



NEB FOR NLS-NQuire300

Customer Information Terminal



NewLand Enterprise Browser For NQuire-300

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1. What is NEB
2. What can NEB do
3. How to use NEB
 - 3.1. Download & Import NEB code from GitHub
 - 3.2. Copy the `www` folder to the server
 - 3.3. Modify Config.xml
 - 3.4. Start NEB Application
 - 3.5. NEB UI introduction
 - 3.5.1. Main Page
 - 3.5.2. Scan Setting
4. API
 - 4.1. API Introduction
 - `nlscan.plugins.barcodescanner.scan`
 - `nlscan.plugins.barcodescanner.scanSetting`
 - `nlscan.plugins.barcodescanner.show`
 - 4.2. File References
5. NEBConfig
 - 5.1. Download & Import NEB code from GitHub
 - 5.2. Start NEBConfig Application
6. Version Info

1. What is NEB

NEB is an acronym for NewLand Enterprise Browser.

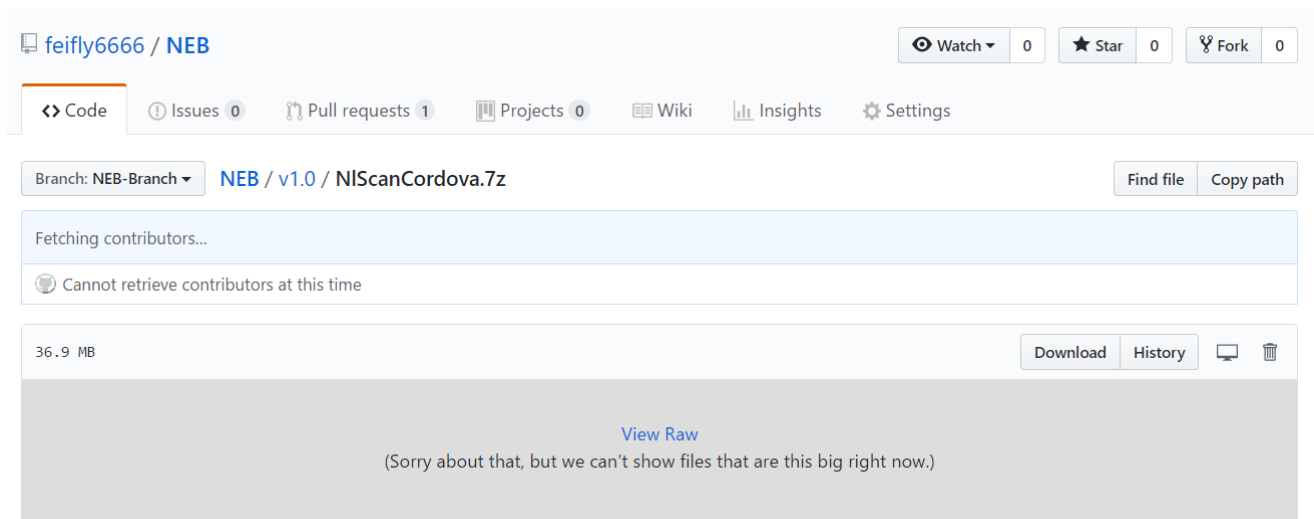
You can install NEB on NQuire300, run it like an Android application, and use it instead of the original CIT application. NEB is based on the open source framework Cordova, so you can find what you need information on the [Cordova website](#).

