

### **Week3**

After the introduction of DAT602, I learned about the module rough studying contents, aims, and the final project.

The theme of our module is that with the field of computing and digital technology has been growing stronger and stronger, our lifestyle has experienced pretty huge changes. Wireless network technology has reached a new stage with the development of the Internet of Things. Smart Home has already been in our life and getting closer and closer. Smart homes can provide us with services and improve the quality of life, from lighting to door locks, alarm clocks to coffee makers, smart homes can make people's lives more convenient.

Imagine it, in the early morning, the curtains in the bedroom open slowly, and the light music plays. You wake up. The air conditioning system in the room starts to automatically change the air, and the outdoor fresh air is sent to the room. When you get up and washing, the smart home has prepared your breakfast, the breakfast is rich and nutritious, and the breakfast made according to the user's preferences, it will never disappoint users. After breakfast, the music stops automatically, reminding you to be late for work.

In the evening, after working for a day and back home. The door lock automatically opens after recognizing the owner's face, you don't have to find the key in the dark and look for the light switch, and the light slowly lit. Then a warm voice rang in the ear: Master, welcome home. The air conditioner also turned on automatically and the room environment becomes very comfortable. The music you like is ringing in your ear.

My first idea about the Smart Home is making a smart washing machine and a dryer. This machine is like a bread machine. People can hang clothes on the hangers and puts them vertically in the machine. At the same time, the water will be sprayed out from the front and the back of the clothes. The force of the water will offset each other so that the clothes will not crease during the washing processing, and the dryer has the same theory as the washing machine. The front and back of the clothes blow at the same time, and the wind will also be mutually offset, the clothes will not crease either. After drying, the machine will pop the clothes out, just like the bread spit out the bread. Then you can hang up your clothes directly. And it can help people save time for

ironing. This machine also can be small and saves space when placed at home. But it was just my personal idea. I need to discuss with my group mates and make the final decision.

After our first meeting, we have a new idea for our product. Food is always an important thing in people's life that people must have. From breakfast to dinner even snacks, people have a close relationship with food. Humans get all the nutrition and energy they need every day through food ensuring their own health. A reasonable diet and adequate nutrition can improve life quality and prevent disease. But unreasonable diet and undernutrition can also be harmful to health. Overnutrition can lead to obesity, diabetes, and high blood pressure. Undernutrition can lead to malnutrition, anemia, vitamin deficiency, and reduced resistance.

Fridges exist in every family, and the main role of fridges on the market today is to preserve food. But the fridges actually have more functions. We can use the fridges to improve the user's eating habits and the quality of food. After we discussing, we plan to make a fridge. Smart fridge not only improve people's quality of life, but also it will be more convenient for users to handle, and also provide people with fresh food and a healthier eating habit. This is our original vision of our product.

## **Reference:**

Rrbecca,F.,Marco,P.,Angela,S.,Beth,K.(2017) *Categories and functionality of smart home technology for energy management*. [pdf] Available at: [https://ac-els-cdn-com.plymouth.idm.oclc.org/S0360132317303062/1-s2.0-S0360132317303062-main.pdf?\\_tid=3db6185a-6880-48ef-8681-008a8a297bbc&acdnat=1546957826\\_6c0b7bf180be42887102b97f9774257b](https://ac-els-cdn-com.plymouth.idm.oclc.org/S0360132317303062/1-s2.0-S0360132317303062-main.pdf?_tid=3db6185a-6880-48ef-8681-008a8a297bbc&acdnat=1546957826_6c0b7bf180be42887102b97f9774257b)

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