



DESIGN PORTFOLIO

LYU QI POSTGRADUATE
INDUSTRIAL DESIGN
2013-2016

LYU
QI

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WHO
AM I?

EDUCATION

09.2010-06.2013
Suzhou Mudu Jinshan
Senior High School

09.2013-06.2016
Jingdezhen Ceramic
Institute

EXPERIENCE

02.2017-06.2017
Suzhou EUP Electric
Appliance Co., Ltd.

Intern at Department of
Industrial Design

SKILL

Sketching,
Adobe Illustrator,
Adobe Photoshop,
Key Shot,
Rhinceros



01

**RACCOON
CAMERA**

02

**INTELLIGENT
KITCHEN SYSTEM**

03

**EASY
STAGE**

04

**RIDING ASSISTANT
FOR PREAGENT WOMEN**

05

**THE INTERNSHIP
AND SCHOOL WORK**

Individual Work
3 Weeks
Responsible for:
Concept
Background
Design Research
The Sketch
Camera Prototype
3D Modelling
UI Design
Before and After

P5

Individual Work
4 Weeks
Responsible for:
Concept
Research
User Need
Paper Prototype
UI Design
3D Modelling

P14

Individual Work
2 Weeks
Responsible for:
Concept
Design Research
Storyboard
The Sketch
3D Modelling
How to Use
UI Design

P23

Individual Work
3 Weeks
Responsible for:
Concept
Brain Storm
The Sketch
3D Modelling
Usage Scenario

P29

Individual Work
6 Weeks
Responsible for:
Concept
Ceramic Design
Graduation Project
The Vacuum Cleaner
Design

P34

RACCOON CAMERA

Special design for cultivating kids' interest in photography





BACKGROUND:

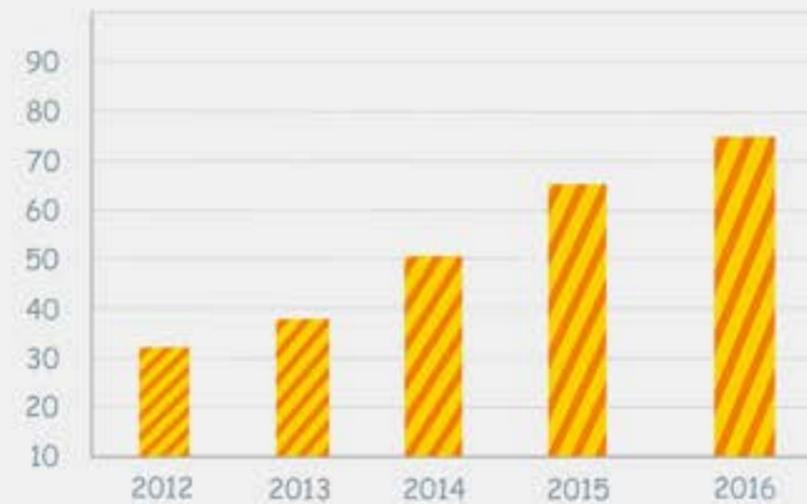
In current society, there are so many choices for digital camera but few for children.



SALES OF KIDS' CAMS IN CHINA



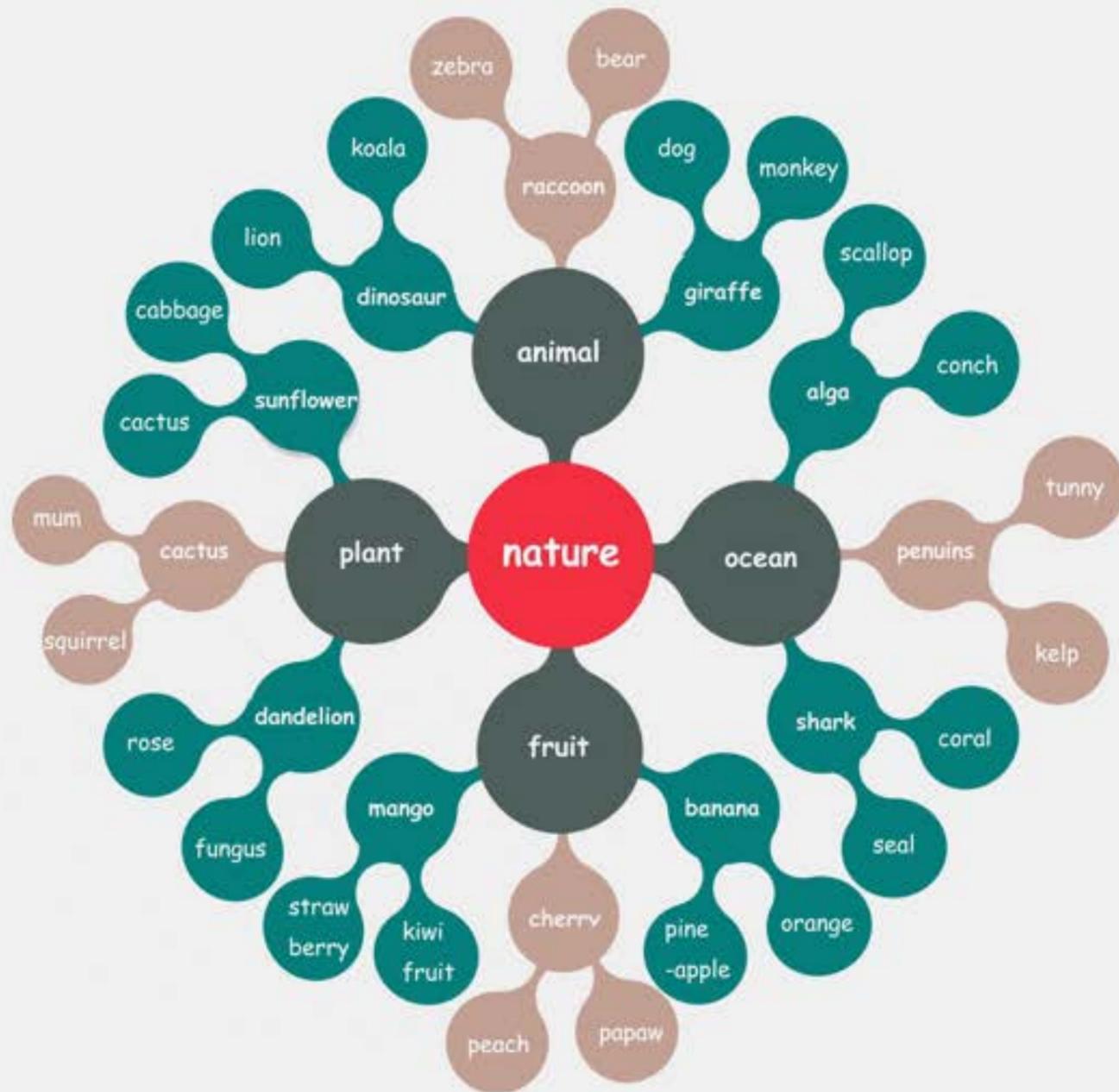
Retail sales value (\$mn)



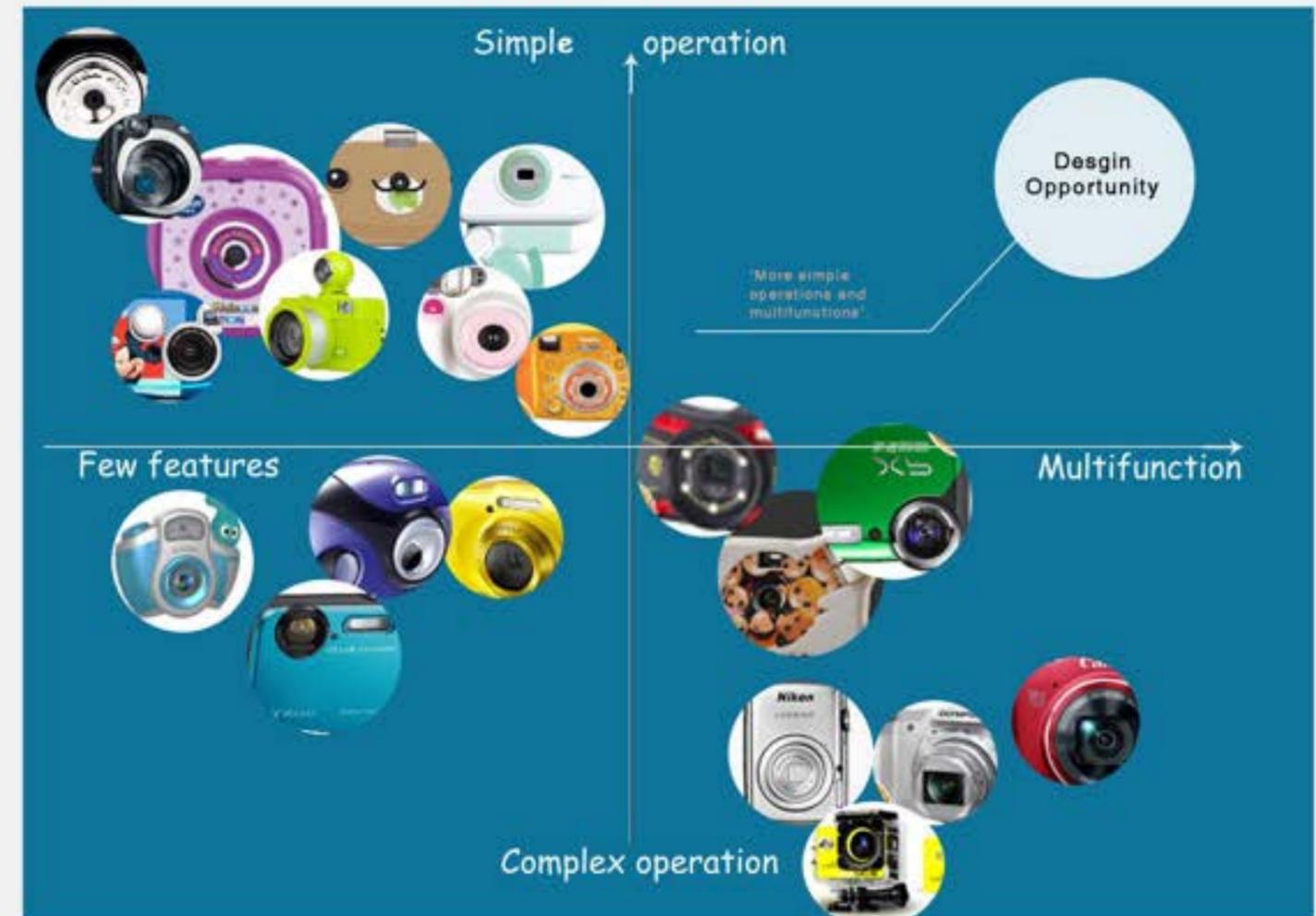
Source: Potomen.cn



According to my research, most of parents pay attention to safety level, out-looking design and pixel quality of children's digital cameras. In addition, there is a rapid increase in sales revenue from about 30 million dollars in 2012 to over 70 million dollars in 2016 of kids' cameras in China. Children under 3 years old can use toy camera model without real photo function. Children aged 4 to 8 can use simple functions of digital camera. Children aged 8 to 15 years old can use standard functions of digital cameras and DV cameras. Children aged 16 years old above can use digital cameras with advanced and professional functions.



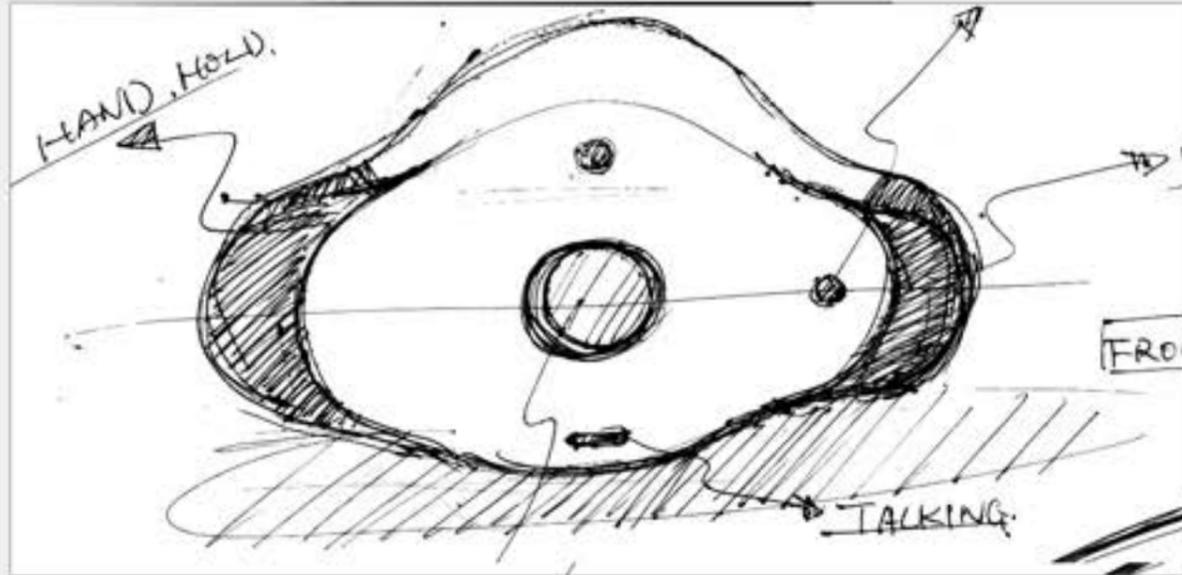
According to the brain storming, I chose 'NATURE' as the center concept and spreaded out to four branches: ANIMA,OCEAN,PLANT and FRUIT.In the end, I picked the animal category and chose raccoon as the camera's shape. In addition, I think zebra and bear shapes are also possible design ideas since these animals are children's favourite animals as well, which can attract their attentions.



Also, I analyzed different kinds of digital cameras on the market, comparing them with my racoon camera. I found that cameras with both simple operations and multifunctions at the same time are really rare. Therefore, as a designer, I can work on this direction in the future.



