

ECOHOME

UI/UX DESIGN
LOCATION: RISD RI
INSTRUCTOR: ADAM SMITH
TYPE: GROUP WORK IN TWO
TIME: 2022 WINTER

ECOHOME HYPOTHESIS



Our group looks to develop a government app to monitor the electricity and water usages in a household. Another function of this app is a platform for energy-saving/generating competitions. This app guides users towards sustainable living by visualizing energy usage on interfaces (phone apps, mirror, AR/VR) and providing a game-like experience.

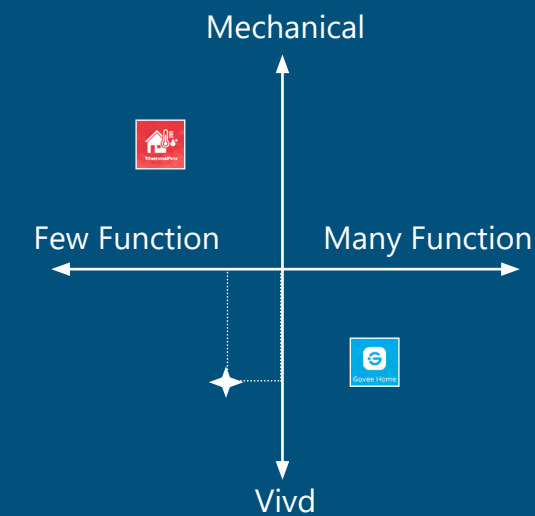
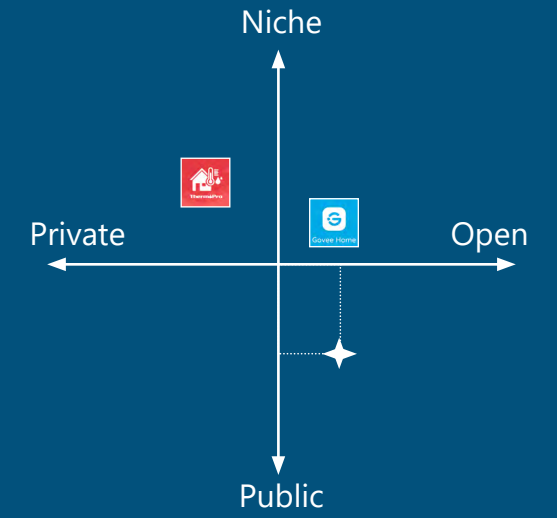
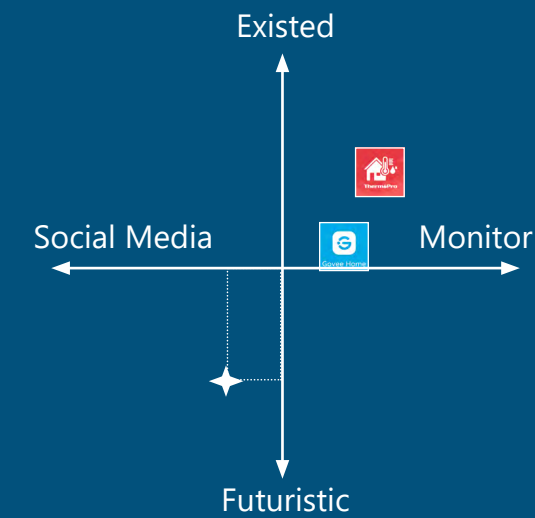
Electricity

