
emission

Small eco-actions matter.

Final Thesis Project Presentation
Yun(Echo) Liu | 03035897 | May 10th, 2013
Web Design and New Media
Design | Technology

PROJECT OUTLINE

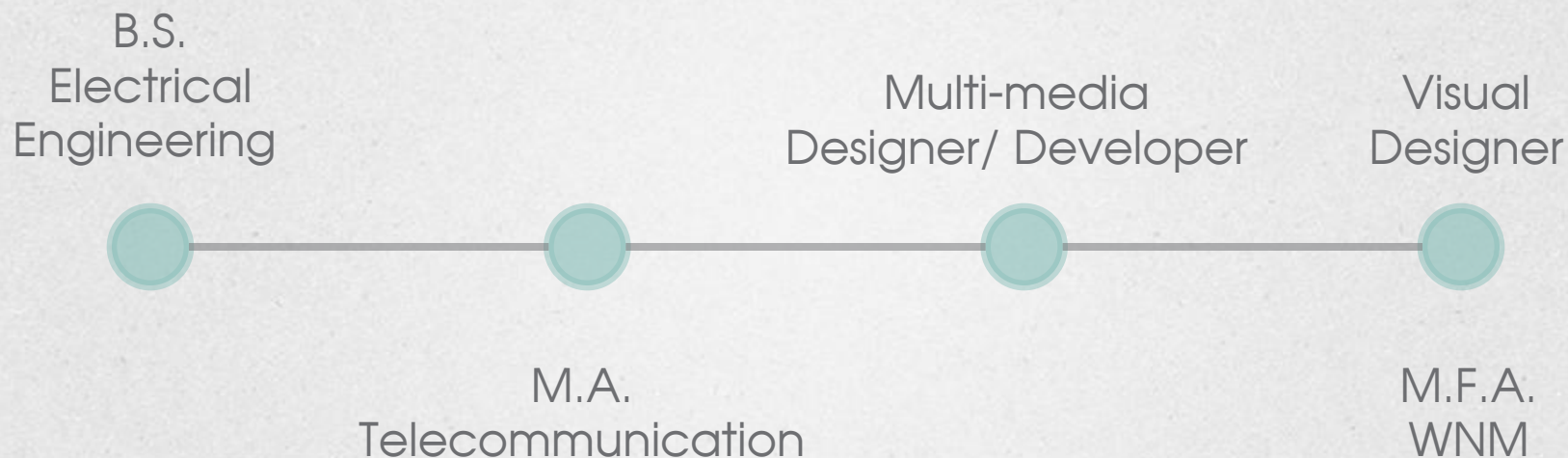
Why?

For Whom?

How?

Process

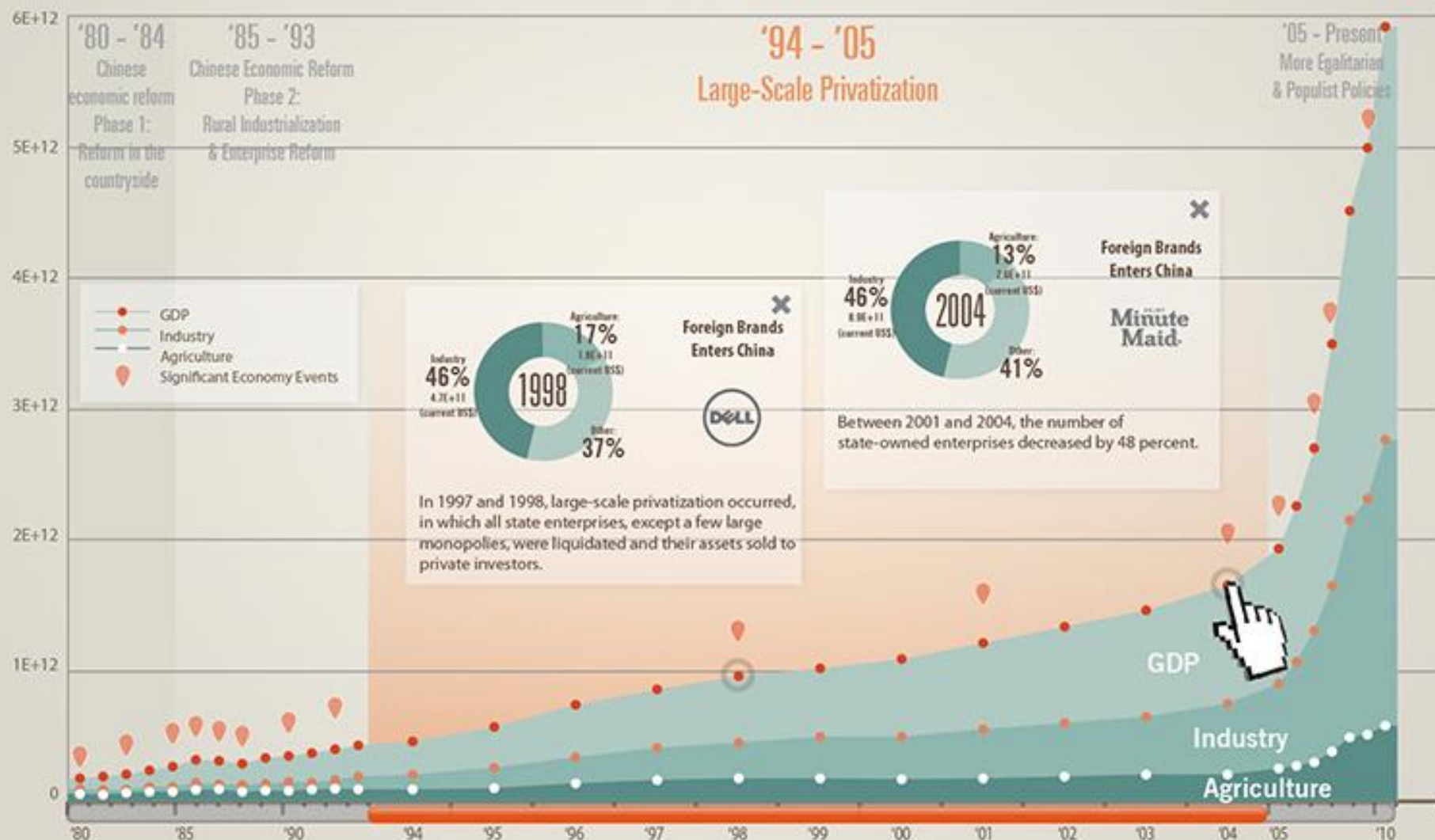
About Me | Yun Liu (Echo)



Behind China's Economic Boom

Economic and Political causes of China's economic growth

The dataset and infographic of this project will try to analysis the raise of Chinese economy through the GDP data from the past 30 years, find out the behind events that caused this boom.



Source: World Bank and CLSA Asia-Pacific Markets

Where does our food come from?