THE SKETCH

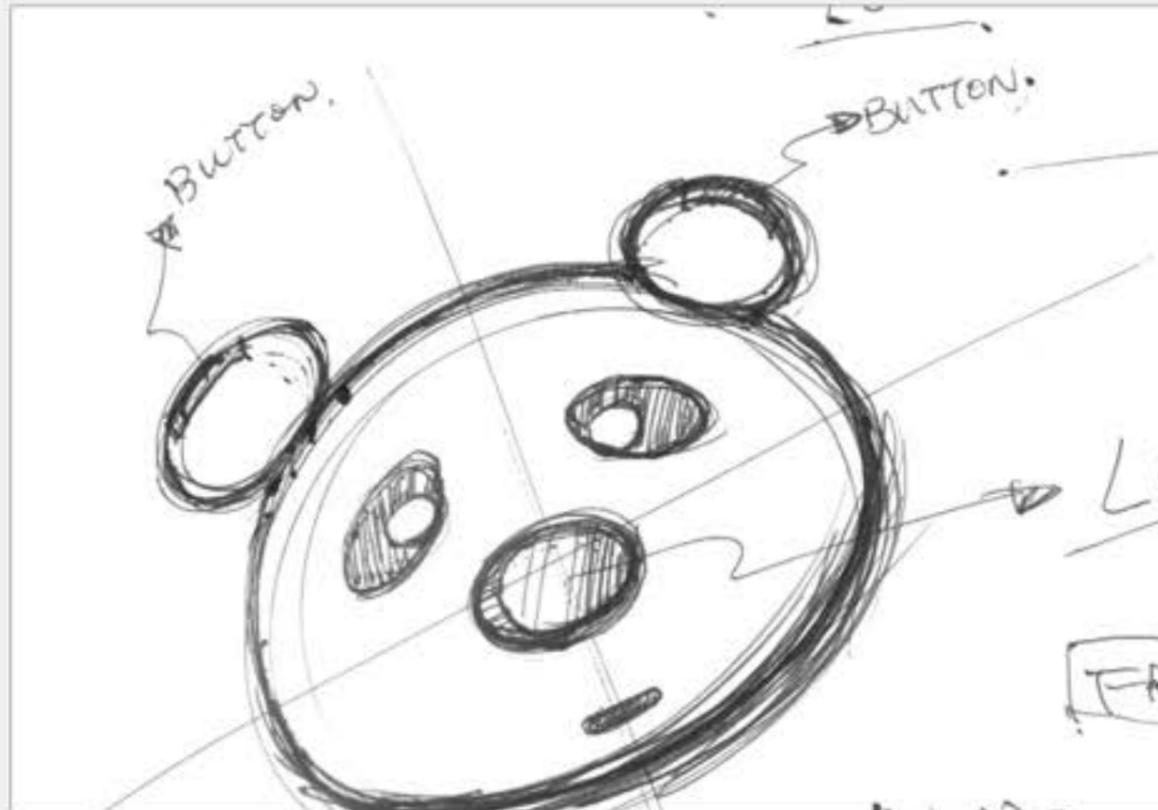


MODELLING

I sketched many drafts for the modelling of the kids' camera. Finally I reached a satisfactory model sketch as shown in the picture on the right.

FUNCTION

At the same time I also located the function buttons of the camera.

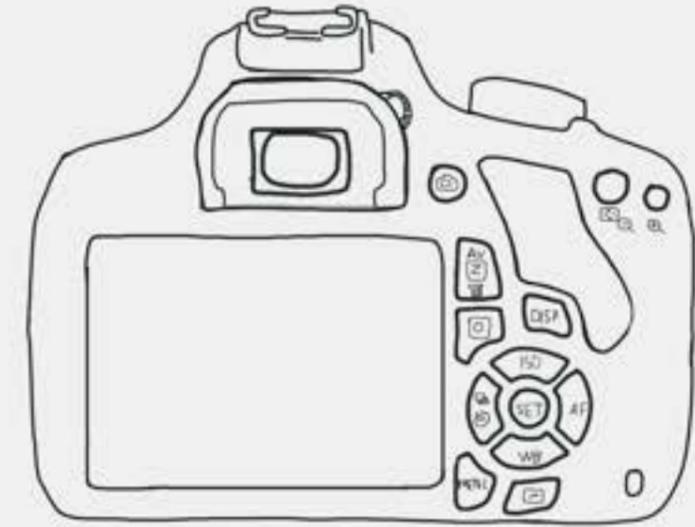


BEFORE AND AFTER

BEFORE

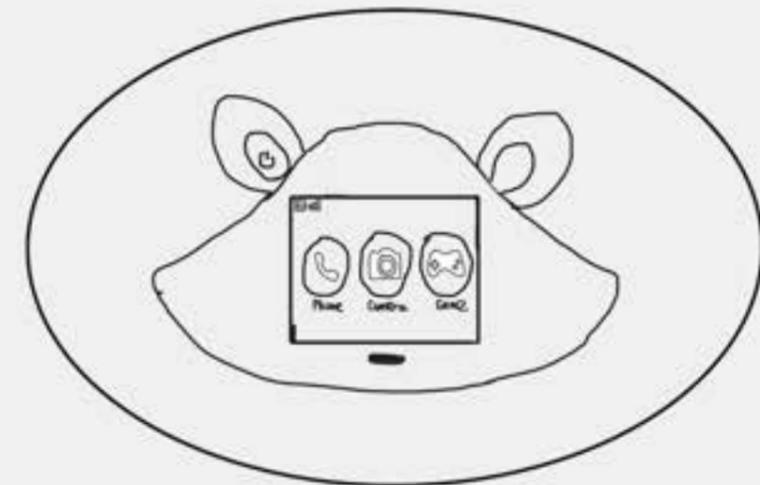


- There are lots of digital cameras on the market, but rarely for children, and it is hard for children to use most of cameras by themselves. Also the products' features are not attractive enough.



- Too many buttons on the cameras are difficult for kids to remember each function. And the shape and weight of the camera are also not suitable for children.

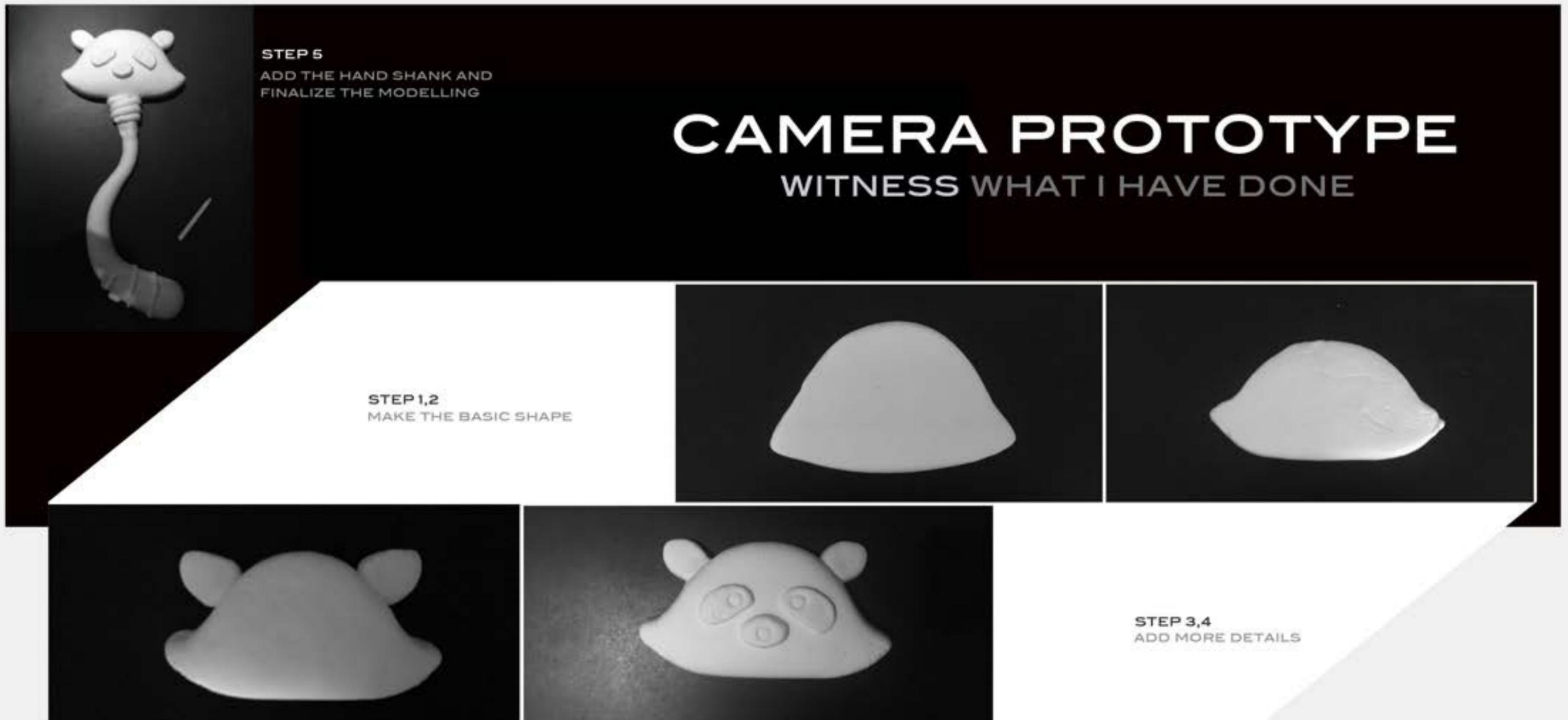
NOW



- Now the camera designed for kids is not only with the shape looks like a raccoon, but also with only 3 main functions: calling, taking photos and playing games. Therefore, it will be much easier and enjoyable for kids to use and control.

CAMERA PHOTOTYPE

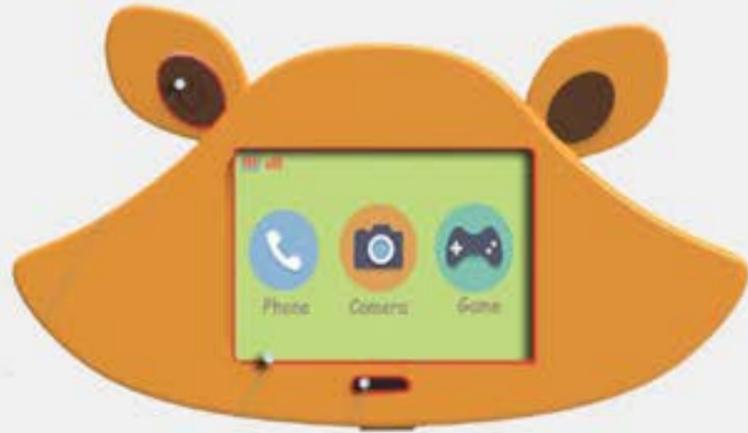
After I had initial design concepts, I used the plastic clay to make the camera modelling according to my sketch. The aim of making 1:1 modelling was to experience the actual degree of usability comfort, as well as recognize the problems may occur in terms of ergonomics.



3D MODELING



UI DESIGN



PHONE FUNCTIONS



SELECT THE PHONE FUNCTION

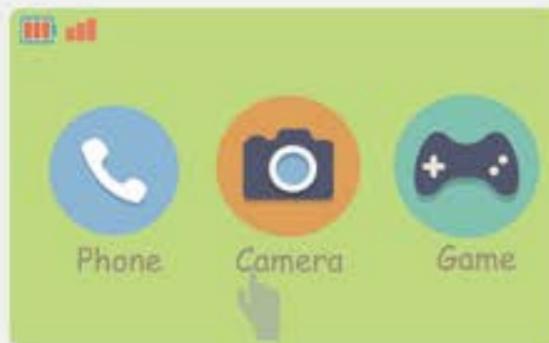


SELECT THE CONTACTS

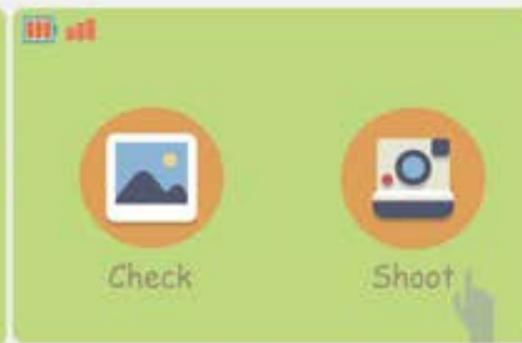


TO CALL

CAMERA FUNCTIONS



SELECT THE CAMERA FUNCTION



CLICK THE SHOOT ICON

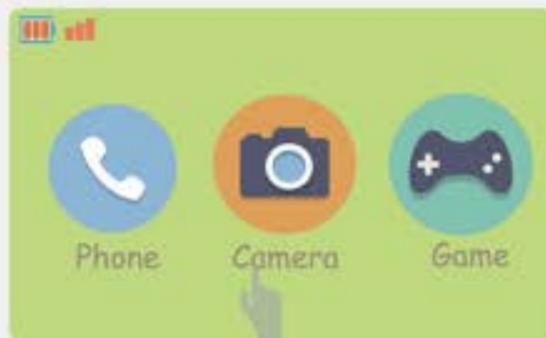


BEFORE THE SHOOTING, YOU CAN PRESS THE MENU ICON

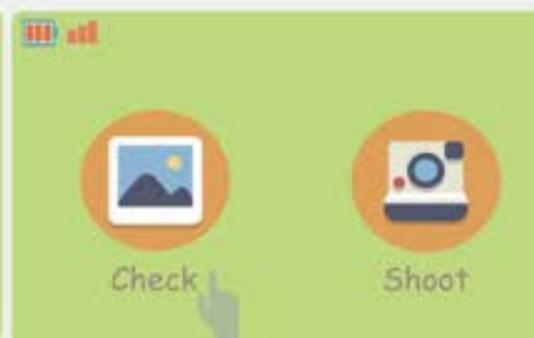


THEN SELECT THE FILTER YOU LIKE

CHECK PHOTOS



SELECT THE CAMERA FUNCTION

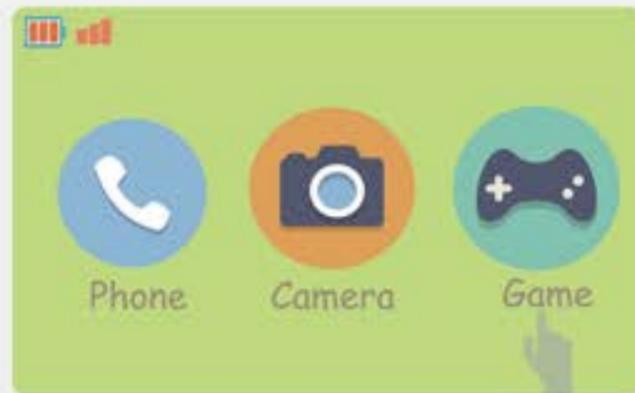


CLICK THE CHECK ICON

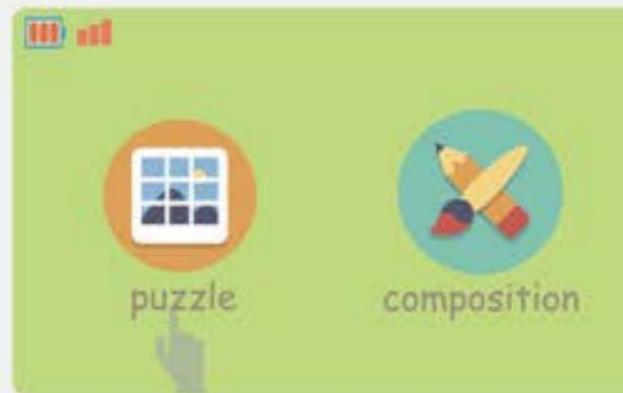


YOU CAN CHECK THE PHOTOS

GAME FUNCTION 1



SELECT THE GAME FUNCTION



CLICK THE PUZZLE ICON

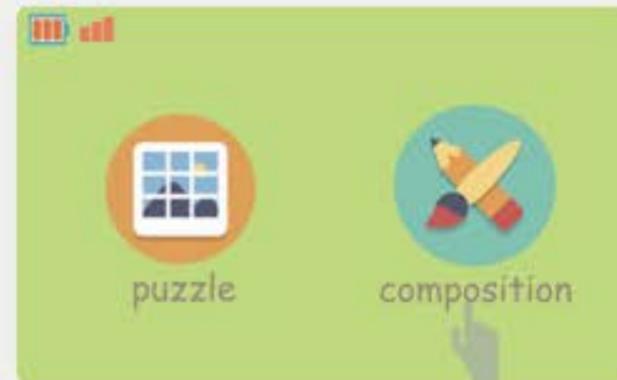


THEN YOU CAN TURN YOUR PHOTOS INTO PUZZLE GAME

GAME FUNCTION 2



SELECT THE GAME FUNCTION



CLICK THE COMPOSITION ICON



THEN WHEN YOU TAKE PHOTOS, IF YOU GOT THE NICE COMPOSITION, A GREEN TICK WILL SHOW UP ON THE SCREEN.



