ADVANCED CAKEPHP

Membina Web 2.0 menggunakan AJAX Prototype dan ScriptAcuIoUs

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Language
- PHP
- Ruby
- Python
- J2ME

Framework
- CakePHP
- Ruby On Rails
- Symfony

System Administration
- Redhat Enterprise
- CentOS
- Ubuntu

Database
- MySQL
- PostgreSQL

Ajax
- Jquery
- Prototype
- ExtJS

Scripting
- HTML
- Javascript
- CSS

Training

- CakePHP (Beginner, Advanced, Expert)
- PHP/MySQL (Beginner, Advanced)
- Linux System Administration
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Pengenalan

AJAX ialah satu elemen penting dalam pembangunan Web 2.0. Dalam tutorial kali ini, kita akan mempelajari setiap CakePHP Ajax Method

Prototype

- link
- remoteFunction
- remoteTimer
- form
- submit
- observeField
- observeForm
- autoComplete

ScriptAculoUs Effects
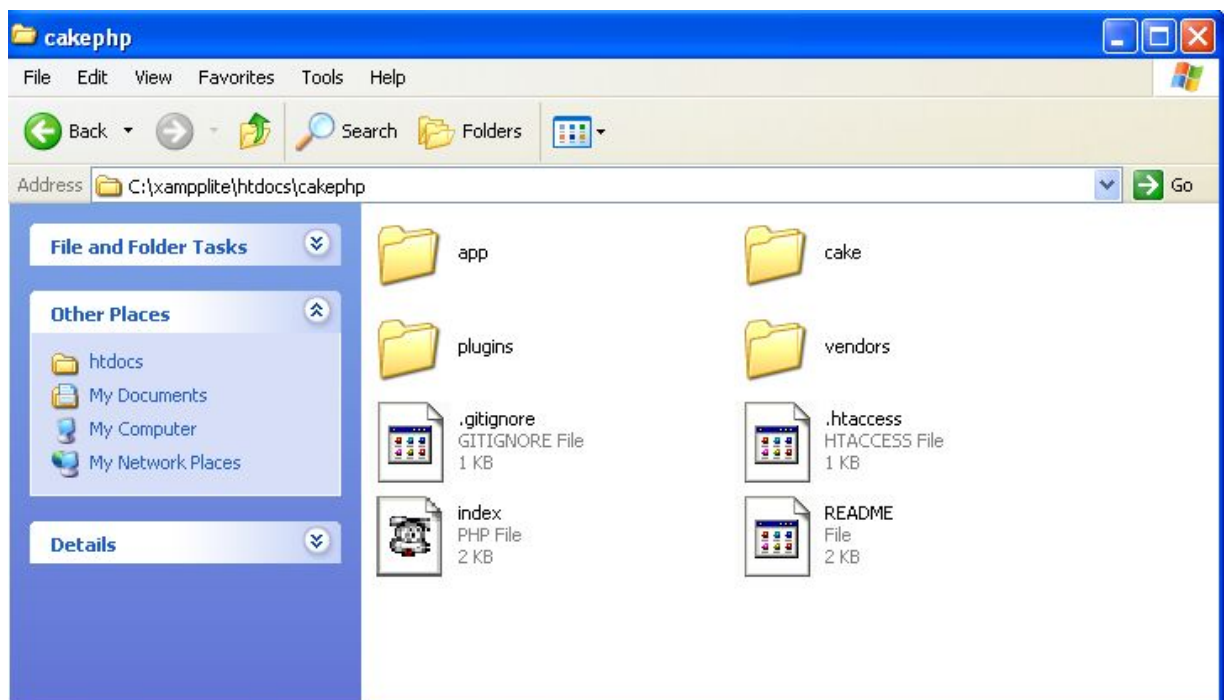
Installation & Setup

