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Notes and discussion from initial meeting:

A says:

We are designing a smart household system. So the most important thing is to monitor pets. And another important thing for caring pet is feed pets regular. Umm.. We all know that pets are good friends with their owners, and the home system should improve communication between the pet and its owner, thus making them better. So I think it's a good idea to give pet snacks. Therefore, the third important thing is to give pets a snack and make the pet happy when the pet is alone at home.

B says:

I agree with your three points of view, but I think your three points are a bit general, and you can add more content to each item. When we use the screen to monitor pets, we can add some voice system or voice features. For example, when we want to feed pets (give them snacks), we prefer to let the pet do some movement first (let him kneel or shake his hand). So we need to talk to the pet. And, if the pet destroys the sofa or something else, we can also record some sounds in advance to warn the pet. We can also provide an interface for storing daily life videos of pets. Each owner treats their pet as their child, so recording a video is very important to parents.

A says:

Very good ideas. I have another idea. I know lots of cats are lazy and they grows so fast in the home. I know that many cats are lazy, and they will gain weight soon at home. After I conducted the research, I knew that cats might like red dots. They have been chasing the red dot. They only use this method to exercise, so I decided to set a function to emit red dot rays on the monitor page.

The critical areas:

1. monitor pets screen which has red spots rays features and throw snacks and the audio button
2. The video lists which each video records daily life of pets
3. Record some dangerous actions in advance. Waring the dog if the camera captures some dangerous action(like jump to desk or bit the laptop).

Example tasks that a user can perform your prototype

Study task 1:

You and your girl friend goes to work next week, And you can't feed them. So you need to find some way to feed the dog.

Study task 2:

You work every day and your dog has depression. You can't stay at home with the dog. You let your daughter to look after the dog that let the dog feel its owner to accompany him.

Study task 3:

Your cat is so lazy, has been sleeping for a long time, you spend time to use the red dot ray pen to exercise the cat.

Usability test:

Study task 1:

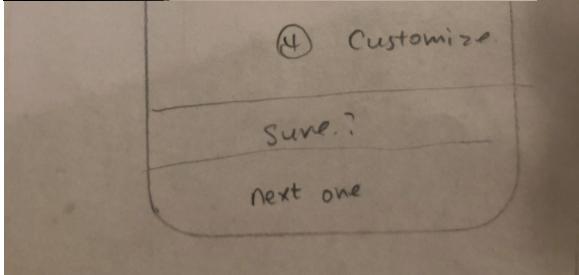
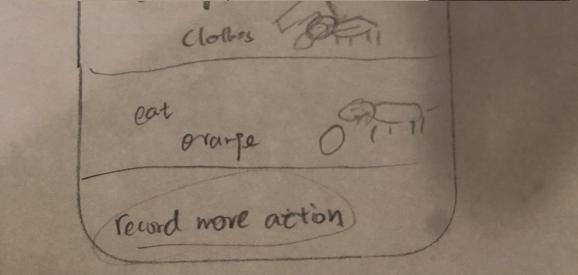
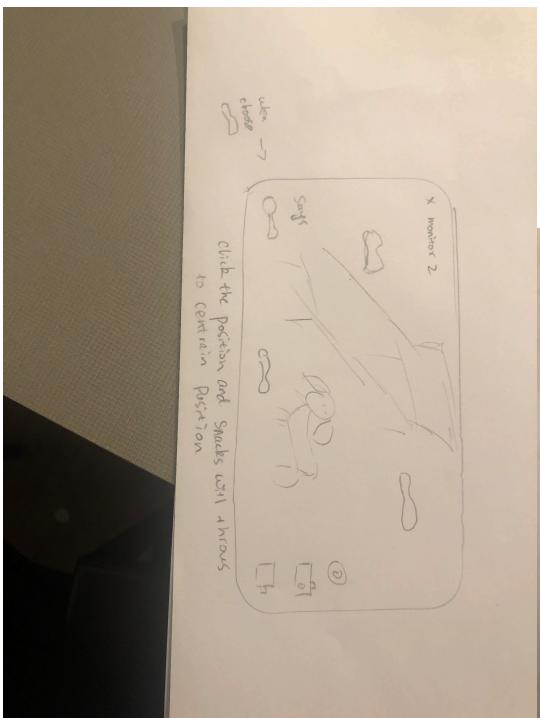
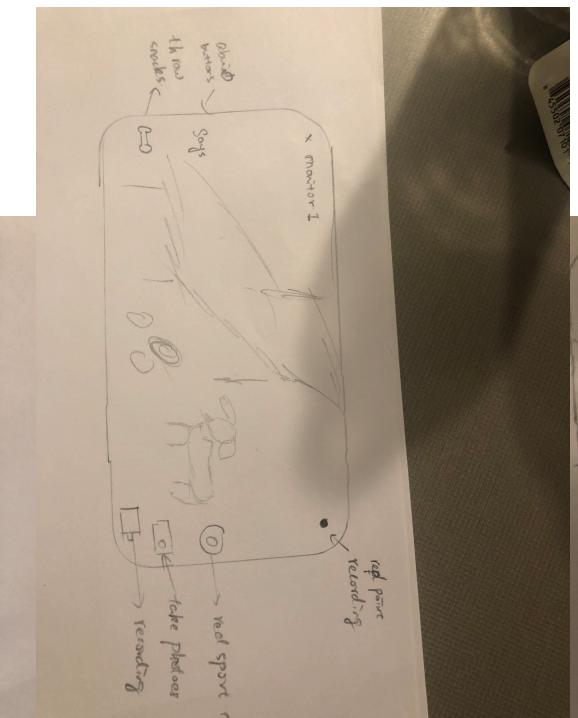
You and your girl friend goes to work next week, And you can't feed them. So you use smart household system to feed the dog.

