



Android Development

# Android App 开发

-- Android apk iotapp 源码修改说明

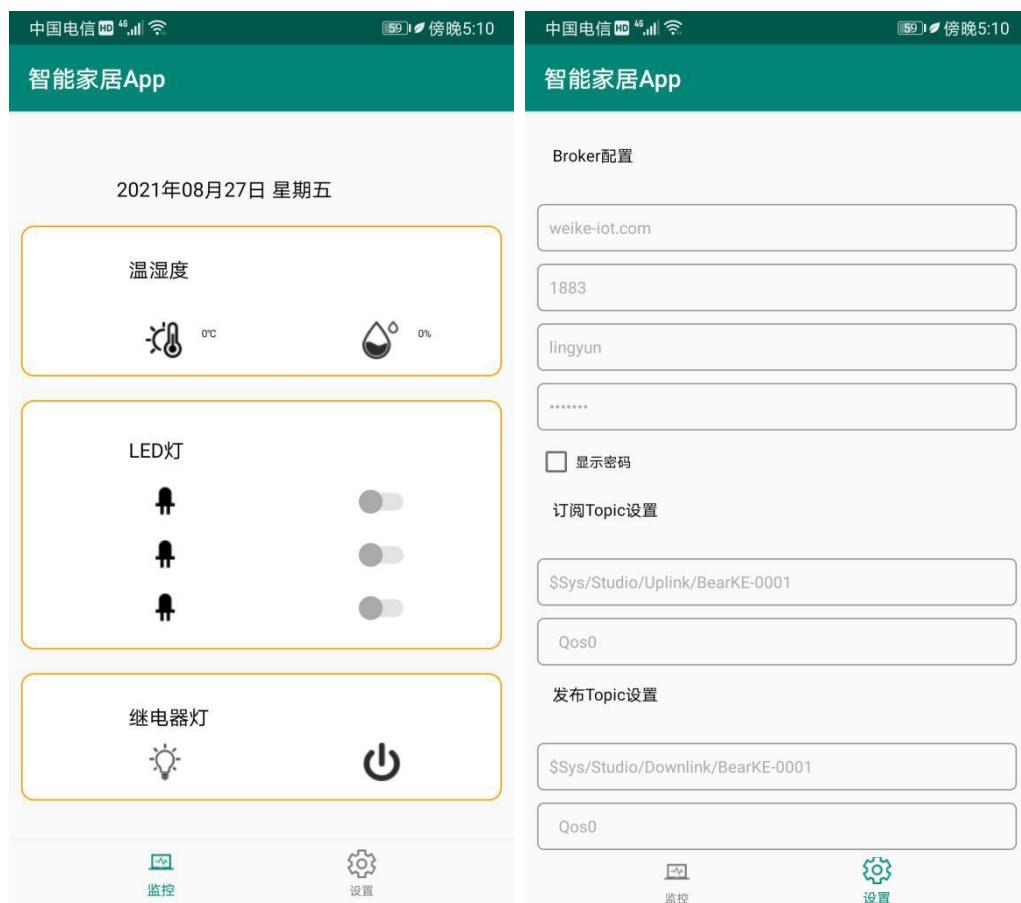
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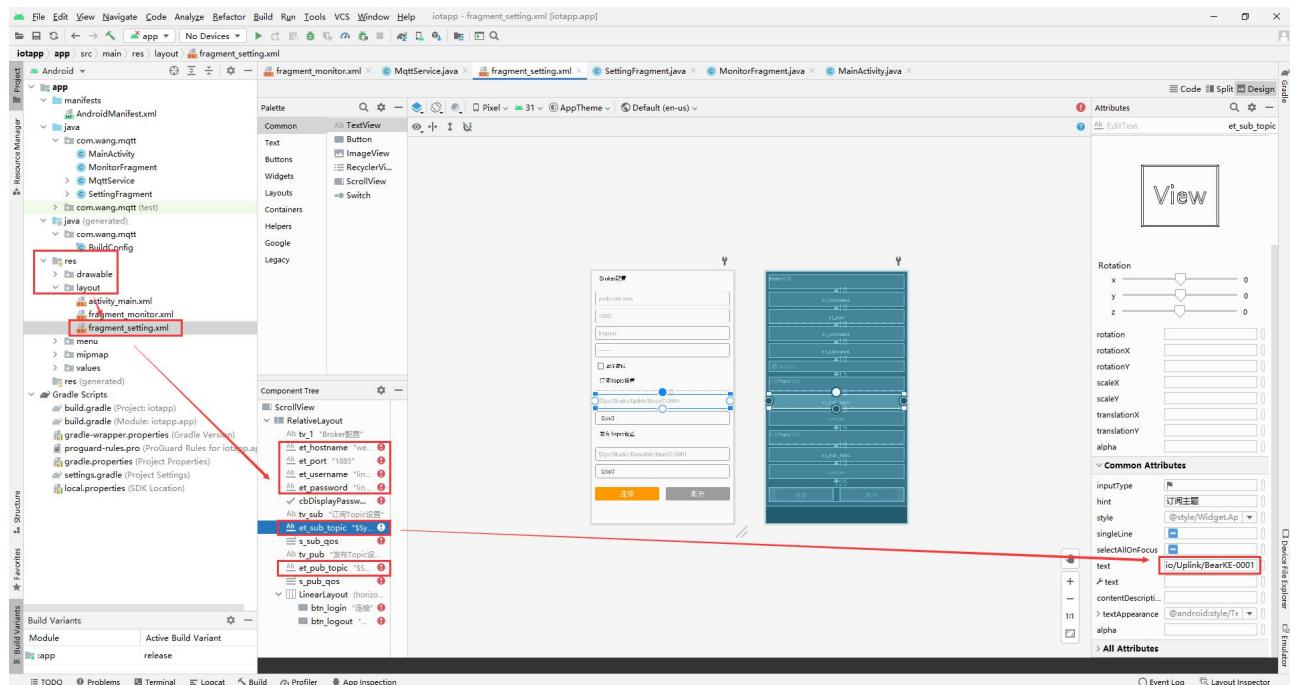
## 1. iotapp