Examining U.S. Food Import Patterns from 1998 to 2007

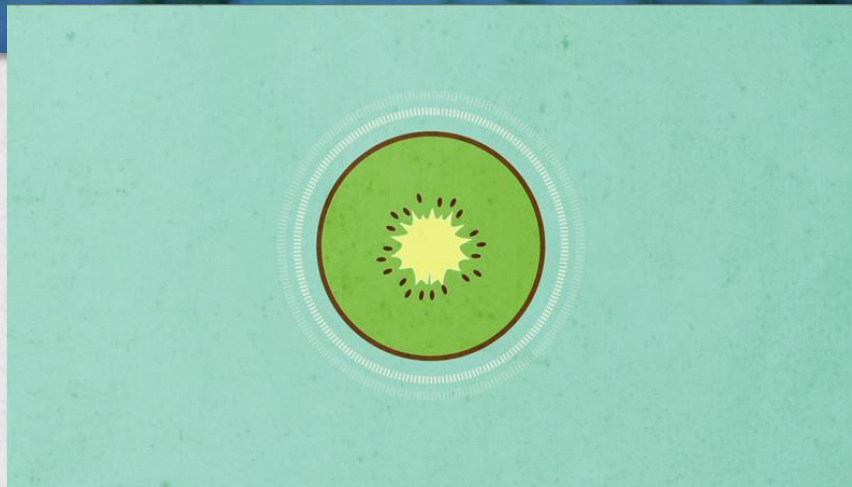
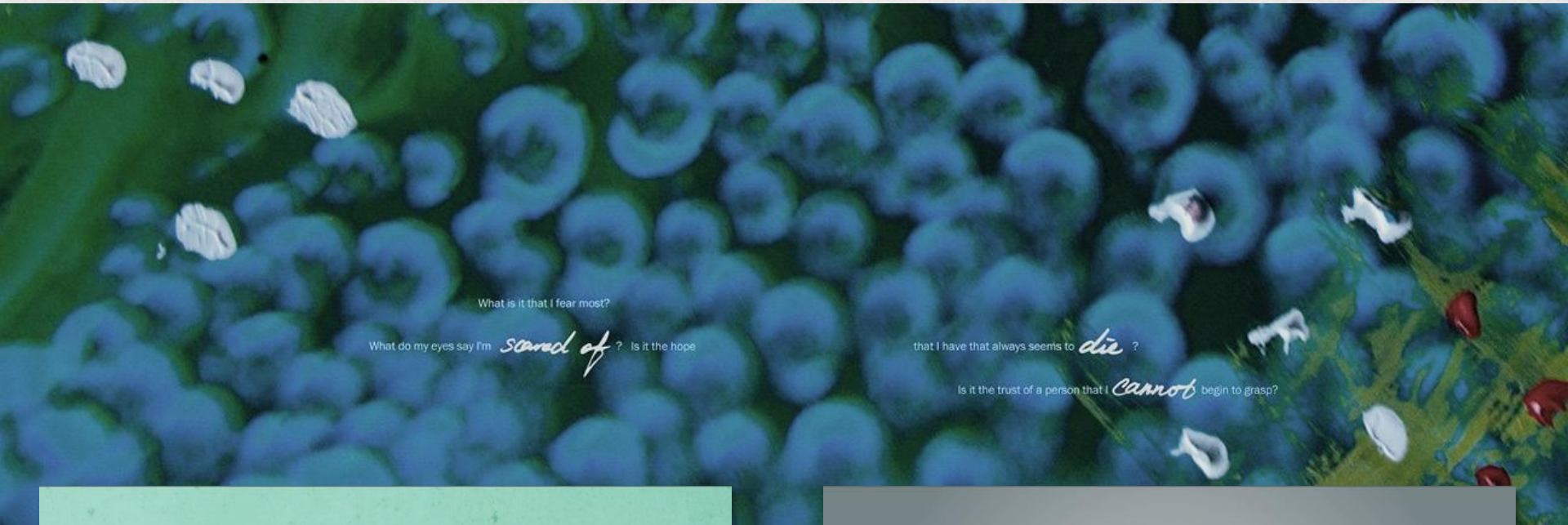
Using import data from the U.S. Census Bureau, this study examines patterns of U.S food imports for fiscal years 1998-2007. Results indicate faster import growth trends for consumer-ready foods, such as fruit, vegetables, meats, seafood, and processed food products.

- ☐ Total Imports
- ☐ Vegetable Oils
- ☒ Dairy and Dairy Products
- ☐ Grains and Grain Products
- ☐ Meat
- ☐ Fish and Seafood Products
- ☐ Sugar and Confectionery
- ☒ Spices
- ☐ Cocoa and Cocoa Products
- ☐ Tea
- ☒ Coffee
- ☐ Vegetables and Vegetable Products
- ☐ Fruits and Fruit Products



Source: Compiled by ERS using data from U.S. Department of Commerce, Census Bureau.

