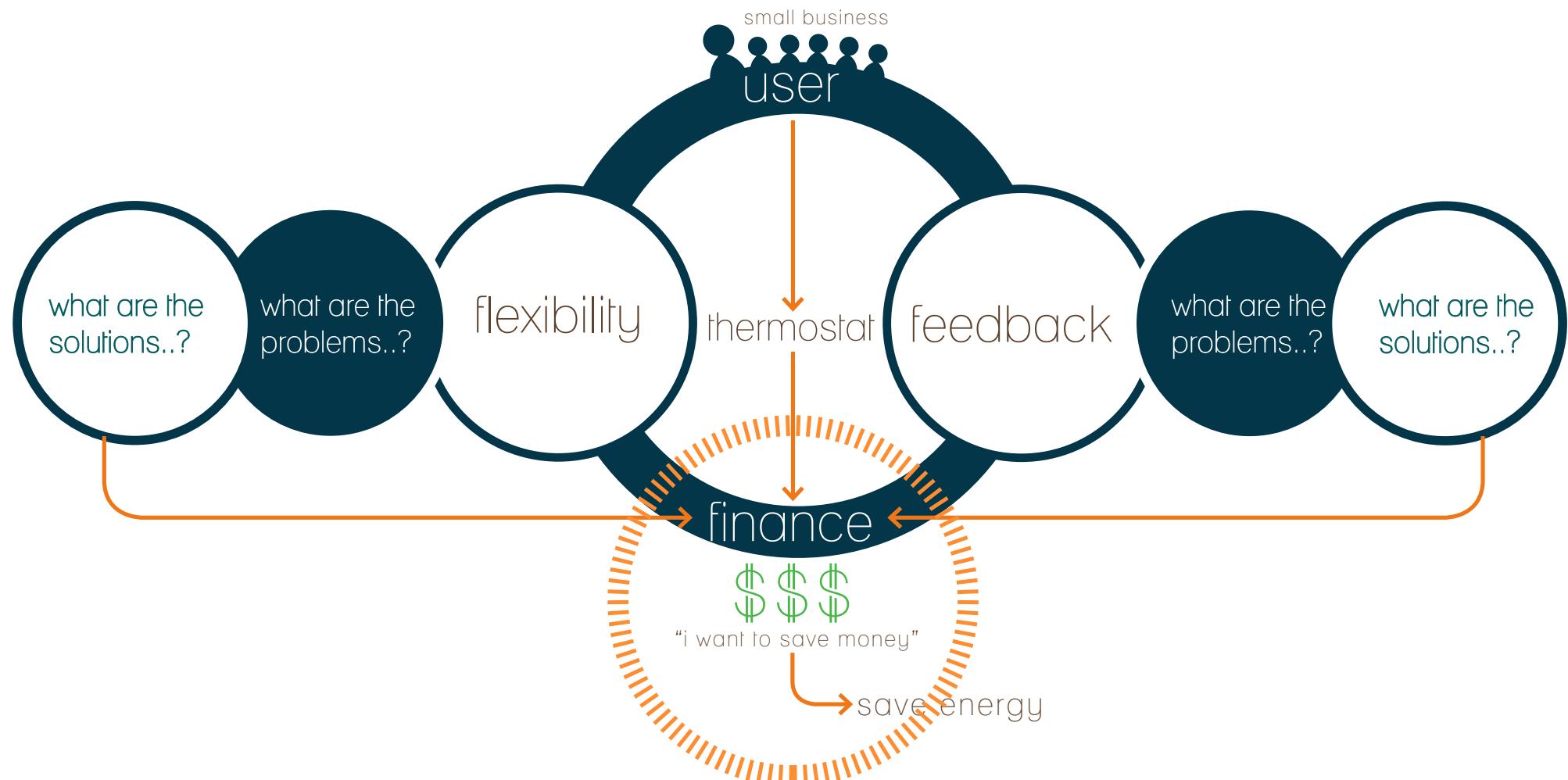
Conceptual Model



Conceptual Model



Conceptual Model



Storyboard



Thermostat sets temperature within a certain range based on the weather forecast.

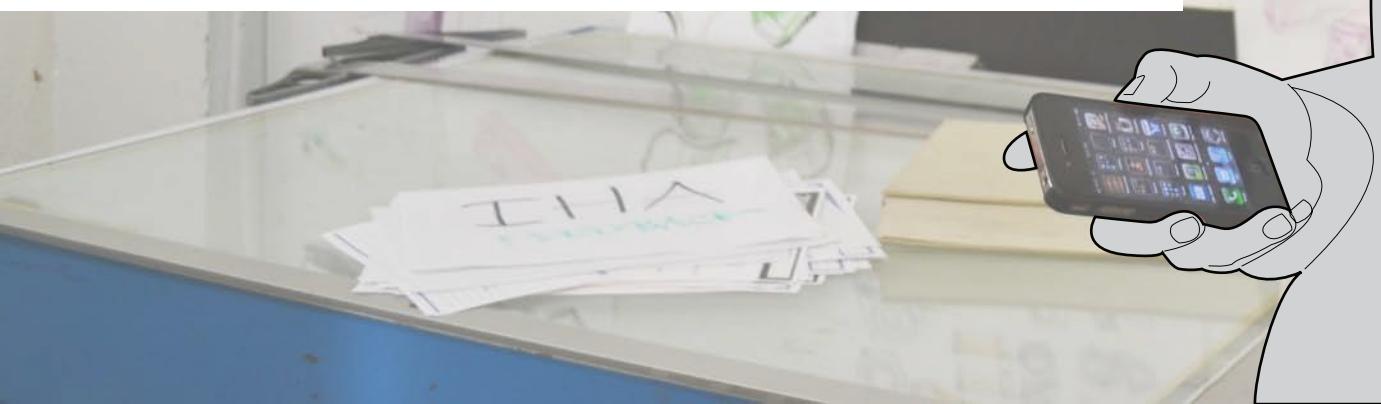
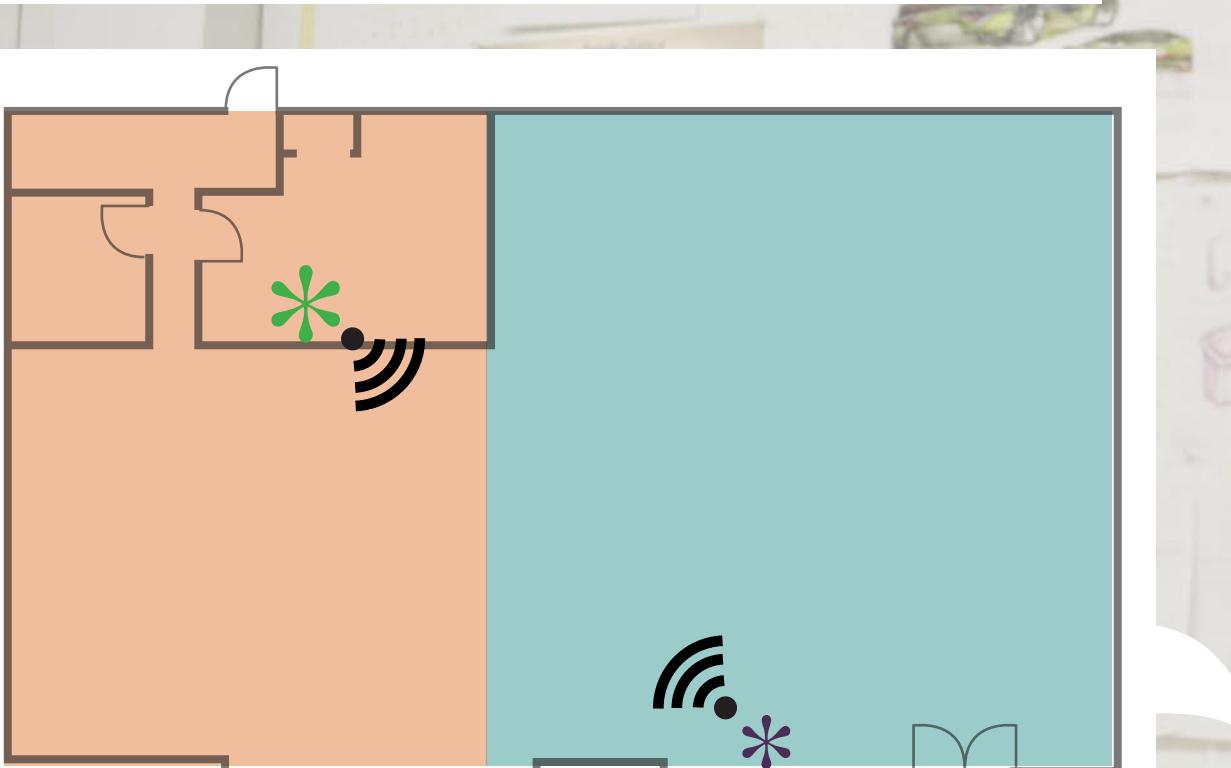
The owner arrives to start her day at work and has her iPhone with her.



