1 Permissions and API calls diagram

1. Calendar permissions

Reference open source software:

https://github.com/mapbox/mapbox-android-demo/tree/master/MapboxAndroidDemo

(1) Permissions and corresponding APIs

Permissions:

<uses-permission

android:name="android.permission.READ CALENDAR"></uses-permission>

API:

and roid. provider. Calendar Contract

(2) Call diagram



2. Phone Permissions

(1) Permissions and corresponding APIs

Permissions:

<uses-permission android:name="android.permission. READ PHONE STATE</pre>

"></uses-permission>

API:

A lot of open source software uses READ_PHONE_STATE permission, but its corresponding API is not found.

(2) Call diagram

3. Camera Permissions

Reference open source software:

https://github.com/masuvern/barinsta

(1) Permissions and corresponding APIs

Permissions:

<uses-permission android:name="android.permission.CAMERA" ></uses-permission>

API:

import androidx.camera.core.*

import androidx.camera.lifecycle.ProcessCameraProvider

(2) Call diagram



4. Get contact permissions

Reference open source software:

https://github.com/cyclestreets/android

(1) Permissions and corresponding APIs

Permissions:

 $<\!\!\!\text{uses-permission and roid:name="and roid.permission.READ_CONTACTS"}\ /\!\!\!>$

API:

import android.provider.ContactsContract;

(2) Call diagram



5. Recording Permissions

Reference open source software:

https://github.com/masuvern/barinsta

(1) Permissions and corresponding APIs

Permissions:

<uses-permission android:name="android.permission.RECORD_AUDIO" />

API:

import android.media.MediaRecorder

import android.provider.MediaStore import android.media.MediaExtractor import android.media.MediaFormat import android.media.MediaMetadataRetriever import android.media.MediaPlayer

(2) Call diagram



6. Bluetooth Permissions

Reference open source software:

https://pan.baidu.com/s/19K2QCr1HIbAg2OBaJDCbNQ

(1) Permissions and corresponding APIs

Permissions:

<!-- Managing Bluetooth needs -->

<uses-permission android:name="android.permission.BLUETOOTH" />

<uses-permission android:name="android.permission.BLUETOOTH_ADMIN" />

<!-- Searching for Bluetooth is required, as Bluetooth can be used for location, so location permission is needed -->

<uses-permission android:name="android.permission.ACCESS_COARSE_LOCATION"/>

<uses-permission android:name="android.permission.ACCESS_FINE_LOCATION"/>

API:

import android.bluetooth.BluetoothAdapter;

import android.bluetooth.BluetoothDevice;

import android.bluetooth.BluetoothSocket;

(2) Call diagram

7. Location permission

Reference open source software:

SilenceDut/KnowWeather: 一款美观、实用的天气 app。实践了模块化架构 和 Android Architecture Components (github.com)

(1) Permissions and corresponding APIs

Permissions:

<uses-permission android:name="android.permission.ACCESS_FINE_LOCATION"/>

API:

com.amap.api.location.AMapLocation;

com.amap.api.location.AMapLocationClient;

com.amap.api.location.AMapLocationClientOption;

com.amap.api.location.AMapLocationListener;

(2) Call diagram



8. Storage Permissions

Reference open source software:

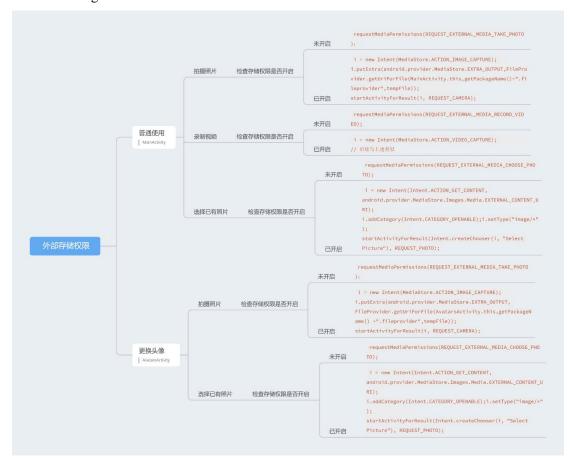
irccloud: https://github.com/irccloud/android
(1) Permissions and corresponding APIs

Permissions:

<uses-permission android:name="android.permission.READ_EXTERNAL_STORAGE"></uses-permission>
<uses-permission android:name="android.permission.WRITE_EXTERNAL_STORAGE"></uses-permission>
API:

android.provider.MediaStore

(2) Call diagram



2 Market app permission panel implementation method

1. The panel that pops up before applying

https://www.cnblogs.com/whycxb/p/9742385.html

https://blog.csdn.net/HHHceo/article/details/119767074

This can be achieved by dialog, adding the corresponding image resources in the res folder and setting the popup layout in detail in xml. After that, use the button click event settings to trigger this popup on the first click.

2. The panel that pops up at the top of the application

This can be achieved by DialogFragment, which sets Android's own popup window to be nested with the popup window above it. When the Android pop-up window pops up, it triggers the pop-up window above. The upper popup listens to the click event of the Android self popup button. When the click event is performed on the Android self popup button, the Android self popup disappears and also triggers the upper popup to disappear.