WHEN YOUR COMPOSITION IS BAD, A RED CROSS WILL APPEAR TO INFORM YOU.

INTELLIGENT KITCHEN SYSTEM

DESIGN FOR ALL AGE HOUSEWIVES



REASERCH

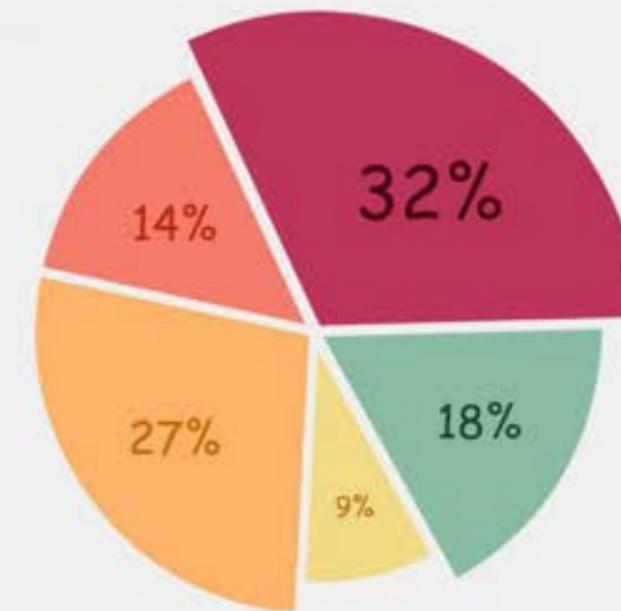


The left picture shows the statistics what I concluded about the Chinese diet problems in six aspects after conducting my qualitative interviews on the target group as mentioned before. By classifying the problmes, it will be helpful to come up with more accurate solutions to solve these problems.



Interview question: What problems are you facing while you are cooking?

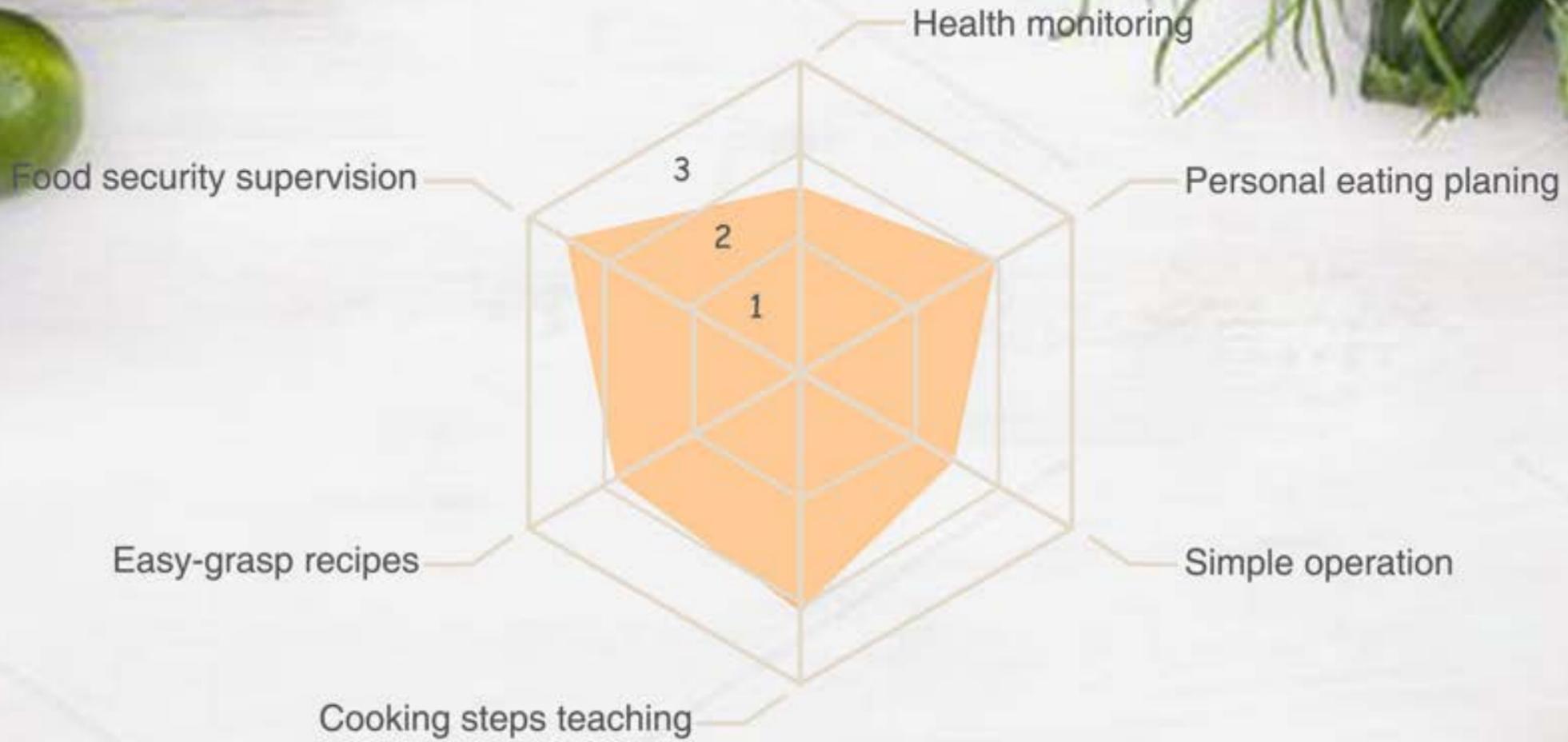
In order to understand the housewives concerns when they are cooking, I conducted a qualitative interview with five housewives in China with age range from 20 to 40 years old. The results are shown as below :



- Confused when deciding the right amount of cooking ingredients
- Unfamiliar with many cooking recipes
- Stuck with making varieties of meals
- Concerned about food safety issues
- Hard to find out the healthy diet for the family

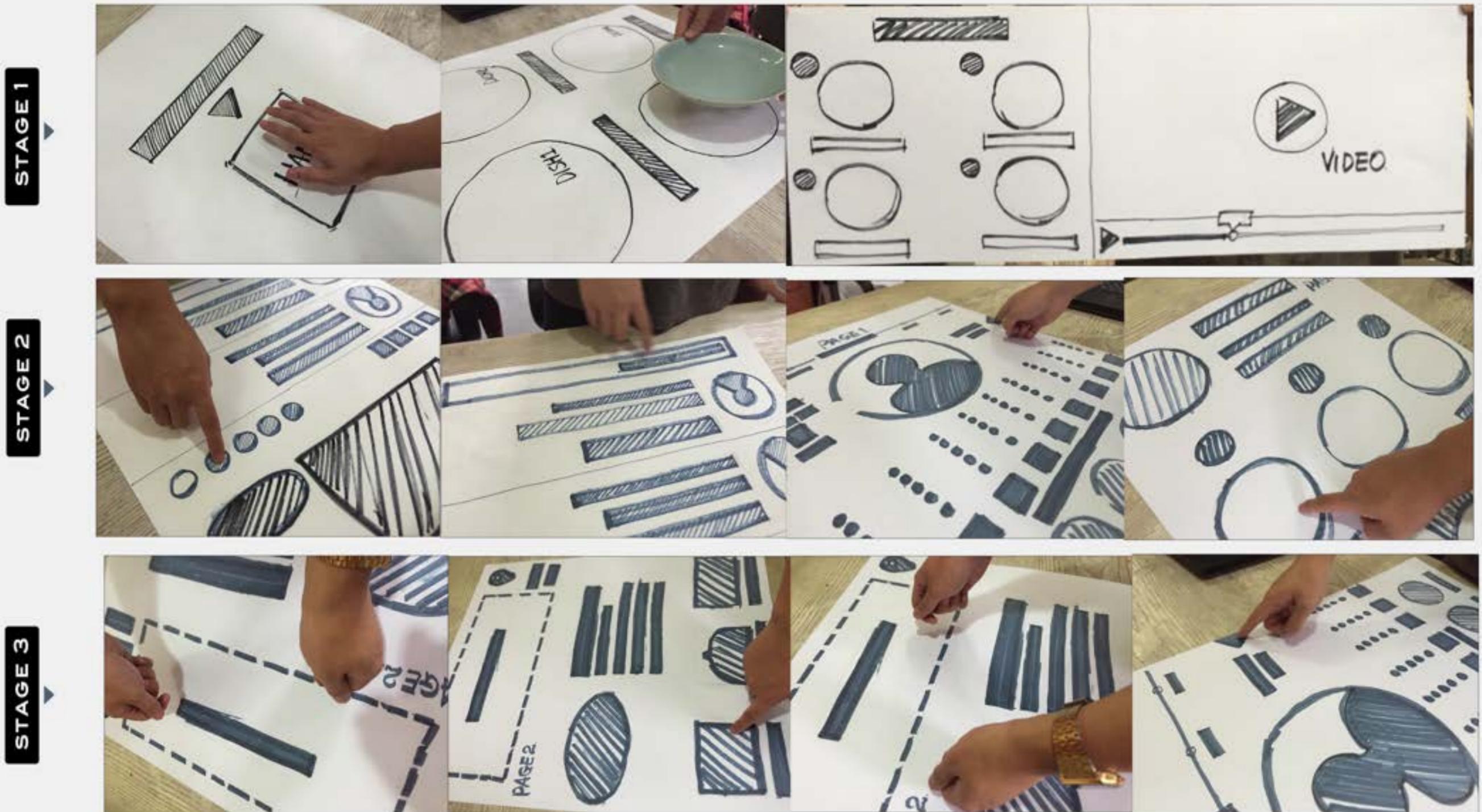


USER NEED



According to the interview, users require the functions such as food security supervision, health monitoring, personal eating planing, simple operation, cooking steps teaching and providing easy-grasp recipes, One of the biggest demand is food security supervision, because most of users pay attention to the health issue, so I should focus more on this sspect.

PAPER PROTOTYPE

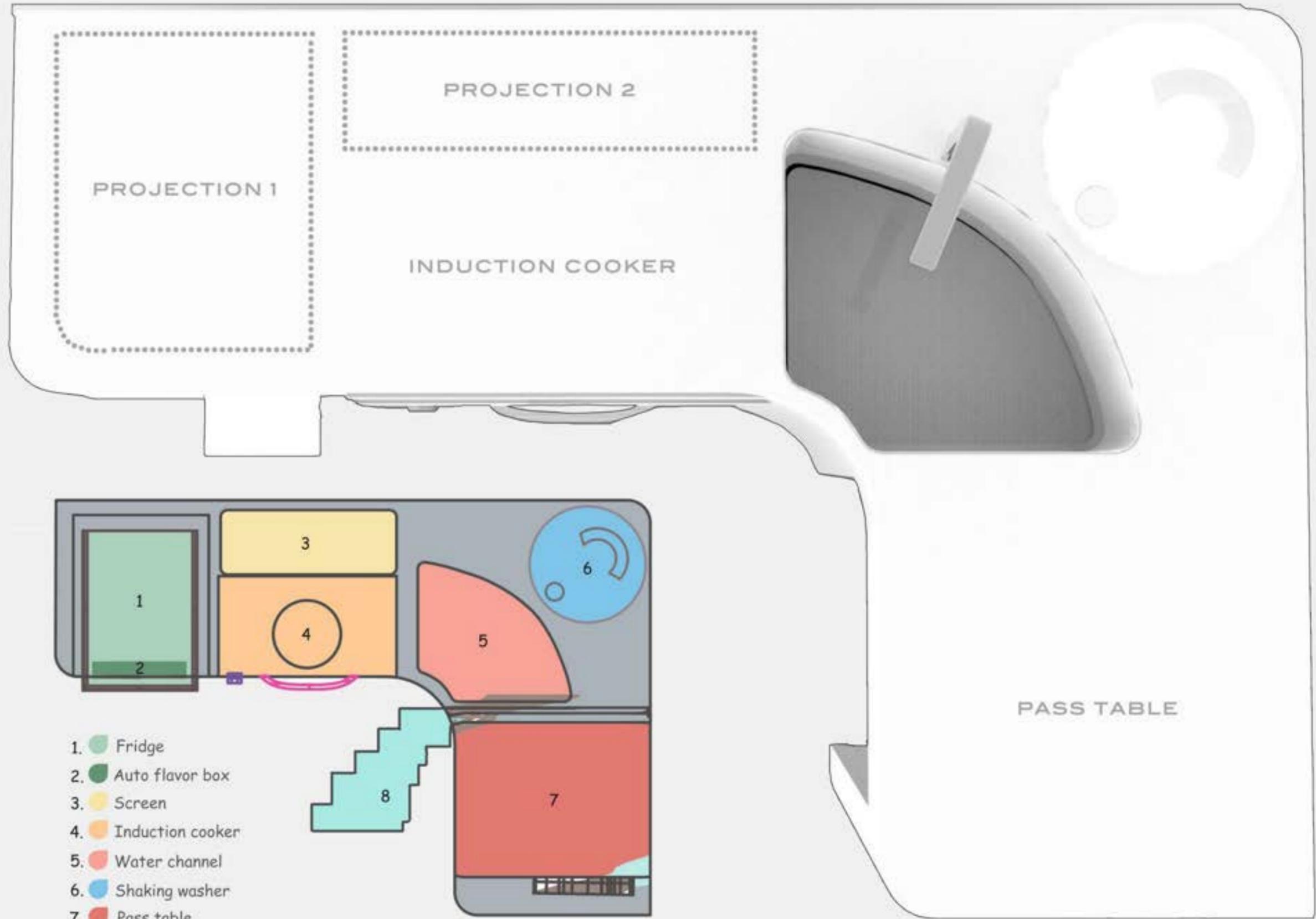


I made the UI paper prototype (1: 1) and the purpose was to experiment whether the size of the UI would be suitable for housewives to use in the real case.