1. Install Xampplite di **c:\xampplite**
2. Bina database bernama **cake** menggunakan phpMyAdmin
3. Download dan Install CakePHP versi 1.3.3 Stable URL :
   http://github.com/cakephp/cakephp/downloads
4. Extract supaya fail cakephp terletak di **c:\xampplite\htdocs\cakephp**
5. Tulis kod di bawah dan simpan di dalam **c:\Windows\cake.bat**

```
1  @echo.
2  @echo off
3  SET app=%0
4  SET lib=c:\xampplite\htdocs\cakephp\cake\console\
5  SET php=c:\xampplite\php\php.exe -q
6  %php% "%lib%cake.php" -working "%CD%" %*
7  echo.
```
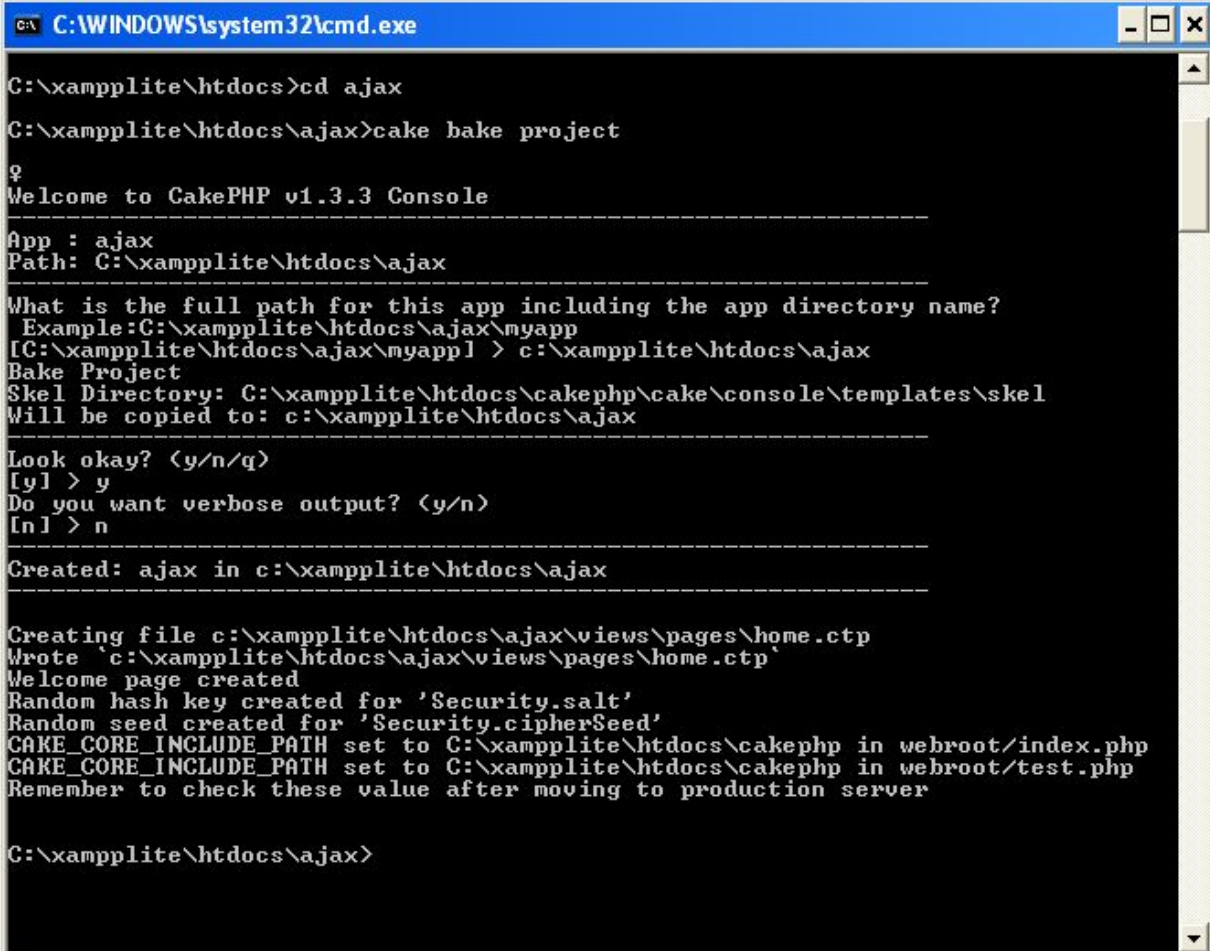
Save sebagai c:\windows\cake.bat

