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Scanning development notes

version	Changed	date	change content
V1.0	ct	2018-11-21	
V1.1	ct	2019-5-22	Android Configuration

table of Contents

Document Overview

Scan module interface description

For people

software developer

Software testers

Documentation purposes

Provide a reference for software developers

Development environment and tools

Development Platform: win7 Ultimate 64

development tools: Android studio 3.1

Compiler Environment: ndkr16B java 1.8

The overall design

Interface functions

1.0 isScanOpened ()

Function Interface	public boolean isScanOpened ()
Function Description	Scanning is open
Parameter Description	no
return value	boolean

1.1 openScan ()

Function Interface	public boolean openScan ()
Function Description	Open Scan
Parameter Description	no
return value	boolean

1.2 closeScan ()

Function Interface	public boolean closeScan ()
Function Description	Close scan
Parameter Description	no
return value	boolean

1.3 startScan ()

Function Interface	public boolean startScan ()
Function Description	Start Scan

Parameter Description	no
return value	boolean

1.4 stopScan ()

Function Interface	public boolean stopScan ()
Function Description	Stop scanning
Parameter Description	no
return value	boolean

1.5 setScanLaserMode ()

Function Interface	public void setScanLaserMode (int mode)
Function Description	Continuous scan on or off
Parameter Description	mode: 4 Open continuous scan mode: 8 Close continuous scan
return value	no

1.6 setOutScanMode ()

Function Interface	public boolean setOutScanMode (int mode)
Function Description	Set the scan mode
Parameter Description	mode: 0 Broadcast mode mode: 1 Edit box mode mode: 2 Keyboard mode
return value	no

1.7 getScanLaserMode ()

Function Interface	public void setScanLaserMode (int mode)

Function Description	Get the current state of continuous scanning
Parameter Description	mode: 4 Open continuous scan mode: 8 Close continuous scan
return value	Int

1. 8 getOutScanMode ()

Function Interface	public int getOutScanMode ()
Function Description	Get the current scan mode
Parameter Description	mode: 0 Broadcast mode mode: 1 Edit box mode mode: 2 Keyboard mode
return value	Int

1.9 resetScan ()

Function Interface	public boolean resetScan ()
Function Description	Reset scan
Parameter Description	no
return value	boolean

2.0 getScanCodeValue ()

Function Interface	public String getScanCodeValue ()
Function Description	Obtaining scan data
Parameter Description	no
return value	String

2.0.1 setScanUnBeep ()

Function Interface	public boolean setScanUnBeep ()
Function Description	Setting Sound off
Parameter Description	no
return value	boolean

2.0.2 setScanBeep ()

Function Interface	public boolean setScanBeep ()
Function Description	Open the sound settings
Parameter Description	no
return value	boolean

2.0.3 getScanBeepState ()

Function Interface	public boolean getScanBeepState ()
Function Description	Gets the current state of sound (true and false)
Parameter Description	no
return value	boolean

2.0.4 setScanVibrate ()

Function Interface	public boolean setScanVibrate ()
Function Description	Open shock
Parameter Description	no
return value	boolean

2.0.5 setScanUnVibrate ()

Function Interface	public boolean setScanUnVibrate ()
Function Description	Off vibration
Parameter Description	no
return value	boolean