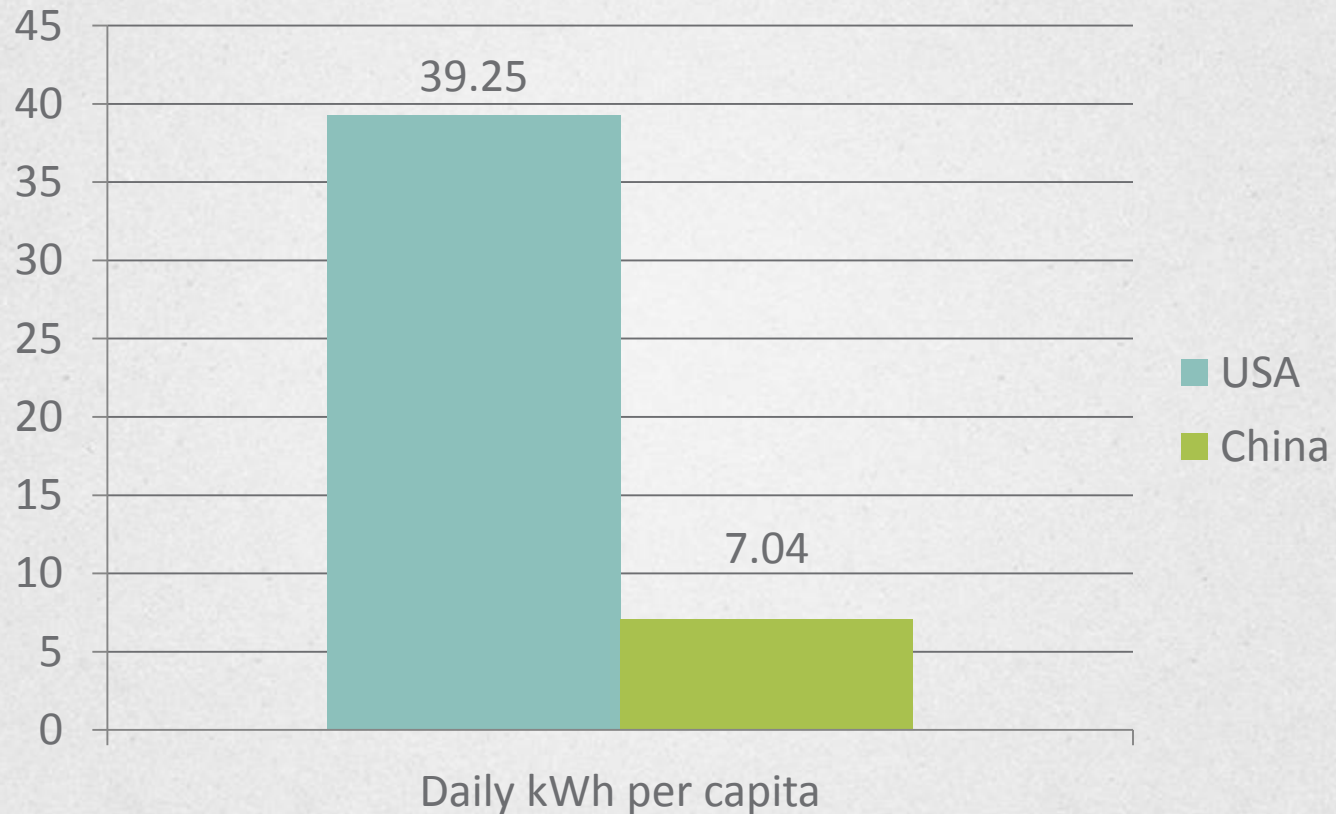
About Me | Portfolio



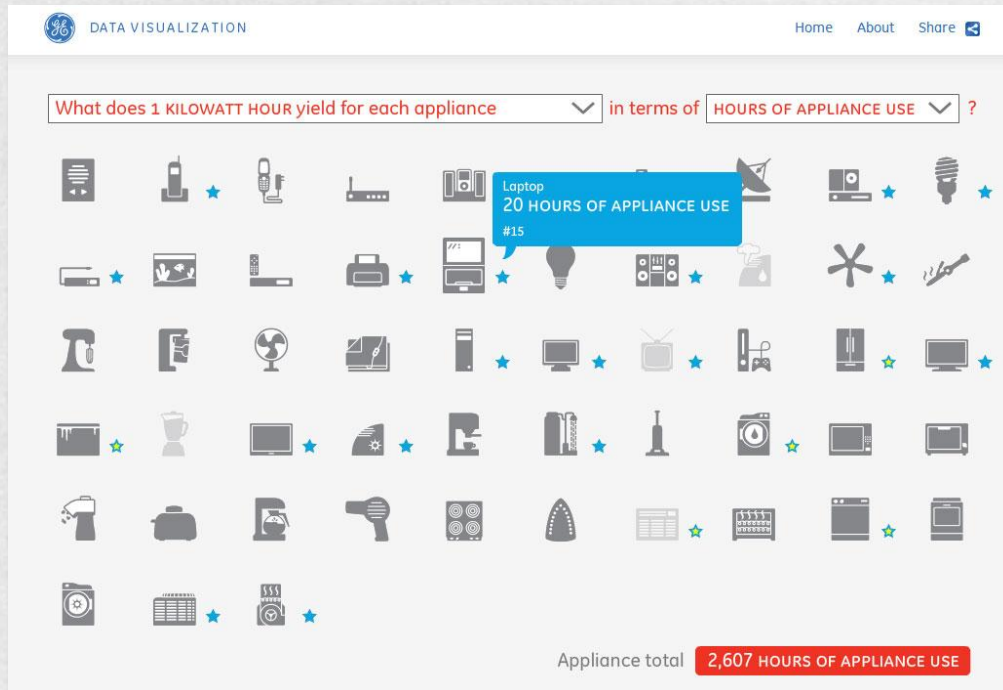
Why develop eMission?

Project Summary | Problem

Daily Electricity Consumption Per Capita

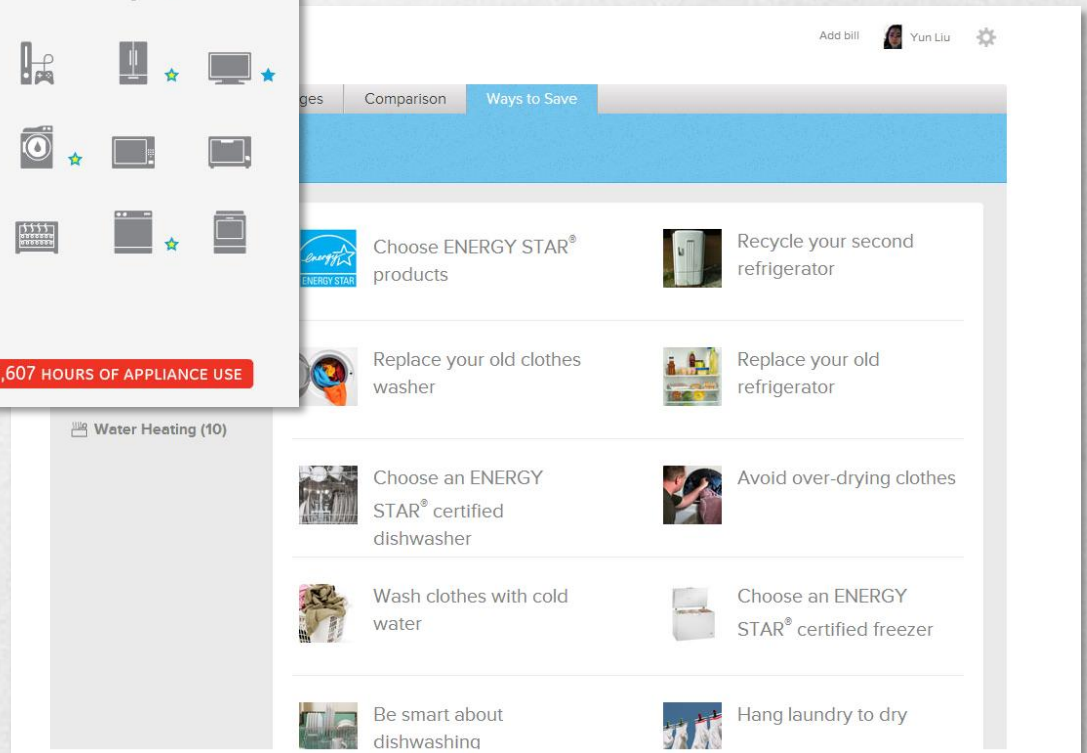


Project Summary | Competitive Analysis

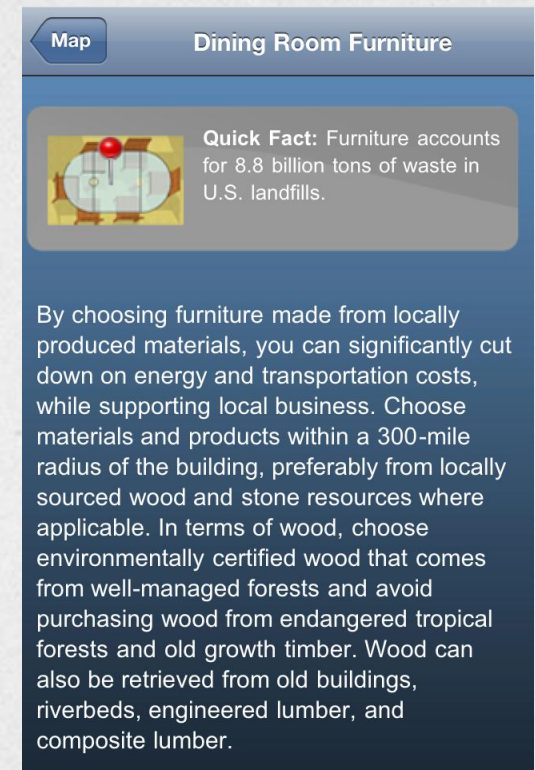
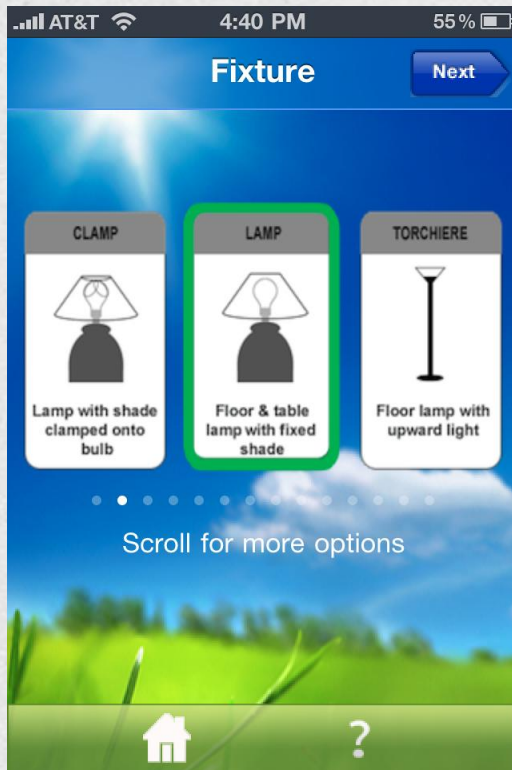


Static information provider.