2. What can NEB do

- Boot automatically activated.
- Full screen display.
- Load the specified html file on server.
- Support standard web technologies - HTML5, CSS3, and JavaScript
- Scan Barcode
- Read NFC Tag

3. How to use NEB

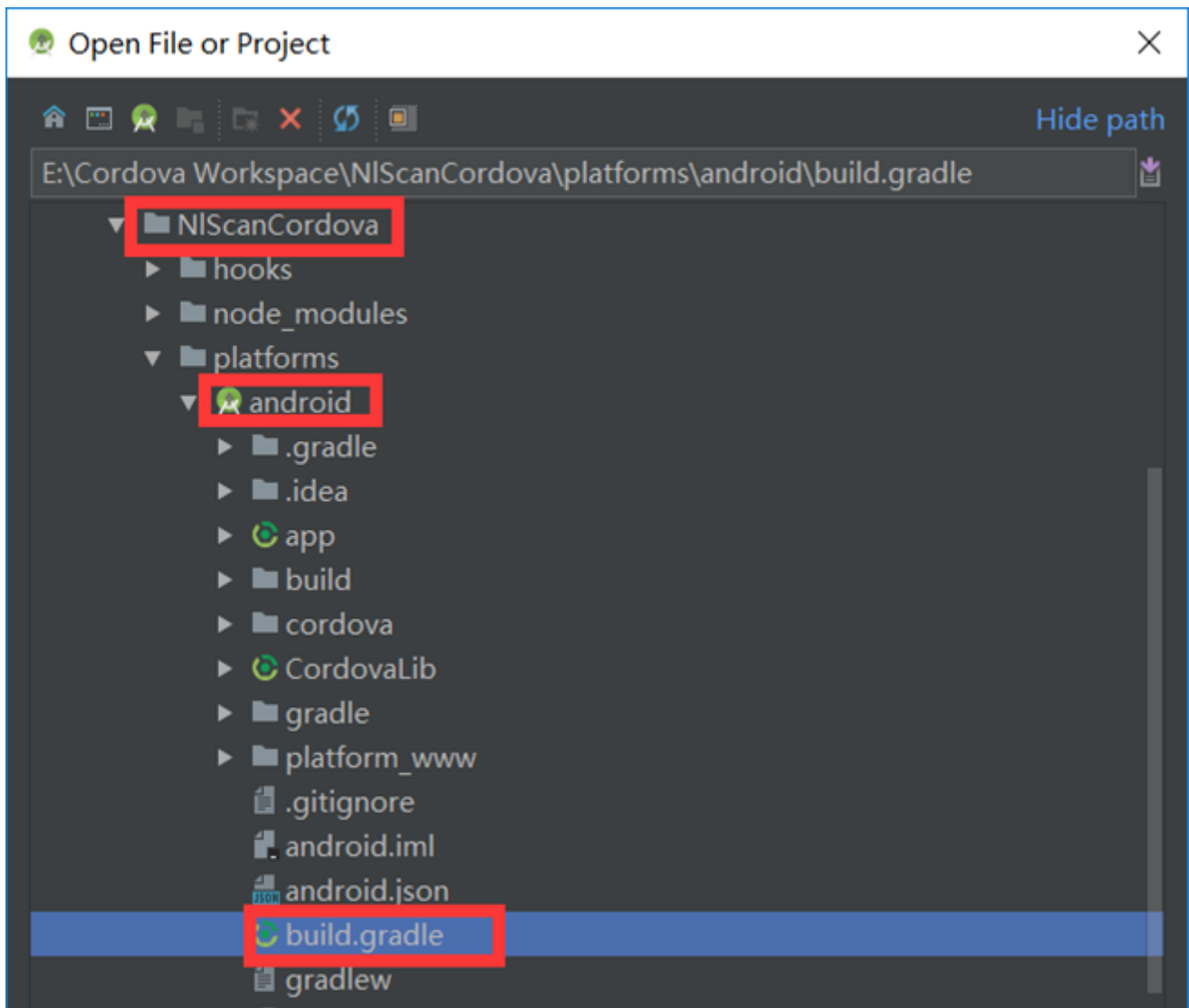
3.1. Download & Import NEB code from GitHub



Unzip the [NIScanCordova.7z](#) and import code into Android Studio.