The GPS on her iPhone activates the thermostat to turn on and she can continue with her daily routine without interruption.



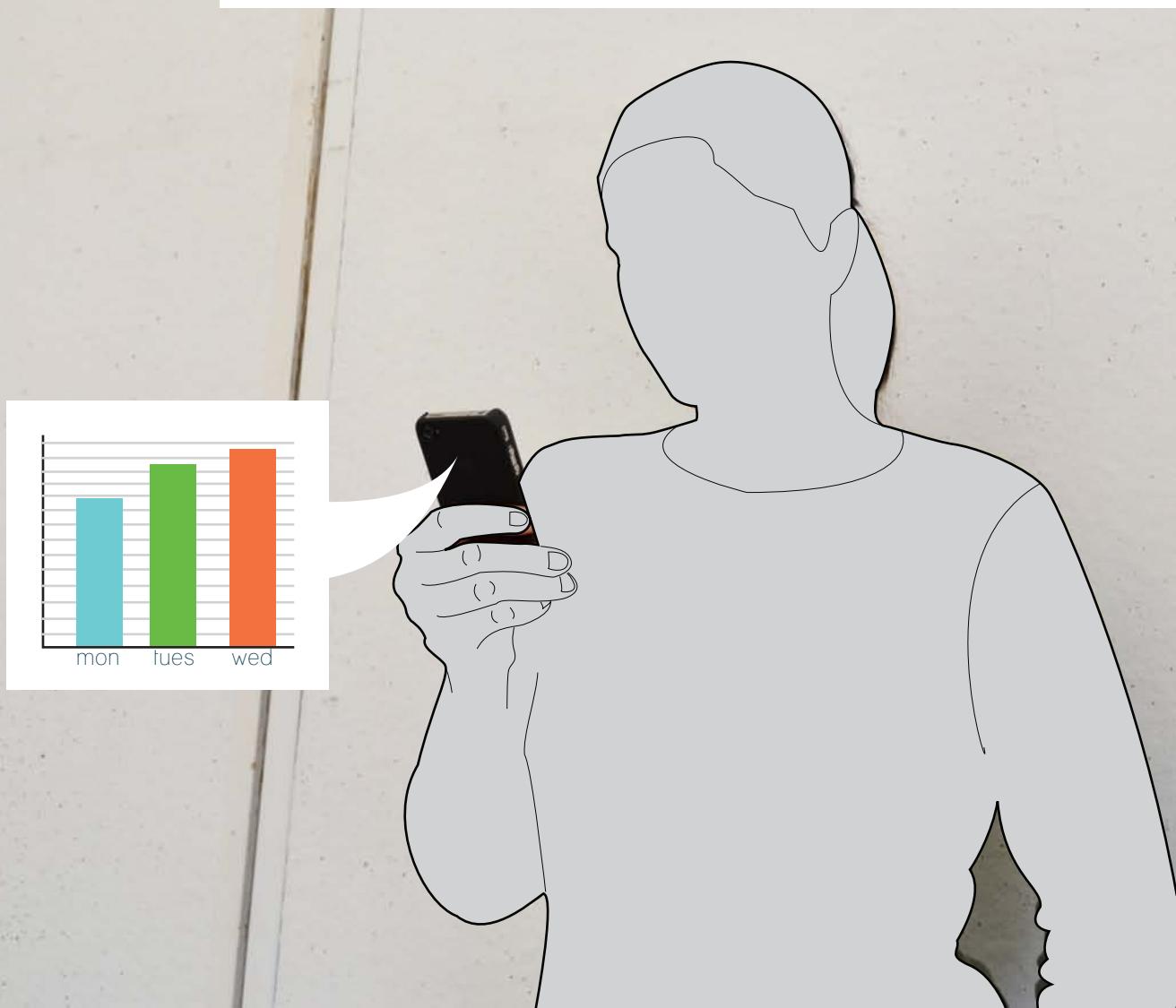
An employee wants to change the temperature in the zone she is in so she uses the app on her iPhone.



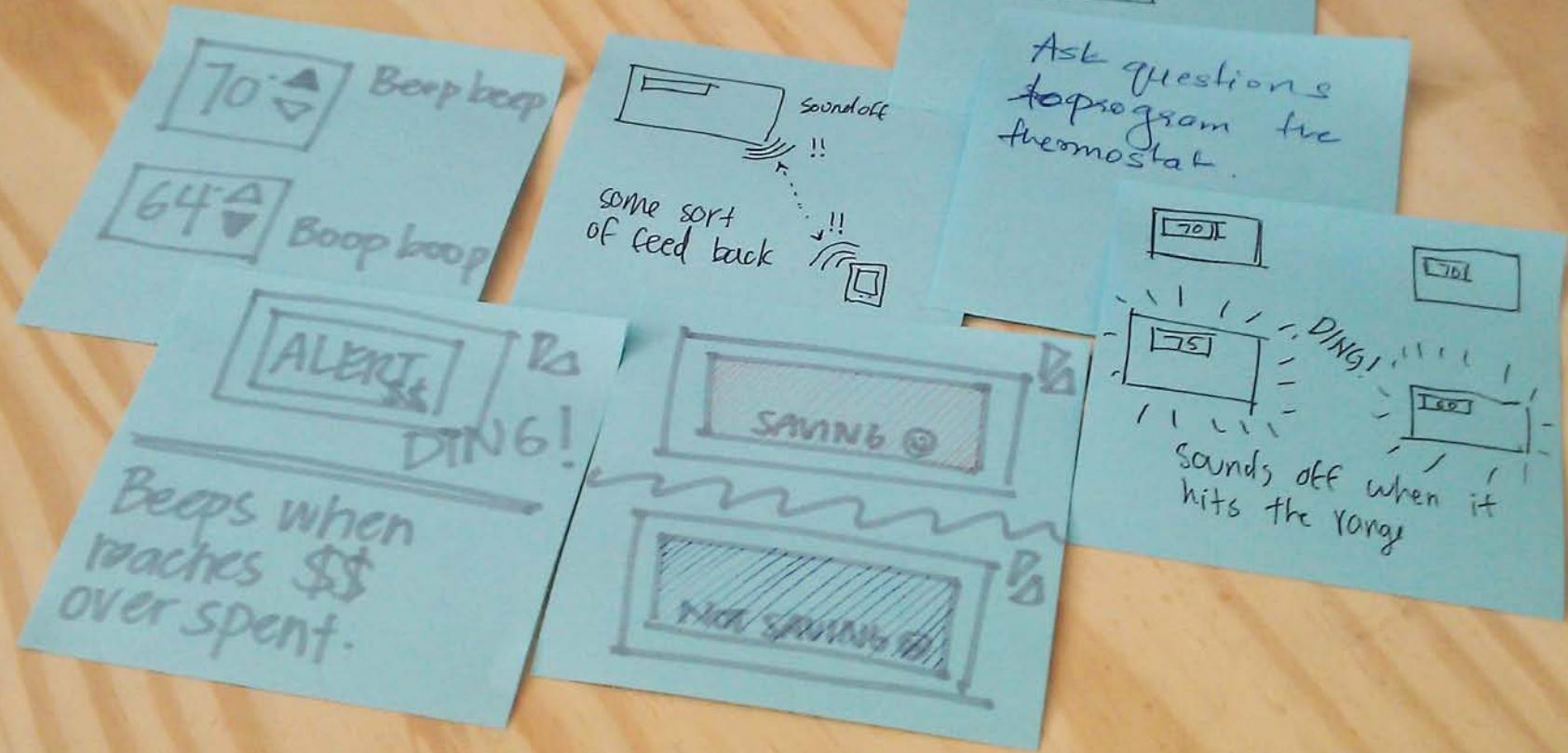
The manager is notified when there is a change.