Lokasi fail CakePHP 1.3

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Cake bake project ajax

Bina project di c:\xampplite\htdocs\ajax

Examples Controller

1. Buat satu controller bernama Examples di APP/controllers/examples_controller.php dan letak kod di bawah :

```php
<?php
class ExamplesController extends AppController {
    var $name = 'Examples';
    var $uses = null;

    function index(){
    }
}
```

Baris 4, var $uses = null digunakan kerana ExamplesController tidak menggunakan Model

2. Bina folder APP/views/examples/
3. Cipta fail kosong dan save sebagai APP/views/examples/index.ctp
4. Download http://prototypejs.org/assets/2009/8/31/prototype.js dan save ke APP/webroot/js/prototype.js
5. Download http://script.aculo.us/dist/scriptaculous-js-1.8.3.zip dan extract ke folder APP/webroot/js/
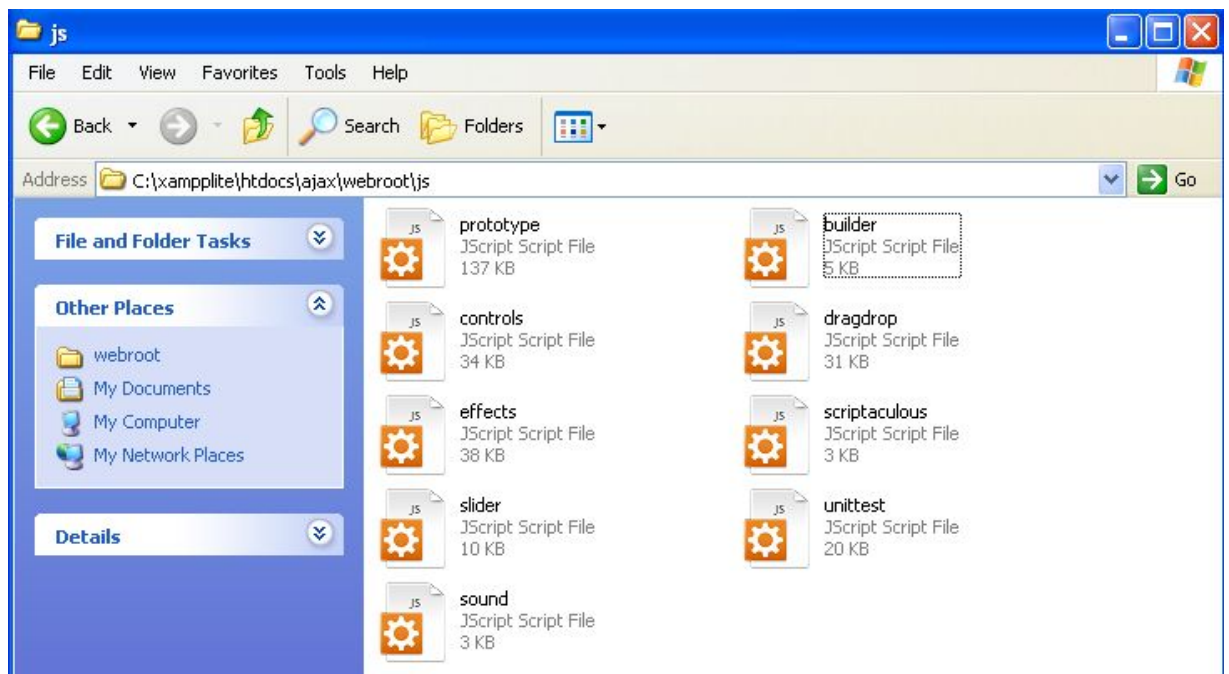
Update default.ctp