Stage 1 was to test the interactive screen size of cooking teaching. **Stage 2** was to test the interactive screen and bottom sizes of Health Monitoring and Food Security Supervision functions.

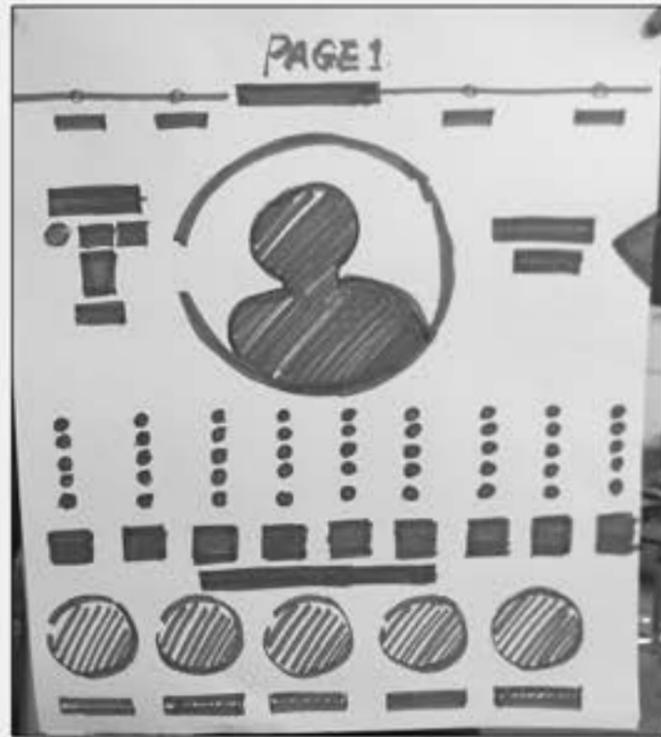
Stage 3 was to test the bottom and screen sizes of the Personal Eating Planning menu.

WORK STATION PARTITION



- 1. Fridge
- 2. Auto flavor box
- 3. Screen
- 4. Induction cooker
- 5. Water channel
- 6. Shaking washer
- 7. Pass table
- 8. Environmental protection folding stool

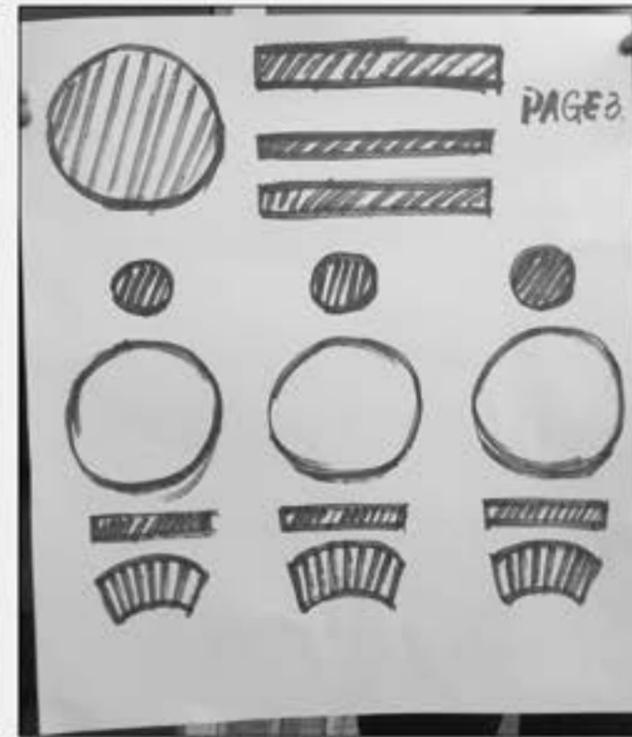
PAPER PROTOTYPE



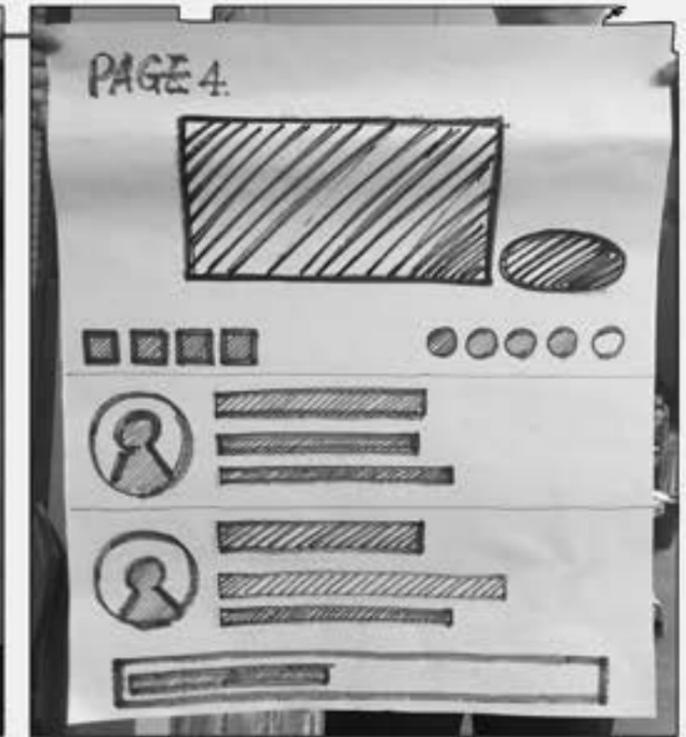
PAGE1 User Information



PAGE2 Ingredient Information



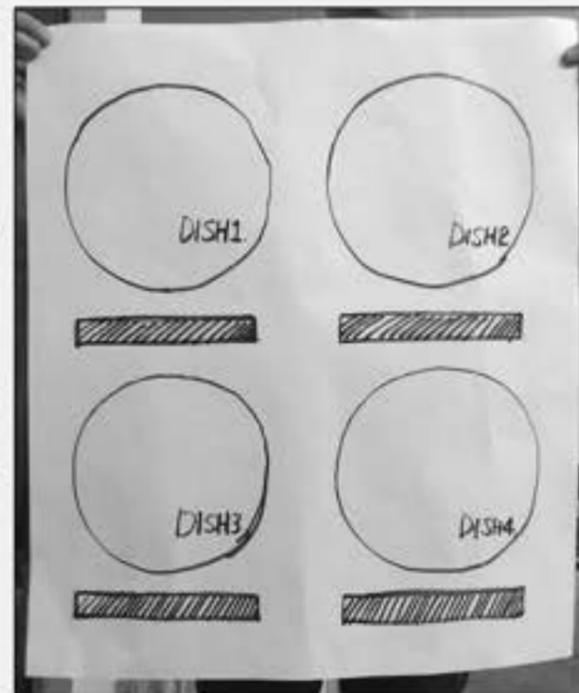
PAGE3 Ingredients Weighing



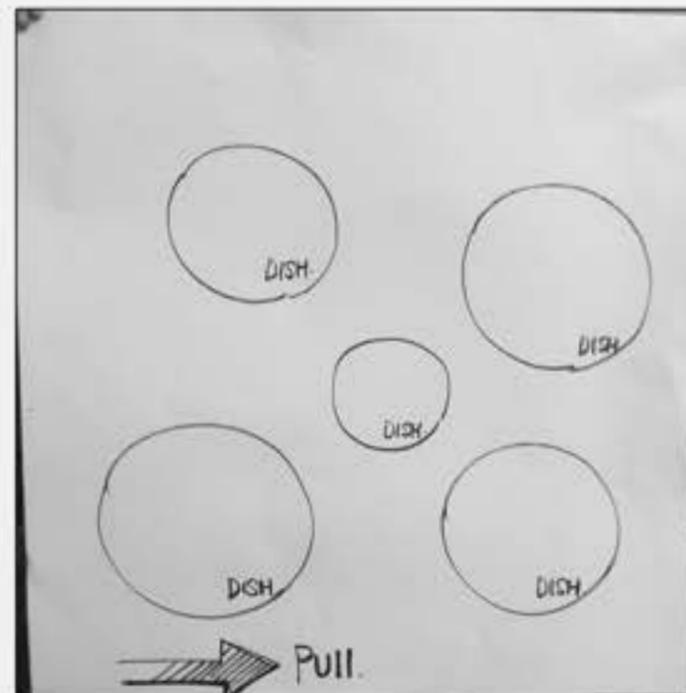
PAGE4 Menu Review



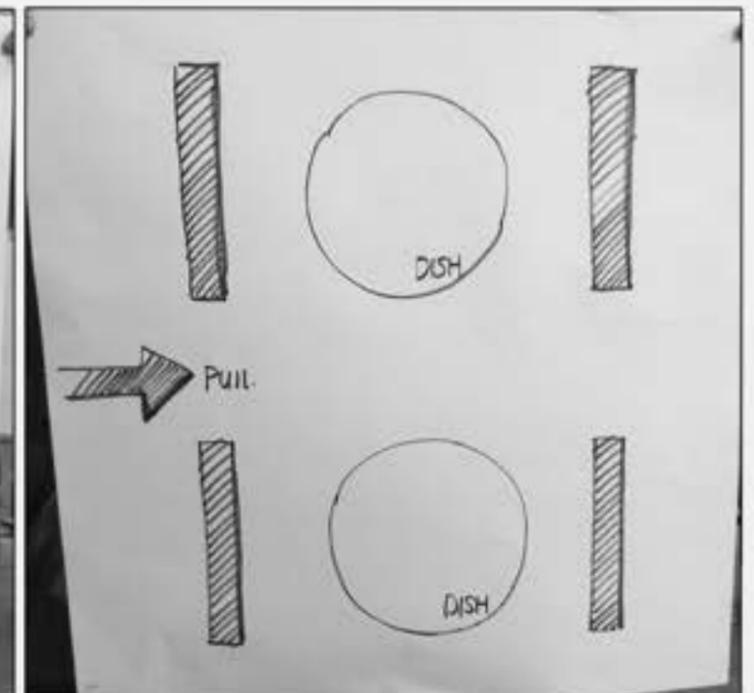
PAGE5 Hand Identification



PAGE6 Recipe Choices

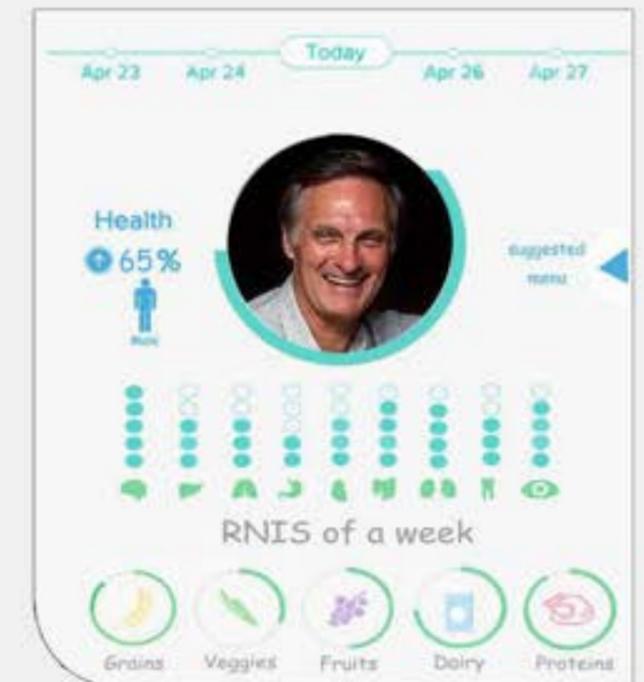
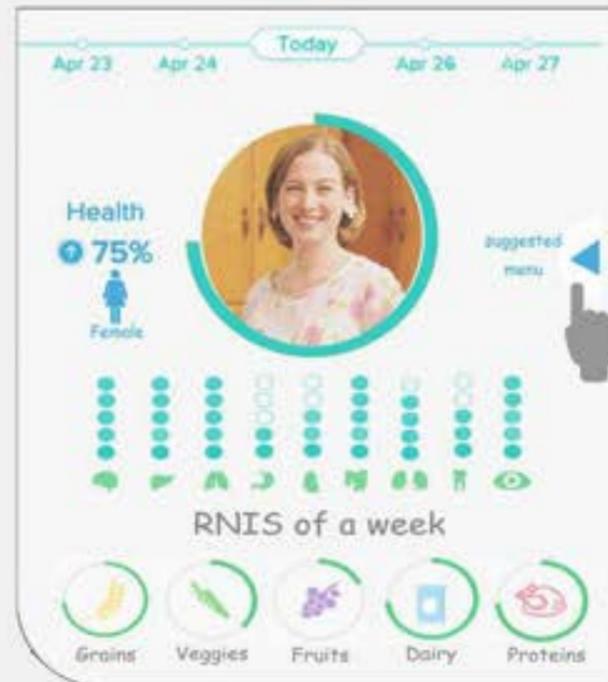
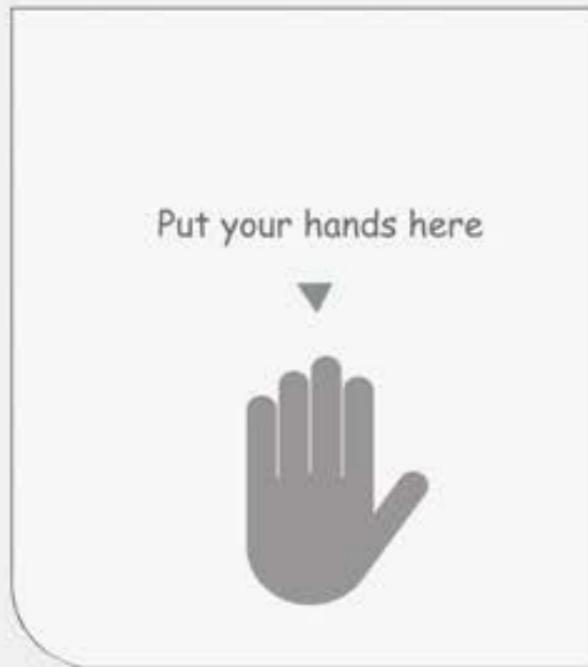


PAGE7 Table Setting (more than 2 people)



