

How To OHA Mini App

For oMass developers

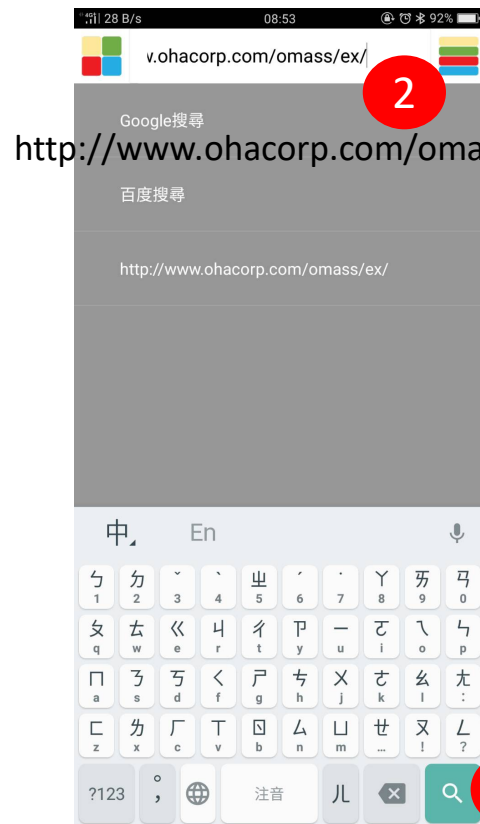
Run 1st Mini App Online

"Hello OHA" for oMass TENS

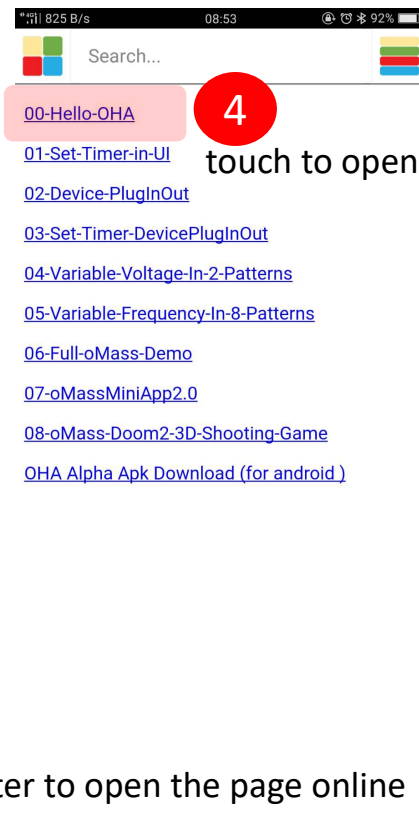
Finished In 30 Seconds

Online Mini App

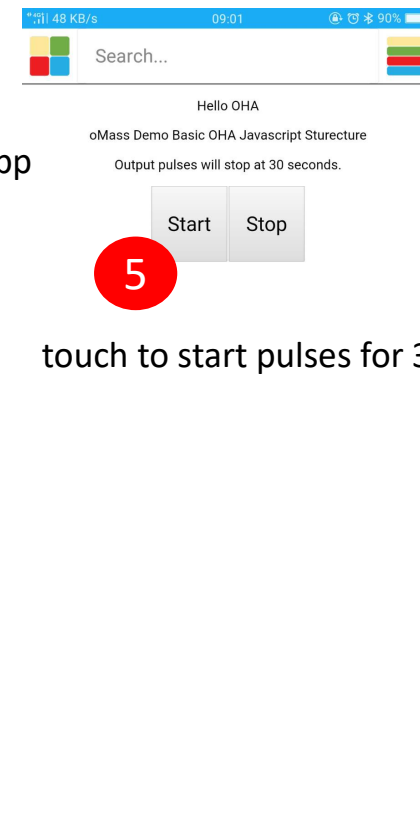
- Hotplug oMass hardware at first **1**
- Open domain address in OHA search bar
 - <http://www.ohacorp.com/omass/ex/>