At the end of the day, the manager gets a report of how much money was spent. If she is unhappy with the amount spent, she can use the app to find ideal settings to fit the business budget.



Feature Sets

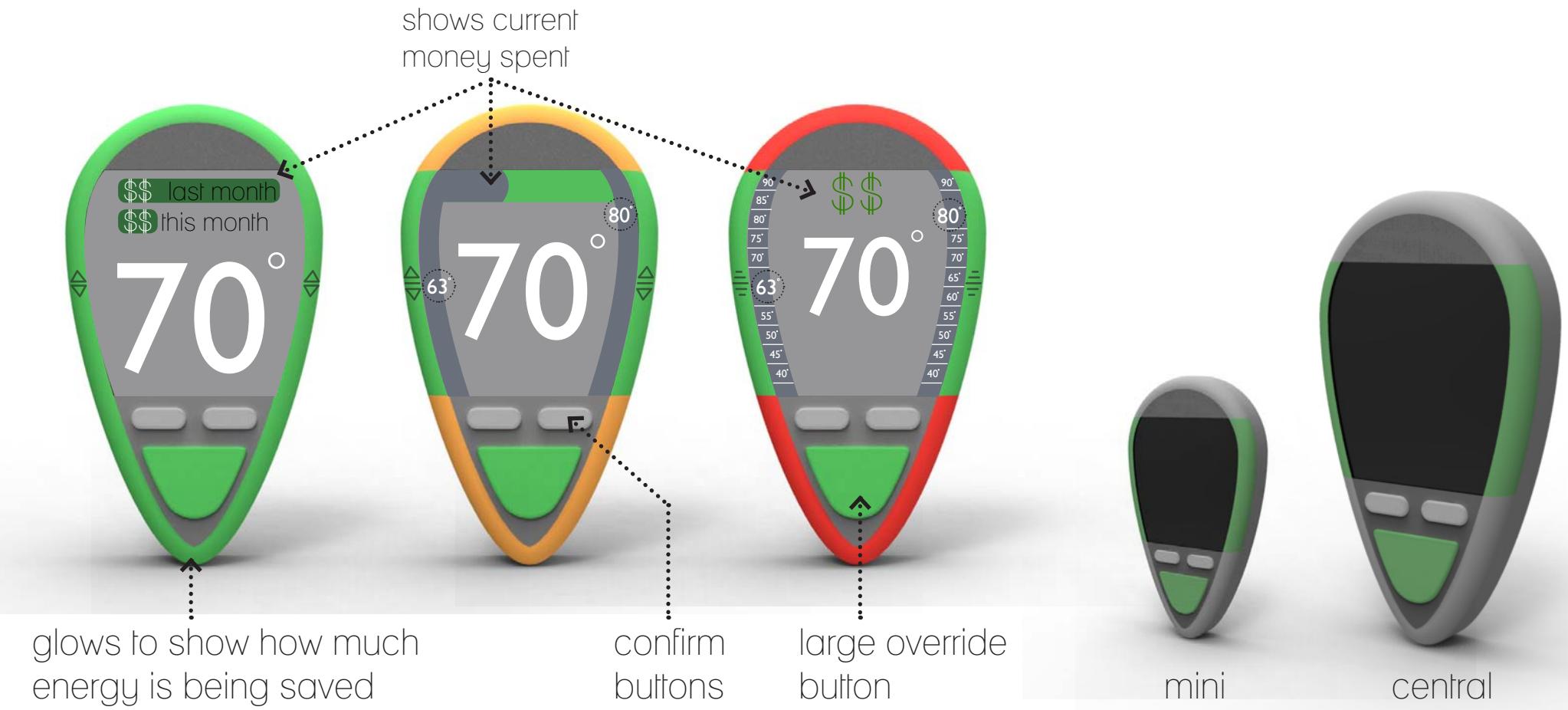


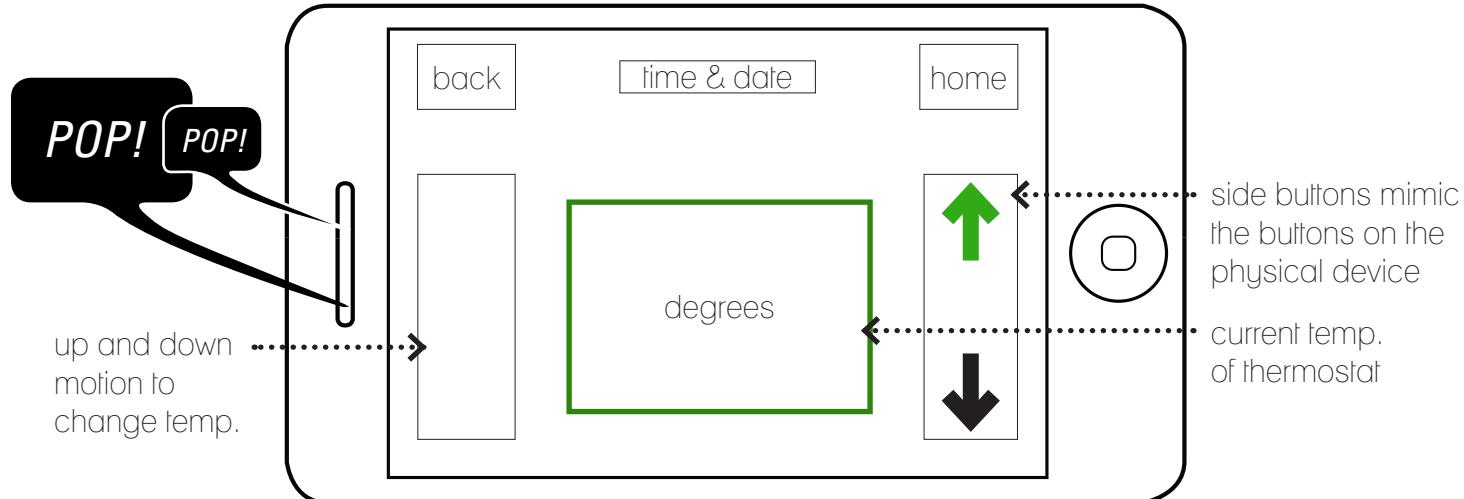
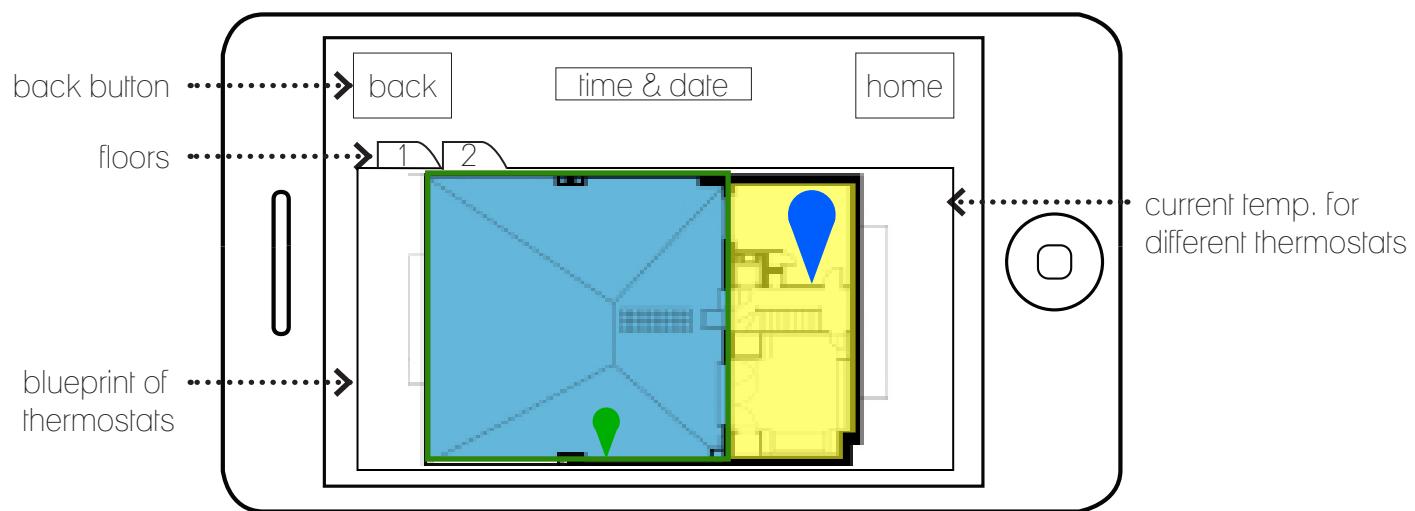