Ubah fail APP/views/layouts/default.ctp dan tambah kod di bawah

```php
<?php
    echo $this->Html->meta('icon');

    echo $this->Html->css('cake.generic');

    echo $this->Html->script('prototype');

    echo $this->Html->script('scriptaculous');

    echo $scripts_for_layout;
?>
```

Baris ke 33 dan 35 akan load script **prototype.js** dan **scriptaculous.js**

Ajax Link

Sekarang kita sudah boleh menggunakan AJAX dalam sistem

Untuk membolehkan AJAX berfungsi, kita perlu enablekan Ajax Helper dan RequestHandler Component di dalam ExamplesController

```php
<?php
class ExamplesController extends AppController {
    var $name = 'Examples';
    var $uses = null;
    var $helpers = array('Ajax');
    var $components = array('RequestHandler');

    function index(){
    }

    function get_link(){
        $this->autoRender = false;
        echo 'http://azrilnazli.blogspot.com';
    }
}
```

Action get_link() berfungsi untuk memberi data menggunakan AJAX. Baris 12, **$this->autoRender = FALSE** digunakan untuk memberitahu CakePHP supaya tidak render view secara automatik. Seterusnya ubah **fail APP/views/examples/index.ctp**

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```php
1   <?php
2   $example1 = $ajax->link(
3       $title   = 'Ajax Link', // link title
4       $url     = '/examples/get_link',  // link url
5       $options = array( 'update' => 'show_link' ) // DOM ID
6   );
7   ?>
8
9   <table style="width:900px">
10      <tr>
11          <th style="width:300px">Link</th>
12          <th style="width:50px">Loader</th>
13          <th style="width:650px">Result</th>
14      </tr>
15
16      <tr>
17          <td><?php echo $example1; ?></td>
18          <td></td>
19          <td>
20              <div id="show_link"></div>
21          </td>
22      </tr>
23  </table>
```

Kod untuk APP/views/examples/index.ctp

Link	Loader	Result
Ajax Link		http://azrilnazli.blogspot.com
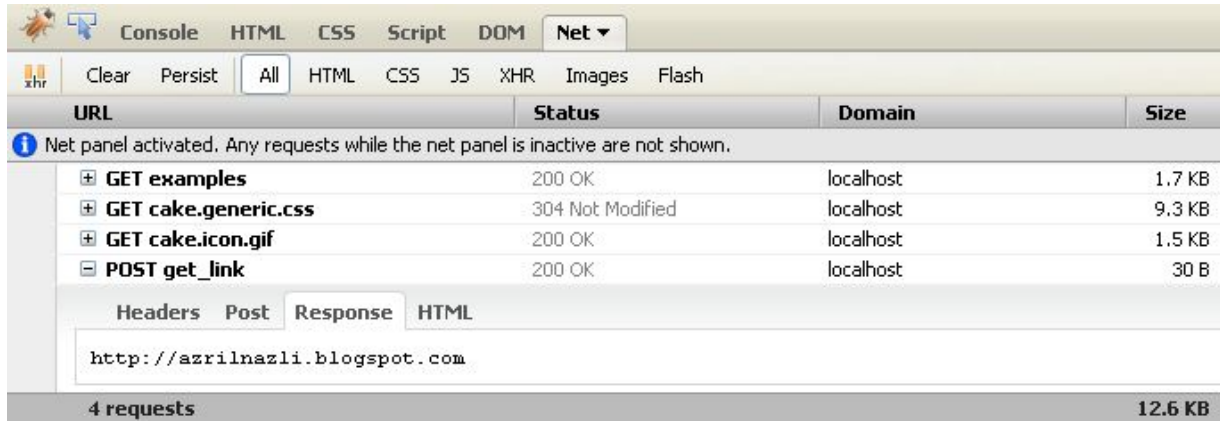
Cuba buka alamat http://localhost/ajax/examples dan klik Ajax Link, di coumn Result akan dipaparkan nilai data yang dihantar oleh action **get_link()**

Kini anda telah berjaya menghasilkan Ajax Link yang mudah.

Firebug

Jika anda menggunakan Mozilla Firefox dengan Firebug Plugin, cuba lihat data yang di hantar dalam tab Response

Jika link diklik, methd POST digunakan, dan response yang dikembalikan ialah apa yang dipaparkan dalam column Result.

. Untuk install Firebug, sila download di http://getfirebug.com

Ajax Link : Output Image

Seterusnya, mari kita cuba hantar response untuk paparkan gambar.