Daily Usage Generate

Typeface

Resource Usage Monitor | Augmented Reality | Household | Game-like

Design Drivers

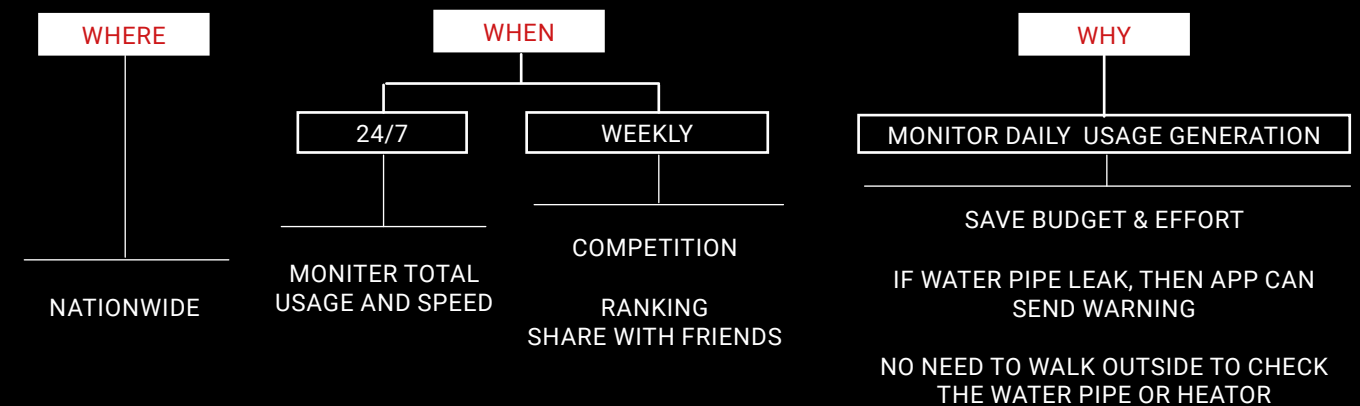
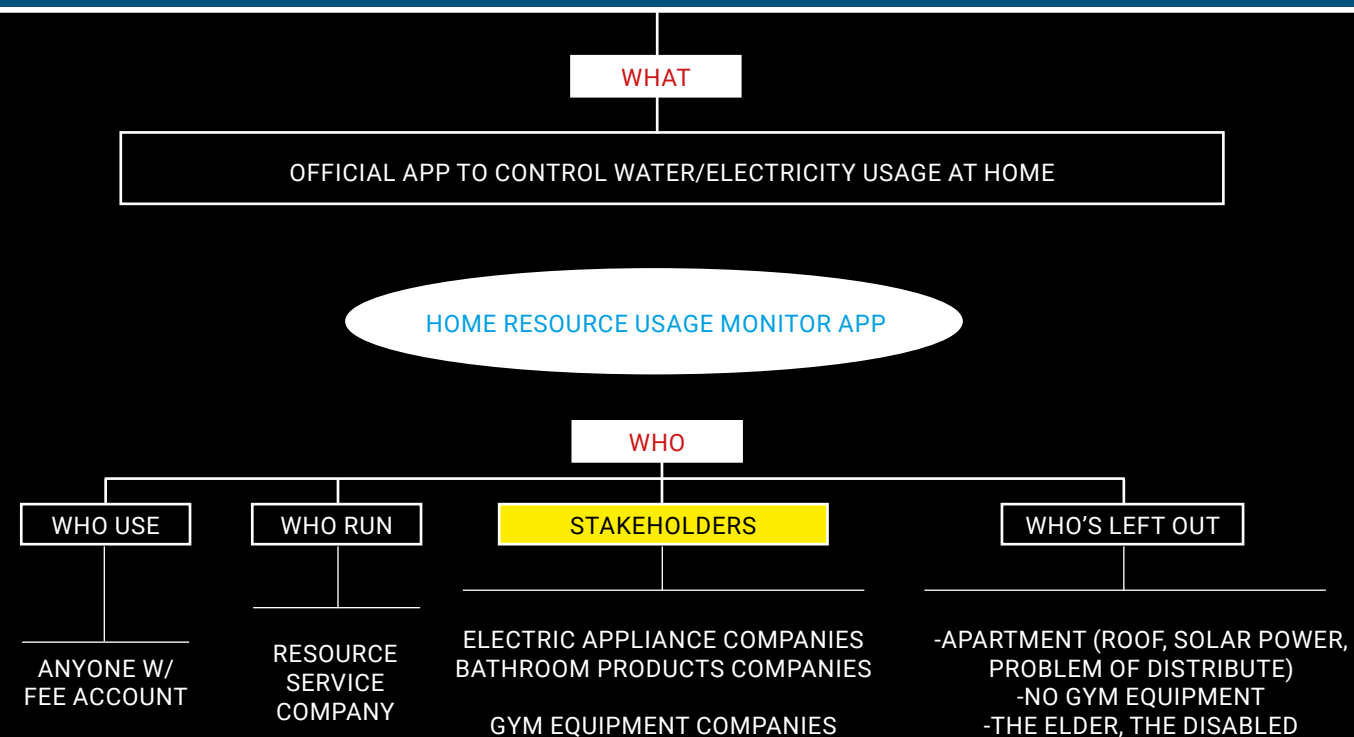