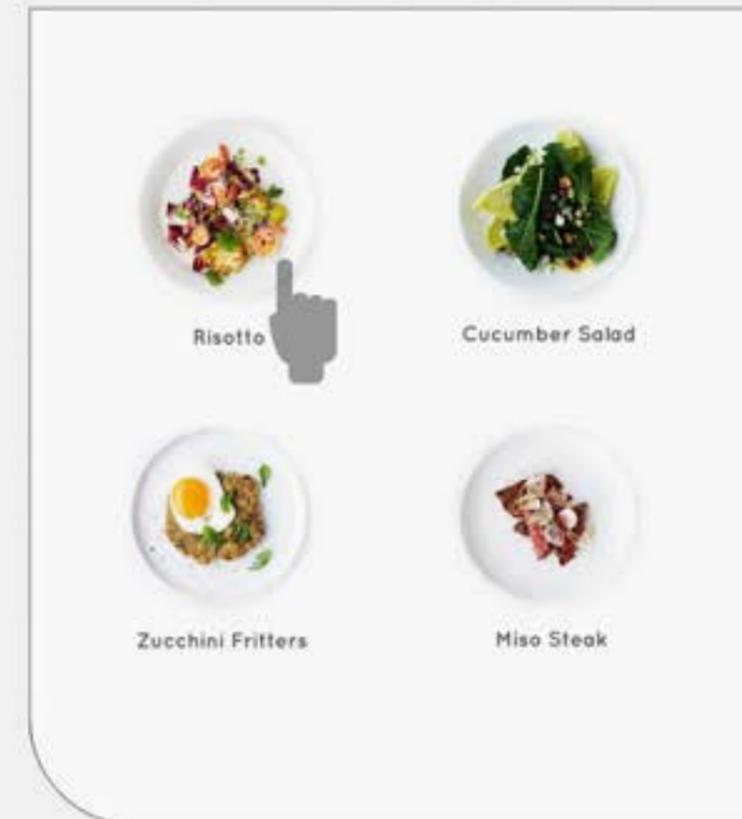
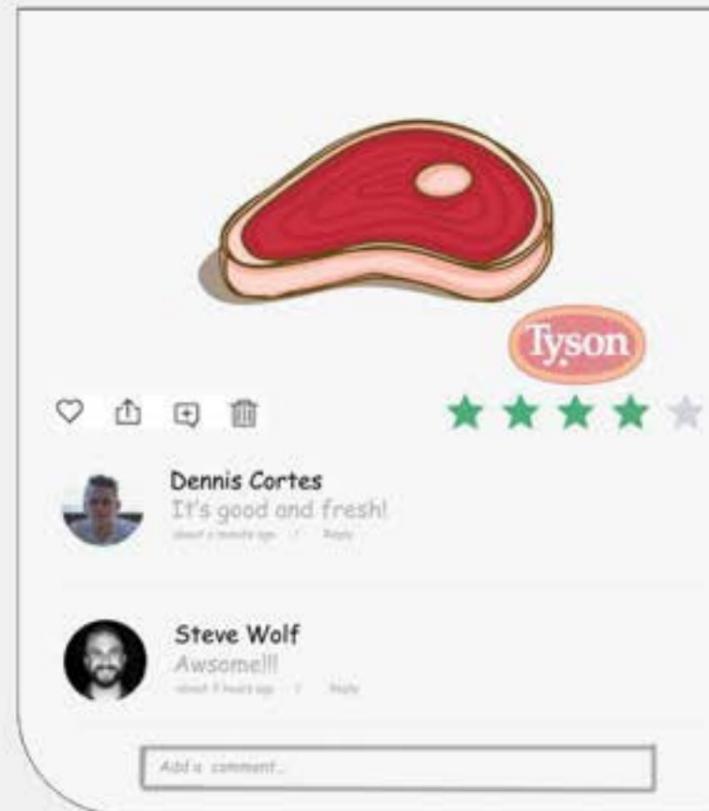
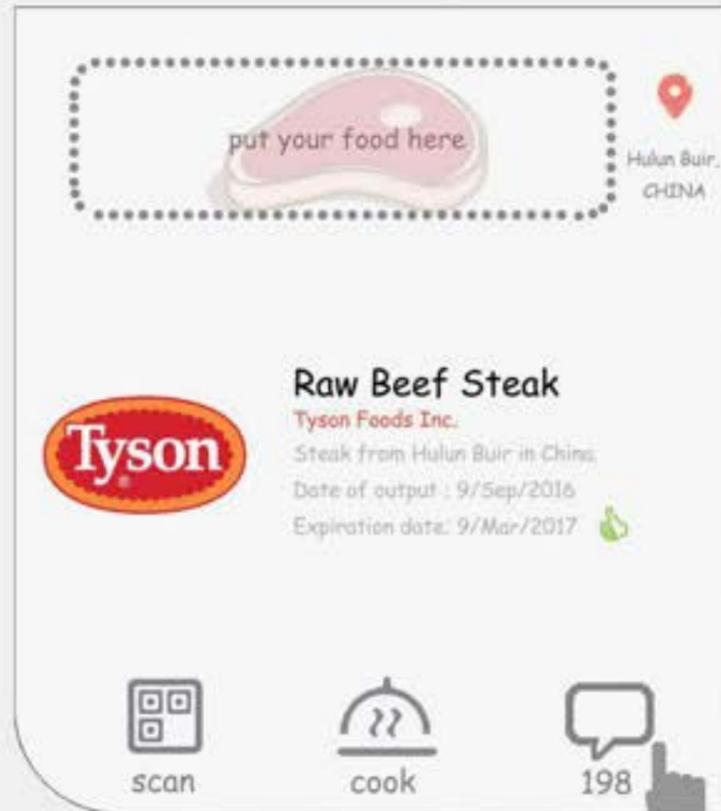
PAGE8 Table Setting (2 people)

UI DESIGN



Put hands on shade, then user's personal information will appear and this is the UI design for the user, The information include the date, health index, suggested menu, gender and food intakes of the week. It can also recommend the eating plans based on their physical health conditions, ages and food preferences.

UI DESIGN 2



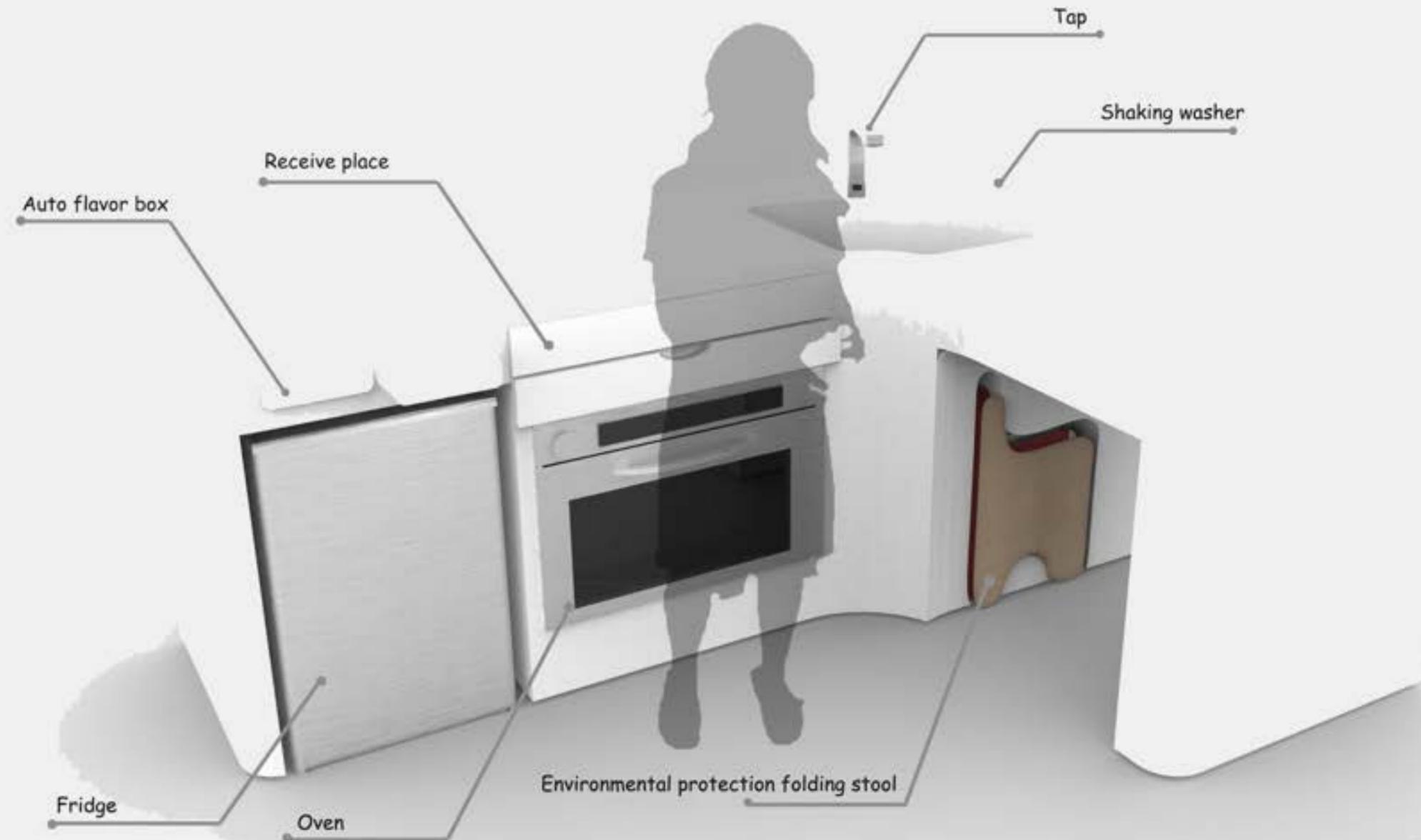
This is the ingredient identification UI interface. All the ingredients can be traced back to the production sources, also users can review other users' ratings and comments to find out the qualities of the ingredients.

Suggested menu UI interface allows users to learn about the ingredient weights (green circle means reasonable amount, red circle means overweight). And users could clearly control the quantities of the ingredients.

3D MODELING



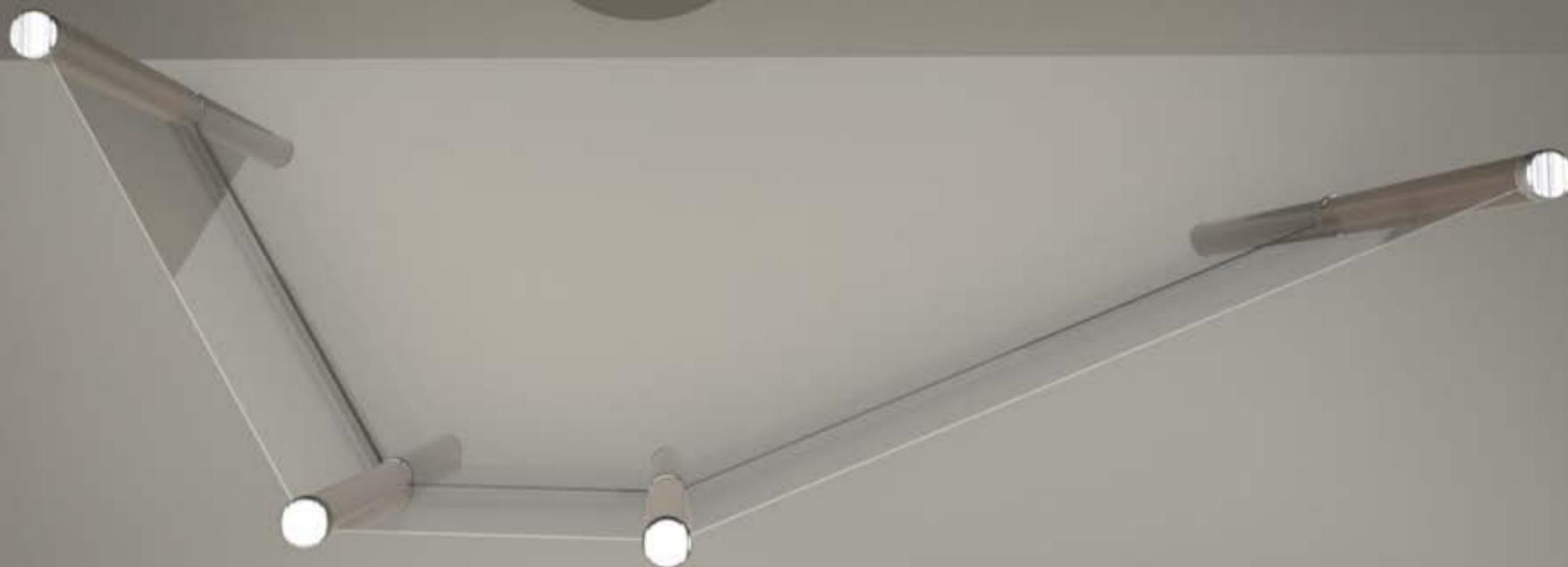
This interface will have detailed cooking teaching videos to help you cook your dishes.



A dark, industrial-style ceiling with a central circular light fixture. The ceiling is composed of several dark, cylindrical beams that meet at a central point. The light fixture is a circular, recessed fixture with a grid-like pattern. The overall aesthetic is modern and minimalist.

EASY STAGE

DESIGN FOR STREET ARTISTS



CURRENT SITUATION

Affectionate musical performances, magic plays, portrait painting on the pedestrians. Street arts have become a unique scene in the city. As busker groups are growing everyday, the government is paying more attention on how to manage those street artists and also on how to regulate their performance time and locations on the street. For this social issue, different people hold different views. Some consider that performing on the street is a normal social phenomenon which allows many unknown artists to make a living. There are also many people thinking that most of performances on the street cannot be considered as art. Moreover, people feel they randomly show up on the street and make noise, which are totally disturbances. Therefore, how to manage those street performances has become a new topic and difficult one in city management.

POSITIVE OPINIONS ON THE ISSUE

The public stage in city streets is an open space for all kinds of artists to show their creations and talents in art.

An open-minded attitude towards street performers as well as an unbiased understanding of street art performance concept are very important.

Personally, although some street performances could contribute to the chaos of the city, but good street art performances play a positive role to improve the city's cultural atmosphere. I think as long as they don't interfere with the public orders and present healthy contents, the society should give them a reasonable space for making a living.

Besides, among those street entertainers and artists, some of them have the potential to become an outstanding artist one day. And grass-root culture should not be ignored by the mass, since that is the footstone for cultural prosperity of our society today.



