HTML5 手機APP 開發 (使用PhoneGap) PhoneGap專案建置

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學習目標

■學習建立PhoneGap專案



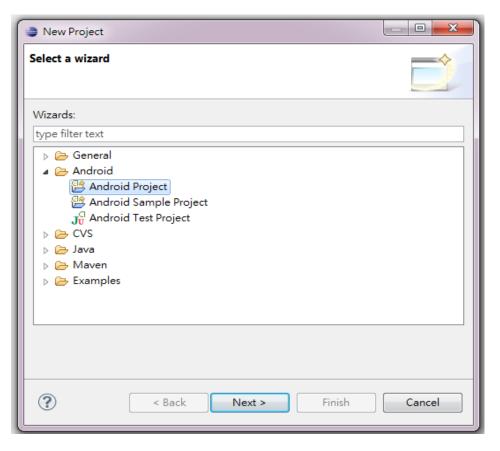
課程大綱

- ■設定PhoneGap SDK
- ■Hello World實作
- ■使用Android模擬器測試



PhoneGap專案建立

- 1.選擇Ecplise工具列
- 2.File分頁-> New分頁 -> Project按鈕
- 3. 開啟以下畫面並選擇Android Project





PhoneGap專案建立

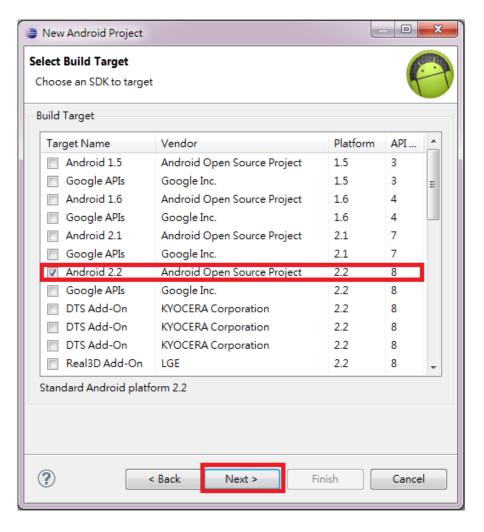
■1.在Project Name輸入專案名稱

New Android Project	
Create Android Project Select project name and type of project	
Project Name: HelloWorld	
Create new project in workspace	,
Create project from existing source	
Create project from existing sample	
Use default location	
Location: C:/Java/workspace/HelloWorld	Browse
Working sets	
Add project to working sets	
Working sets:	▼ Select
Sack Next > Finish	Cancel



選擇Android OS版本

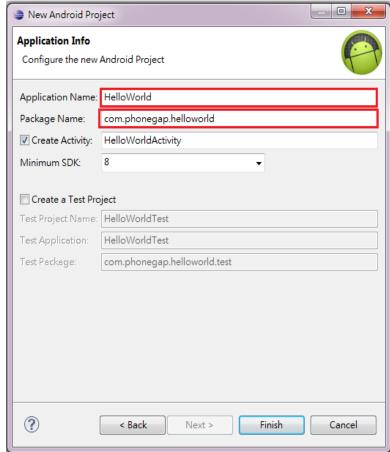
■請選擇Android 2.2並點擊Next按鈕





設定專案資訊

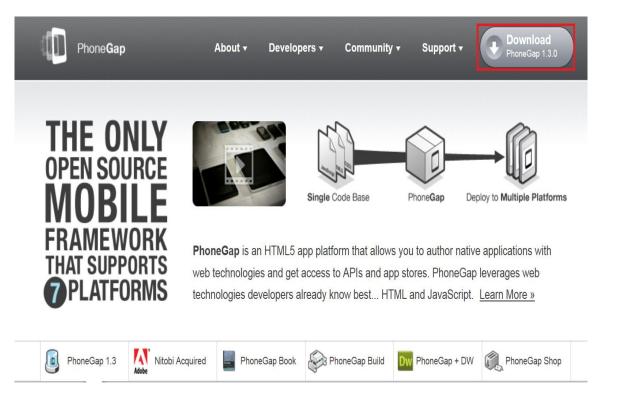
- 1.Application Name:應用程式名稱
- 2.Package Name:類別名稱
- 3.點擊Finish按鈕完成專案建立