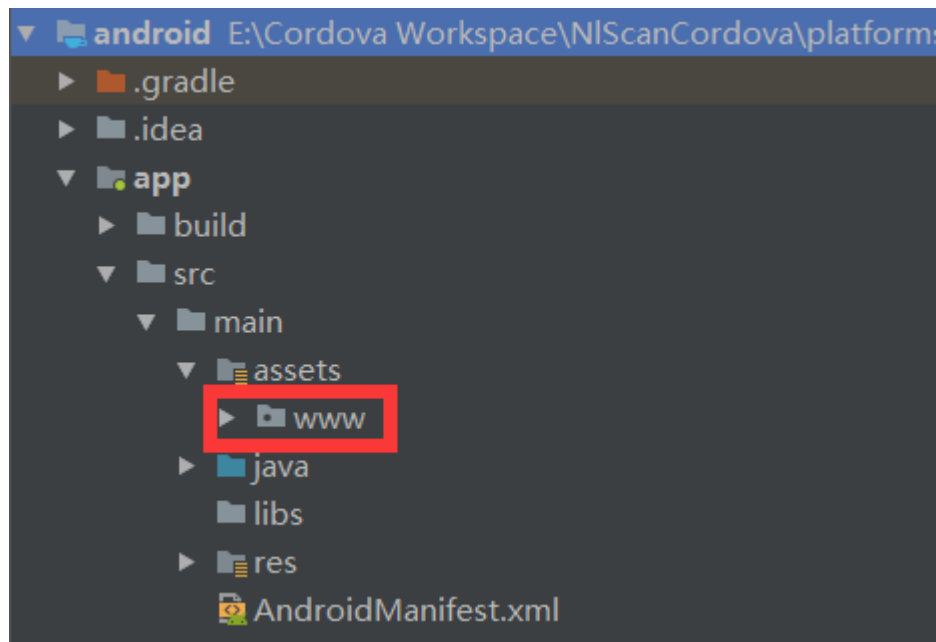
※ When you unzip the file you will need a password that provided by NewLand FAE.

Please select `NIScanCordova \ platforms \ android \ build.gradle` file to import the project.



3.2. Copy the `www` folder to the server

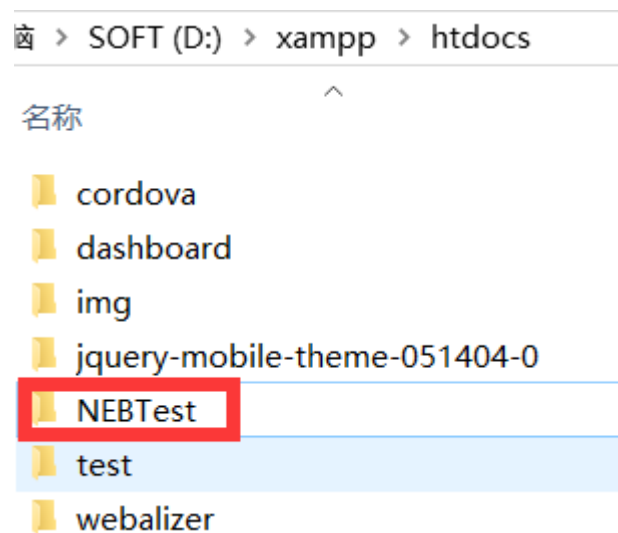
After imported `N1ScanCordova` into Android Studio, you can see a `www` folder under the path `N1ScanCordova \ platforms \ android \ app \ src \ main \ assets`



Copy the `www` folder to server.

Examples:

Copy the `www` folder to xampp (apache) server's htdocs directory and renamed it to NEBTest.



3.3.Modify Config.xml

Config.xml is a global configuration file that controls many aspects of a cordova application's behavior. You can find more details in [cordova's homepage](#).

Open the `NlScanCordova \ platforms \ android \ app \ src \ main \ res \ xml \ config.xml` file in Android Studio.

Before running NEB, you need to modify the `<content>` tag to set the URL to your own web page or local page in NQuire300.The default setting is a local URL.