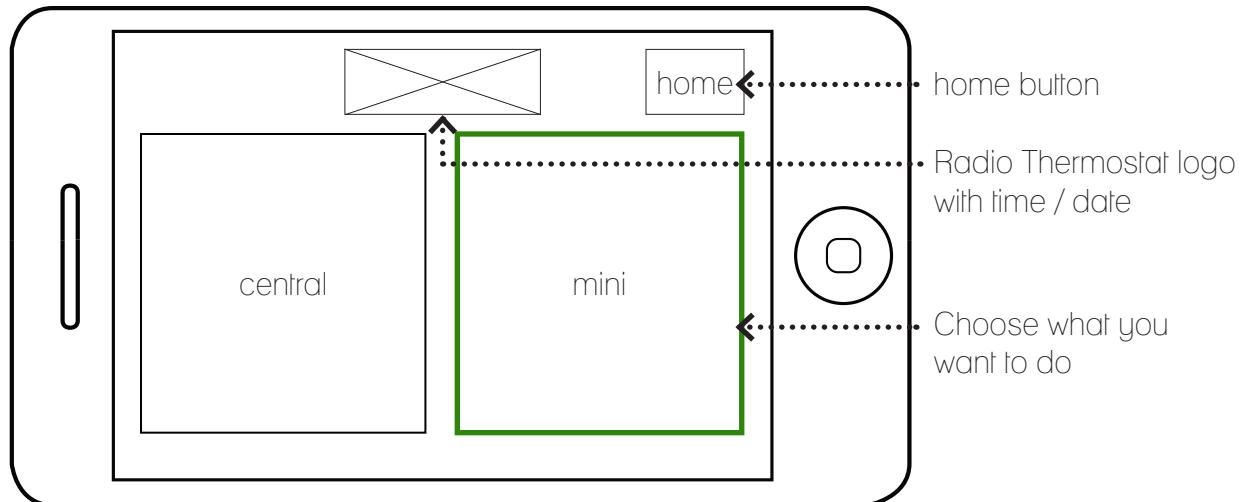
The Short Shorts Company brainstorms **possible solutions**.

Trevor's Feature Set:



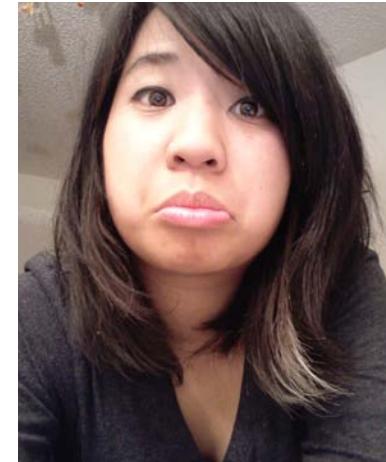
Must have audio feedback





Alyssa's Feature Set:

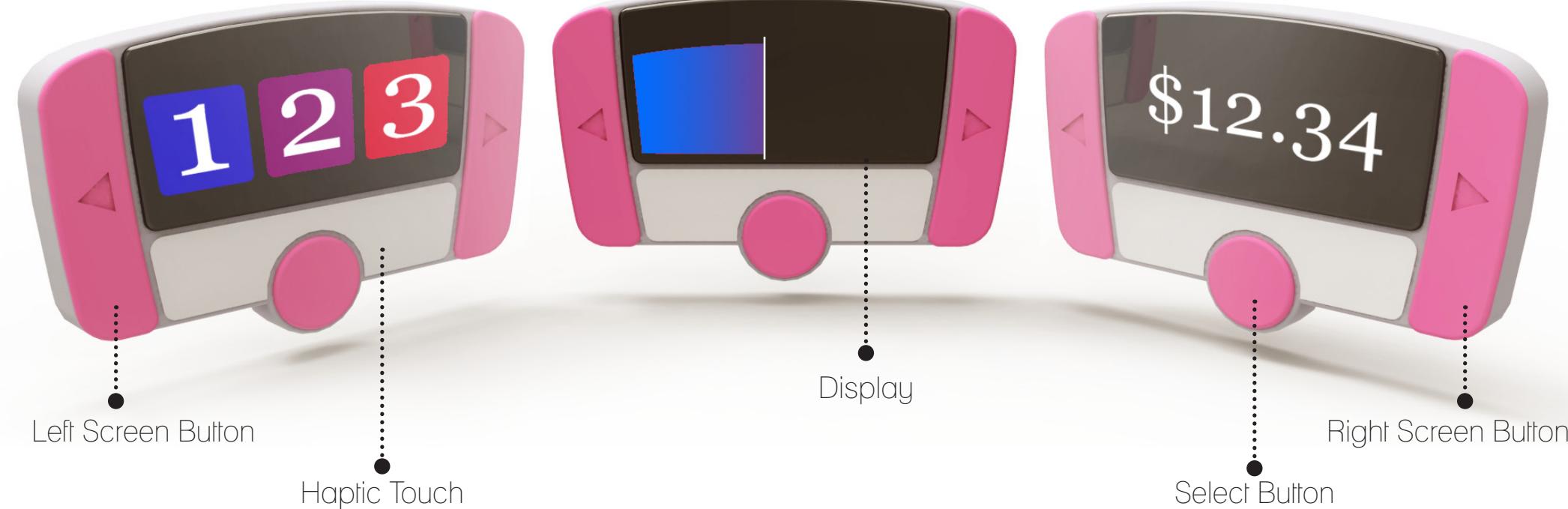
I can't show numerical temperature!