<http://www.ohacorp.com/omass/ex/>



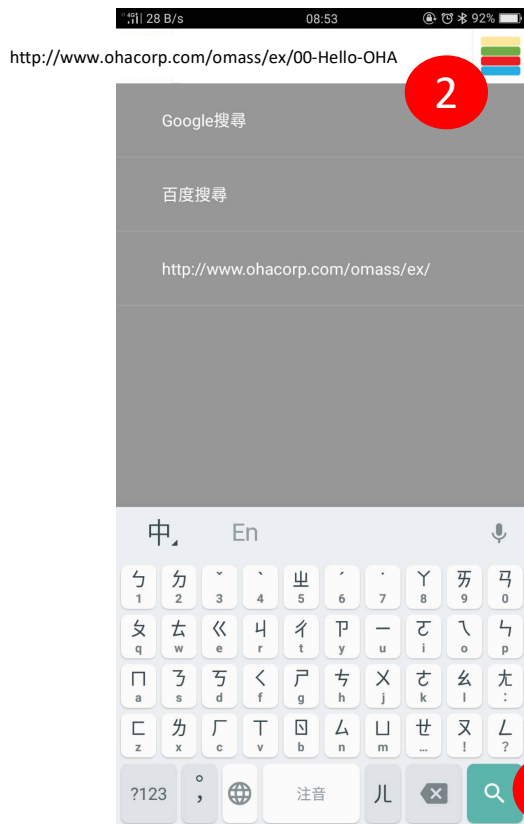
touch to open mini app



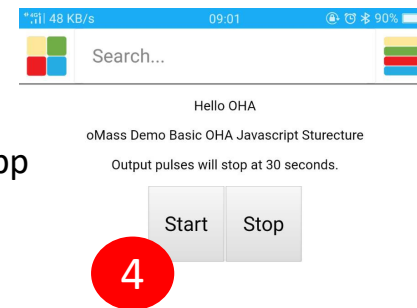
touch to start pulses for 30 seconds

Execute Mini App By Domain Name

- Hotplug oMass hardware at first **1**
- Open domain address in OHA search bar
 - <http://www.ohacorp.com/omass/ex/00-Hello-OHA>



3 Enter to open the page online



touch to open mini app

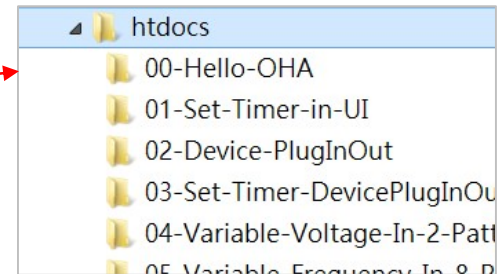
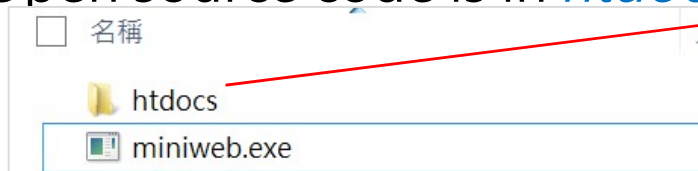
touch to start pulses for 30 seconds

Run 1st Mini App In Your Own PC (Windows) "Hello OHA"

Finished In 60 Seconds

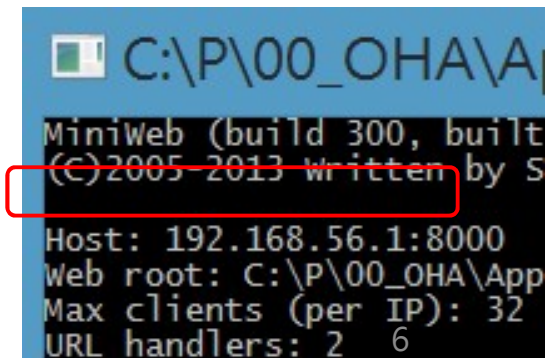
oMass open source release package with MiniWeb Server

- 1 • Get [omass-release.zip](#)
 - Unzip to PC directory (any place in PC)
 - Open source code is in *htdocs*