Examples:

Web URL:

```
<content src="http://192.168.27.152:80/NEBTest/index.html" />
```

Local URL(Default):

```
<content src="file:///android_asset/www/index.html" />
```

Modify the `<preference>` tag to specify the error page's URL and local page's URL if you need.

`errorUrl` specifies the prompt page when the network is abnormal and the server is not connected.

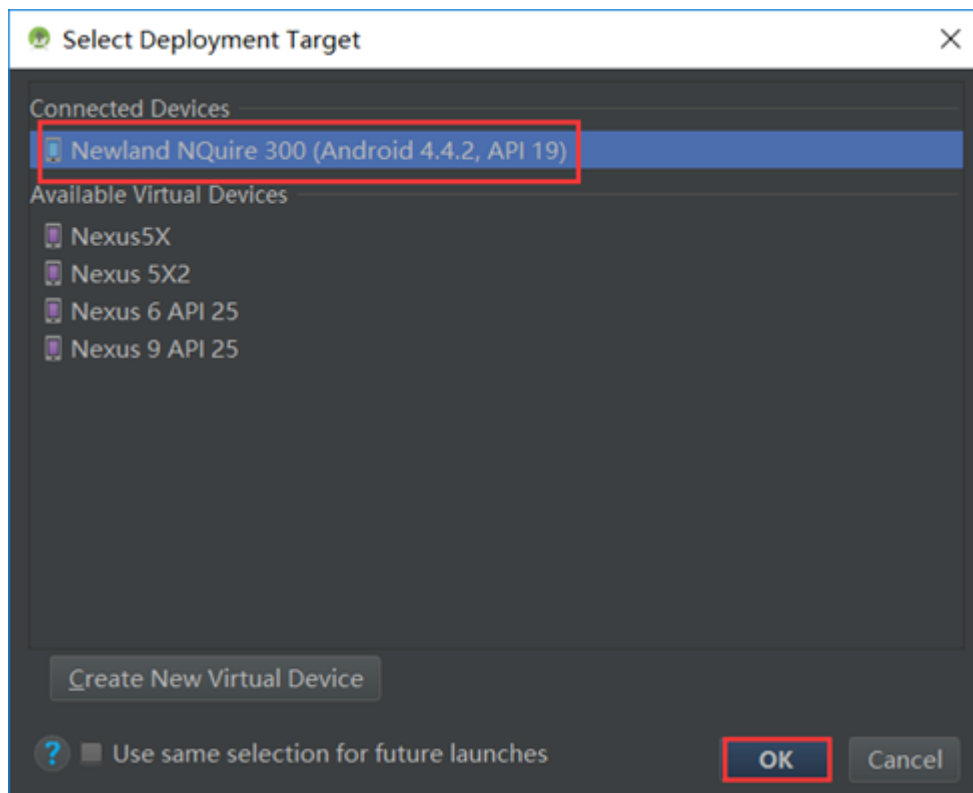
`localUrl` specifies URL that the current network is normal, but you do not want to connect to the server and want to visit the local page of NQuire300.

Examples:

```
<preference name="errorUrl" value="file:///android_asset/www/errorPage.html" />
<preference name="localUrl" value="file:///android_asset/www/index.html" />
```

3.4.Start NEB Application

Connect NQuire300 and computer via the USB cable and start NEB by Android Studio.