User got overwhelmed by the long list of saving tips.

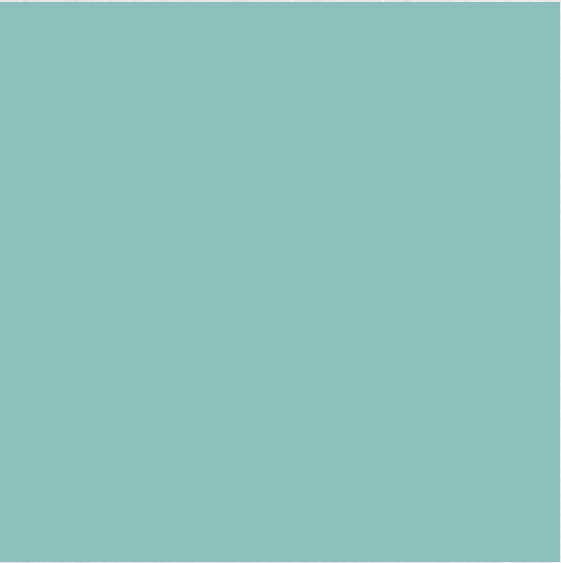


Project Summary | Competitive Analysis



No way to encourage user save energy continuously.

Project Summary | Solution

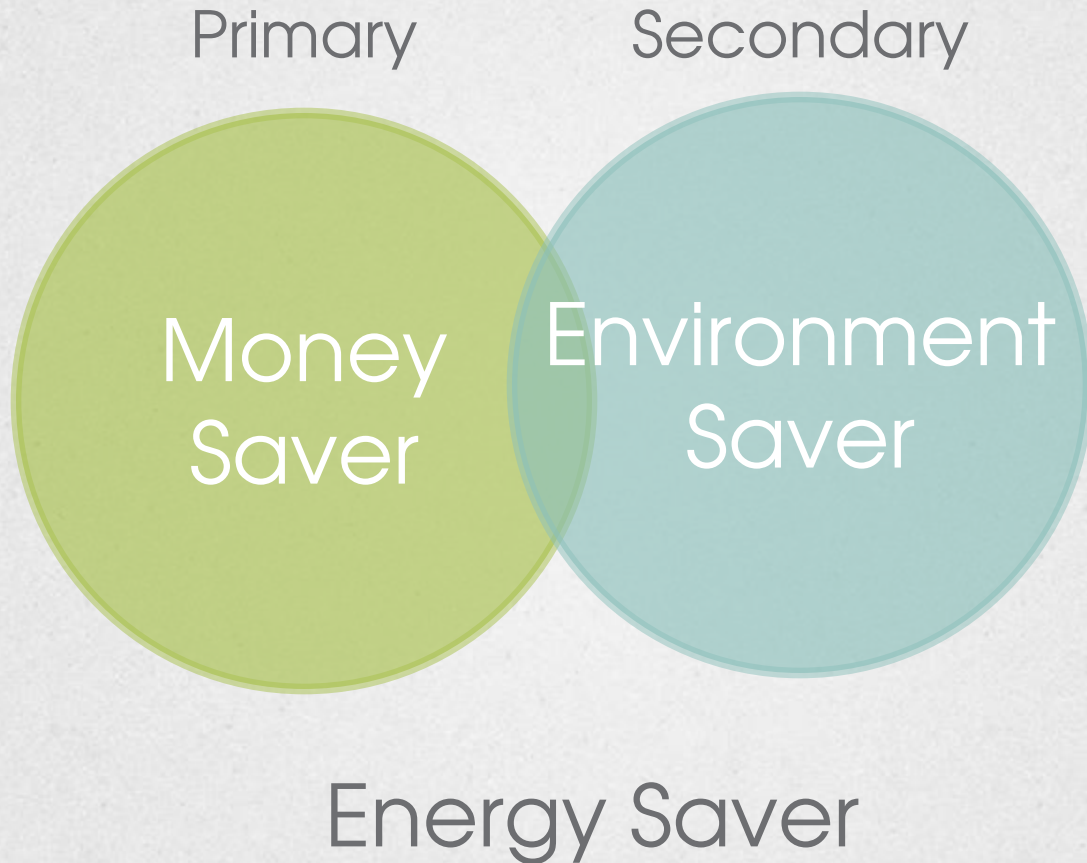


eMission is an interactive web app that helps user analyze their power usage and provide them customized energy saving tips.

The goal of the app is to spread the awareness of energy saving and encourage user to save energy.

Who is using eMission?

Project Overview | Target Audience



Project Overview | Persona



Project Overview | Persona



Project Overview | Persona



How to use eMission?

Project Overview | Interaction Mode

Overview

Analyze

Track

Share
saving actions with friends



Heating
& Cooling

Laundry & Bathroom
Appliance

Lighting

Entertainment
& Home Office

Kitchen
Appliance

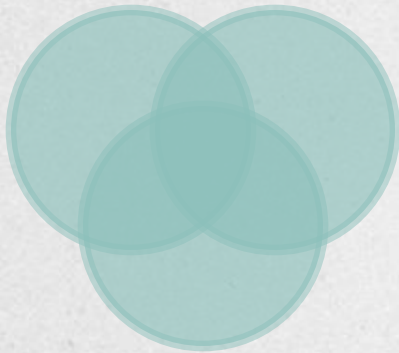
Project Overview | User Journey

How is eMission developed?

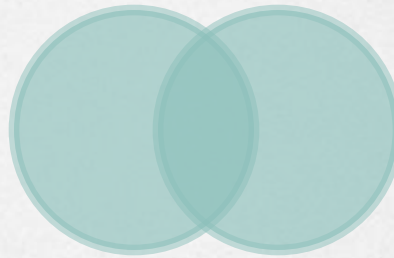
Development Process | UX

Narrow down the topic, solve one problem at a time.

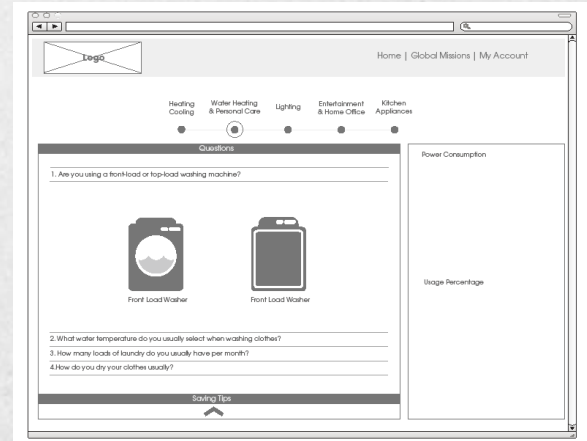
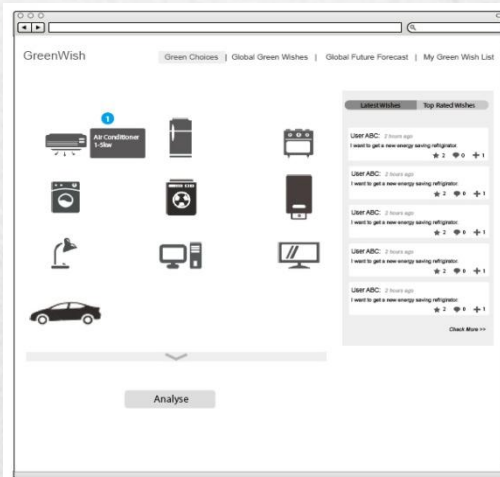
Green Actions



Energy and Water Saving



Power Saving



Development Process | UX Research

Interview and Surveys

Paper Prototype

Card Sorting

WUM 800 User Experience Final Thesis Project "365 Eco Circle" Interview

Our Academy of Art University graduate research class (WUM800) has been assigned as a class project to conduct interviews or surveys with individuals about their attitudes about green life and internet/cell phone application usage.

