Overview
The green house effect is a serious problem in this century, to soothing this problem, one of the effective ways is to install the smart home system. A smart home can adjust the home environment according to the home situation by controlling the home appliances. Therefore, smart home system can reduce the unnecessary power consumption. However, the smart home devices or systems available on the market lack unity such that it is hard for new users to choose a suitable smart home system. Thus, this project designs a unified, flexible and highly-secured system to encourage HK people to install the smart home system.

Objective
● Designing a unified system
● Building end point device
● Creating a single central process device
● Creating a website and an Android App with UI

Methodology
Design
The Design is basic on the Cluster Tree. All the members with the unique PAN ID will auto-connect in to the network, this method can guarantee the system flexibility and security.

System Block Diagram
The system is divided into 2 parts, intranet and internet. Here is showing the intranet block diagram.

Result
The smart home system is constructed by 3 parts, hardware, software and user interfaces. At the final stage of the project period, we successfully connect all parts together to form a system.