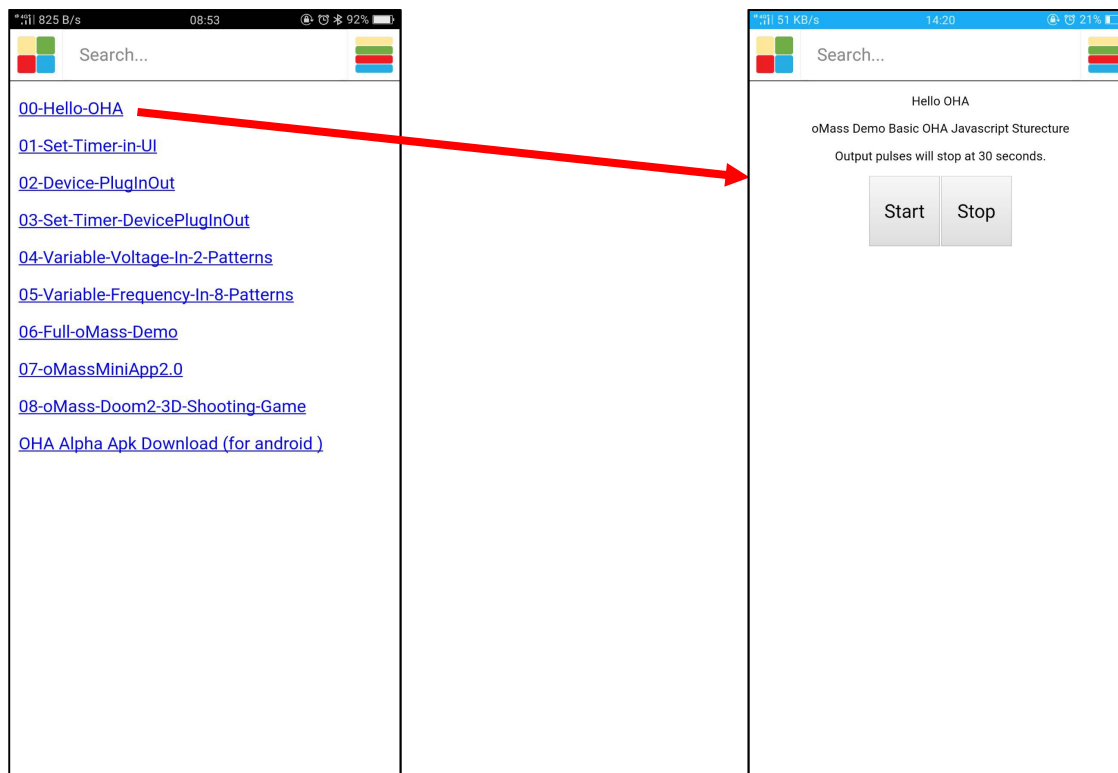
- 2 • Double Click To Run MiniWeb Sever
 - The server is 192.168.56.1(may changed by your network)
 - Port:8000 (fixed)

- 3 • Use OHA To Connect MiniWeb Sever
 - Let Android and server in the same AP network.
 - Open `http:// 192.168.56.1:8000` in OHA search bar
 - You will get the page the same as online



Run oMass Mini App

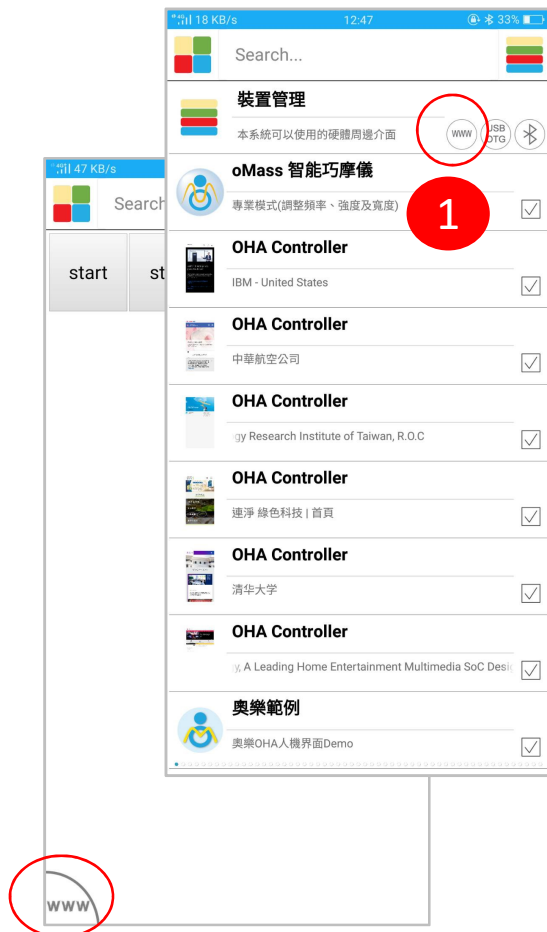
- Touch *00-Hello-OHA* to start the mini app