The survey will take about 10~20 minutes of your time. You will be benefiting a fellow student by helping us complete this project. You may find some of the questions interesting. You may find some questions annoying. You are free to decline to answer any question.

When I take notes and when I report findings in my project report, I will use a made up first name (and no last name). You will not be identifiable in any report of research findings. Your privacy will be protected to the maximum extent. Thanks a lot for your help. If you have any questions, please feel free to contact me at lkuyun83@gmail.com or 650-793-S081.

Survey Questions:

Name: Steven To Age: 42 Gender: Male

1. What's your current occupation?

soft ware engineer

2. How do you think about being green?

- a. I don't care about it at all.
b. I am interested in it, but don't know how to start.
☒ c. I try to be eco-friendly when possible.
d. I know a lot of green tips and totally understand what to do.

3. Do you have kids? ☒ a. Yes b. No

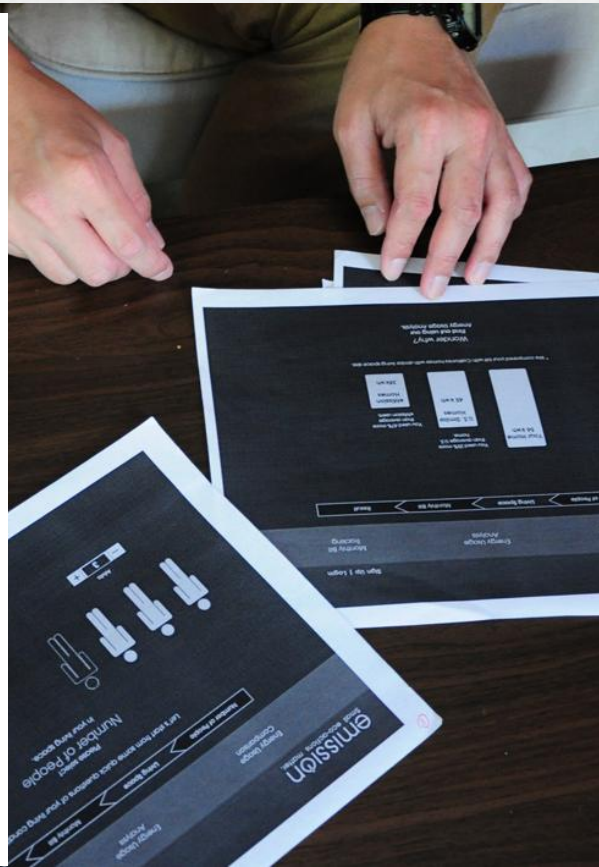
- If yes, how old are they?
a. <5 b. 5-9 ☒ c. 10-14 d. 14-18
a. <5 b. 5-9 c. 10-14 d. 14-18
a. <5 b. 5-9 c. 10-14 d. 14-18

4. Is there any green club or environmental related program in your children's school? If so, have they attended any of them?

No.

5. Do your kids have any environmental related questions for you? If so, can you give some examples?

No



electric devices closed card sorting new UI

6 Responses + 2 Abandoned

Overview Participants Questions Cards Categories Results Matrix

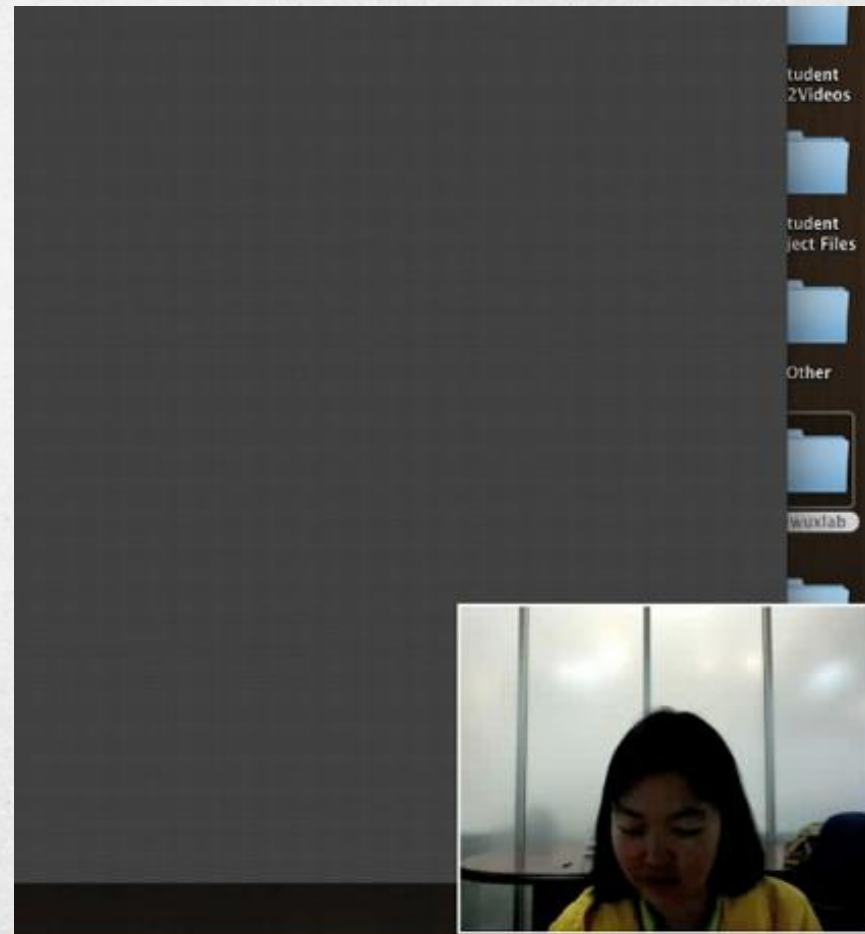
The popular placements matrix attempts to propose the most popular groups based on each corresponding category.

