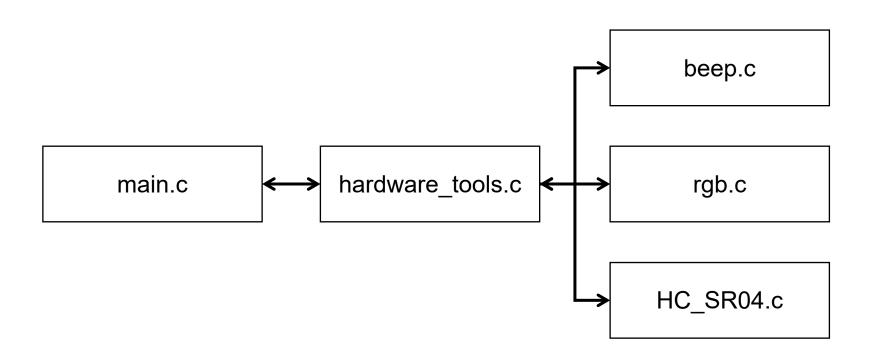


3 - STM32 SENSORS

System Design and Intelligent Manufacture 2019 Spring





main.c

```
while (1)
{
   //TO DO: get the distance between object and hc-sr04

   //TO DO: if object appears, declare a state of emergency, else delcare a state of normal. Tips: finish hardware_tools.c first.
   /*if()
   {}
   else
   {}*/
}
```



hardware_tools.c

```
void hardware init()
F {
   //TO DO: initial the beep, HC-SR04 module and RGB module
 void display (u8 mode)
∃ {
   switch (mode)
     case NORMAL STATE:
      //TO DO: set the color of rgb to RED.
      break:
     case EMERGENCY STATE:
      //TO DO: flash rgb and display the beep
      /*for(i=0;i<3;i++)
      11*/
       break;
     case ERROR STATE:
      //TO DO: try your best
       break;
```



rgb.c

beep.c

```
//flash when declare the emergency state
void RGB_flash()
]{
    //TO DO: flash the rgb led
}

//display when declare the emergency state
void BEEP_display(void)
]{
    //TO DO: display the beep
}
```