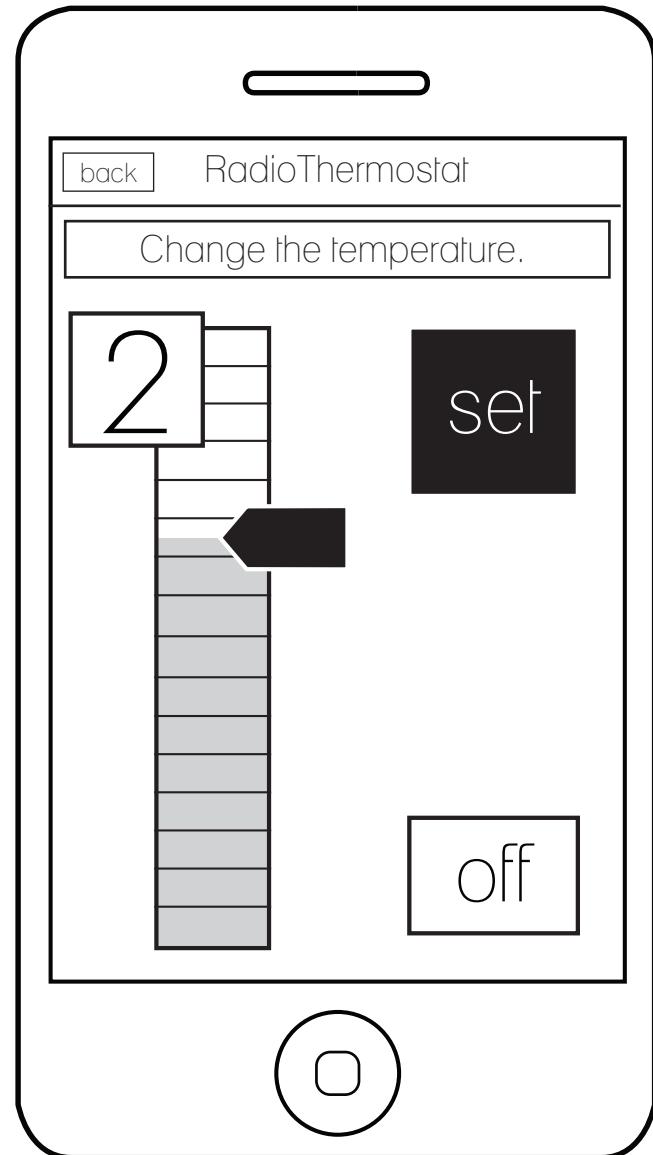
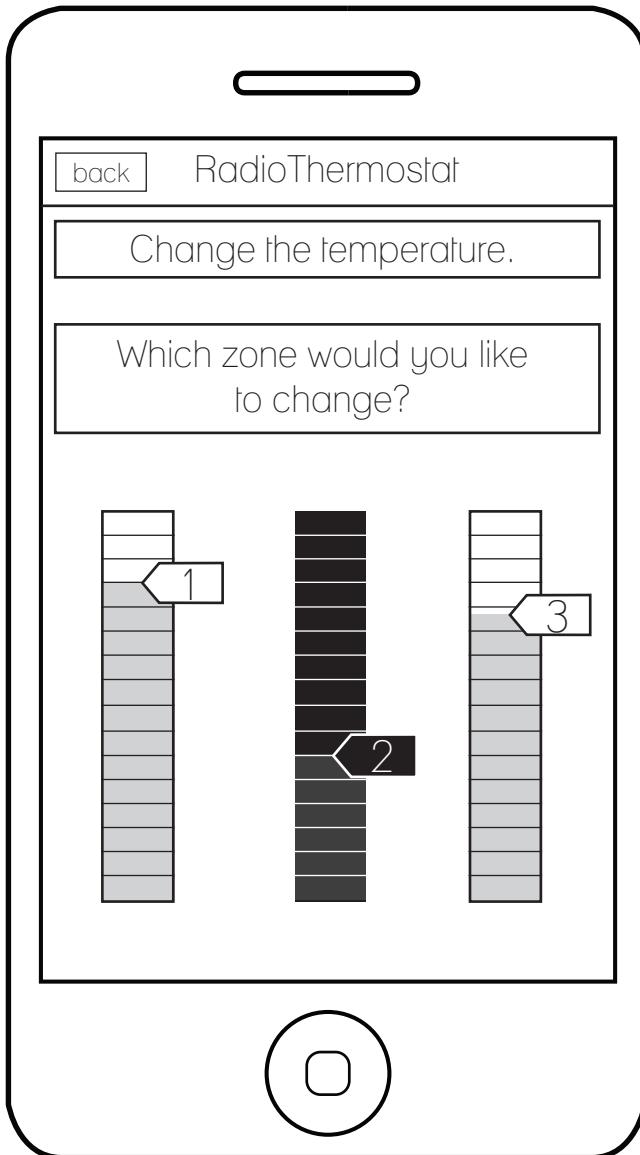
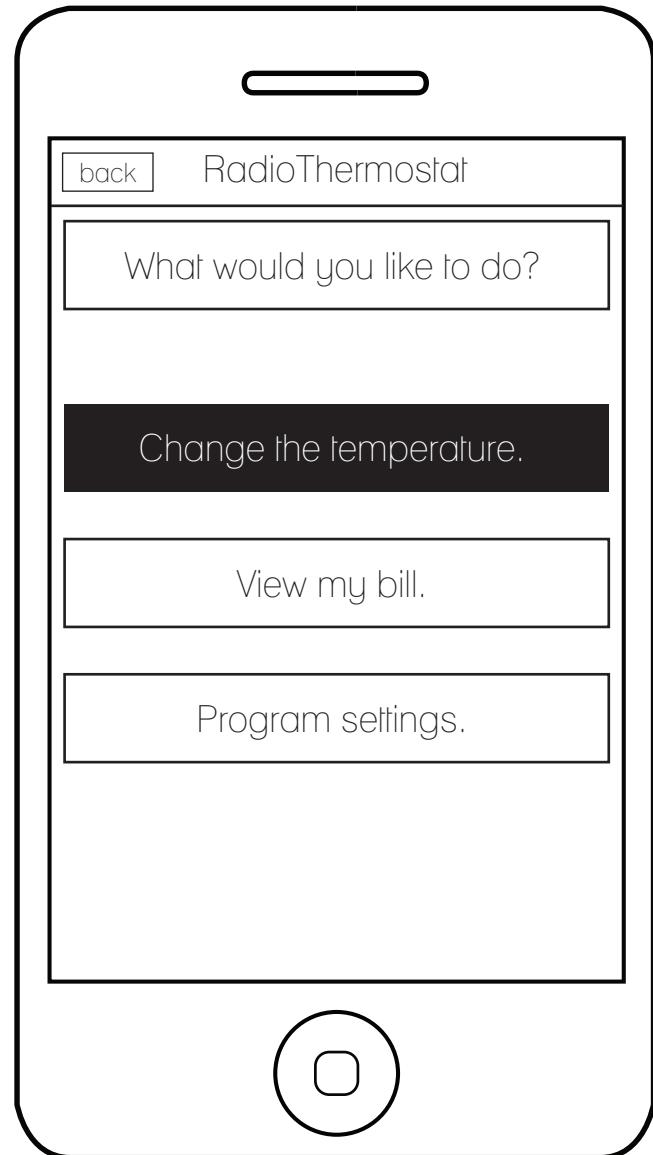


