INF 551

Project Proposal

Tong Wu

8593993026

Jan 27th, 2019

Beauty and Best

This IoT project is called Beauty and Best which indicate to help users who need to manage their time while take care of their outfits and facial cares. Imaging a Monday morning and you need to read the paper while finish your makeups, but you only have 30 minutes. That is where Beauty and Best comes in. I am aiming to help people with multi-tasking especially during their morning rush hour. To achieve this goal, I would like to introduce three smart devices into my smart home theme system. They are Google home, Magic Mirror from Microsoft and a smart shoe rack.

In order to achieve our goal, I would like to use Google home to get users audio command as input and pass this command to Mirror or the shoe rack. Users could ask Google home to play news, videos when they wake up and watch them from the Magic Mirror which is also a projector. The Magic Mirror would show the data, temperature, video on part of the mirror which could let users enjoy that information while brushing their teeth or doing make up. Also, the Magic Mirror could send back data such as using time, streaming video categories, image of selfie, users outlook etc. Then, users could ask Google home to fetch shoes which fit best with their current outfit. Google home will get the outfit image after the Magic Mirror takes one, and it will use computer vision methods to identify those clothes and give the best match for the outfit. After that, Google home would send the command to the smart shoe rack which will fetch the best fit. The smart shoe rack will send back shoes usage data back to Google home such as the frequency of use for each pair of shoes since we would like to even the usage of each pair shoes which is the best for shoes.

For the control panel, I would like to put a big microphone symbol in the middle which is the Microphone which will be the main control panel. There are several bubbles which the paths to other panels are. The app will return suggestion pages and statistics for Magic Mirror usage and outfit suggestions.

I am going to do this with project by myself, therefore I will design the interface, analyze data and create an IOS App as the final result.

Timeline:

1.29----2.20 research, design

2.20 ----3.25 data gather

3.25 ---- 4.22 finish app, analysis