```
16    function get_image(){
17        $this->autoRender = false;
18        App::import('Helper','Html');
19        $html = new HtmlHelper();
20        echo $html->image('cake.power.gif');
21    }
```

Tambah action get_image() dalam ExamplesController

```
9   // link output image
10  $example2 = $ajax->link(
11      $title   = 'Ajax Link output image', // link title
12      $url     = '/examples/get_image',  // link url
13      $options = array( 'update' => 'show_image' ) // DOM ID
14  );
```

Tambah kod $example2 dalam APP/views/examples/index.ctp. Kodnya lebih kurang sama dengan $example1 Cuma ubah nilai variable $url sahaja dan update ke DOM ID = show_image

```
34  <tr>
35      <td><?php echo $example2; ?></td>
36      <td></td>
37      <td>
38          <div id="show_image"></div>
39      </td>
40  </tr>
```

Tambah kod untuk paparkan $example2 di dalam Table.

Link	Loader	Result
Ajax Link		http://azrilnazli.blogspot.com
Ajax Link output image		CAKEPHP POWER

Buka alamat http://localhost/ajax/examples/index.ctp dan cuba klik **Ajax Link output image**. Gambar logo CakePHP akan terpapar di bahagian Result

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Ajax Options

$option keys	Description
$options['evalScripts']	Determines if script tags in the returned content are evaluated. Set to *true* by default.
$options['frequency']	The number of seconds between interval based checks.
$options['indicator']	The DOM id of an element to show while a request is loading and to hide when a request is completed.
$options['position']	To insert rather than replace, use this option to specify an insertion position of *top*, *bottom*, *after*, or *before*.
$options['update']	The id of the DOM element to be updated with returned content.
$options['url']	The url of the controller/action that you want to call.
$options['type']	Indicate whether the request should be 'synchronous' or 'asynchronous' (default).
$options['with']	A URL-encoded string which will be added to the URL for get methods or in to the post body for any other method. Example: x=1&foo=bar&y=2. The parameters will be available in $this->params['form'] or available in $this->data depending on formatting. For more information see the Prototype Serialize method.

Rajah di atas adalah nilai-nilai $options yang digunakan untuk menghasilkan skrip Ajax. Buat masa ini, kita baru menggunakan :

- indicator
- update
- url

Ajax Link : Hantar Variable POST & GET

Bagaimana untuk menghantar variable menggunakan Ajax ? Contohnya untuk passing nilai ID ?

```
23   function get_params(){
24       $this->autoRender = false;
25       debug($this->params['form']);
26   }
```

Tambah action get_params() dalam Examples Controller

```
29   // simple link with parameter
30   $example4 = $ajax->link(
31       $title   = 'Ajax Link with params', // link title
32       $url     = '/examples/get_params',  // link url
33       $options = array(
34               'update' => 'show_link_param', // result dom id
35               'indicator' => 'loader_param', // loader dom id
36               'with' => "'title=Website Saya&url=http://azrilnazli.blogspot.com'",
37               )
38   );
```

Tambah $example4 dalam fail APP/views/examples/index.ctp. Perhatikan line 36, kita menggunakan **$options['with']** untuk hantar variable.

Link	Loader	Result
Ajax Link		
Ajax Link output image		
Ajax Link with loader		
Ajax Link with params		ajax\controllers\examples_controller.php (line 25)