INTERVIEW



BASIC INFORMATION:

Name: Katncandi(Wangshuo ,Zhangjiajia)

Age: 24,22

Job: Buskers

Frequency of shows: Four times a week

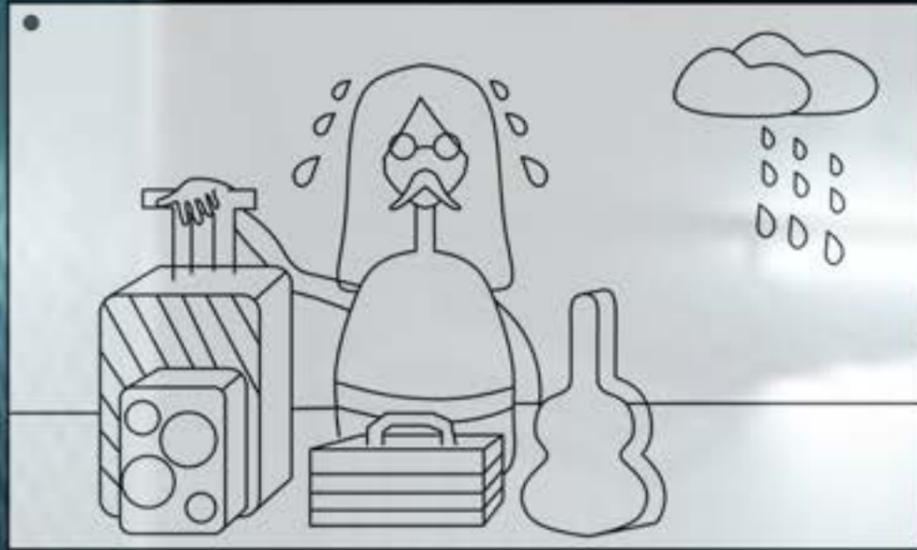
PROBLEMS TO PERFORM SHOWS

1. Too much performance equipment
2. Unstable performance locations
3. Disappointed stage effects
4. Indecent way of donation
5. Lack of public attention

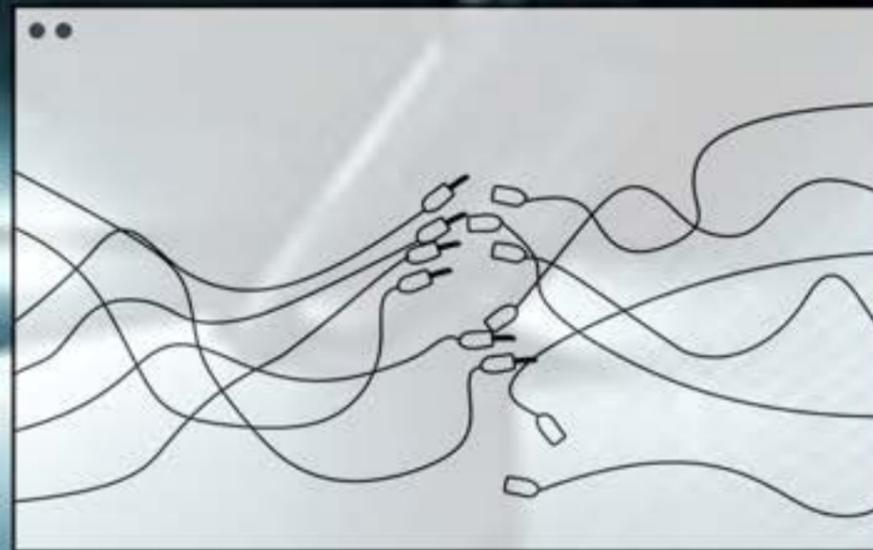
NEEDS & DEMANDS

1. Nicer stage settings
2. Better-quality equipments
3. More marketing promotions
4. More conveniently to prepare shows
5. Better payment way(something electrical)

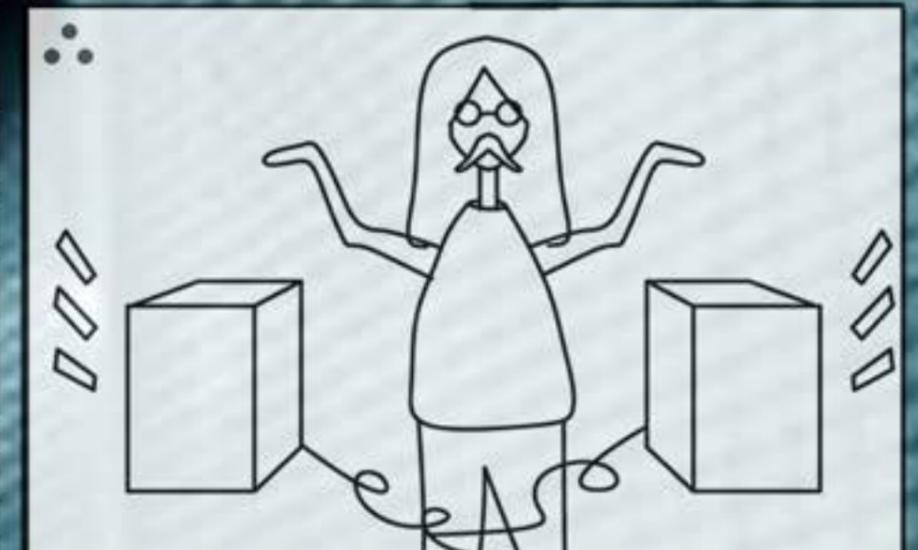
STORYBOARD



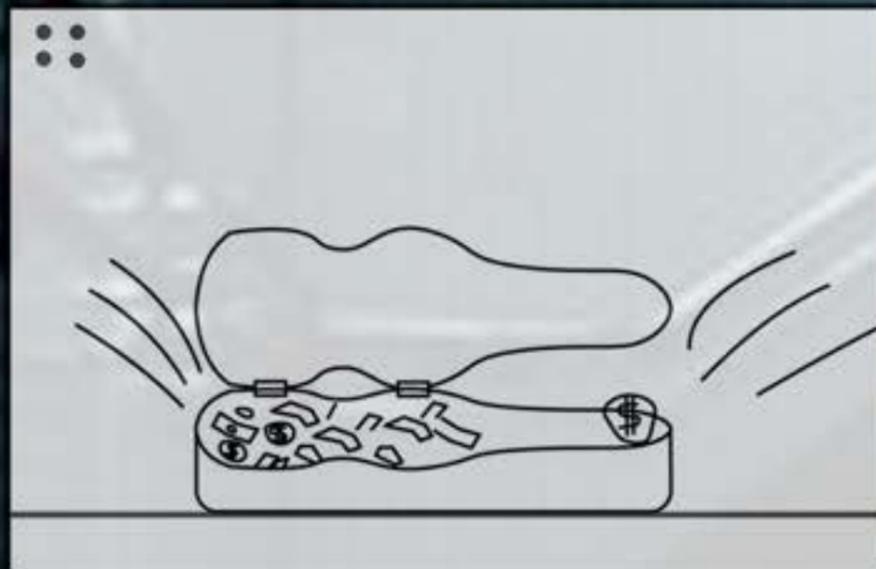
TOO MANY LUGGAGES



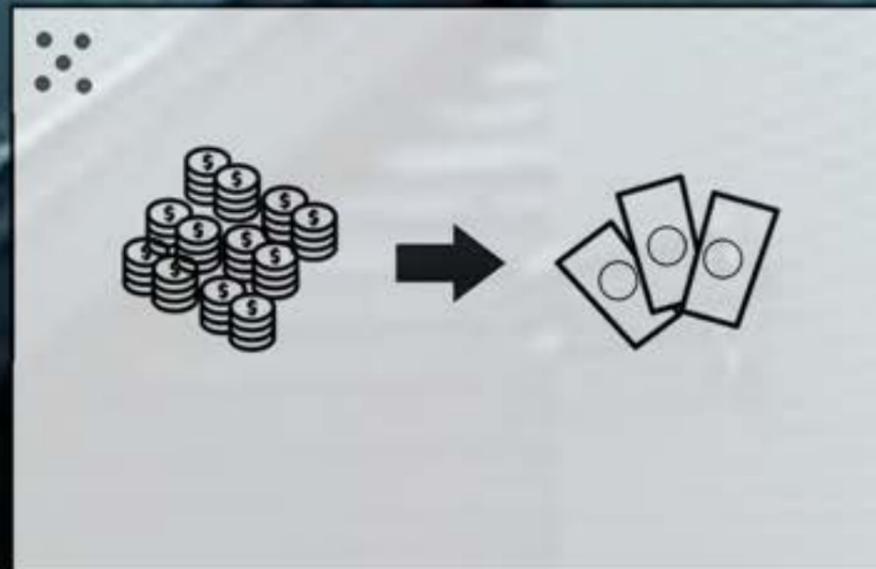
COMPLEX ASSEMBLIES



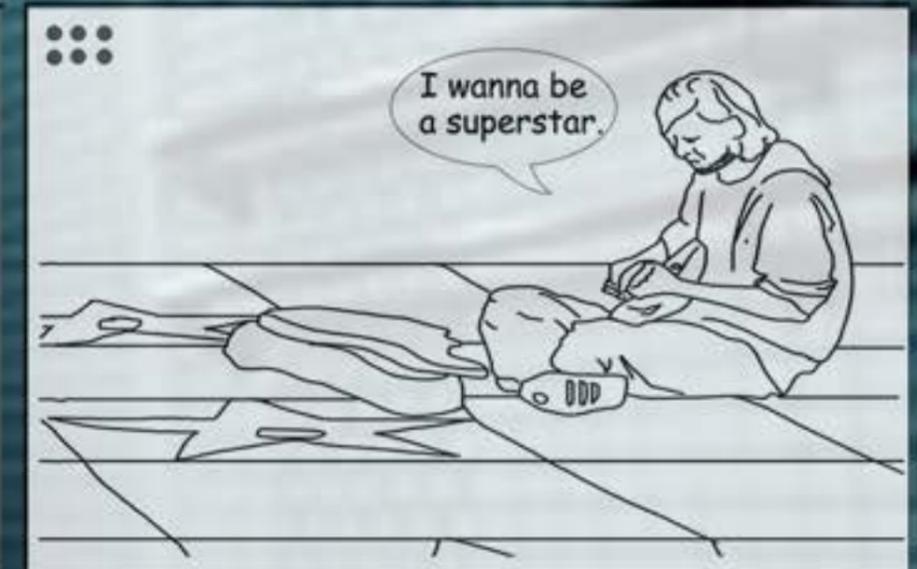
POOR ACOUSTICS



BAD PAYMENT WAY



TOO MANY SMALL CHANGE

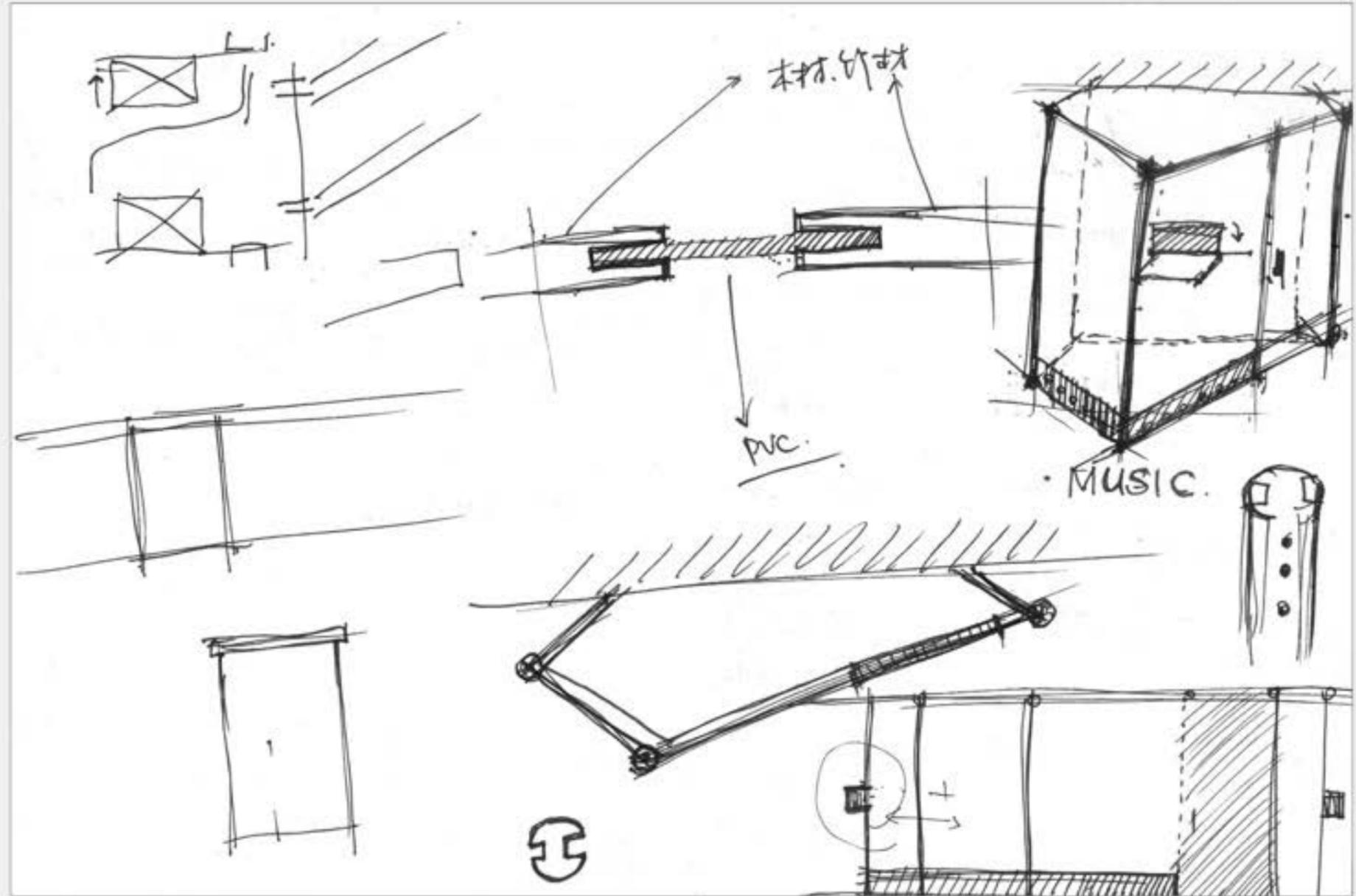


WANT TO BE FAMOUS

I FOUND OUT SIX COMMON PROBLEMS HAPPENED TO STREET PERFORMANERS, AND SUMMED UP IN A STORY BOARD. THE SIX PROBLEMS ARE TOO MANY LUGGAGES, COMPLEX ASSEMBLIES, POOR ACOUSTICS, BAD PAYMENT WAY AND TOO MANY SMALL CHANGES AND THEY WANNA BE FAMOUS.