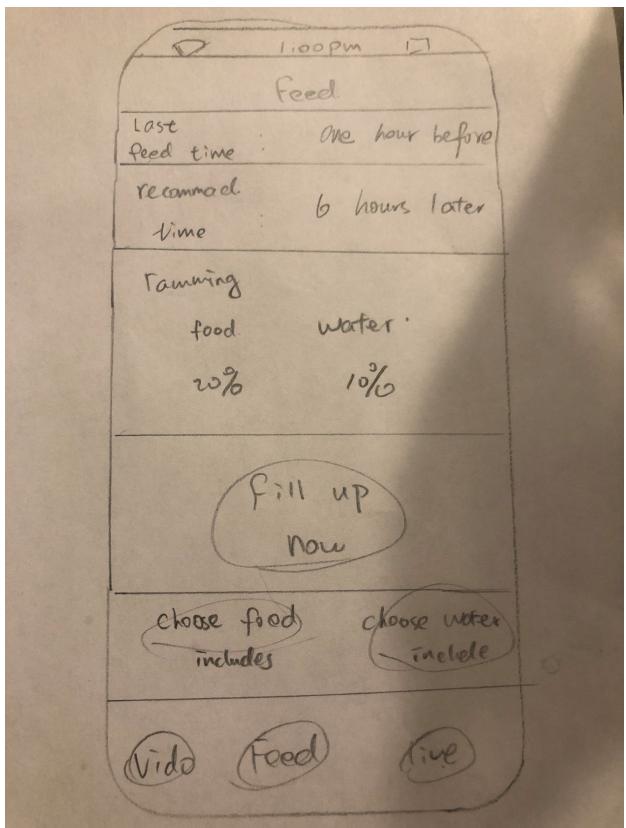
Study task 2:

You work every day, and your dog has depression. you can't stay at home to accompany with dog. You use the smart household voice system to talk with dog every two hours.

Study task 3:

Your cat is so lazy, has been sleeping for a long time, you can use the smart home system red spot to exercise the cat.





### Step 3:

For each of your design variants, you can either create multiple versions of your electronic prototype (Version A, B, C, etc.), or provide some mechanism in the prototype to try out these different variants.

For our group, we would like to provide some mechanism in the prototype to try out these

different variants. From my perspective, we will specialize in designing functional and aesthetically elegant.

First of all, functional is a very important portion of an application. I have automatically add food monitoring software function, it can according to the actual situation to judge whether to add pet food. In addition, this monitoring software can launch infrared, so that you can use pet curiosity prompted movement. In addition, we also have a historical record of the function is to check the video. Finally, some action according to pet, software can determine if we need to make some dangerous actions, such as destruction of furniture and other items. If pets have the moves, the software will play host to stop pet.

Second, in addition to the functions, the main problem is aesthetically elegant. For our group, we use a mobile phone software commonly used to typesetting and layout. For example,

the function bar on the bottom of the software and using a elegant pictures in the background.

All in all, we specialize in designing functional and aesthetically elegant.

Here is the link of inVision(same with figma)

<https://projects.invisionapp.com/prototype/cjodxwmor00l0va018412uykg/play>