```
Array
(
    [title] => Website Saya
    [url] => http://azrilnazli.blogspot.com
)
```

Buka /examples/index menggunakan browser dan klik **Ajax Link with Params.** Parameter telah berjaya dihantar ke action get_params() dan boleh diakses menggunakan array **$this->params['form']**

Anda juga boleh access data yang dihantar menggunakan $_POST kerana Ajax Link menghantar data menggunakan http POST,

```
23   function get_params(){
24       $this->autoRender = false;
25       #debug($this->params['form']);
26       debug($_POST);
27   }
```

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Alternatif lain untuk menghantar data, boleh guna cara di bawah

```
29    // simple link with parameter
30    $example4 = $ajax->link(
31        $title   = 'Ajax Link with params', // link title
32        $url     = array(
33                    'action' => 'get_params',
34                    'title'  => 'Website Saya',
35                    'url'    => 'azrilnazli.blogspot.com'
36                    ),
37        $options = array(
38                    'update' => 'show_link_param', // result dom id
39                    'indicator' => 'loader_param', // loader dom id
40                    //'with' => "'title=Website Saya&url=http://azrilnazli.blogspot.com'",
41                    )
42    );
```

Data akan dihantar mengikut format CakePHP dan untuk mengaksesnya , perlu menggunakan array $this->passedArgs di dalam Controller,

```
23    function get_params(){
24        $this->autoRender = false;
25        #debug($this->params['form']);
26        #debug($_POST);
27        debug($this->passedArgs);
28    }
```

Ajax Link with params

ajax\controllers\examples_controller.php (line 27)

```
Array
(
    [title] => Website Saya
    [url] => azrilnazli.blogspot.com
)
```

Hasil debug($this->passedArgs);

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Ajax Link : Update Multiple DIVs

Ada situasi di mana anda perlu update beberapa posisi div. Mungkin DIV1 untuk paparkan status seperti 'Updated,Failed' dan DIV 2 paparkan nilai yang dihantar olect Controller.

Letak kod berikut di dalam ExamplesController

```
30          # APP/views/examples/two_divs.ctp
31          function two_divs(){
32              $content['first']   = 'first div ';
33              $content['second']  = 'second div ';
34              $this->set(compact('content'));
35          }
```

APP/controllers/examples_controller.php

Cipta VIEW untuk action two_divs() dan save sebagai APP/views/.examples/two_divs.ctp

```
1   <?php
2   # first div
3   echo $ajax->div('first');
4       echo $content['first'];
5   echo $ajax->divEnd('first');
6
7   # second div
8   echo $ajax->div('second');
9       echo $content['second'];
10  echo $ajax->divEnd('second');
11  ?>
```

Pastikan nama div sama dengan nama div yang ingin di update dalam index.ctp.

Buka fail APP/views/examples/index.ctp dan letak kod di bawah,

```
44  // multiple divs Update
45  $example5 = $ajax->link(
46      $title   = 'Multiple DIVs Update', // link title
47      $url     = array(
48                  'action' => 'two_divs',
49                  ),
50      $options = array(
51                  'update' => array('first','second'), // multiple in array
52                  'indicator' => 'loader_multiple', // loader dom id
53                  )
54  );
55
```

Baris ke 51 menunjukkan saya menggunakan array() untuk memberi nilai DIV yang akan diupdate. Pastinak nama DIV sama dengan nilai di dalam fail APP/views/examples/two_divs.ctp.

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```
106      <tr>
107          <td><?php echo $example5; ?></td>
108          <td>
109              <div id="loader_multiple" style="display:none">
110                  <?php echo $this->Html->image('loader.gif'); ?>
111              </div>
112          </td>
113          <td>
114              <div id="first" style="color:red"></div>
115              <div id="second" style="color:green"></div>
116          </td>
117      </tr>
```

Tambah row untuk Example 5. Perhatikan baris 114 dan 115. Nama DOM ID ialah first dan second dan warna berlainan diberi dalam CSS.