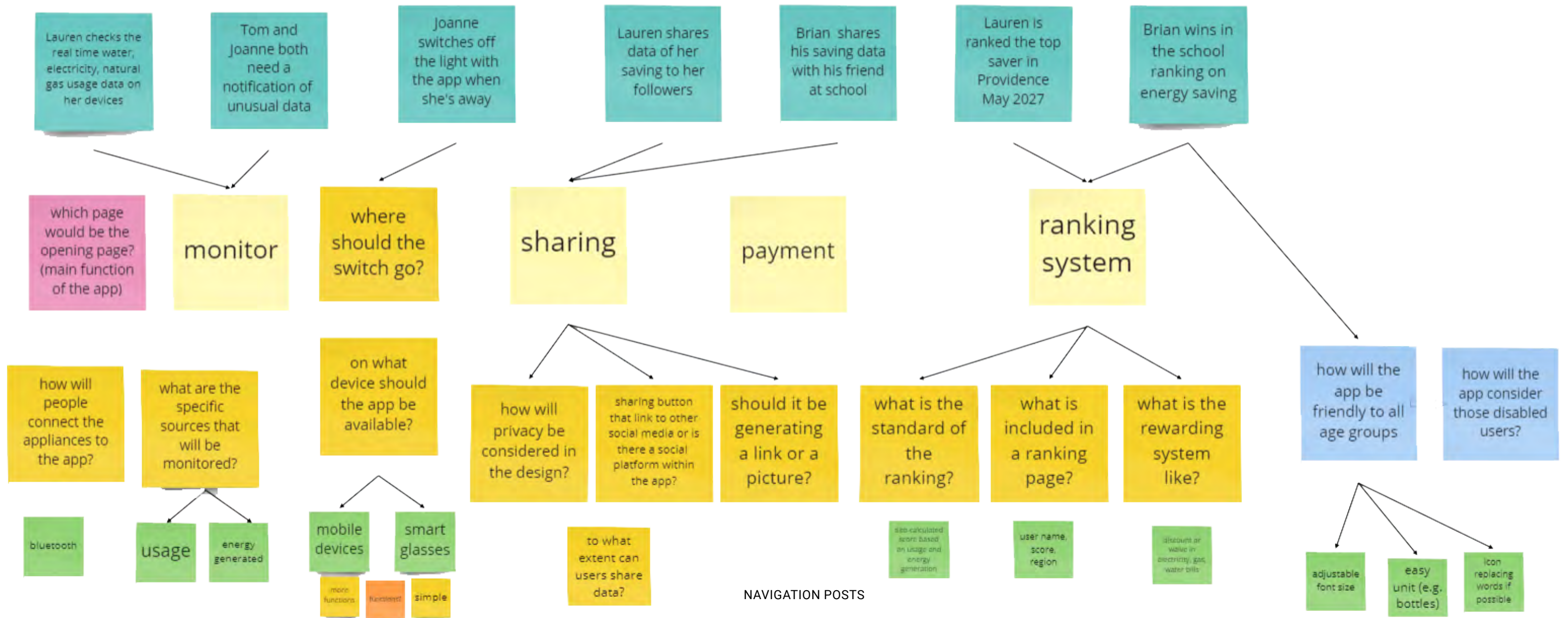
OUR APP ECOHOME IS FOCUSED ON SUSTAINABILITY.

FIRST, WHAT IS ECOHOME? THE FUNDAMENTAL JOB OF ECOHOME IS TO VISUALIZE HOUSEHOLD ENERGY CONSUMPTION AND GENERATION.