3.5.NEB UI introduction

3.5.1.Main Page

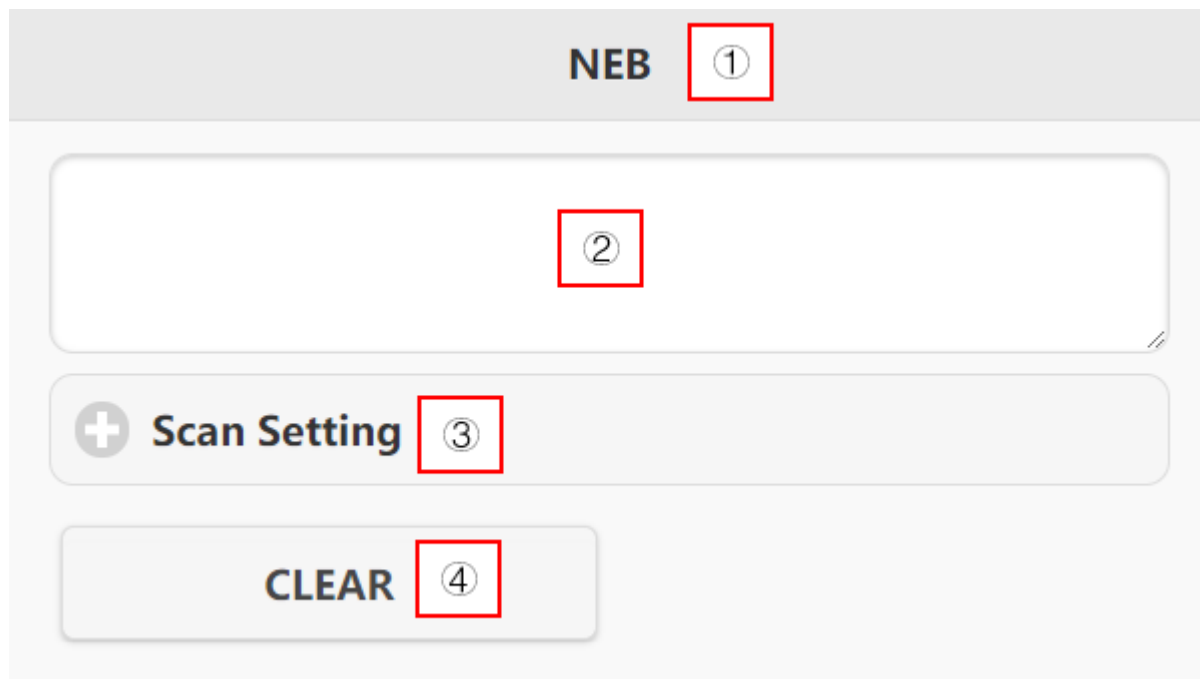
You can see the main page as shown below.

①Title Bar: Can be modified to what you like or any welcome message.

②Output Area: Output reading results.

③Scan Setting: Can be expand and change the setting of scan.Detail see 3.5.2.

④Clear Button: Clear the output area.