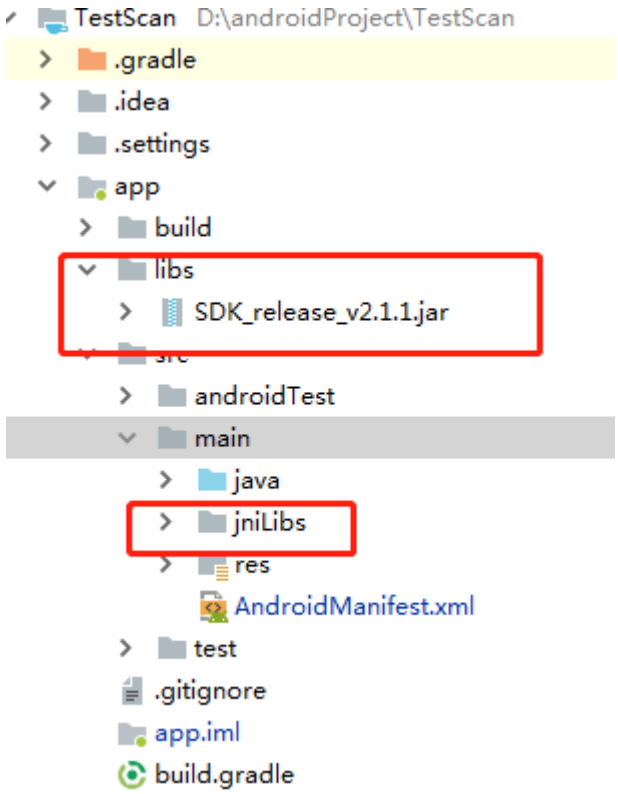
2.0.6 getScanVibrateState ()

Function Interface	public boolean getScanVibrateState ()
Function Description	Get the current state of shock (true and false)
Parameter Description	no
return value	boolean

2.2 Android Development and deployment

2.2.1. Will be provided sdk Copy to the project libs under

2.2 .2 Will be provided jniLibs Copy to android project src / main The next, you can recompile



2.2.3 If the jniLibs BANK import libs Next, can not be found os Then please

project App Under the build.gradle Add file

```
android {
    sourceSets {
        main {
            jniLibs.srcDirs = [ ' libs' ]
        }}}
```

Introduction 2.2.4 Tools

The class name	Types of
com.example.testscan.util.SoundPoolUtils	Sound Scan

Raw audio files in the demo

2.2.5 Using the Operation

// Instantiation

```
ScanDevice sd = new ScanDevice ();
sm . setOutScanMode ( 0 ); // Mode - Values: 0 broadcast mode, an edit box mode, keyboard mode 2
```

// broadcast mode under registration required **scan.rcv.message broadcast**

```
IntentFilter filter = new IntentFilter (); filter.addAction ( SCAN_ACTION
);
registerReceiver ( mScanReceiver , filter);
```

Broadcast Example:

```
private BroadcastReceiver mScanReceiver = new BroadcastReceiver () {
        @Override
        public void onReceive (Context context, Intent intent) {
                byte [] broadCode = intent.getByteArrayExtra ( " barocode " );
                int broadCodeLen = intent.getIntExtra ( " length " , 0 );
                byte temp = intent.getByteExtra ( " barcodeType " , ( byte ) 0 );
                byte [] aimid = intent.getByteArrayExtra ( " aimid " );
                // broadCodeStr = new String (broadCode, 0, broadCodeLen);
                broadCodeStr = new String (broadCode);
                if ( broadCodeStr ! = ' " && broadCode! = null ) {
                        SoundPoolUtils. play ( 2 ); StringBuilder sb = new StringBuilder
                        (); sb.append ( broadCodeStr );

                        try {
                                String utf8 = new String (
                                        sb.toString (). getBytes ( " UTF-8 " ));
                                String utf16 = new String (
                                        sb.toString (). getBytes (), " UTF-16 " );
                                String gbk = new String (
                                        sb.toString (). getBytes ( " GBK " ));
                                showScanResult . append (utf8);} catch ( UnsupportedEncodingException
                        e) {
                                e.printStackTrace ();
                        }
                        showScanResult . append ( " \ n " );
                        showScanResult . setTextColor (Color. argb ( 255 ,
                                        random . nextInt ( 256 ),
                                        random . nextInt ( 256 ),
                                        random . nextInt ( 256 )));
                } else {
                        SoundPoolUtils. play ( 2 );
                }
                sm . stopScan ();
```

```
}};
```

Broadcast reception parameters

```
byte [] broadCode = intent.getByteArrayExtra ( " barocode " ); // Barcode data
int broadCodeLen = intent.getIntExtra ( " length " , 0 ); // Data length
byte temp = intent.getByteExtra ( " barcodeType " , ( byte ) 0 ); // Types of
byte [] aimid = intent.getByteArrayExtra ( " aimid " ); // id
```