下載PhoneGap

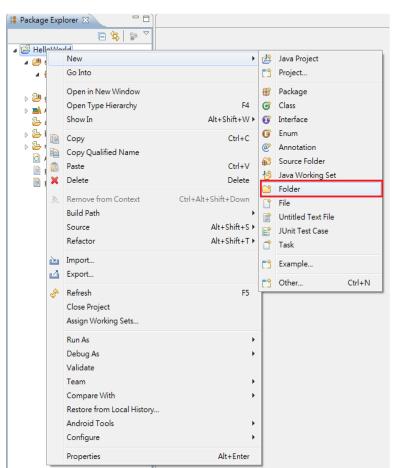
- ■點擊Download Phonegap 按鈕下載
- ! 網址http://phonegap.com/downloadthankyou





建立PhoneGap所需目錄

- ■1.在Package Explorer選擇
- ■剛建立的專案點擊右鍵
- ■2.選擇New->Folder建立
- ■下列目錄:
 - ❖1.專案根目錄/libs
 - ❖2.專案根目錄/assets/www





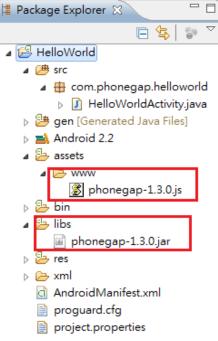
設定PhoneGap函式庫及網頁根目錄

■1.解開PhoneGap函式庫壓縮檔,選擇 Android目錄,並做以下複製動作

❖1.將phonegap.js複製到/assets/www/下 原檔名可能為phonegap.x.x.x.js,請把它改 名為phonegap.js

❖2. 將phonegap.jar複製到/libs/下

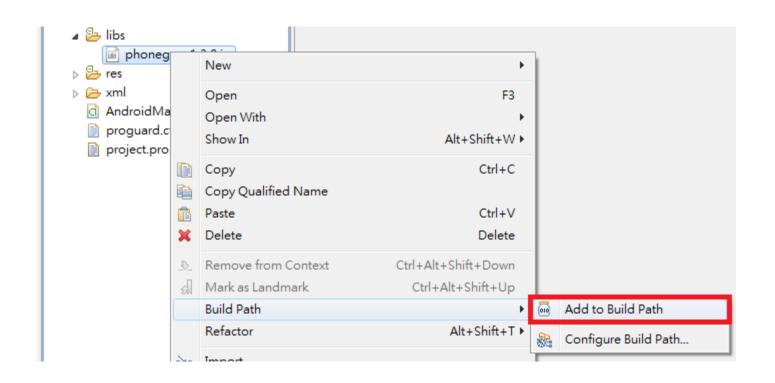
❖3.複製xml目錄到專案根目錄/res/





匯入PhoneGap函式庫

- ■1.點選專案目錄右鍵Refresh更新專案目錄
- ■2.右鍵點選libs/phonegap.jar,選擇[Build Path] -> [Add to Bulid Path] 匯入函式庫





設定專案使用PhoneGap為主要開發

- ■1.開啟android專案內的src/專案 package/app.java檔案
- 2.在程式碼上方加入 import com.phonegap.*; //匯入phoneGap函式庫
- ■3.將程式碼第7行 Class extends 名稱從Activity 改成 DroidGap
- 4.將程式碼第12行 setContentView(R.layout.main);改成 super.loadUrl("file:///android_asset/www/index.html");