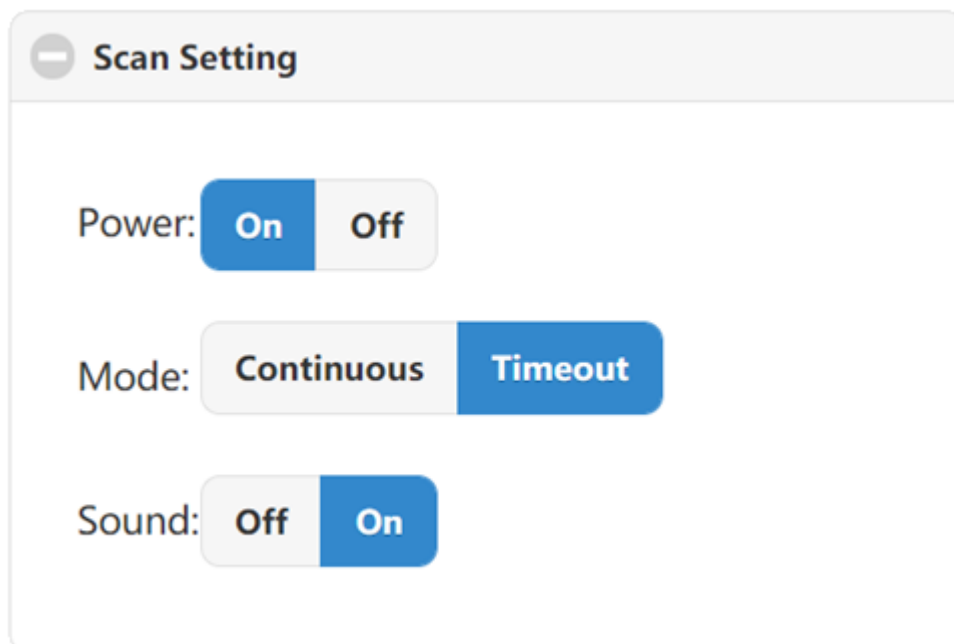
3.5.2.Scan Setting

You can see the scan setting area as shown below.

Power: Enable or disable the scan function.

Mode: The scan mode can be selected as continuous or timeout mode.

Sound: Turn good read beep on or off.



4.API

4.1.API Introduction

You can use the JS API provided by NEB to get the read results of barcode or NFC Tag.

The JS API is provided by the BarcodeScanner.js file.

Methods:

- `nlscan.plugins.barcodeScanner.scan` : Start to scan.
- `nlscan.plugins.barcodeScanner.scanSetting` :Change the scan settings.
- `nlscan.plugins.barcodeScanner.show` : Return the scan result.

`nlscan.plugins.barcodeScanner.scan`

Start to scan a barcode.

Method:

```
nlscan.plugins.barcodeScanner.scan();
```

Parameters

null

Example:

```
var btnScan=document.getElementById("btnScan");
btnScan.onclick=function(){
    nlscan.plugins.barcodeScanner.scan();
}
```

`nlscan.plugins.barcodeScanner.scanSetting`

To change the scan settings

Method:

```
nlscan.plugins.barcodeScanner.scanSetting([settingName,settingValue])
```

Parameters

- **settingName**:The name of setting which available value is `EXTRA_SCAN_POWER` , `EXTRA_TRIG_MODE` or `EXTRA_SCAN_NOTY_SND` .
- **settingValue**:The value to set.

Specific settings can refer to the following table.

SettingName	SettingValue	Note
EXTRA_SCAN_POWER	0	Disable scanning
	1	Enable scanning
EXTRA_TRIG_MODE	0	Normal trigger
	1	Continuous trigger
	2	Timeout trigger
EXTRA_SCAN_NOTY_SND	0	Turn off the voice prompts
	1	Turn on the voice prompts

Example:

```
var btnScanSetting=document.getElementById("btnScanSetting");
btnScanSetting.onclick=function(){
    nlscan.plugins.barcodescanner.scanSetting(["EXTRA_SCAN_POWER",0]);
}
```

nlscan.plugins.barcodescanner.show

This API is also called by JAVA code and return the read result to Javascript.In Javascript code you can get the read result and display or transfer it to the server.

Method:

```
nlscan.plugins.barcodescanner.show(msg)
```

Parameters

msg:the read result

Example:

java:

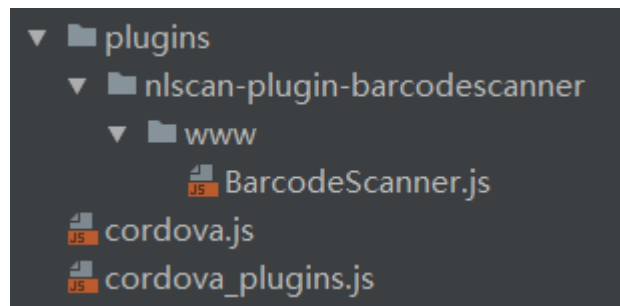
```
loadUrl("javascript:nlscan.plugins.barcodescanner.show('" + readResult + "')");
```

javascript:


```
myFunc.prototype.show = function (msg) {  
    document.getElementById("outputArea").value = document.getElementById("outputArea").value +  
    msg;  
};
```

4.2.File References

If you want to use the JS API provided by NEB, first of all you have to ensure that your project references the following js files.