Burn The Mini App in oMass Hardware

Let hardware specified the mini app address

Update the Mini App in Hardware



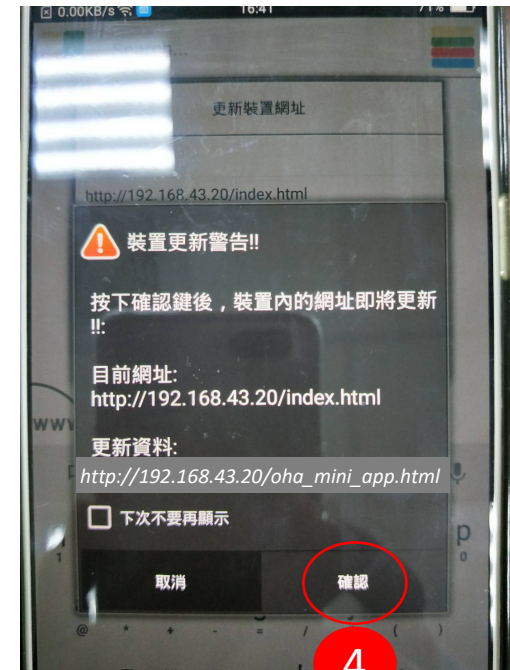
1

Push **www** to update mini app address in oMass hardware



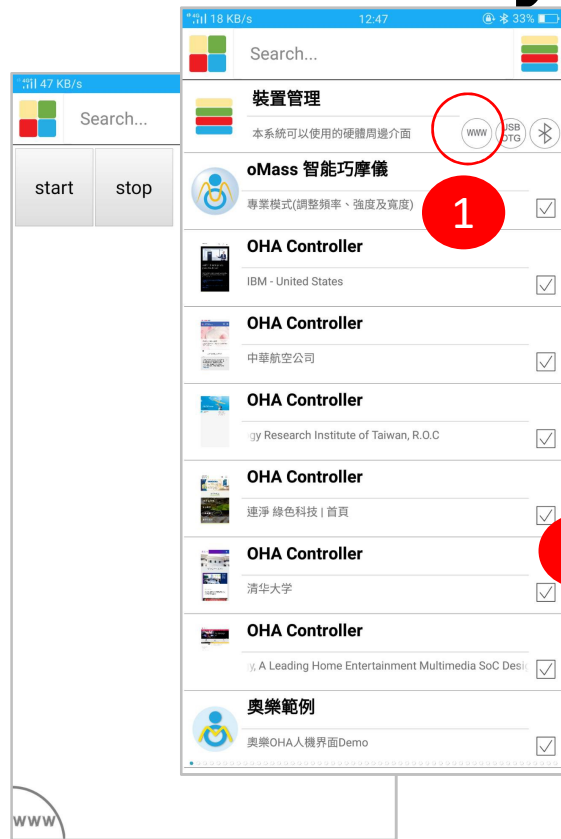
2

3

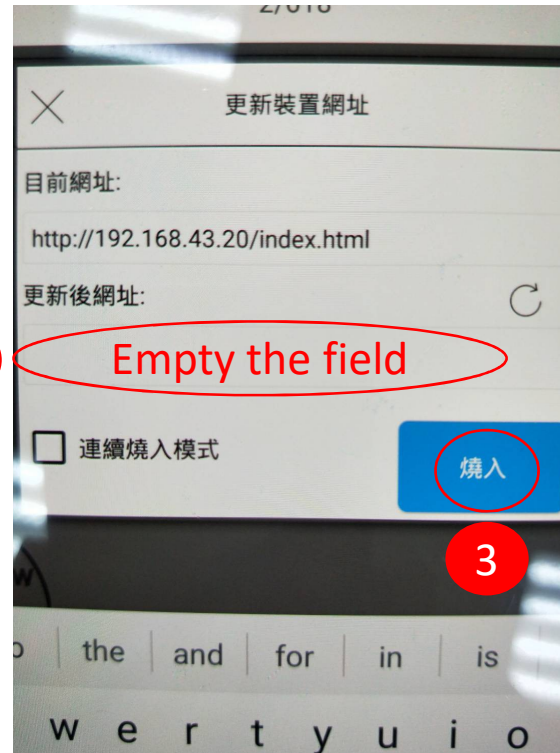


4

Restore the mini app address to factory default



- 1 Push **www** to update Mini app address in oMass hardware



Hello OHA The 1st Open Source Code

- *index.html*
 - The main entry of HTML 5, don't need to changed.
- *oha_mini_app_omass.js*
 - The main entry of the oMass javascript

```
28 <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
29 <title>oMass Demo Basic OHA Javascript Sturcture</title>
30
31 <!-- connect the API of jquery, oha and omass -->
32 <!-- 連接API -->
33 <script type="text/javascript" src="http://www.othe.com.tw/OHA/oha_lib/j
34 <script type="text/javascript" src="http://www.othe.com.tw/OHA/oha_lib/j
35 <script type="text/javascript" src="http://www.othe.com.tw/OHA/oha_lib/o
36 <script type="text/javascript" src="http://www.othe.com.tw/OHA/oha_lib/o
37
38 </head>
39 <!-- HTML the basic of UI design -->
40 <!-- HTML 關於基本UI樣式 -->
41 <body>
42 <center><p style="font-size:32px;">Hello OHA</p></center>
43 <center><p style="font-size:32px;">oMass Demo Basic OHA Javascript S
44 <center><p style="font-size:32px;"> Output pulses will stop at 30 se
45 <!-- oMass device start button -->
46 <center><button onclick="start_omass()" id="start" style="font-size:
47 <!-- oMass device stop button -->
48 <center><button onclick="stop_omass()" id="stop" style="font-size:48px; heig
49 </body>
50
51 <!-- process control -->
52 <script>
53 //*****
54 // oMass init
55 omass_api.init("oha_mini_app_omass.js"); // oha_mini_app_omass.js
56
57 //*****
58 // start the oMass in UI
59 function start_omass() { // oMass device start
60     omass_api.runPattern(); // start Pattern
61 }
62
63 //*****
64
```

```
33