	Heating and Cooling	Home Office and Entertainment	Kitchen appliance	Laundry	Personal Care
Central Heating	100%				
Space Heater	100%				
Window or Room Fan	100%				
Central Air Conditioner	100%				
Window Air Conditioner	100%				
Ceiling Fan	83%	17%			
Shower(Water Heater)	67%				33%
Bath(Water heater)	67%				33%
Computer(desktop)		100%			
laptop		100%			
TV		100%			
Projector		100%			
Home theater with Audio		100%			
XBOX		100%			
Play Station		100%			
Wii		100%			
Refrigerator			100%		
Oven			100%		
Microwave Oven			100%		
Dishwasher			100%		
Stove	17%		83%		
Washer				100%	
Dryer				100%	
Razor					100%
Hair Dryer					83%

Project I User Testing

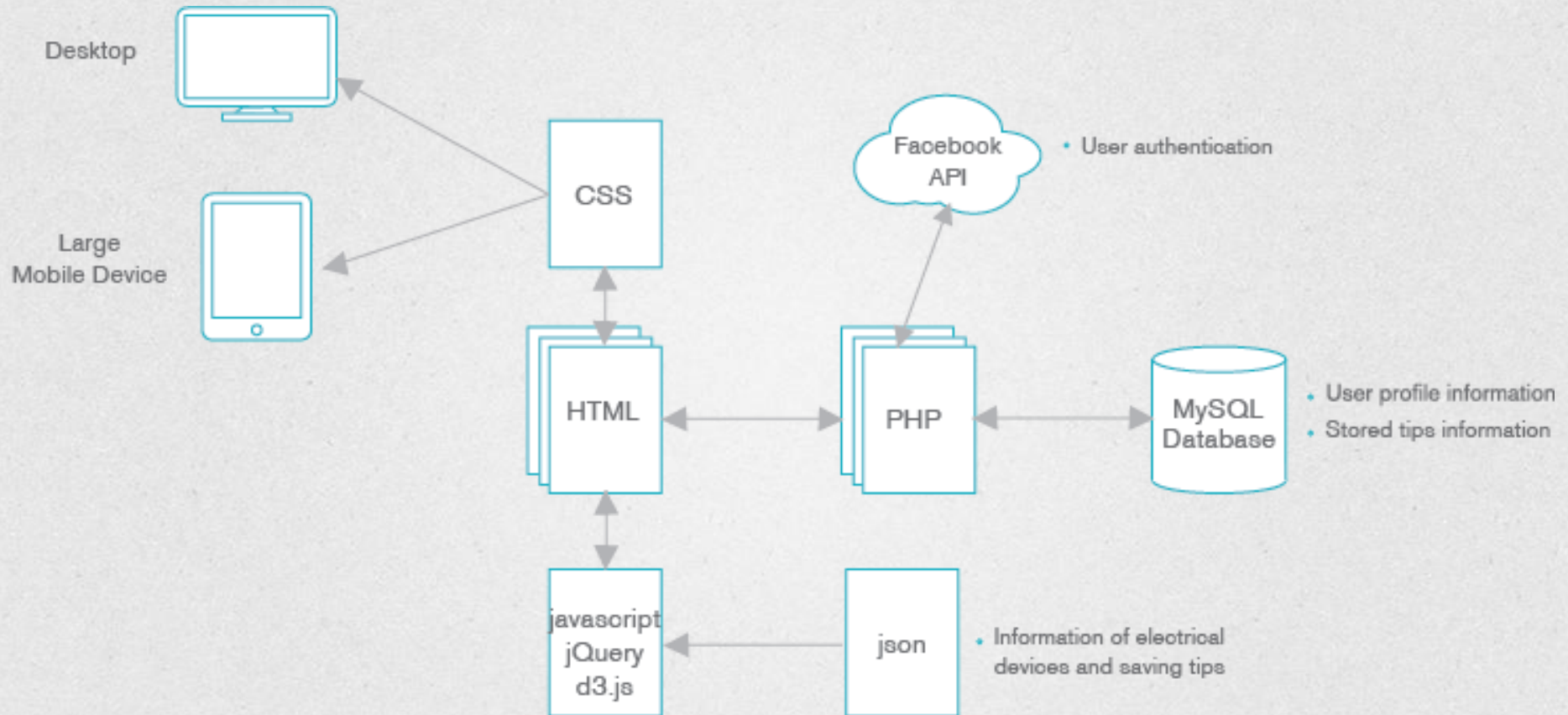
Gorilla Testing

Formal Testing

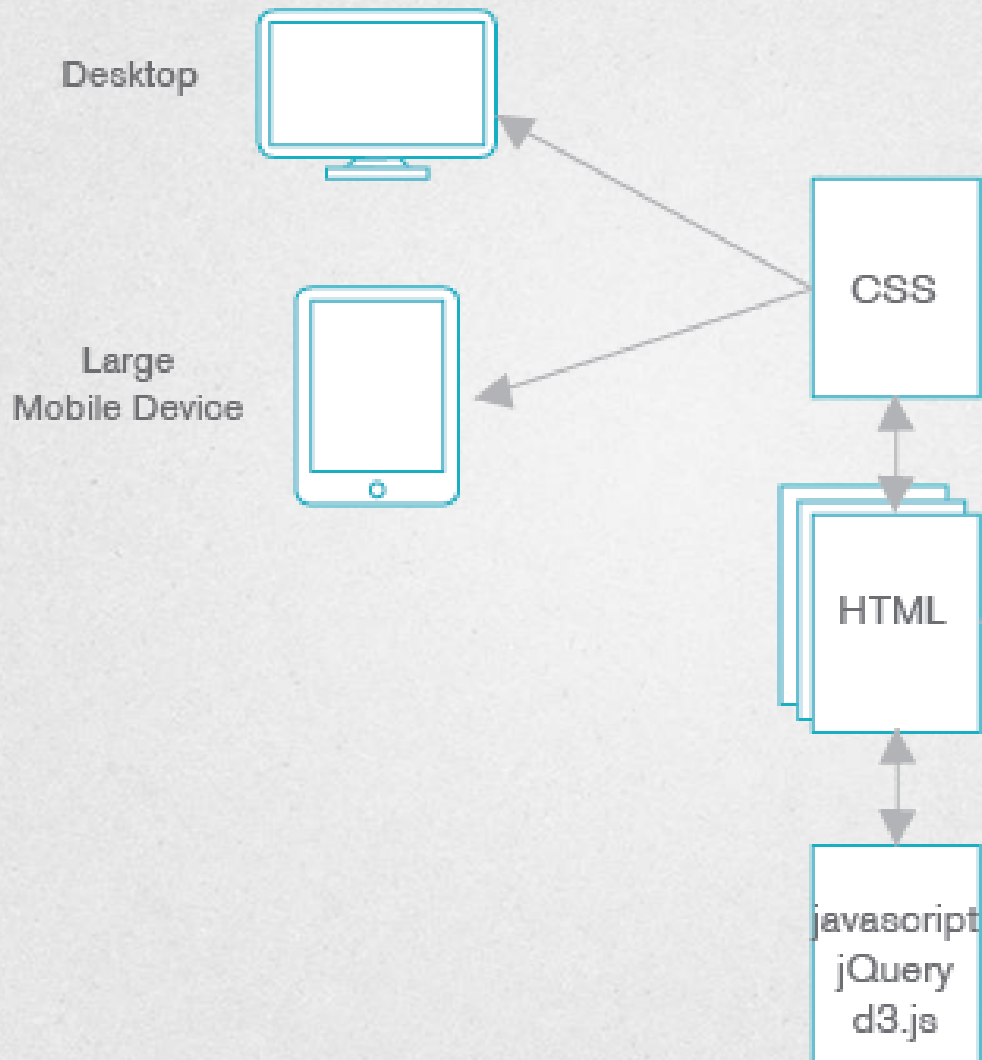


Development Process | Visual

Development Process | Coding



Development Process | Coding



Next Steps

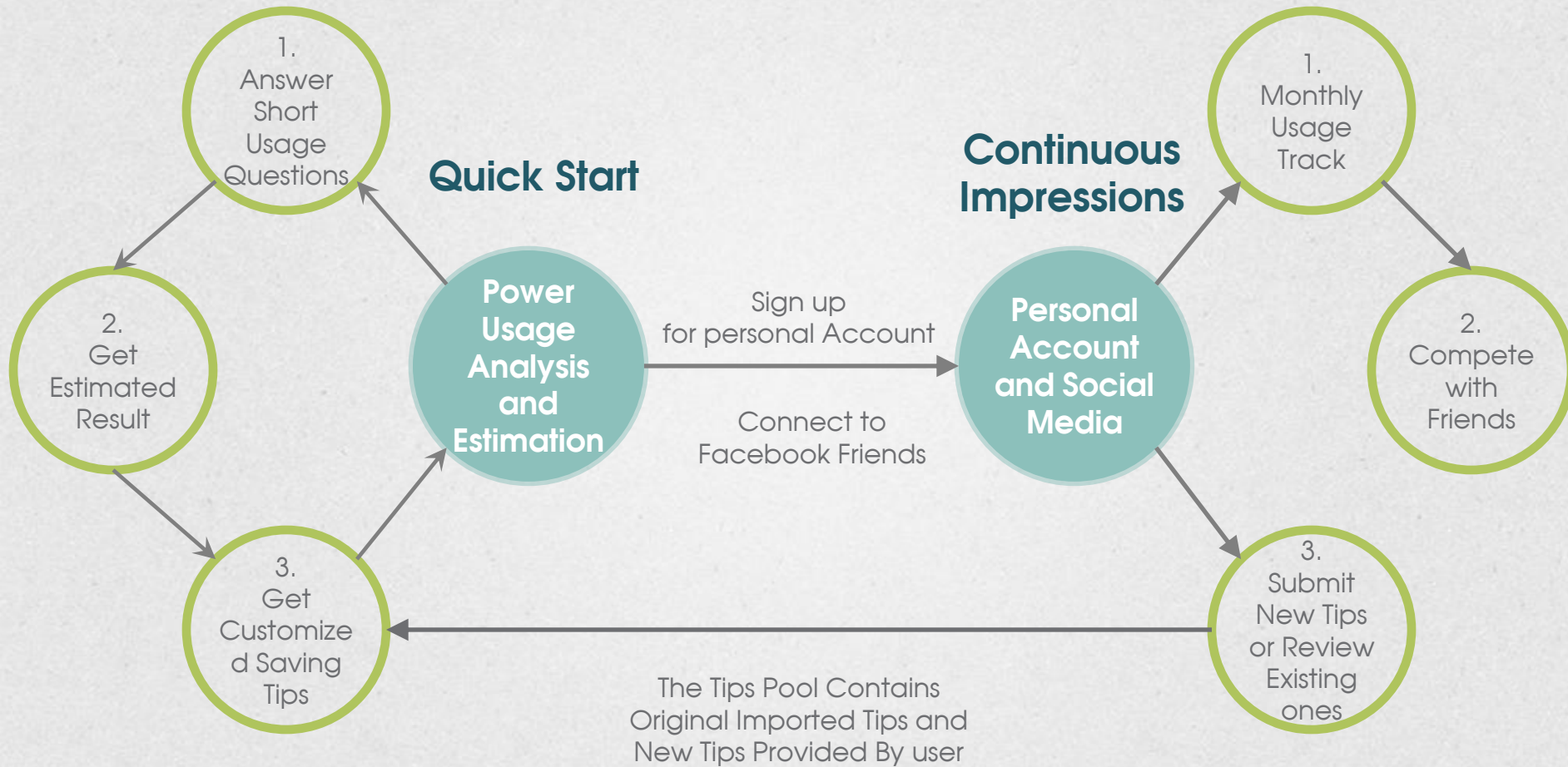
1. Make the site responsive for tablets and smart phones.
2. Continue building the backend of the site.

Challenges and Achievements

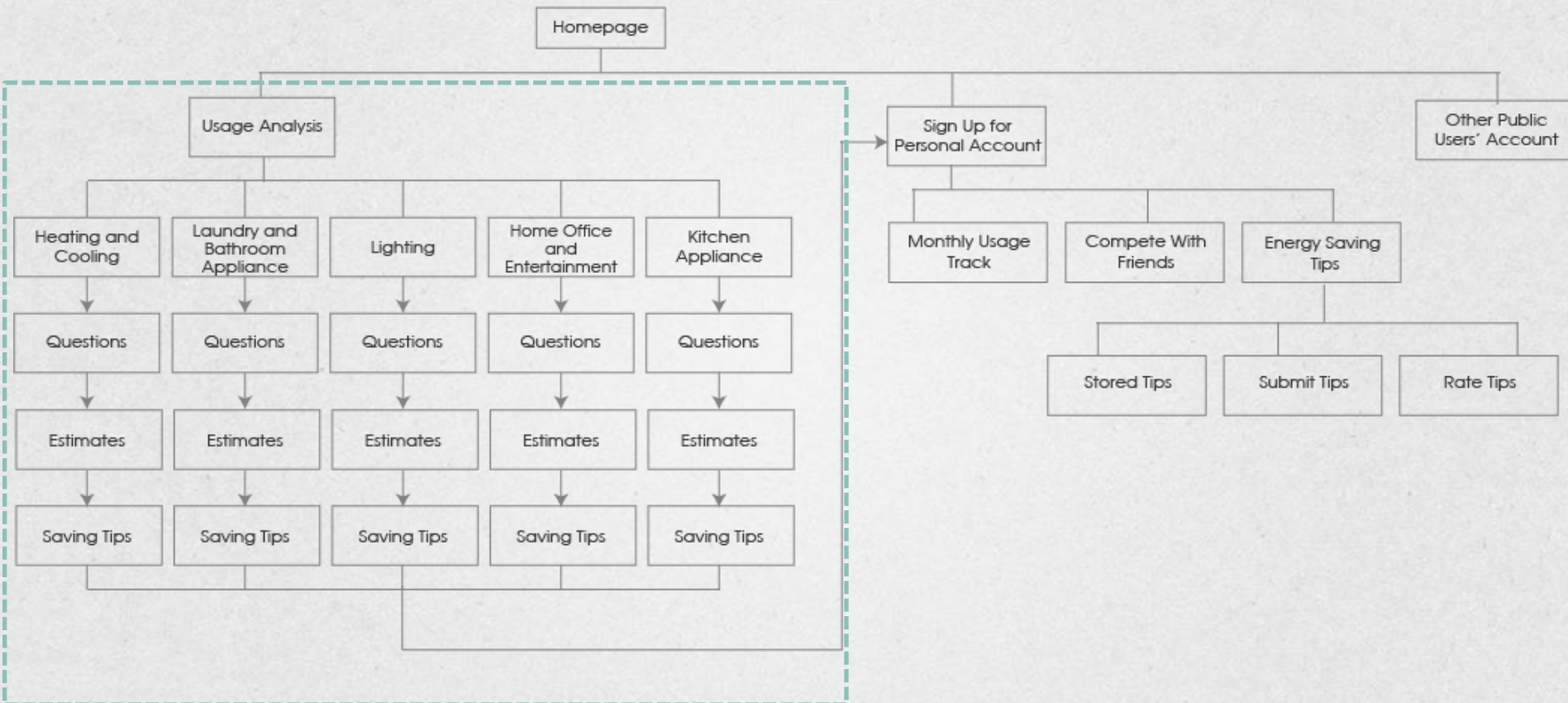
1. C

Thank you.