Link	Loader	Result
Ajax Link		
Ajax Link output image		
Ajax Link with loader		
Ajax Link with params		
Multiple DIVs Update		first div second div

Buka browser dan hasilnya adalah seperti di atas. Nilai untuk DIV=first berwarna merah dan DIV=second berwarna hijau.

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Ajax Link Confirmation box
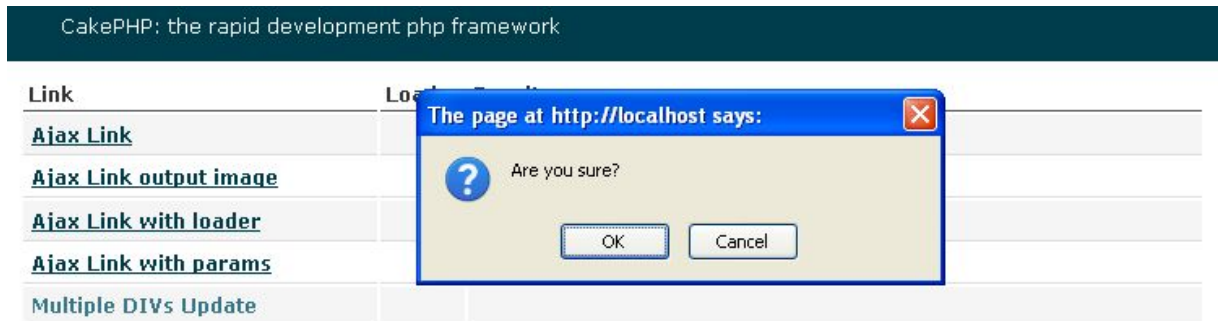
Bagaimana jika kita ingin confirmation box seperti di atas ?

```
44   // multiple divs Update
45   $example5 = $ajax->link(
46       $title   = 'Multiple DIVs Update', // link title
47       $url     = array(
48                       'action' => 'two_divs',
49                       ),
50       $options = array(
51                       'update' => array('first','second'), // multiple in array
52                       'indicator' => 'loader_multiple', // loader dom id
53                       ) ,
54       $confirm = 'Are you sure? ' // confirmation box
55   );
```

Kemaskini kod untuk Example 5, sila tambah baris 54.

Ajax Remote Function

Fungsi ini hampir sama dengan $ajax->link, contohnya anda ingin update status, dapatkan data dengan menggunakan Javascript method seperti onClick on MouseOver

```
37    function get_time(){
38        $this->autoRender = false;
39        App::import('Helper','Time');
40        $time = new TimeHelper();
41        echo $time->nice(time());
42    }
```

Tambah a action get_time() dalam Examples Helper, fungsi ini akan memberikan nilai waktu terkini

```
58    // remote function
59    $example6 = $ajax->remoteFunction(
60            array(
61            'url' => array( 'action' => 'get_time' ),
62            'indicator' => 'loader_example6', // loader dom id
63            'update' => 'example6' )
64        );
```

Tambah kod $example5 dalam APP/views/examples/index.ctp

```
129    <tr>
130        <td><?php echo $form->button('Get Time', array('onclick' => $example6 ) ); ?></td>
131        <td>
132            <div id="loader_example6" style="display:none">
133                <?php echo $this->Html->image('loader.gif'); ?>
134            </div>
135        </td>
136        <td>
137            <div id="example6"></div>
138        </td>
139    </tr>
```

Tambah kod HTML untuk Example 6, APP/views/examples/index.ctp

Link	Loader	Result
Ajax Link		
Ajax Link output image		
Ajax Link with loader		
Ajax Link with params		
Multiple DIVs Update		
Get Time		Sat, Aug 21st 2010, 11:18