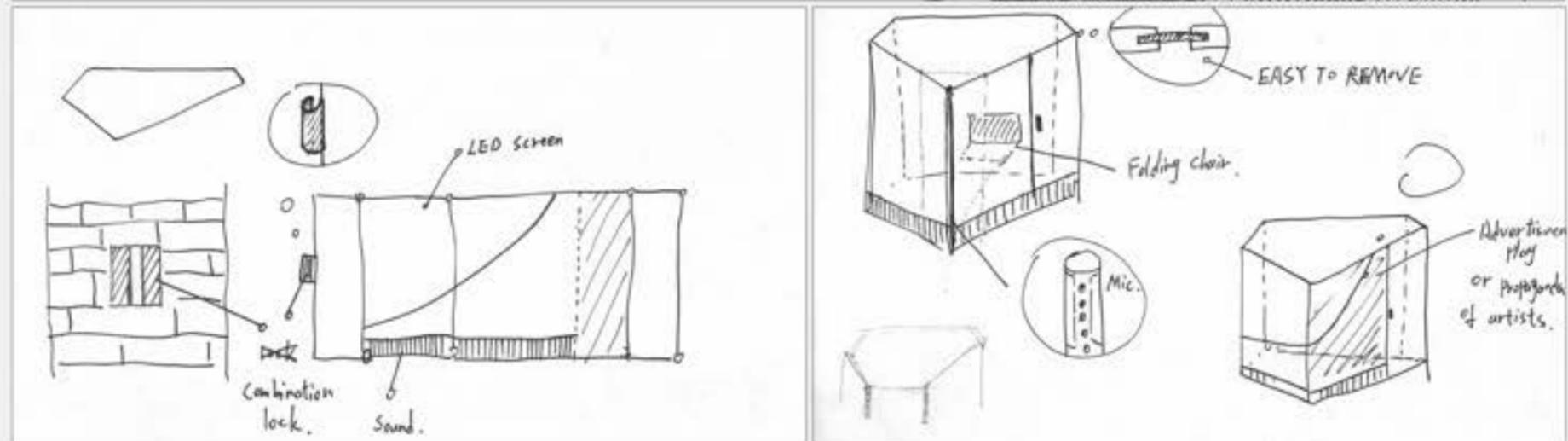
THE SKETCH



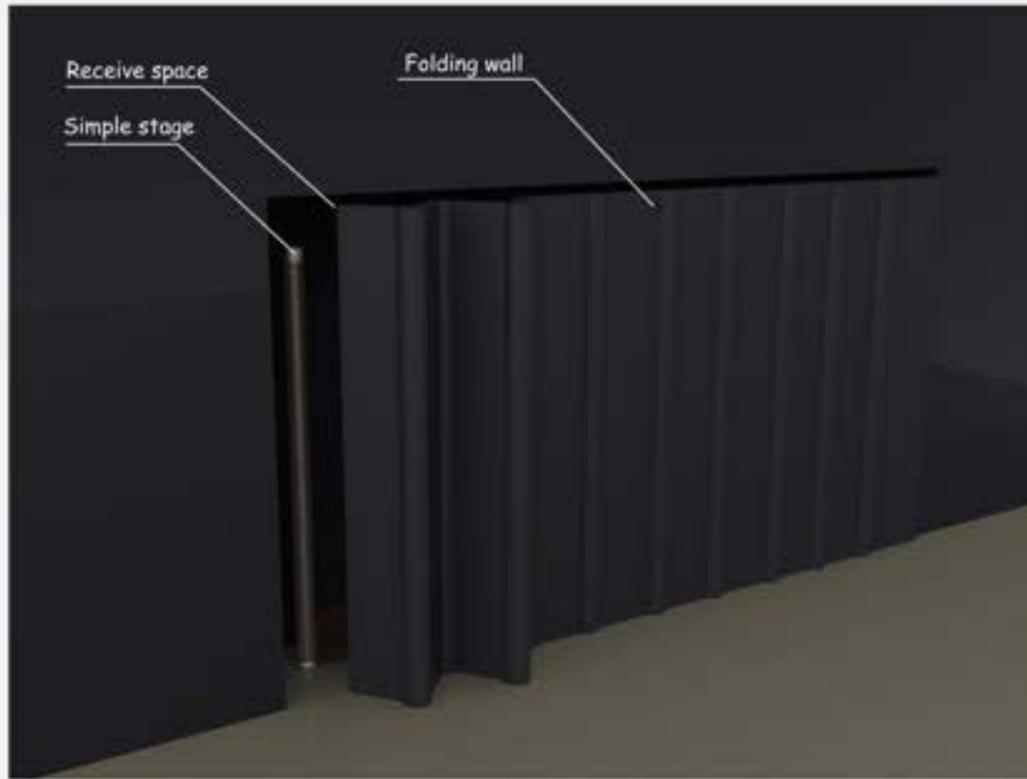
DETAILS

BEFORE USE

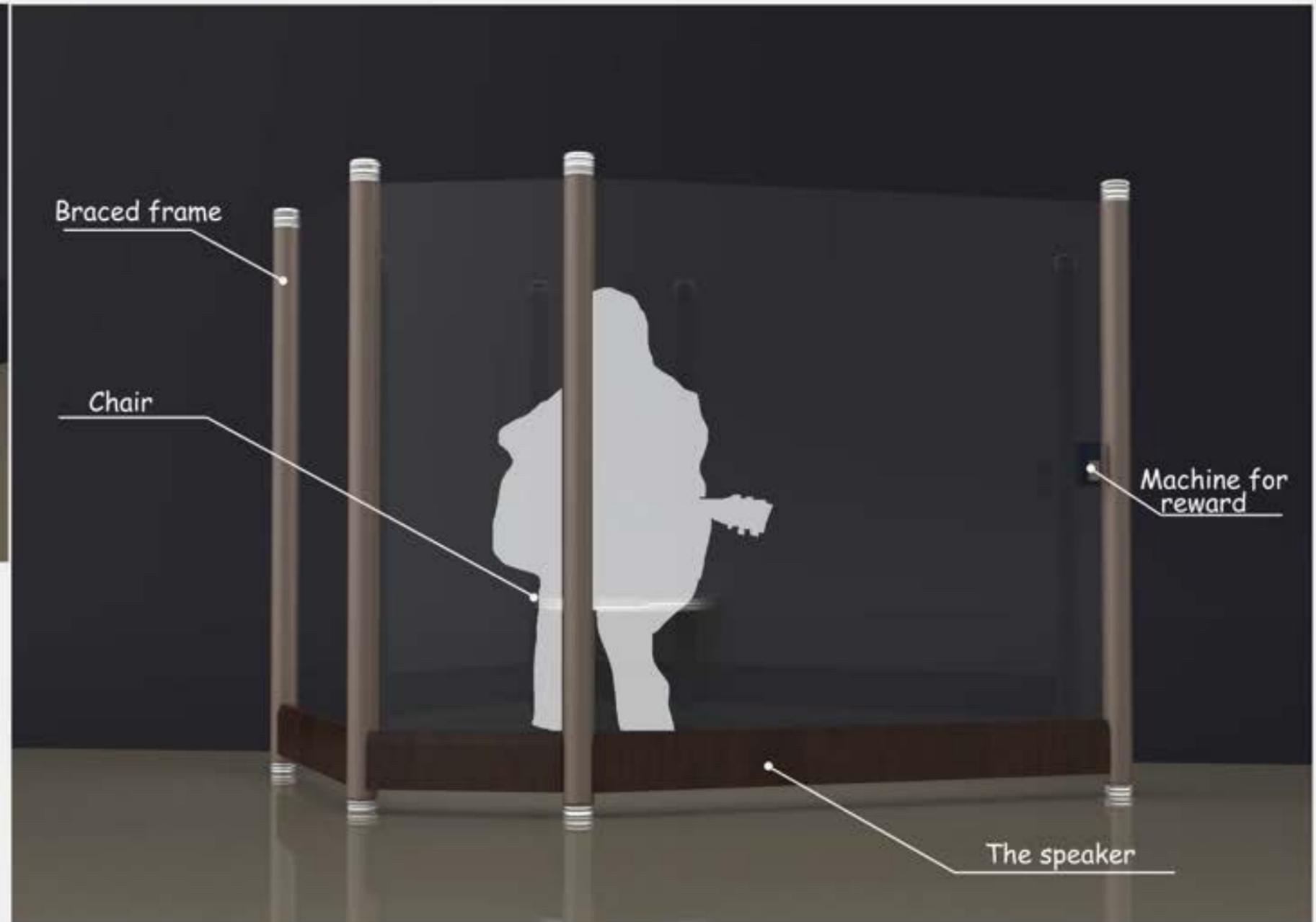
IN USE



3D MODELING



BEFORE ASSEMBLING

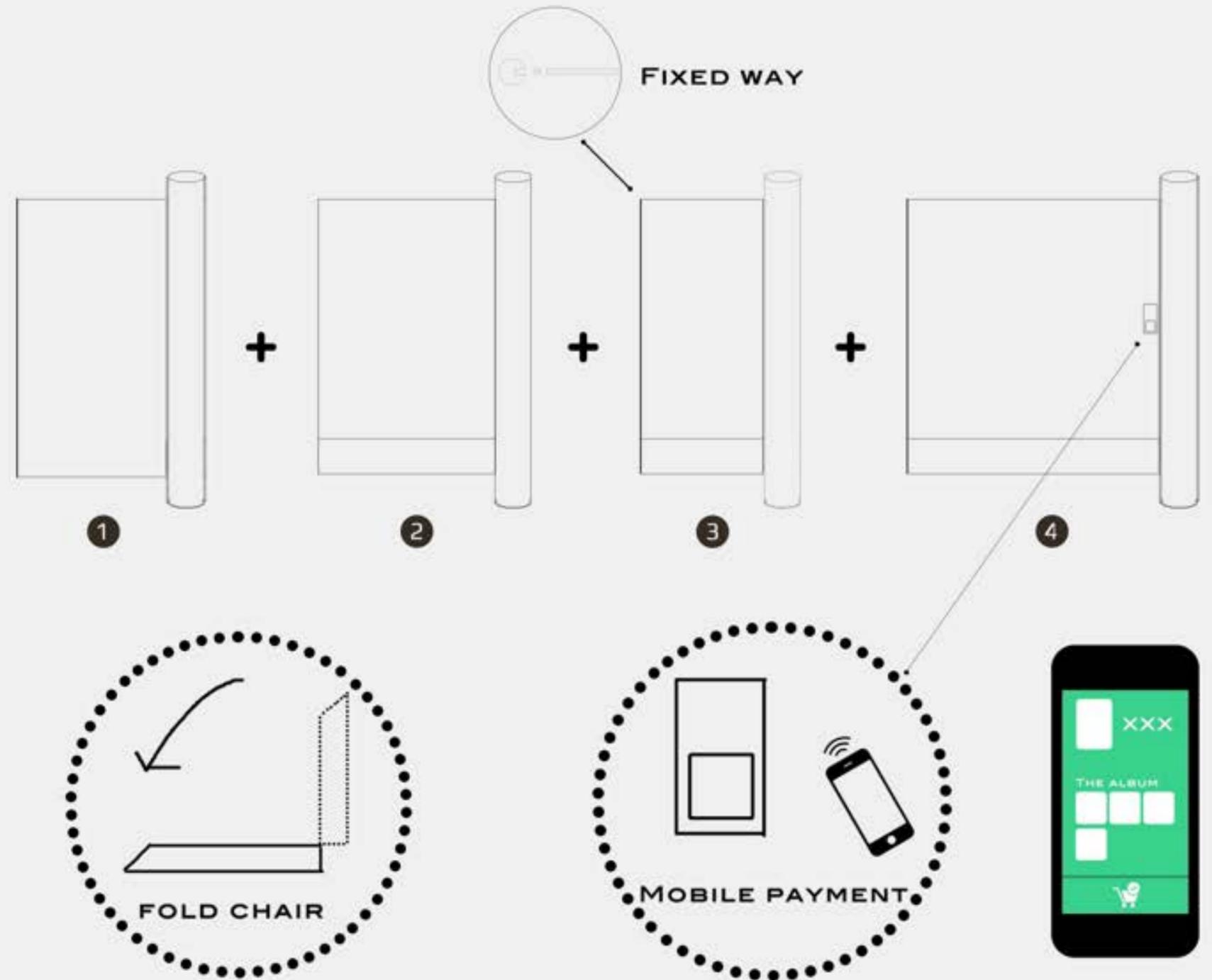


IN USE

Here is a simple 3D modelling of the general features of the stage, including a speaker and a machine for reward. At the same time, the design can save space and improve the performance quality of the singer. After using the stage, it can be folded inside the wall, which will not be a waste of space while not in use.



HOW TO USE



THE ASSEMBLY STAGE: Put the 4 boards for assembly.

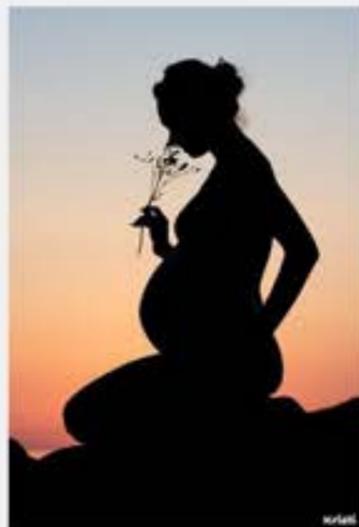
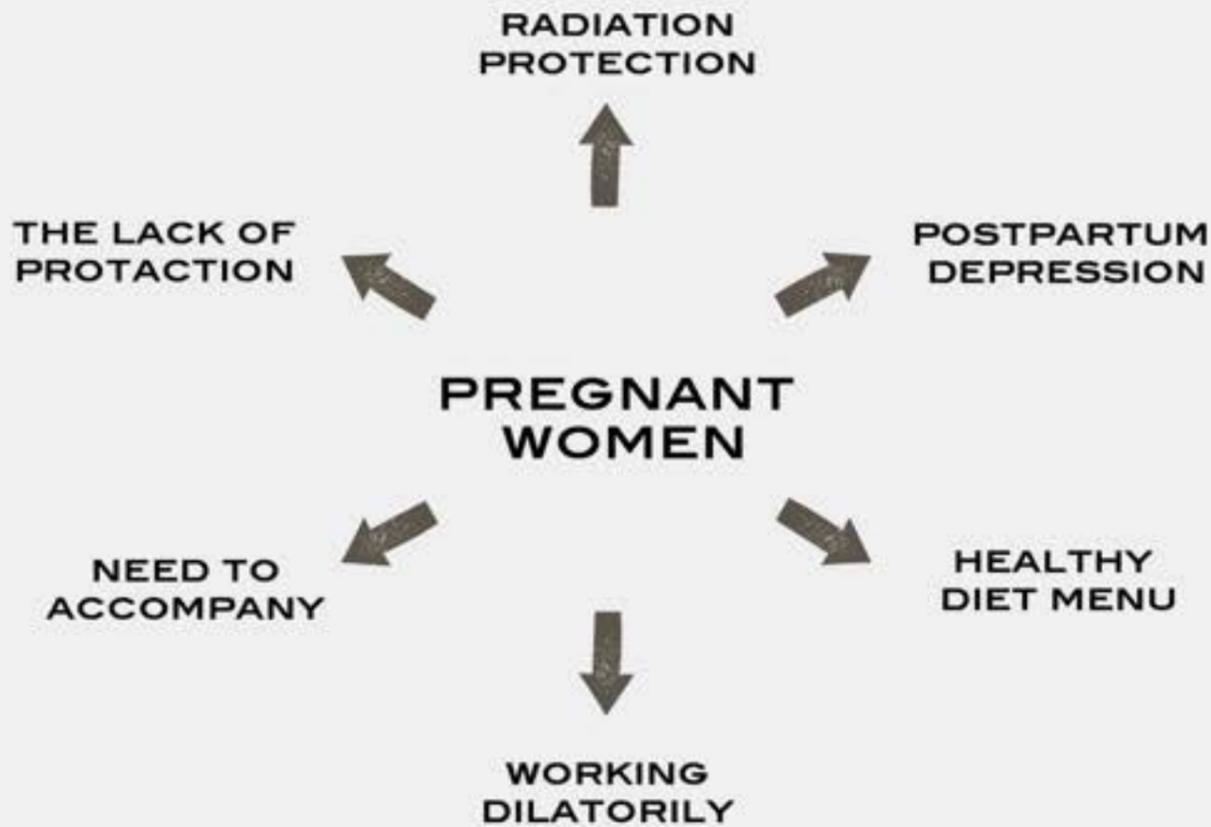
FOLD CHAIR: Folding chairs can be folded if unnecessary.