34 //*****
35 // function setPat(index_no, V, Hz, us, ms, pulse_direction)
36 //
37 // Setting Pattern by control timing in app for accurate time
38 // parameters:
39 // index_no: integer number for pattern controlling looping
40 // index_no = 0, start the pattern
41 // V: voltage control
42 // Hz: frequency control
43 // us: pulse width control
44 // ms: delay time for next pattern
45 setPat(index++, 10, 30, 200, 1000, Bidirection); // index 0, 10V, 30 Hz, 200 us, wa
46 setPat(index++, 30, 30, 200, 4000, Bidirection); // index 1, 20V, 30 Hz, 200 us, wa
47 setPat(index++, 0, 0, 0, 2000, Bidirection); // index 2, 0V, 0 Hz, 0 us, wa
48 setPat(index++, 50, 30, 200, 4000, Right); // index 3, 50V, 20 Hz, 200 us, wa
49 setPat(index++, 0, 0, 0, 2000, Bidirection); // index 4, 0V, 0 Hz, 0 us, wa
50 setPat(index++, 70, 30, 200, 4000, Bidirection); // index 5, 70V, 30 Hz, 200 us, wa
51 setPat(index++, 0, 0, 0, 2000, Bidirection); // index 6, 0V, 0 Hz, 0 us, wa
52 setPat(index++, 100, 30, 200, 4000, Left); // index 7, 100V, 20 Hz, 200 us, wa
53 setPat(index++, 0, 0, 0, 2000, Bidirection); // index 8, 0V, 0 Hz, 0 us, wa
54
55 //*****
56 // Repeat command
57 // function setRep(index_no, index_no_start, index_no_end, rep_times)
58 //
59 // Setting Pattern by control timing in app for accurate time, repeat the pattern
60 // parameters:
61 // index_no: integer number for pattern controlling repeating, looping
62 // index_no = 0, start the pattern
63 // index_no_start: integer number for pattern controlling repeating, looping
64 // < setting index_no is valid setting
65 // index_no_end: integer number for pattern controlling repeating, looping
66 // < setting index_no is valid setting
67 // rep_times: repeat the patterns between index_no_start to index_no_end for tim
68 setRep(index++, 1, 8, -1); // index 9, Repeat the index 1 to 8, 1 mean:forever
69 // setRep(index++, 1, 8, 2); // index 9, Repeat the index 1 to 8, loop 2 times
70
```