BarcodeScanner.js

Plugin to provide interface between java code and js code. You must notice that the directory name and path of this file should not be changed.

cordova.js

The js file provided by the cordova platform. Make sure it is referenced in your HTML file.

```
<script type="text/javascript" src="cordova.js"></script>
```

cordova_plugins.js

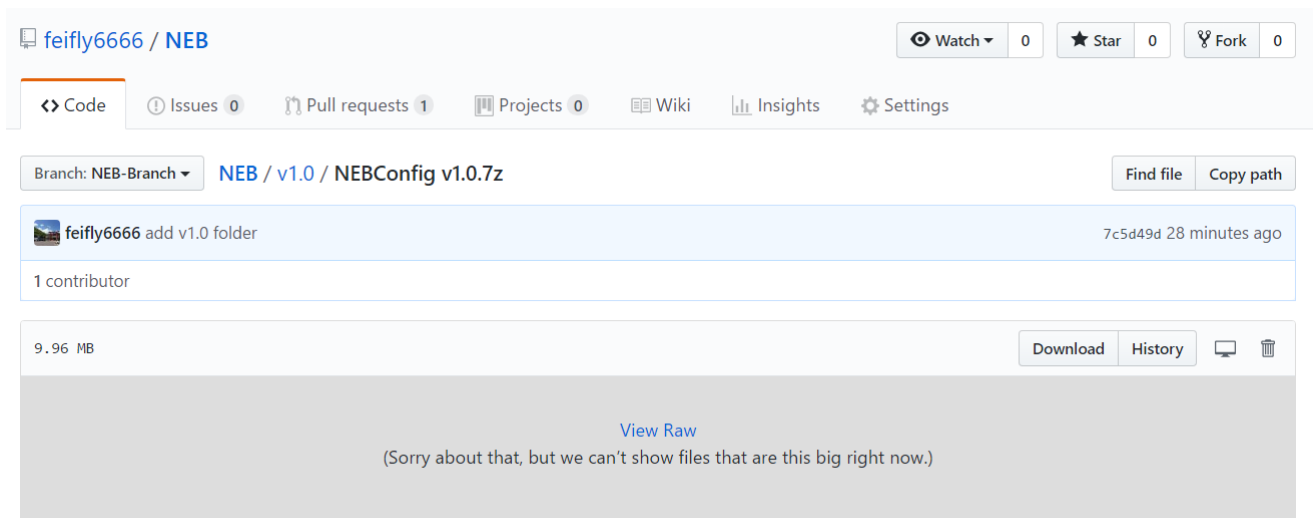
The js file provided by the cordova platform. Used to manage plugins.

5.NEBConfig

NEBConfig is a config tool that you can use it to modify NEB's startup page URL.

You can install it to NQuire300 at the same time as NEB.