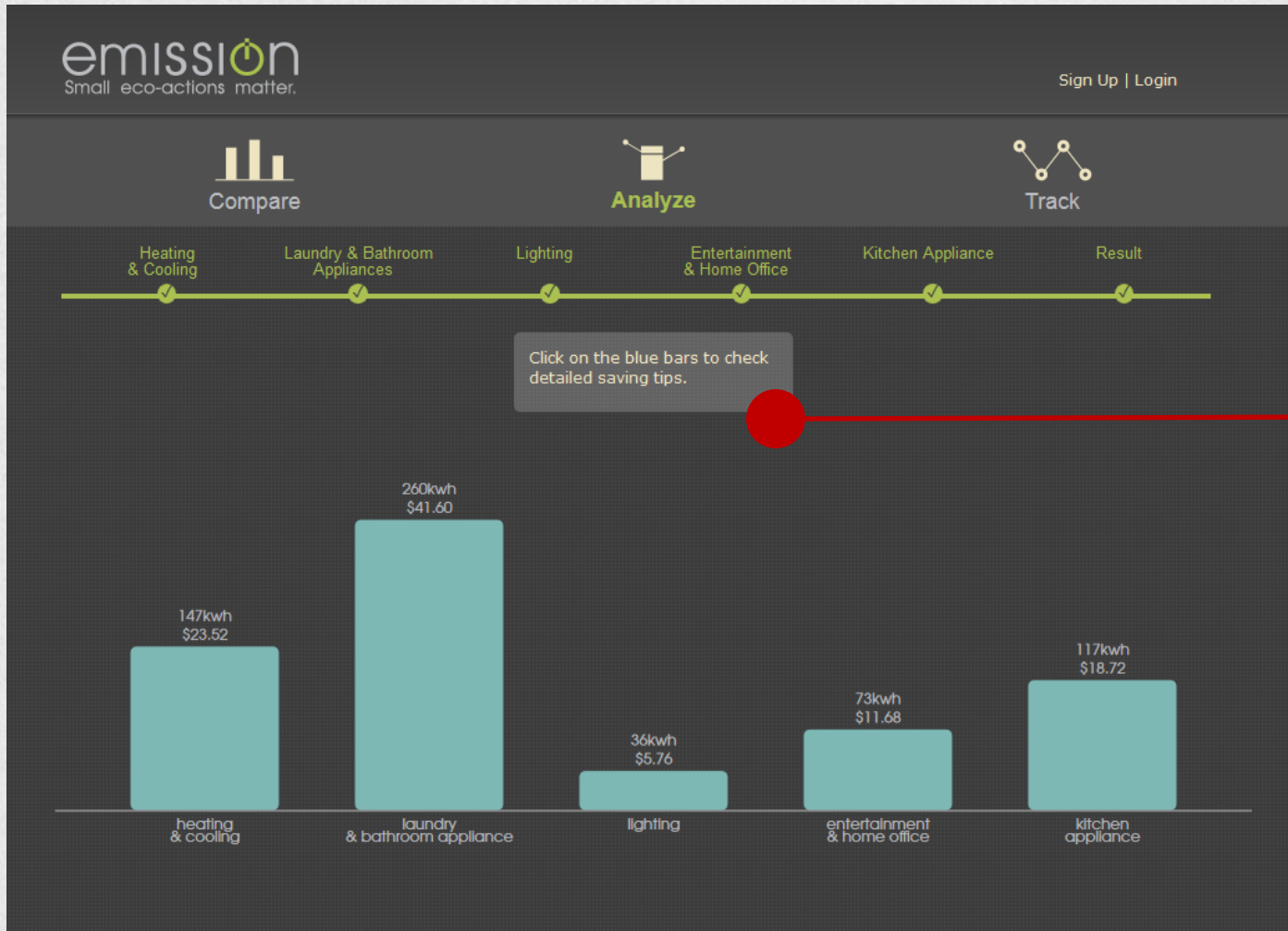
INTERACTION MODEL



Project I IA



Project I UX Research



People don't read, if it's too subtle.

Project I UX Research



PROJECT OUTLINE

About Me

Project Summary

Why develop eMission

Problem | Competitive Analysis
Solution

Who is using eMission

Target Audience | Persona

How to use eMission

Design/Interaction Model
User Concept Journey Video

How is eMission developed

UX | Visual | Technical

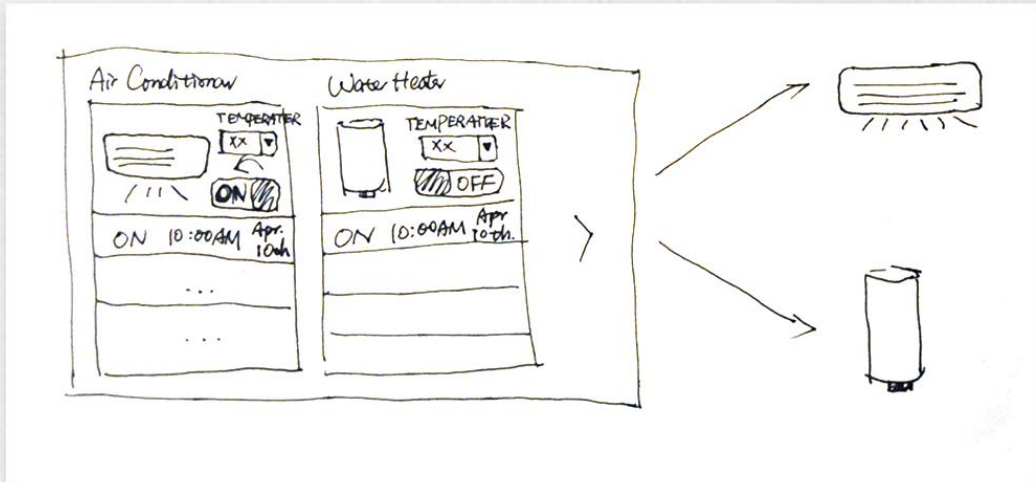
Next Steps

Challenge and Achievements

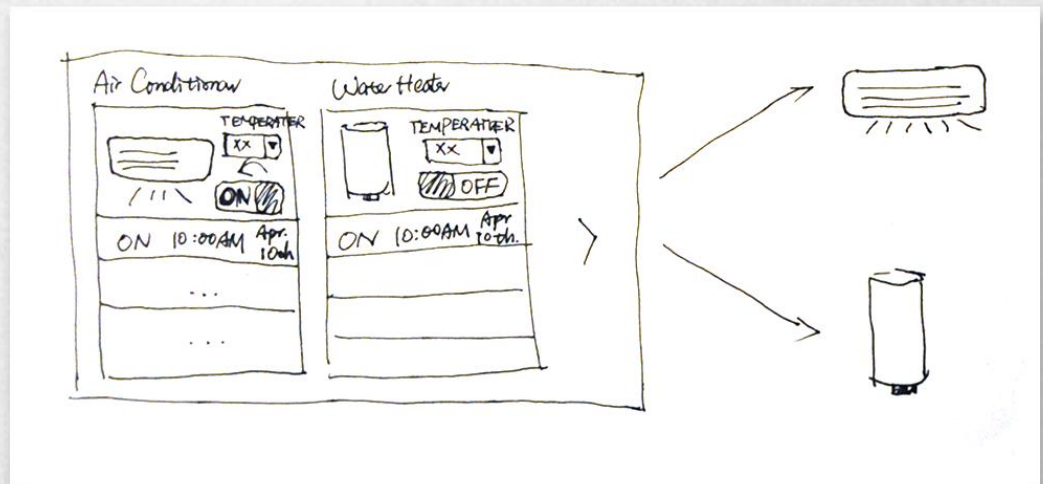
FUTURE EXPANSION

1. Use the app to control electric devices remotely.

Before go to sleep, user can double check the devices' status, and control them remotely.



When you go out for travel, you can put devices to "OFF" status, and have them turned on and ready for you to use before you arrive home.



FUTURE EXPANSION

2. System learn your lifestyle and help adjust your devices' status.