Update the patterns of oMass TENS

Unlimited patterns can be designed by mini app

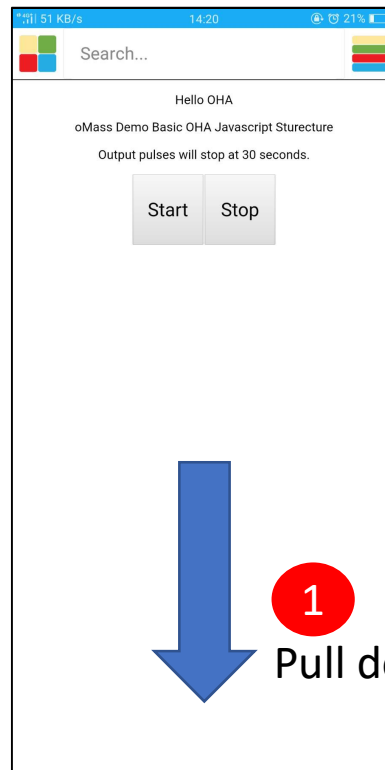
Change The Output Mode

- Updated file [oha_mini_app_omass.js](#)
 - change the content
- 1 • Save the file

```
33
34 //*****
35 // function setPat(index_no, V, Hz, us, ms, pulse_direction)
36 //
37 // Setting Pattern by control timing in app for accurate time
38 // parameters:
39 // index_no: integer number for pattern controlling looping
40 // index_no = 0, start the pattern
41 // V: voltage control
42 // Hz: frequency control
43 // us: pulse width control
44 // ms: delay time for next pattern
45 setPat(index++, 10, 30, 200, 1000, Bidirection); // index 0, 10V, 30 Hz, 200 us, wa
46 setPat(index++, 0, 30, 200, 1000, Bidirection); // index 1, 0V, 30 Hz, 200 us, wa
47 setPat(index++, 0, 0, 0, 2000, Bidirection); // index 2, 0V, 0 Hz, 0 us, wa
48 setPat(index++, 50, 30, 200, 4000, Right); // index 3, 50V, 20 Hz, 200 us, wa
49 setPat(index++, 0, 0, 0, 2000, Bidirection); // index 4, 0V, 0 Hz, 0 us, wa
50 setPat(index++, 70, 30, 200, 4000, Bidirection); // index 5, 70V, 30 Hz, 200 us, wa
51 setPat(index++, 0, 0, 0, 2000, Bidirection); // index 6, 0V, 0 Hz, 0 us, wa
52 setPat(index++, 100, 30, 200, 4000, Left); // index 7, 100V, 20 Hz, 200 us, wa
53 setPat(index++, 0, 0, 0, 2000, Bidirection); // index 8, 0V, 0 Hz, 0 us, wa
54
55 //*****
56 // Repeat command
57 // function setRep(index_no, index_no_start, index_no_end, rep_times)
58 //
59 // Setting Pattern by control timing in app for accurate time, repeat the pattern
60 // parameters:
61 // index_no: integer number for pattern controlling repeating, looping
62 // index_no = 0, start the pattern
63 // index_no_start: integer number for pattern controlling repeating, looping
64 // < setting index_no is valid setting
65 // index_no_end: integer number for pattern controlling repeating, looping
66 // < setting index_no is valid setting
67 // rep_times: repeat the patterns between index_no_start to index_no_end for time
68 setRep(index++, 1, 8, -1); // index 9, Repeat the Index 1 to 8, -1 mean:forever
69 // setRep(index++, 1, 8, 2); // index 9, Repeat the index 1 to 8, loop 2 times
70
```

- 2 • Reflash the webpage in OHA app to try the new setting

Reflash the OHA mini app



1 Pull down to reflash the webpage

Release The OHA Mini App

- Put the mini app in Internet
 - Domain address (or IP address)
 - HTML5, JavaScript, CSS, ... all in the directory
- The domain address
 - Flash it in the hardware(oMass)
 - Accessible by Internet
- OHA App can access
 - The hardware(oMass)
 - The domain address by Internet
- **Customized app by mini app (call feature)**
 - Generated by platform builder
 - Pay the fee by times, including .apk and .ipa

Some basic function of oMass APIs

Initial, run and stop patterns

- `omass_api.init("oha_mini_app_omass.js");`
- `omass_api.runPattern();`
- `omass_api.stopPattern();`