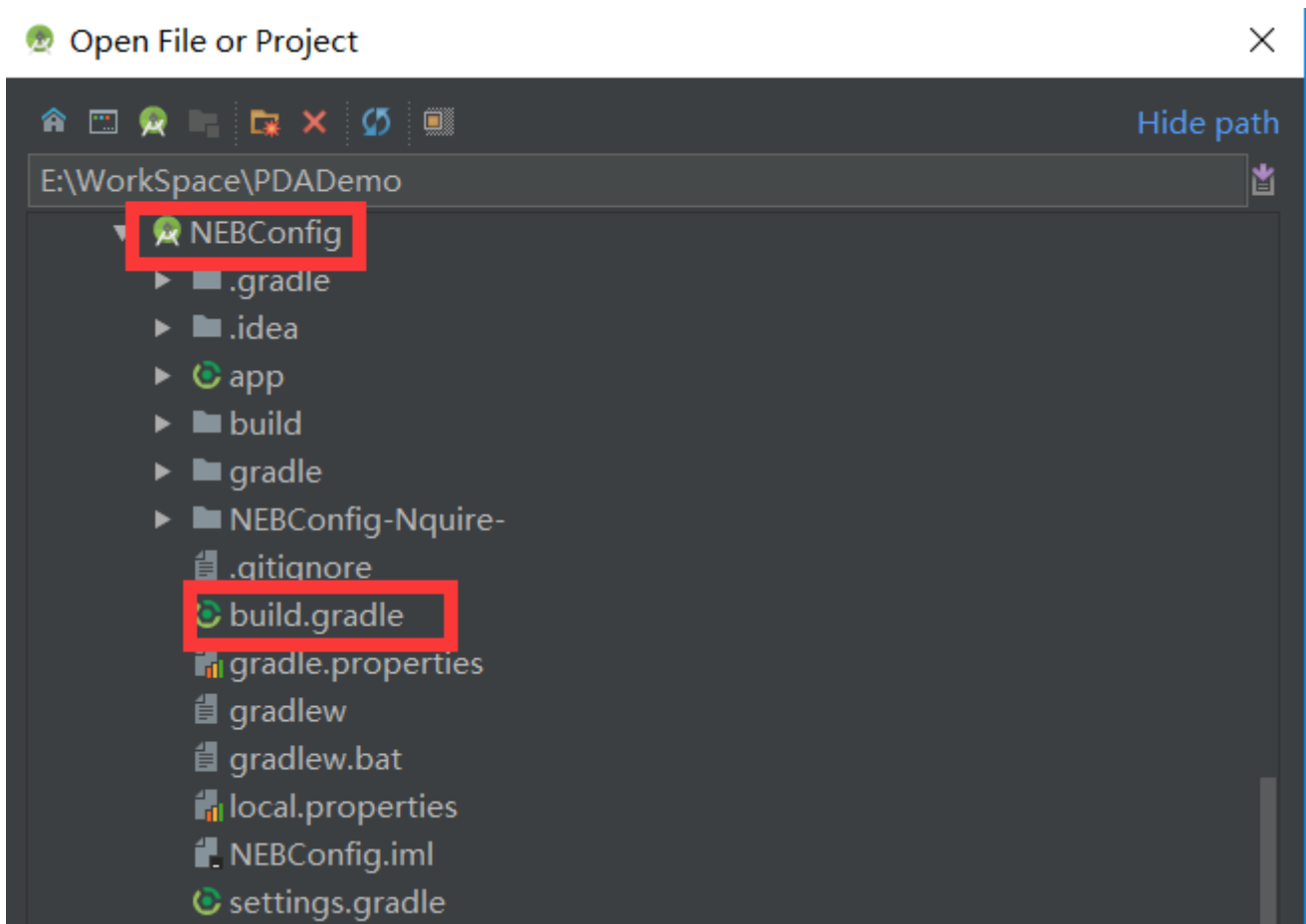
5.1.Download&Import NEB code from GitHub



Unzip the [NEBConfig.7z](#) and import code into Android Studio.

※When you unzip the file you will need a password that provided by NewLand FAE.

Please select `NEBConfig\ build.gradle` file to import NEBConfig project.



5.2.Start NEBConfig Application

Connect NQuire300 and computer via the USB cable and start NEBConfig by Android Studio.

NEBConfig

Use web page or local page

☒ Web Page ☐ Local Page

When you chosed local page you can modify NEB's onload url by below:

Please enter the address from 'http:/'

SETUP

Web Page

When you selected `Web Page` radio button the URL input area below will be enabled, you can enter your web URL address that want to show in NEB. Note that you need to start typing web URL address from 'http:/'

Local Page

When you selected `Local Page` radio button the URL input area below will be disabled, and NEB will show the local page that specified in the `Config.xml` file and if you selected local page mode, you will not need the network environment.

6. Version Info

- Cordova: 8.0.0
- Min Sdk Version: Android 4.1 Jelly Bean
- JQuery Mobile: 1.4.5