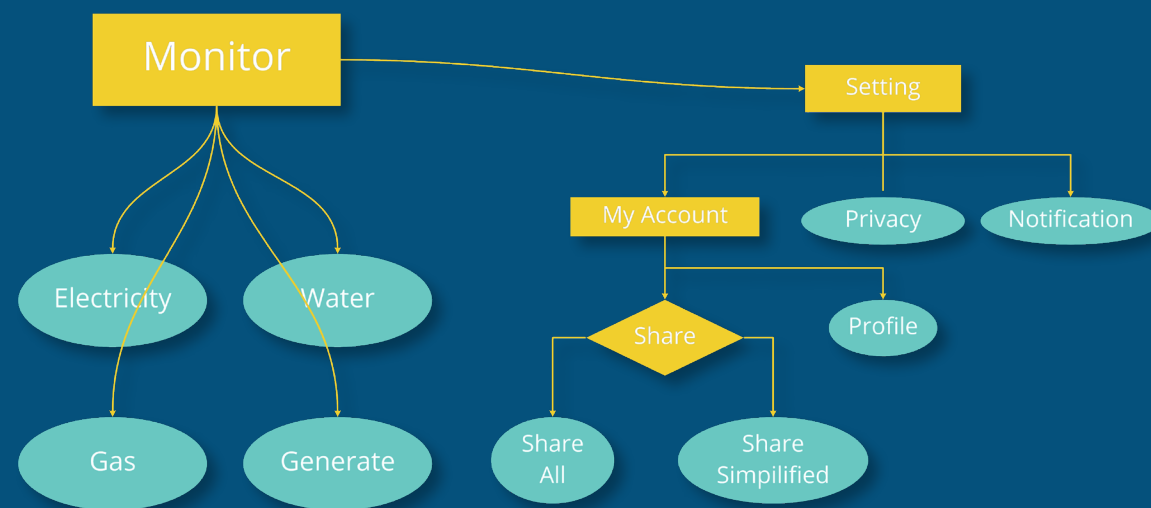
SECOND, WHO WILL BE THE STAKEHOLDERS. WE BELIEVE THERE ARE AT LEAST THREE APARTMENTS, WHICH ARE ELECTRIC APPLIANCE COMPANIES, BATH-ROOM PRODUCTS COMPANIES AND GYM EQUIPMENT COMPANIES.

Case Study





NAVIGATION POSTS



WORKFLOW

#2DBFC9 #00148C #DBF3E2 #FFFFFF
 COLOR PALETTE



OFFICIAL APP TO VISUALIZE HOUSEHOLD ENERGY USAGE AND GENERATION

THE APP IS SPONSORED BY NATIONAL GRID AND PROVIDENCE WATER TO HELP THEIR CUSTOMERS MONITORING THE ELECTRICITY, GAS, AND WATER. OUR GOAL IS TO GUIDE USERS TOWARDS SUSTAINABLE LIVING BY VISUALIZING ENERGY USAGE.



In case of water leak
One day , Tom came to home early and found he received a very expensive month bill. He checked the meter outside the house and found that the water heater had been broken.

Tom contacted with water-heater company and was recommended a new APP from National Grid and Providence Water which would prevent this problem in the future.

The new APP can monitor the real time electricity and water usages in a household and send warning message as soon as possible. Two weeks later, Tom picked up his phone and received a notification. Tom immediately contacted the repairman. Luckily, the repairman quickly found the leak location and repaired it.



Lauen's user story

Lauren comes home from work and starts a Tiktok live broadcast during which she shows her viewers how she cooks herself a light meal.

During the live, there were negative voice in the comment section judging the way she did the dishes wasted too much water. She lost a lot of followers that night. As an environmental influencer, Lauren feels guilty to set a bad example of energy conservation for her audience. In a couple of days, her friend sent a link of a new app from national grid and Providence Water to her, saying the app can help her to document and therefore take action to improve on her energy usage.

ECOHOME

MONITOR AND SHARING

THE FUNDAMENTAL FUNCTION OF THIS APP IS TO MONITOR THE APPLIANCE AT HOME, WHICH IS THE MAIN REASON WHY THE HOME PAGE OF THIS APP IS A SET OF APPLIANCE'S CONDITIONS. THE APP CAN ALSO MONITOR HOW MUCH ENERGY GENERATED. THEREFORE, THE USERS CAN HAVE A CLEAR IDEA HOW MUCH CONTRIBUTION THE USERS HAS MADE.

MEANWHILE, SOME SOCIAL MEDIA FUNCTIONS ARE ALSO INCLUDED, SINCE THE DESIGNERS WANT TO ATTRACT MORE AND MORE PEOPLE TO GET INVOLVED IN THIS APP. OF COURSE, THE USERS' PRIVACY DOES MATTER. TO DEAL WITH THAT, THE DESIGNERS GIVE THE USERS FREEDOM TO SELECT DIFFERENT INFORMATION DETAIL MODE. WITH THE SHARING FUNCTION, THE USERS CAN DISCUSS THEIR ACHIEVEMENTS WITH THEIR CLOSE FRIENDS OR AUDIENCES. THEREFORE, THE DESIGNERS WOULD LIKE TO TIE THE MONITOR AND SHARING FUNCTION TOGETHER.