Specified pattern file name in javascript

```
51 <!-- process control -->
52 <script>
53 //*****
54 // oMass init
55 omass_api.init("oha_mini_app_omass.js"); // oha_mini_app_omass.js is user deinfed p
56 // oha_mini_app_omass.js could be changed
57
58 //*****
59 // start the oMass in UI
60 function start_omass() { // oMass device
61     omass_api.runPattern(); // start Pattern
62 }
63
64 //*****
65 // stop the oMass in UI
66 function stop_omass() { // oMass device stop
67     omass api.stopPattern(); // recycle multiple threads
```

index.html

SetPat(), Setting Patterns

```
34 //*****
35 // function setPat(index_no, V, Hz, us, ms, pulse_direction)
36 //
37 // Setting Pattern by control timing in app for acc
38 // parameters:
39 // index_no: integer number for pattern controlling
40 // index_no = 0, start the pattern
41 // V: voltage control
42 // Hz: frequency control
43 // us: pulse width control
44 // ms: delay time for next pattern
45 // dir: direction of pulse, Right, Left, Bidirection |
46 setPat(index++, 10, 30, 200, 1000, Bidirection); // index 0, 10V, 30 Hz, 200 us, wa
47 setPat(index++, 30, 30, 200, 4000, Bidirection); // index 1, 20V, 30 Hz, 200 us, wa
48 setPat(index++, 0, 0, 0, 2000, Bidirection); // index 2, 0V, 0 Hz, 0 us, wa
49 setPat(index++, 50, 30, 200, 4000, Right); // index 3, 50V, 20 Hz, 200 us, wa
50 setPat(index++, 0, 0, 0, 2000, Bidirection); // index 4, 0V, 0 Hz, 0 us, wa
```

oha_mini_app_omass.js

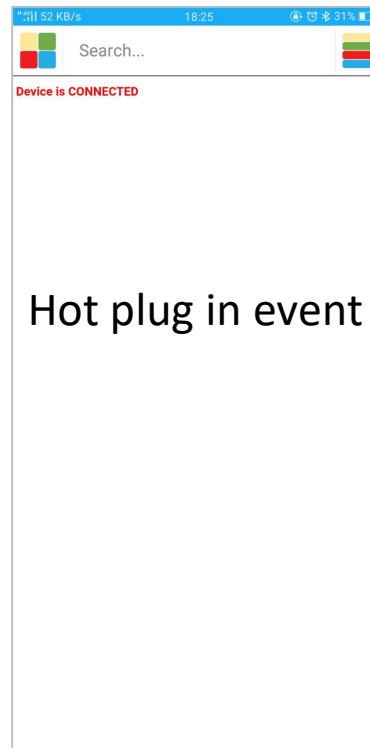
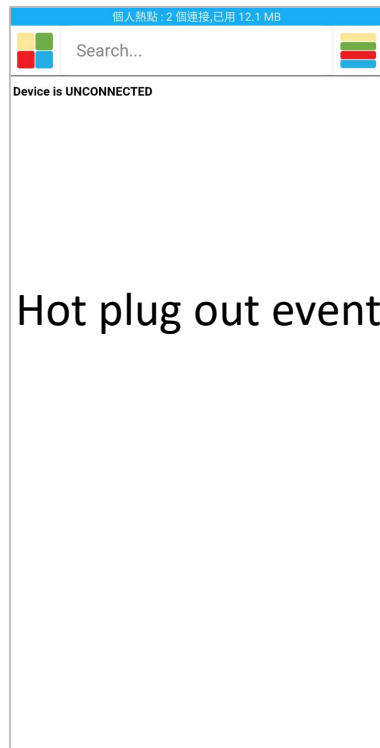
SetRep(), Repeating Patterns

oha_mini_app_omass.js

```
56 //*****
57 // Repeat command
58 // function setRep(index_no, index_no_start, index_no_end, rep_time)
59 //
60 // Setting Pattern by control timing in app for accurate time, rep
61 // parameters:
62 //   index_no: integer number for pattern controlling repeating, loc
63 //     index_no = 0, start the pattern
64 //   index_no_start: integer number for pattern controlling repeating
65 //     < setting index_no is valid setting
66 //   index_no_end: integer number for pattern controlling repeating,
67 //     < setting index_no is valid setting
68 //   rep_time: repeat the pattern between index_no_start to index
```

