PHP Framework: CodeIgniter(三)

練習環境：Windows 10 + wagon-1.3.1
建議工具：

- PhpStorm
- Text Editor:
    - Notepad++
    - Sublime Text
    - VS Code
    - Atom IDE

NTPC OpenID:

http://openid.ntpc.edu.tw

required:

- index.php   ⇒   ./assets/openid/
- openid.php   ⇒   ./assets/openid/

測試：

- 修改回傳的網址

```
$openid = new LightOpenID( "localhost" );
```

- 修改 openid 需要的欄位

```
$openid->required = array(
        'namePerson/friendly',     // 暱稱
        'contact/email',            // 公務信箱
        'namePerson',               // 姓名
        'birthDate',                // 出生年月日
        'person/gender',            // 性別
        'contact/postalCode/home', // 識別碼
        'contact/country/home',     // 單位
        'pref/language',            // 年級、班級、座號
        'pref/timezone'             // 單位代碼、單位名稱、身分別、職務別、職稱別
    );
```

加入 CI3 之中

- 建立 Auth Controller 的 method
    - index()
    - do_openid_login ()

- get_openid_data ()
- 利用 routes.php 來判斷 get 或 post 的 HTTP Request

```
$route[' ntpc_openid_login '][' get'] = 'auth/get_openid_data';
$route[' ntpc_openid_login '][' post'] = 'auth/do_openid_login';
```

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記錄登入狀態 session

required: [session] library

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```php
function parse_openid_userinfo( $attr )
  {
    if ( !is_array( $attr ) ) { return false; }

    $arr = array();
    if ( isset( $attr[ 'account' ] ) ) {
       $arr[ 'account' ] = $attr[ 'account' ];
    }
    if ( isset( $attr[ 'namePerson' ] ) ) {
       $arr[ 'user_cname' ] = $attr[ 'namePerson' ];
    }
    if ( isset( $attr[ 'contact/country/home' ] ) ) {
       $arr[ 'school_name' ] = $attr[ 'contact/country/home' ];
    }
    if ( isset( $attr[ 'pref/language' ] ) ) {
       $arr[ 'class_name' ] = substr( $attr[ 'pref/language' ], 1, 3 );
       if( $arr['class_name'] == "000") $arr['class_name'] = "";
       $arr[ 'class_no' ] = substr( $attr[ 'pref/language' ], 4, 2 );
    }
    if ( isset( $attr[ 'contact/email' ] ) ) {
       $arr[ 'user_email' ] = $attr[ 'contact/email' ];
    }
    if ( isset( $attr[ 'pref/timezone' ] ) ) {
       foreach ( json_decode( $attr[ 'pref/timezone' ] ) as $item ) {
          $arr[ 'school_id' ][] = $item->id;
          $arr[ 'school_title'][] = $item->name;
          $arr[ 'user_role' ][] = $item->role;
          $arr[ 'user_title' ][] = $item->title;
          $arr[ 'user_group' ][] = implode( '、', $item->groups );
       }
    }
    return $arr;
  }
```

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```php
$attr = $openid->getAttributes();
$userinfo = parse_openid_userinfo($attr);
$this->session->is_logined = true;
$this->session->username = "xxxx";
$this->session->userinfo = $userinfo;
```

匯入校務系統的學生資料

xml 格式

- XML 宣告
- 節點元素
- 節點文字

```xml
<?xml version="1.0" encoding="UTF-8"?>
<students>
   <studnet>
      <name>黃小保</name>
      <birth>2008/9/15</birth>
      <sex>男</sex>
   </studnet>
</students>
```

- PHP Example:

```php
<?php
$xmlDoc = new DOMDocument();
$xmlDoc->load("students.xml");    // 讀取外部的 xml 檔案

$x = $xmlDoc->documentElement;
foreach ($x->childNodes AS $item) {
 print $item->nodeName . " = " . $item->nodeValue . "<br>";
}
```

校務系統匯出的 XML 格式

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```xml
<?xml version="1.0" encoding="UTF-8"?>
<SCHOOL:report xmlns:SCHOOL="http://163.20.240.13">
    <SCHOOL:table table_name="table0">
        <SCHOOL:row roe_name="row0">
            <SCHOOL:col col_name="col0">學號</SCHOOL:col>
            <SCHOOL:col col_name="col1">姓名</SCHOOL:col>
            <SCHOOL:col col_name="col2">年級</SCHOOL:col>
            <SCHOOL:col col_name="col3">性別</SCHOOL:col>
            <SCHOOL:col col_name="col4">生日</SCHOOL:col>
            <SCHOOL:col col_name="col5">班級</SCHOOL:col>
            <SCHOOL:col col_name="col6">座號</SCHOOL:col>
        </SCHOOL:row>
        <SCHOOL:row roe_name="row1">
            <SCHOOL:col col_name="col0">106001</SCHOOL:col>
            <SCHOOL:col col_name="col1">許功名</SCHOOL:col>
            <SCHOOL:col col_name="col2">1</SCHOOL:col>
            <SCHOOL:col col_name="col3">男</SCHOOL:col>
            <SCHOOL:col col_name="col4">20100831</SCHOOL:col>
            <SCHOOL:col col_name="col5">01</SCHOOL:col>
            <SCHOOL:col col_name="col6">01</SCHOOL:col>
        </SCHOOL:row>
    </SCHOOL:table>
</SCHOOL:report>
```

- 標籤名無意義
- 使用 namespace

- $dom->getElementsByTagNameNS("http://163.20.240.13", "row");

-

```
foreach($students as $row){
    $student        = $row->getElementsByTagNameNS("http://163.20.240.13", "col");

    $schoolno       = $student->item(0)->nodeValue;  // 學號
    $grade_len      = 2;
    if(strlen($schoolno) == 6){
        $grade_len = 3;
    }
    if(!in_array(substr($schoolno,0,$grade_len), $arGrade)){
        continue;
    }

    $studentName= $student->item(1)->nodeValue;  // 姓名
    $classTitle     = $student->item(2)->nodeValue . $student->item(5)->nodeValue;  // 班級
    $sex            = $student->item(3)->nodeValue;  // 性別
    $birth                  = $student->item(4)->nodeValue;  // 生日
    if( strlen($birth) == 8 ){          // 生日為西元年
        $birth                  = substr($birth,0,4) . "-" . substr($birth, 4,2) . "-" . substr($birth,6,2);
    }else{                                                          // 生日非西元年
        if( strlen($birth) == 6 ){
            $birth                  = (substr($birth,0,2)+1911) . "-" . substr($birth, 2,2) . "-" . substr($birth,4,2);
        }elseif( strlen($birth) == 7){
            $birth                  = (substr($birth,0,3) +1911) . "-" . substr($birth, 3,2) . "-" . substr($birth,5,2);
        }
    }

    $classno        = $student->item(6)->nodeValue;          // 座號
}
```

認識 RESTful API

https://www.youtube.com/watch?v=gHCB0sd47Is&t=4