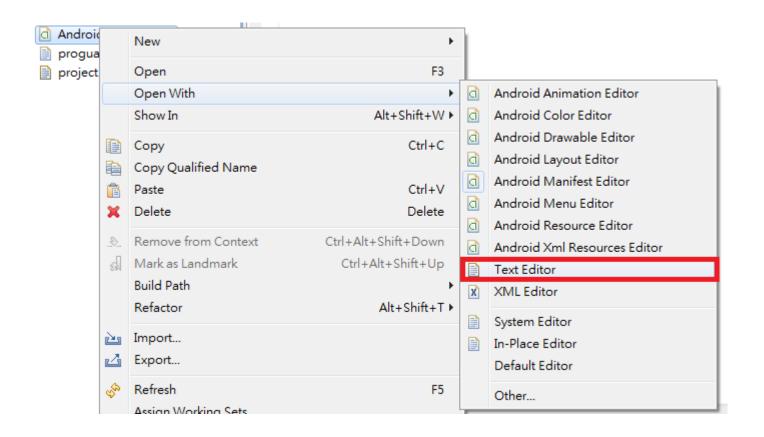
App.java程式碼

```
package com.phonegap.helloworld;
import android.os.Bundle;
import com.phonegap.*;
public class HelloWorldActivity extends DroidGap {
  /** Called when the activity is first created. */
  @Override
  public void onCreate(Bundle savedInstanceState) {
     super.onCreate(savedInstanceState);
super.loadUrl("file:///android_asset/www/index.html");
```



設定AndroidMainifest.xml檔

■右鍵點選專案中的AndroidManifest.xml,並選擇Open With -> Text Editor





XML設定

```
將以下的XML參數複製到<manifest xmlns:android="http://schemas.android.com/apk/res/android"
.... android:versionName="1.0">之後
<supports-screens
   android:largeScreens="true"
   android:normalScreens="true"
   android:smallScreens="true"
   android:resizeable="true"
   android:anyDensity="true"
   />
   <uses-permission android:name="android.permission.CAMERA" />
   <uses-permission android:name="android.permission.VIBRATE" />
   <uses-permission android:name="android.permission.ACCESS COARSE LOCATION" />
   <uses-permission android:name="android.permission.ACCESS FINE LOCATION" />
   <uses-permission
android:name="android.permission.ACCESS LOCATION EXTRA COMMANDS" />
   <uses-permission android:name="android.permission.READ PHONE STATE" />
   <uses-permission android:name="android.permission.INTERNET" />
   <uses-permission android:name="android.permission.RECEIVE SMS" />
   <uses-permission android:name="android.permission.RECORD AUDIO" />
   <uses-permission android:name="android.permission.MODIFY AUDIO SETTINGS" />
   <uses-permission android:name="android.permission.READ CONTACTS" />
   <uses-permission android:name="android.permission.WRITE CONTACTS" />
   <uses-permission android:name="android.permission.WRITE EXTERNAL STORAGE" />
   <uses-permission android:name="android.permission.ACCESS NETWORK STATE" />
```



```
HelloWorldActivity.java
                            <?xml version="1.0" encoding="utf-8"?>
   <manifest xmlns:android="http://schemas.android.com/apk/res/android"</pre>
       package="com.phonegap.helloworld"
       android:versionCode="1"
      android:versionName="1.0" >
       <supports-screens
         android:largeScreens="true"
         android:normalScreens="true"
         android:smallScreens="true"
         android:resizeable="true"
         android:anyDensity="true"
         />
         <uses-permission android:name="android.permission.CAMERA" />
         <uses-permission android:name="android.permission.VIBRATE" />
         <uses-permission android:name="android.permission.ACCESS COARSE LOCATION" />
         <uses-permission android:name="android.permission.ACCESS FINE LOCATION" />
         <uses-permission android:name="android.permission.ACCESS LOCATION EXTRA COMMANDS" />
         <uses-permission android:name="android.permission.READ PHONE STATE" />
         <uses-permission android:name="android.permission.INTERNET" />
         <uses-permission android:name="android.permission.RECEIVE SMS" />
         <uses-permission android:name="android.permission.RECORD AUDIO" />
         <uses-permission android:name="android.permission.MODIFY AUDIO SETTINGS" />
         <uses-permission android:name="android.permission.READ CONTACTS" />
         <uses-permission android:name="android.permission.WRITE CONTACTS" />
         <uses-permission android:name="android.permission.WRITE EXTERNAL STORAGE" />
         <uses-permission android:name="android.permission.ACCESS NETWORK STATE" />
       <uses-sdk android:minSdkVersion="8" />
       <application</a>
           android:icon="@drawable/ic launcher"
           android:label="@string/app name" >
           <activity
               android:name=".HelloWorldActivity"
               android:label="@string/app name" >
               <intent-filter>
                   <action android:name="android.intent.action.MAIN" />
                   <category android:name="android.intent.category.LAUNCHER" />
               </intent-filter>
           </activity>
       </application>
```