Zone Status Screen

Temperature Screen

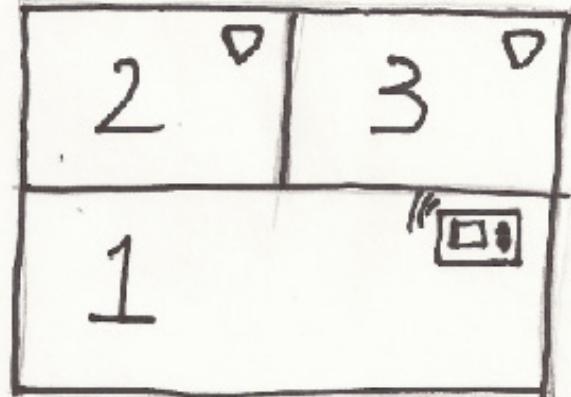
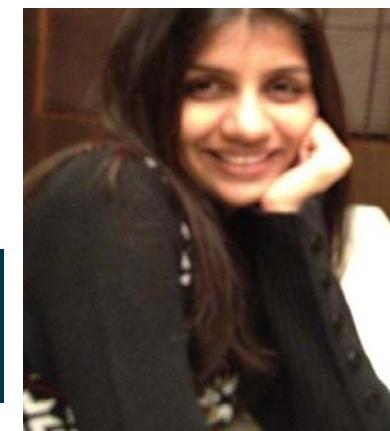
Money Spent Screen





Ashna's Feature Set:

I have to create an iOS and Android app.



Multiple zones creates cold/hot spots



Manager has iPhone and updates the temperature of the mother thermostat through the app



Employee from Zone 2 does not have an iPhone but has an Android and has been given access to a mini thermostat



Employee changes the temperature of the mini thermostat through Android app



Manager receives notifications about the change in temperature in mini thermostat through iPhone app

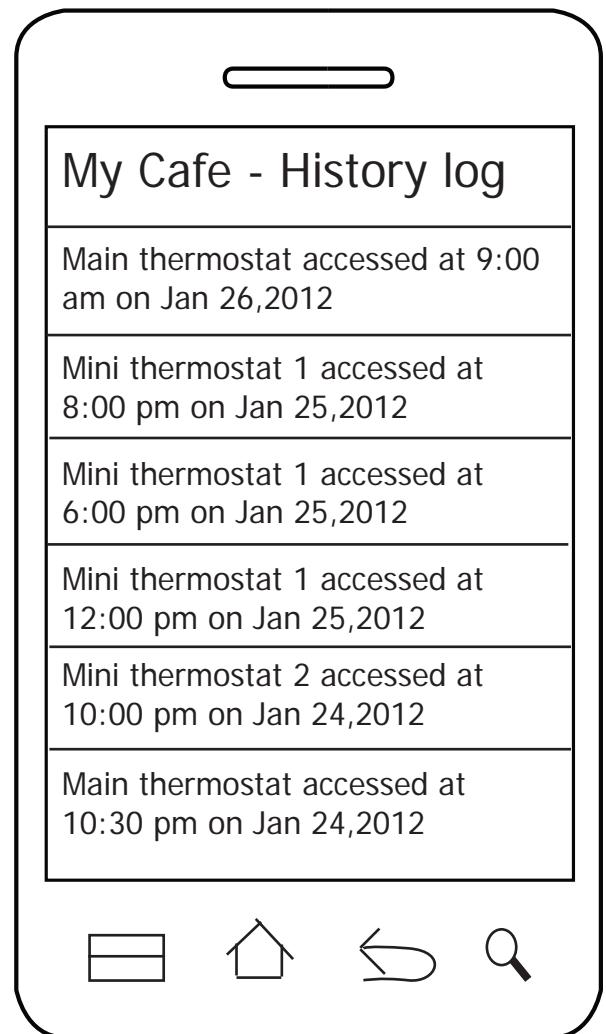
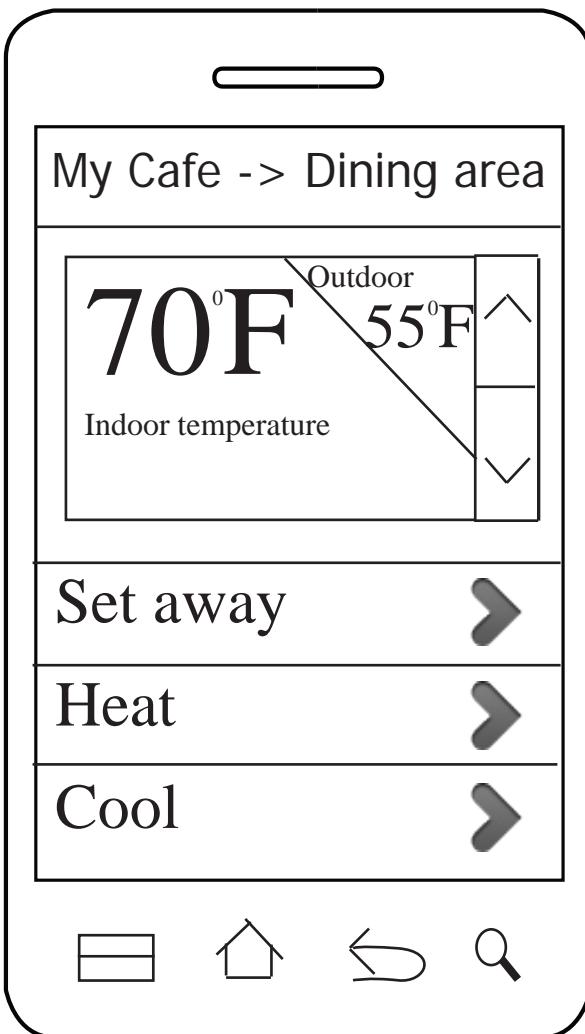
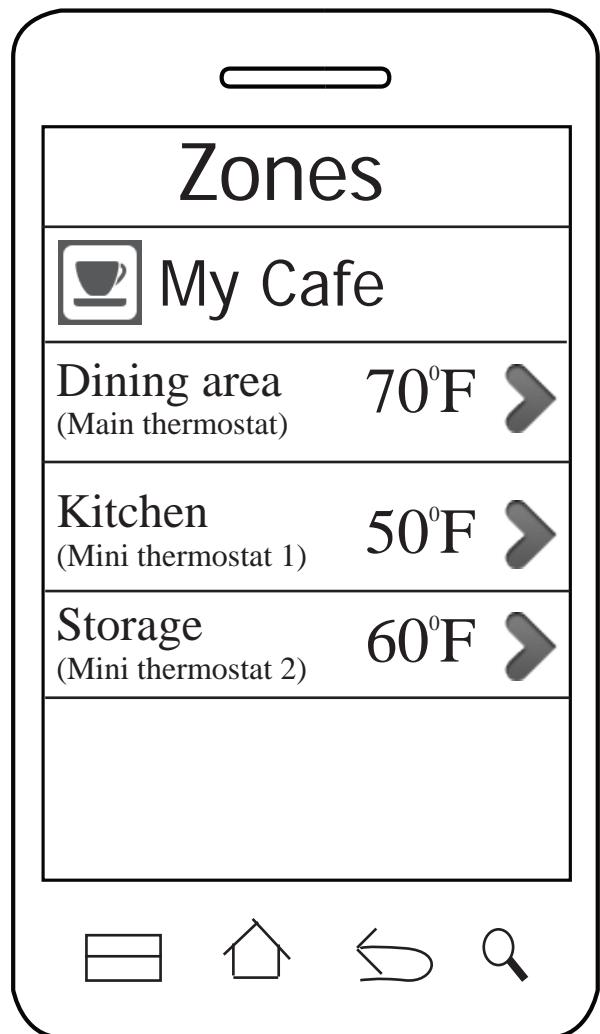