### 1.1. iotapp 简介

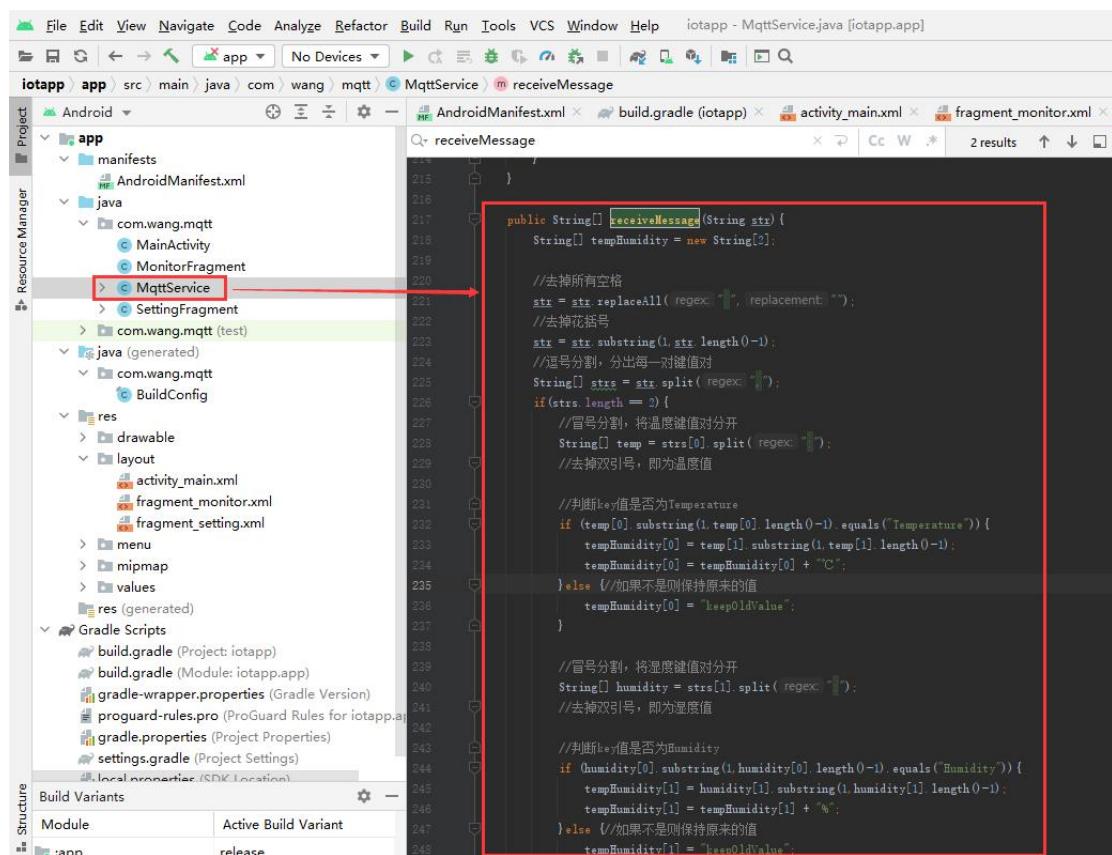
iotapp 是凌云实验室学员开发的一款 Android 手机物联网开发 App，该 App 采用标准物联网协议 MQTT，能够实时获取设备上报的温湿度、同时也能控制 Led 灯或继电器的亮灭。下面是该 App 的操作 UI。