Device Connection Status

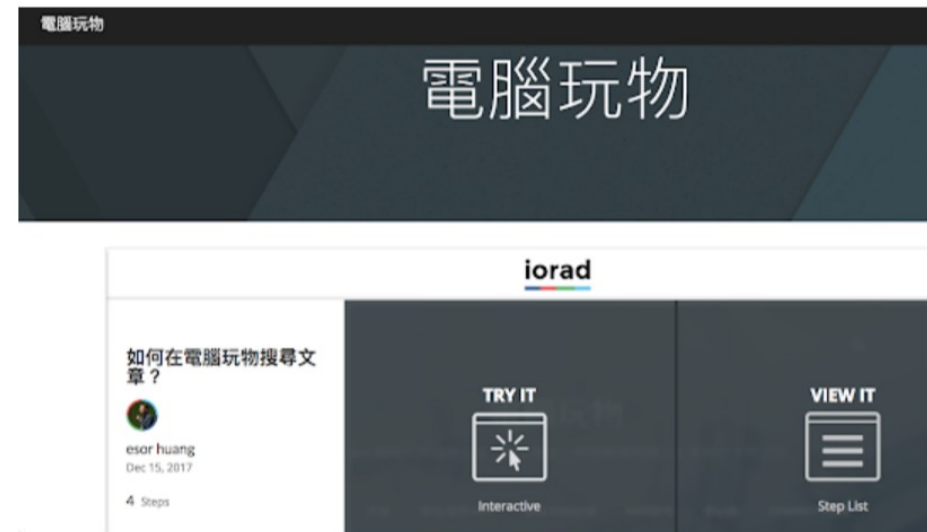
- *02-Device-PlugInOut*
 - *omass_api.DevPlugIn*
 - *omass_api.DevPlugOut*



Mini App in Google Site

作者：[esor huang](#) 12月 19, 2017

 讚  分享 177 人說這個讚。成為朋友中第一個說讚的人。



Google 協作平台（Google Sites）是 Google 的一個免費製作網頁工具，了一個新版介面：「[全新 Google 協作平台推出](#)，做漂亮網站跟編輯文件新的編輯介面中，可以用更直覺的方式，組合各種 Google 服務，製作出腦上都能漂亮瀏覽的入口網頁。

很多公司或學校，會使用 Google 協作平台（Google Sites）來製作企業工資訊網。而可以在 [Google 協作平台](#) 中插入 [Google 地圖](#)、[Google 行事](#)

Mini App In Google Site

The image illustrates the process of embedding a Mini App into a Google Site. It is divided into three main sections:

- Editor View (Left):** Shows the Google Sites editor interface for a page titled "OHA by Google Site". A Mini App widget is being configured. A red box labeled "External oMass JavaScript" points to the widget's configuration area. A blue box labeled "編輯按鈕" (Edit Button) points to the "名稱" (Name) field, which contains "oMass Controller".
- Mobile View (Bottom Left):** Shows the site as it appears on a mobile device. A red circle with the number "1" points to the URL bar, which displays "https://sites.google.com/othe.com.tw/oha". A red box labeled "Touch" with a red circle containing the number "2" points to the Mini App widget on the screen.
- Mobile View (Bottom Right):** Shows the Mini App's interface on a mobile device. It displays "Hello OHA" and "oMass Demo Basic OHA Javascript Sturectu". Below this, it says "Output pulses will stop at 30 seconds." and features "Start" and "Stop" buttons. A red circle with the number "3" is positioned over the "Start" button.

JavaScript In Google Site

OHA oMass Demo by Google... 發佈

1

1. oMass硬體先在OHA下正常連線
2. 在OHA app search bar下輸入本網址：
<https://sites.google.com/othe.com.tw/oha>
3. 直接點選以下oMass範例小程序

Hello OHA
oMass Demo Basic OHA Javascript Structure
Output pulses will stop at 30 seconds.
Start Stop

oMass Demo Timer Control by UI
Touch + or - to change down counter in minute
+ 01:00 -
Start Stop

嵌入網頁內容

使用網址 嵌入程式碼

貼上你想嵌入的網站的 HTML 程式碼 -

```
*****  
// Start command  
startOmass(); // Start the device to ouput pulse, will finished  
after start hardware  
  
// will come here immediately after startOmass()  
  
// wait(60*1000) // 60 seconds can't use wait() for it will
```