PDA3505 JAVA api

Jar package mainly for 2 functions,they are printing function and barcode scanning function.

1. Printing function

1.1Text printing,mainly use the interface of printerClass.printText(str);

Before using printerClass,should set the variate first,For example:

Public static PrinterClassSerialPort   printerClass=null;

Then Instantiate and open the serial port on onCreate() or onResume()

printerClass=new PrinterClassSerialPort(new HanIder());
printerClass.open();

After instantiation,can call the printing interface,When printing the character string:

printerClass.printText(str);

When printing pictures,Need to turn the pictures into bitmap,then call the picture printing interface.

printerClass.printImage(bitmap);

When printing the barcode and QR code,need to turn the content of barcode or QR code into bitmap ,then call the pictures printing interface,For example:

/**
 * is for generating the given content to 1D barcode .

```
        *
        "* @param content" is the content which will be generated to 1D barcode
        "* @return " return to the gererated 1D barcode" bitmap"
        "* @throws WriterException WriterException"abnormal
        */
    public Bitmap CreateOneDCode(String content) throws WriterException {
        // generate to 1D barcode,specified size when coding,don't zoom after generated the
picture,if so ,it will fuzzy and lead to fail.
        BitMatrix matrix = new MultiFormatWriter().encode(content,
                BarcodeFormat.CODE_128, 500, 200);
        int width = matrix.getWidth();
        int height = matrix.getHeight();
        int[] pixels = new int[width * height];
        for (int y = 0; y < height; y++) {
            for (int x = 0; x < width; x++) {
                if (matrix.get(x, y)) {
                    pixels[y * width + x] = 0xff000000;
                }
            }
        }

        Bitmap bitmap = Bitmap.createBitmap(width, height,
                Bitmap.Config.ARGB_8888);
        // Generated bitmap through Pixel group ,Details,Plz refer api
        bitmap.setPixels(pixels, 0, width, 0, 0, width, height);
        return bitmap;
    }
/**
  * Generate to 2D code using character string.
  *
  * @param str
  * @return bitmap
  * @throws WriterException
  */
public Bitmap Create2DCode(String str) throws WriterException {
// generate to 2D Matrix,specified size when coding,don't zoom after generated the picture,if
so ,it will fuzzy and lead to fail.
    BitMatrix matrix = new MultiFormatWriter().encode(str,
        BarcodeFormat.QR_CODE, 300, 300);
    int width = matrix.getWidth();
    int height = matrix.getHeight();
// When the 2D matrix turn into 1D pixel group,it is also arrange sidewards always.
    int[] pixels = new int[width * height];
```

```
                for (int y = 0; y < height; y++) {
                    for (int x = 0; x < width; x++) {
                        if (matrix.get(x, y)) {
                            pixels[y * width + x] = 0xff000000;
                        }
                    }
                }
                Bitmap bitmap = Bitmap.createBitmap(width, height,
                        Bitmap.Config.ARGB_8888);
                // Generated bitmap through Pixel group ,Details,Plz refer api
                bitmap.setPixels(pixels, 0, width, 0, 0, width, height);
                return bitmap;
            }
```

2. Barcode scanning function

For this function,it will supported by the barcode engine on the devices,If installed the barcode scan engine,you can use open it and scan Scan method:

```
CaptureService.scanGpio.openScan();
```

Open the scan engine,need to use the broadcast to receive the data which from the scan engine after scanning

Text is the data from the scanning

```
class ScanBroadcastReceiver extends BroadcastReceiver {
@Override
public void onReceive(Context context, Intent intent) {
        // TODO Auto-generated method stub
    String text = intent.getExtras().getString("code");
    Log.i("TAG", "MyBroadcastReceiver code:" + text);
    editText1.setText(text);
    }
}
```

Set the variable first

```
private ScanBroadcastReceiver scanBroadcastReceiver;
```

Then register

```
scanBroadcastReceiver = new ScanBroadcastReceiver();
```

```
IntentFilter intentFilter = new IntentFilter();
intentFilter.addAction("com.zkc.scancode");
this.registerReceiver(scanBroadcastReceiver,
intentFilter);
```

When need to close the barcode scanning engine,can call the close

method as below:

```
CaptureService.scanGpio.closeScan();
```

Then register after using

```
unregisterReceiver(scanBroadcastReceiver);
```