Both the users' are satisfied

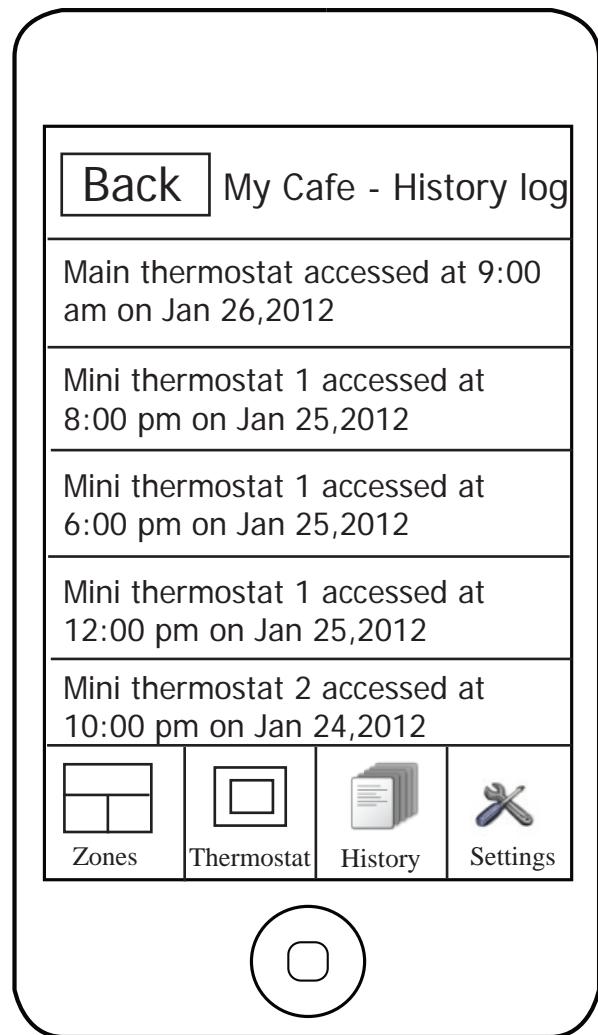
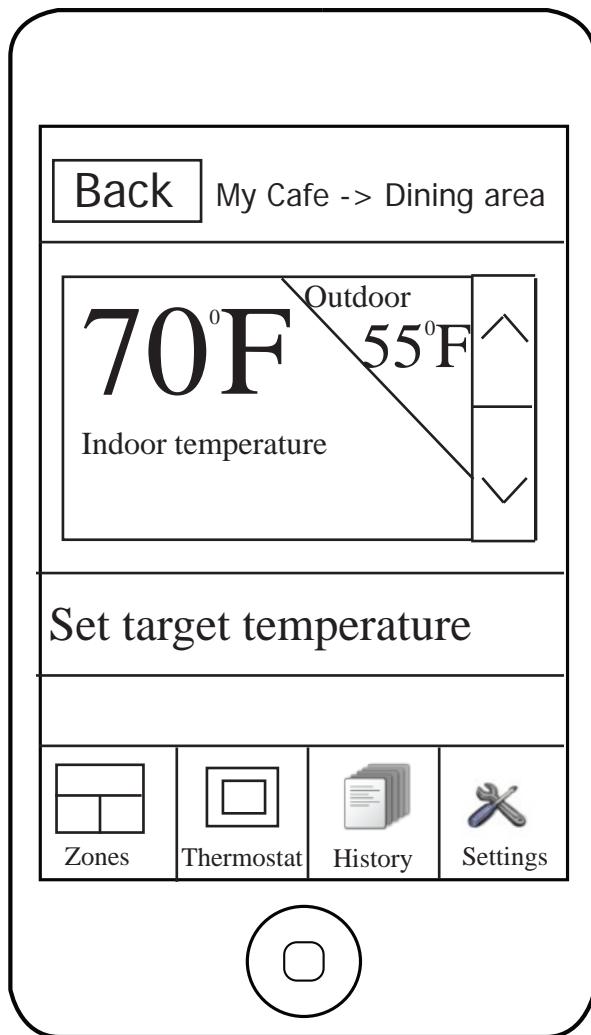
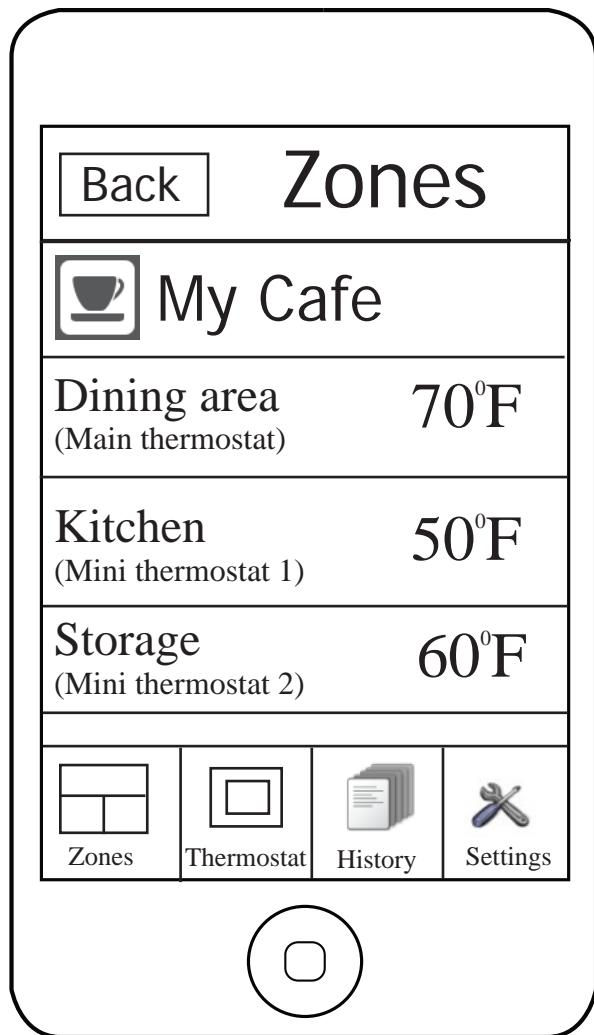
My thermostat design