DONATION AND ALBUM DOWNLOAD: When users put mobile phones near the payment machines, they can choose either to donate directly to performers or to download their albums with a price.

**RIDING ASSISTANT FOR
PREAGENT WOMEN**
DESIGN FOR PREGNANT WOMEN



BRAIN STORM



For this project, I considered different social vulnerable groups. In the end, I decided to design a protective device for pregnant woman. The reason is when many women are in their early pregnant stage, it is quite difficult for other people to notice their pregnant conditions in public. Thus, I designed a wearable riding assistant device which can inform the public when there are pregnant women on the public transportations.





THE SKETCH

Hole On/Off Light Charger

W.S.P.B.

字母状

B.



W.



S.



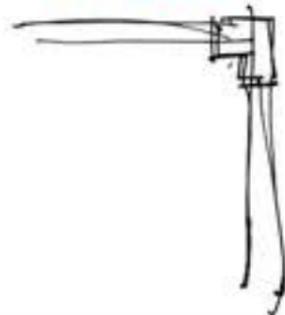
P.



P.



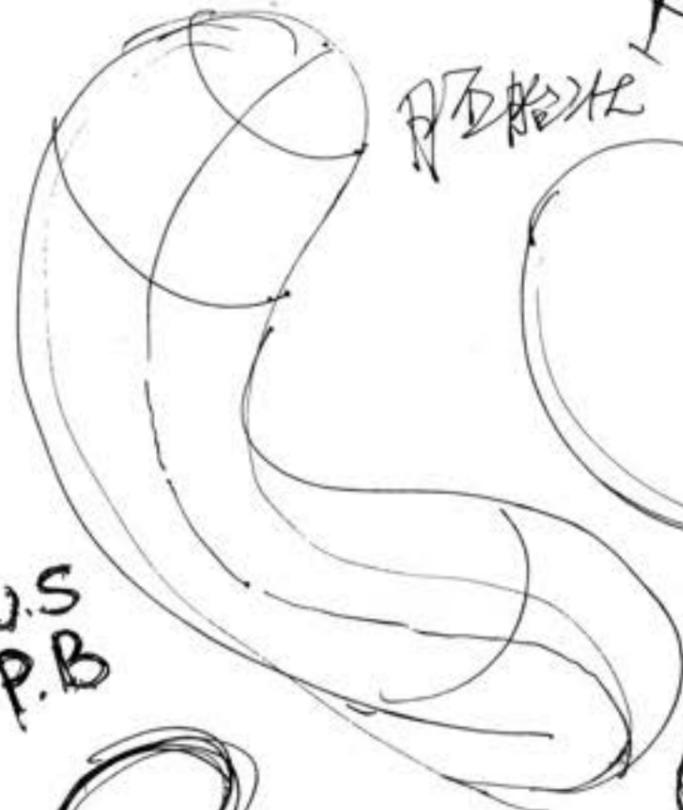
S.



手链状, 手环状, 挂件(包)
腰扣, 手机链形式

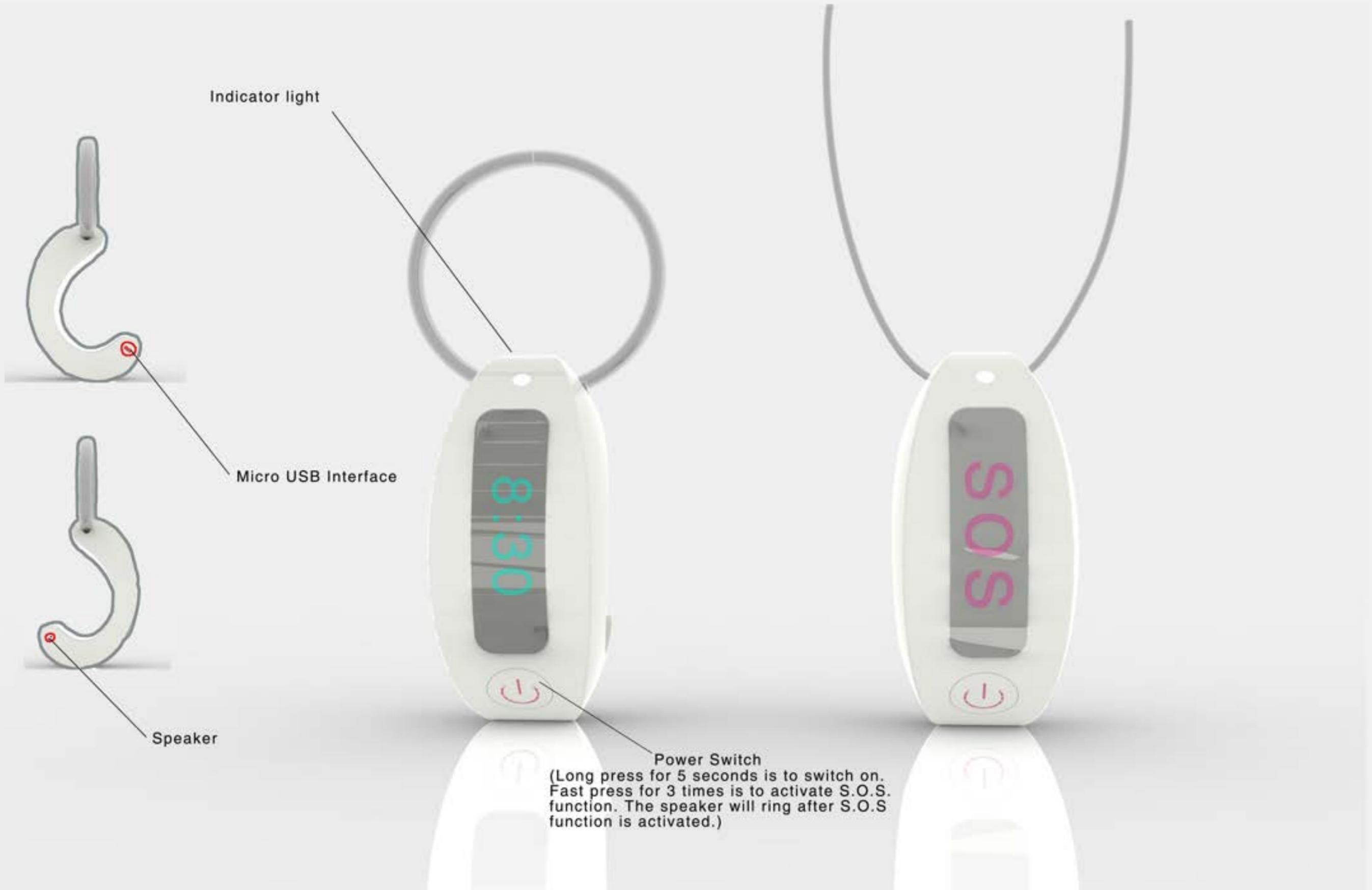


胚胎状



W.S.P.B.

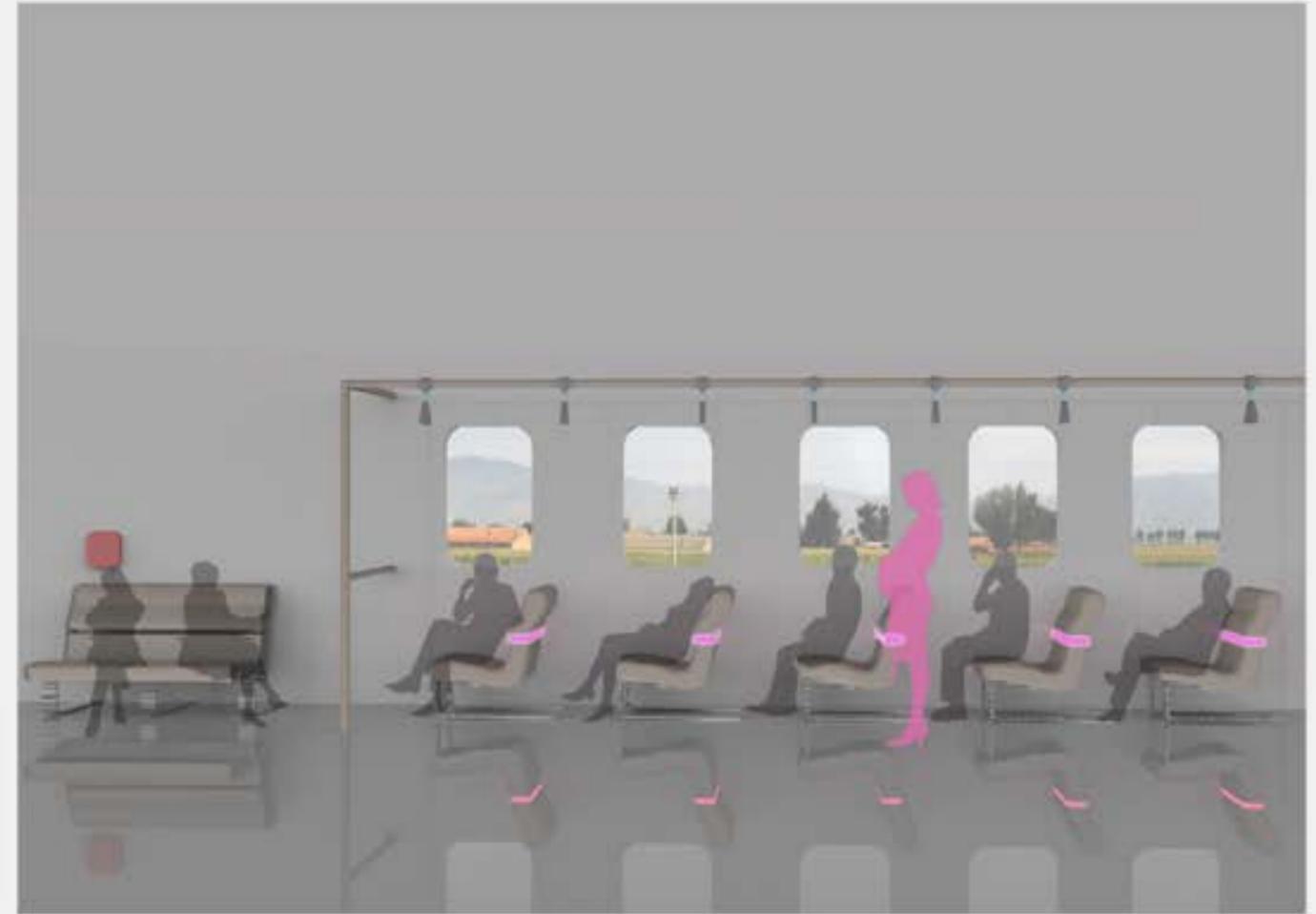




HOW TO USE



On the bus, when pregnant woman seat is occupied by someone who is not pregnant and without the device, then the seat will turn its light on to remind the passenger to reserve the seat only for pregnant women.



When pregnant woman walks past by a standard seat, while the seat is in use, the device will activate the light on the seat to inform a normal passenger to give his or her seat to the pregnant woman.



CERAMIC ART DESIGN

THE UNDERGRADUATE COURSE PROJECT





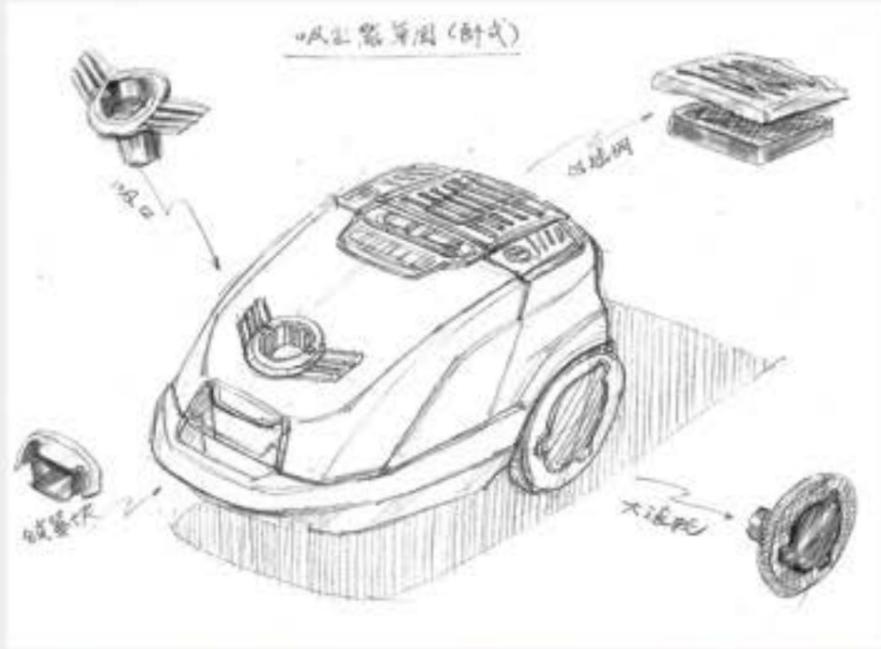
WORKSHOP PRACTICE

GRADUATION PROJECT



This is my graduation design, a coffee tableware, inspired by the sailing boat, including 4 cups, 1 sugar bowl, 1 milk cup and a coffee pot.

 WORK PRACTICE DESIGN



This is a vacuum cleaner which was designed during my internship with my team members.

**THANK
YOU!**

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