Project proposal

Smart home

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Introduction :

The system will control a smart home via one microcontroller and there will be a fan and lcd display to make it easy to use and keypad to give the instruct`ion to microcontroller and the component that the system will manage it is a fan and heater.

Software architecture :

Micro-Controller Abstraction Layer (MCAL) : Digital input/output

Hardware Abstraction Layer (HAL) :

1- Liquid Crystal Display (LCD)
2- Keypad
3- PWM
4- Electro Thermal LM35 (Sensors)