Android app

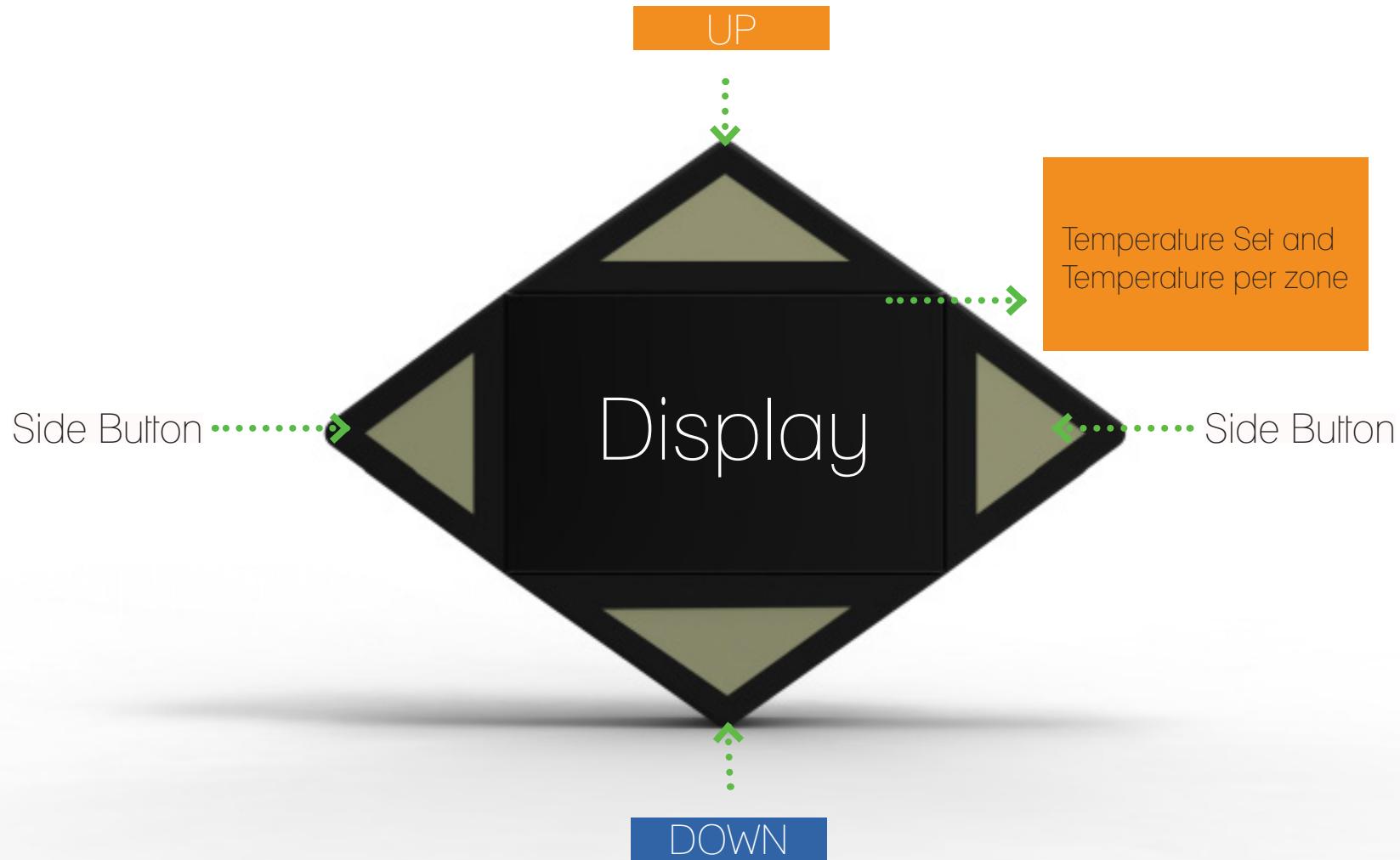


iPhone app



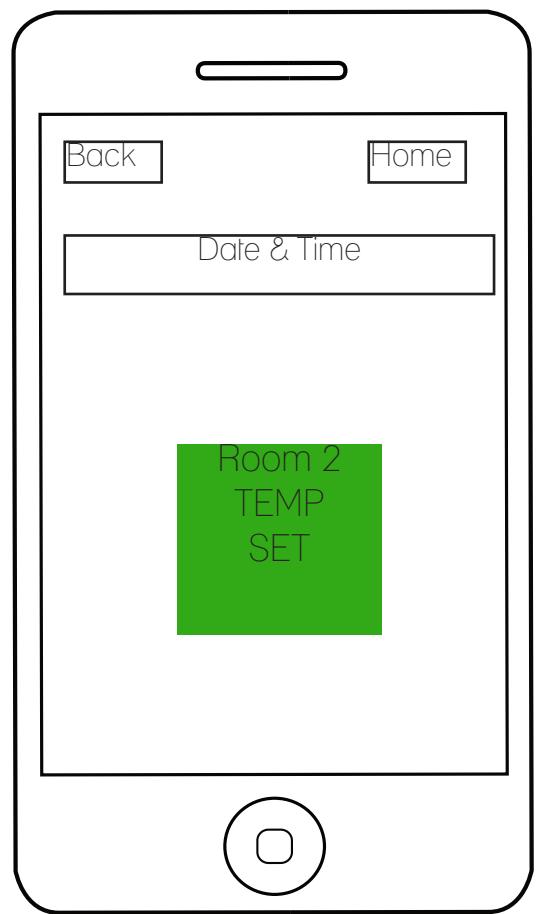
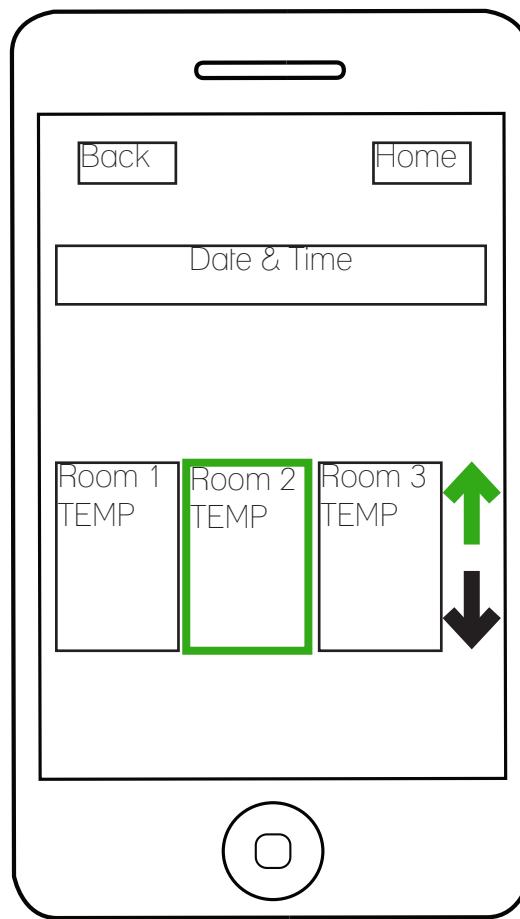
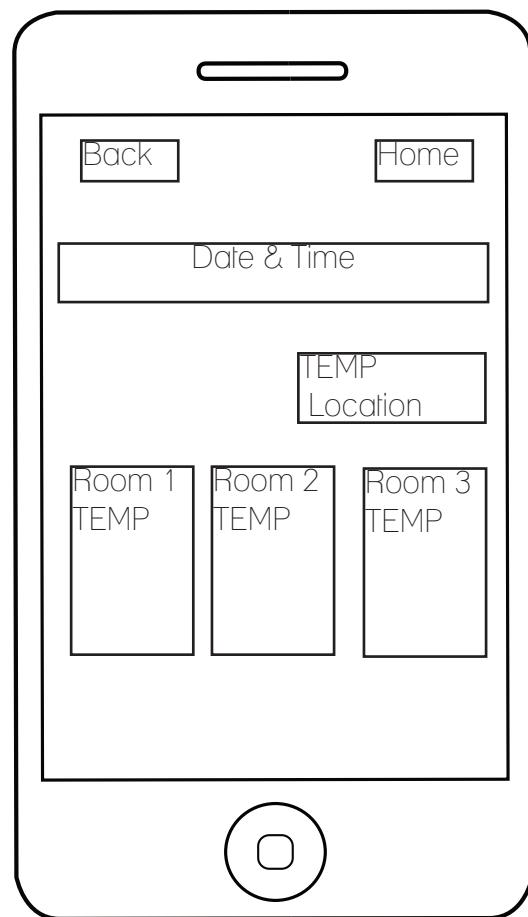
Gabi's Feature Set:

I can't use a weather sensor!





It's Saturday morning and I have to go to work today. Brrr! It's cold outside. It might be cold in my office too. Let's check to see...



Thank you!