

Winmate® Software Application Note

Project: E430T-BR

**HTML java script sample code for
Barcode Application.**

Revision: 1.1
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Revision History

Revision	Author	Date	Description
1.0	Vincent	2012/08/15	1. Initial draft
1.1	Vincent	2012/08/15	1. add wHandler definition
1.2	Vincent	2012/08/17	1. Add java script function declare.

1. Spec. Description

1.1 Introduction

This document is used for a developer who want to develop his web client's app and want to trigger the barcode scanning in the java script.

For barcode trigger, it's quite easy in the app. Broadcast an intent to indicate the barcode UART interface will trigger the barcode reader like human presses the Fn button.

Anyway, we give an example of java script and activity's interface to show how to communicate between java script and activity and send the broadcast out.

1.2 Activity Design

First your app must import the webkit and use this component to your layout.

```
import android.webkit.WebChromeClient;
import android.webkit.WebSettings;
import android.webkit.WebView;
import android.webkit.WebStorage.QuotaUpdater;
import android.webkit.WebViewClient;
import android.widget.Toast;

private static WebView MainWebView;
private static final String JSInterface = "android_js";
private static Handler wHandler = new Handler();

@Override
public void onCreate(Bundle savedInstanceState)
{
    MainWebView = (WebView) findViewById(R.id.MainWebView);
    MainWebView.requestFocus(View.FOCUS_DOWN);
    MainWebView.addJavascriptInterface(new runCallJavaScript(), JSInterface);
    MainWebView.loadUrl(WebPageUrl+"?lang="+getLangCode(getLocale()));
    // the local or remote html URL
    MainWebView.setWebChromeClient(new WebChromeClient());
    ....
}
```

```

final class runCallJavaScript {      // java script interface

    public void BarcodeReaderTrigger( ) {
        wHandler.post(new Runnable( ) {
            // @Override
            public void run() {
                try {

                    Intent intent = new Intent("android.intent.action.BARCODE_NOTIFY");
                    Bundle bundle = new Bundle();
                    bundle.putString("COMPORT","/dev/ttyO0");
                    //it means the barcode reader connect toUART ttyO0
                    intent.putExtras(bundle);
                    sendBroadcast(intent);
                } //try
                catch (Exception e) {
                    Toast.makeText(getApplicationContext(), e.getMessage(),
                        Toast.LENGTH_LONG).show();
                    Log.e(e.getClass().getName(), e.getMessage(), e);
                } //catch
            } //run
        }); //post
    } // BarcodeReaderTrigger
} // runCallJavaScript

```

1.3 HTML Design

This HTML file could be access by the `MainWebView.loadUrl()` ,
 Base on the java script interface function “BarcodeReaderTrigger()” we designed in the activity,
 developer could use the statement to call the java script which is combined to activity’s java interface.

```



```

```

function BarcodeReaderTrigger ( ) {
    window.android_js. BarcodeReaderTrigger ();
}

```

