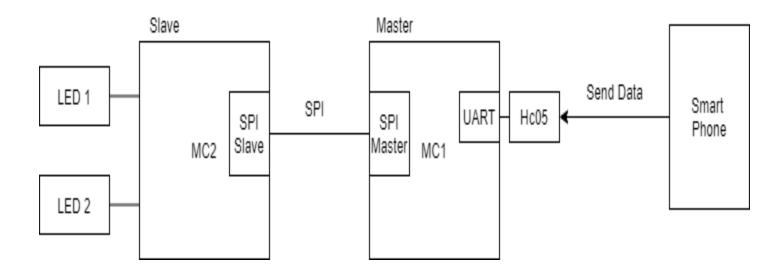
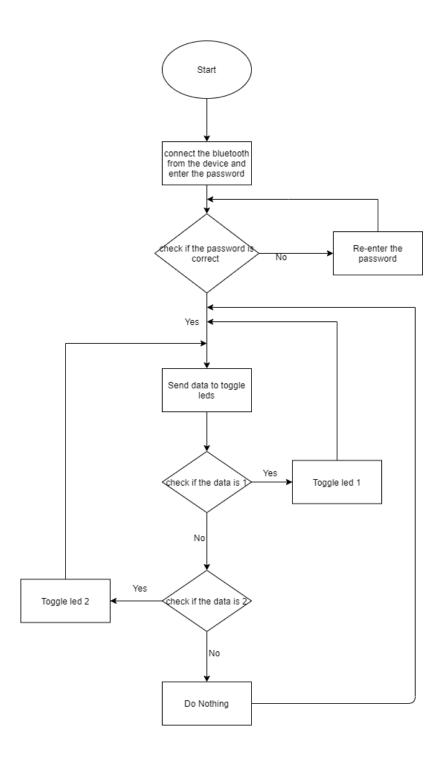
Smart Home Documentation

The Design:



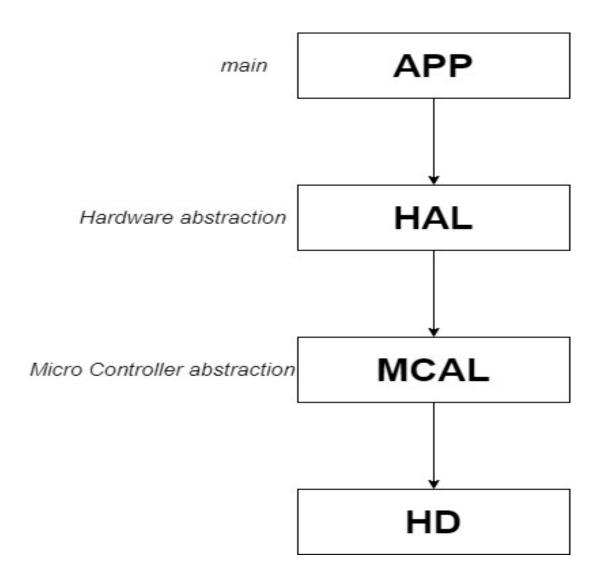
- First, the mobile phone send data to MC1 through the Hc05.
- Then MC1 send the received data to MC2 (which has the two LEDs) through the SPI.
- Then MC2 Toggle any of the LEDs according to the received data.

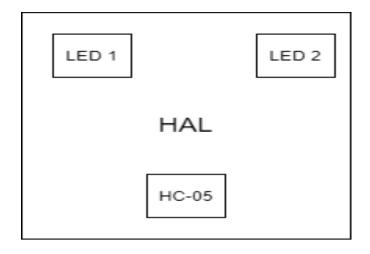
Flowchart for The Project:

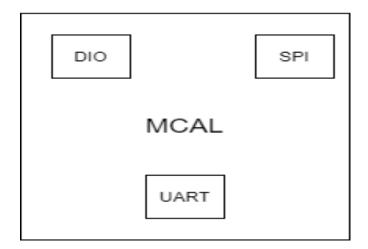


- 1) connect the mobile with Hc05 using Bluetooth Terminal HC-05.
- 2) enter the password if the password is wrong re-enter the password again.
- 3) Send the number of the LED to turn it OFF/ON.
- 4) If the sent data is 1, the LED 1 will be toggled.
- 5) If the sent data is 2, the LED 2 will be toggled.
- 6) If the sent data is neither 1 nor 2 then nothing will happen.

The Architecture:







- The LEDs and HC-05 are in the HAL.
- The DIO, SPI and UART are in the MCAL.