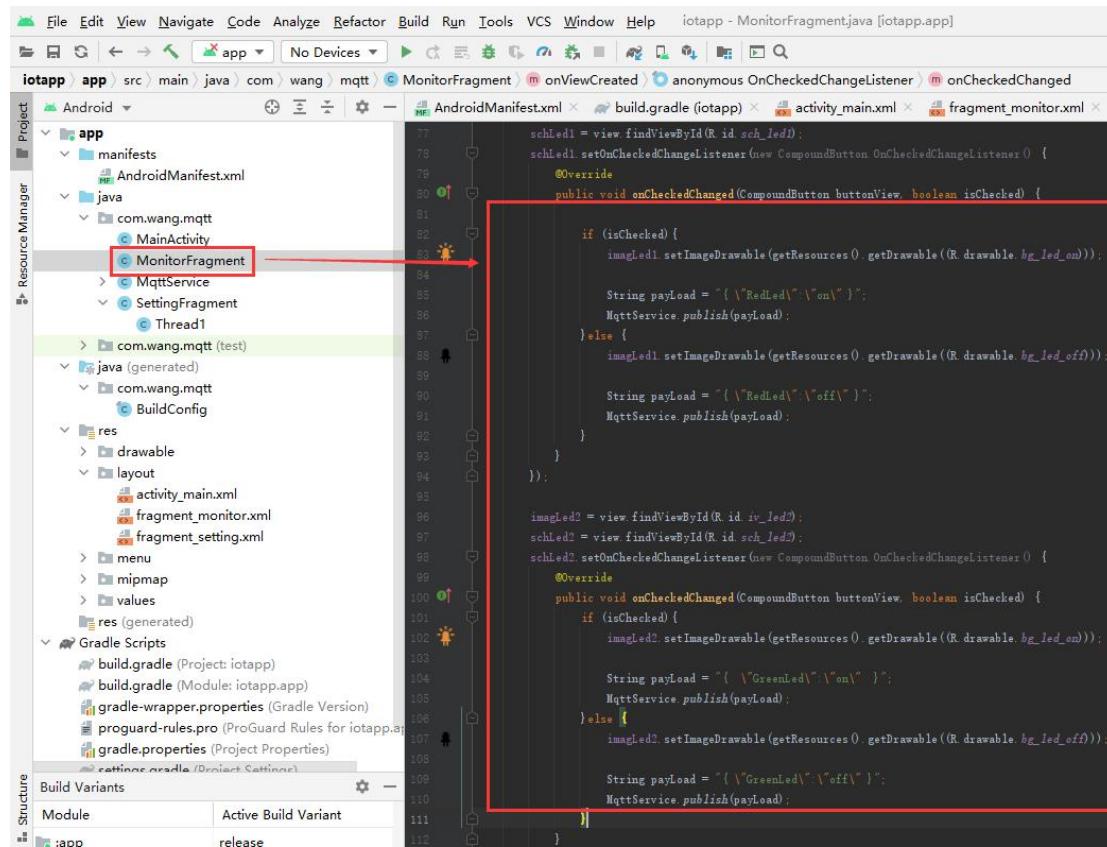
## 1.2. MQTT Broker 默认配置修改



## 1.3. 温湿度解析源码修改



## 1.4. Led 灯控制源码修改



```
    schLed1 = view.findViewById(R.id.sch_led);
    schLed1.setOnCheckedChangeListener(new CompoundButton.OnCheckedChangeListener() {
        @Override
        public void onCheckedChanged(CompoundButton buttonView, boolean isChecked) {
            if (isChecked) {
                imagLed1.setImageDrawable(getResources().getDrawable(R.drawable.bg_led_on));
                String payLoad = "{ \"RedLed\":\"on\" }";
                MqttService.publish(payLoad);
            } else {
                imagLed1.setImageDrawable(getResources().getDrawable(R.drawable.bg_led_off));
                String payLoad = "{ \"RedLed\":\"off\" }";
                MqttService.publish(payLoad);
            }
        }
    });

    imagLed2 = view.findViewById(R.id.iv_led);
    schLed2 = view.findViewById(R.id.sch_led);
    schLed2.setOnCheckedChangeListener(new CompoundButton.OnCheckedChangeListener() {
        @Override
        public void onCheckedChanged(CompoundButton buttonView, boolean isChecked) {
            if (isChecked) {
                imagLed2.setImageDrawable(getResources().getDrawable(R.drawable.bg_led_on));
                String payLoad = "{ \"GreenLed\":\"on\" }";
                MqttService.publish(payLoad);
            } else {
                imagLed2.setImageDrawable(getResources().getDrawable(R.drawable.bg_led_off));
                String payLoad = "{ \"GreenLed\":\"off\" }";
                MqttService.publish(payLoad);
            }
        }
    });
}
```

## 1.5. 编译并签名