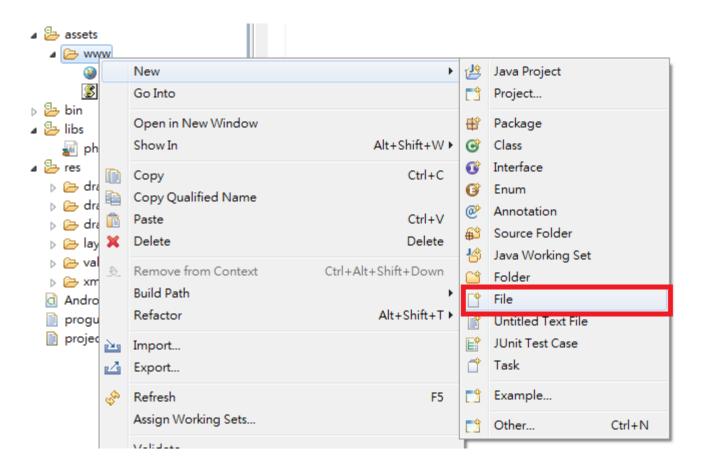
- 將 android:configChanges="orientation|keyboardHidden"加到activity屬性內的 android:label="@string/app_name"的後面
- android:configChanges="orientation|keyboardHidd en"

如以下XMI設定



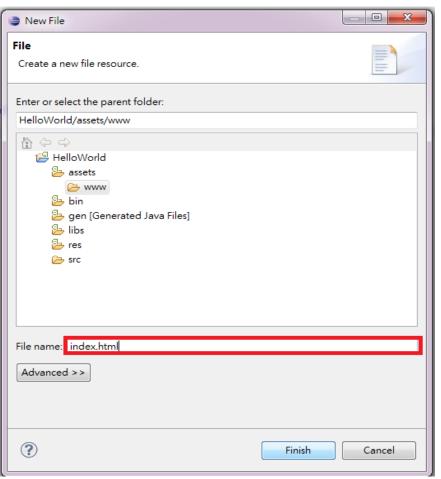
建立Hello World 網頁

■ 1.選擇www目錄點擊右鍵選擇New->File建立 index.html檔案





- 1.在File name輸入檔名index.html建立檔案
- 2.在Package Editor選擇index.html檔案點擊右鍵 open with->text editor
- 3.輸入HTML5程式碼





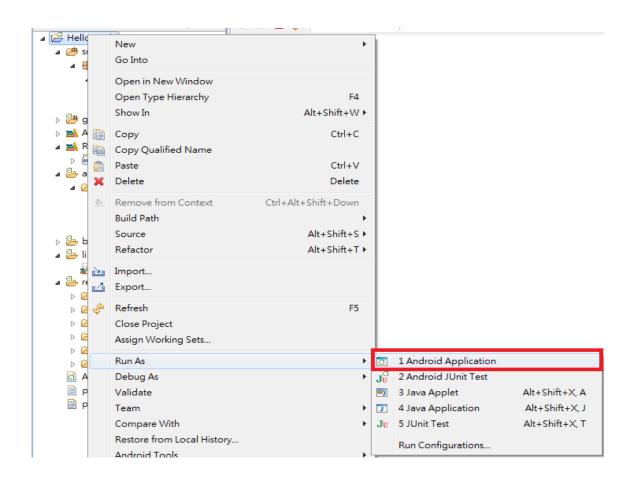
Index.html 程式碼

```
<!DOCTYPE HTML>
<html>
<head>
<title>Hello Inside</title>
<script type="text/javascript" charset="utf-8"</pre>
src="phonegap.js"></script>
</head>
<body>
<h1>Hello World</h1>
</body>
</html>
```



測試Hello World專案

■ 右鍵點選專案選擇Run As ->Android Application





測試結果