Advanced CakePHP : CakePHP Ajax Registration Form

Ajax Remote Timer

Fungsi ini akan update DOM ID mengikut timer dalam kiraan saat. Contohnya anda membuat satu sistem untuk update jumlah user yang online pada masa yang ditentukan. Contoh di bawah akan update masa terkini setiap 5 saat.

```
67    // remote timer
68    $example7 = $ajax->remoteTimer(
69            array(
70                'url' => array( 'action' => 'get_time' ),
71                'indicator' => 'loader_example7', // loader dom id
72                'frequency' => 5,
73                //'complete' => 'alert( "request completed" )',
74                //'position' => 'bottom',
75                'update' => 'example7',
76            )
77    );
```

frequency   bermaksud ajax akan update dalam N saat yang ditentukan.

```
152    <tr>
153        <td>5 secs update <?php echo $example7; ?></td>
154        <td>
155            <div id="loader_example7" style="display:none">
156                <?php echo $this->Html->image('loader.gif'); ?>
157            </div>
158        </td>
159        <td>
160            <div id="example7"></div>
161        </td>
162    </tr>
```

Letak kod HTML container untuk Example 7

Get Time		Sat, Aug 21st 2010, 12:19
5 secs update		Sat, Aug 21st 2010, 12:27

Hasil di browser. Setiap 5 saat, Example7 akan update nilai masa

Ajax Form

Ajax Form berfungsi seperti Form Helper yang normal, cuma datang yang dihantar menggunakan Ajax.

```
44      function example8(){
45          $this->autoRender = false;
46          debug($this->data);
47      }
```

Tulsi kod di atas dalam Examples Controller. Data yang diterima akan diletakkan dalam debug()

```
163    <tr>
164        <td>
165            <?php echo  $ajax->form(
166                              $url='example8',
167                              $type = 'post',
168                              $options = array(
169                                      'model'=>'Example',
170                                      'update'=>'example8',
171                                      'indicator' => 'loader_example8',
172                                      )
173                          ); ?>
174            <?php echo $form->text('title'); ?>
175            <?php echo $form->submit('SEND'); ?>
176            <?php echo $form->end(); ?>
177        </td>
178        <td>
179            <div id="loader_example8" style="display:none">
180                <?php echo $this->Html->image('loader.gif'); ?>
181            </div>
182        </td>
183        <td>
184            <div id="example8"></div>
185        </td>
186    </tr>
```

Tambah kod di atas dalam Container Example.

$type merujuk kepada cara data di hantar (post atau get)

$options['model'] merujuk kenapa jenis Model data akan disusun, Model.fieldname

```
cubaan

[SEND]
```

ajax\controllers\examples_controller.php (line 46)

```
Array
(
    [Example] => Array
        (
            [title] => cubaan
        )

)
```

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Ajax Submit

Hampir serupa dengan Ajax Form, tetapi kali ini menggunakan Submit button untuk menghantar data.

```
187    <tr>
188        <td>
189            <?php echo $form->create('Example'); ?>
190            <?php echo $form->text('title'); ?>
191            <?php echo $ajax->submit('Submit', array(
192                                    'url'=> array( 'action'=>'example8'),
193                                    'update' => 'example9',
194                                    'indicator' => 'loader_example9',
195                                    )
196                                ); ?>
197            <?php echo $form->end(); ?>
198        </td>
199        <td>
200            <div id="loader_example9" style="display:none">
201                <?php echo $this->Html->image('loader.gif'); ?>
202            </div>
203        </td>
204        <td>
205            <div id="example9"></div>
206        </td>
207    </tr>
```

Tambah kod di atas dalam Container Example. Kod ini menggunakan kembali action example8()

```
test

[Submit]
```

```
ajax\controllers\examples_controller.php (line 46)

Array
(
    [Example] => Array
        (
            [title] => test
        )

)
```

Hasil di dalam browser

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Ajax Field Observer

Fungsi ini antara paling banyak digunakan dalam aplikasi. Contoh paling mudah ialah jika anda mempunyai select field untuk pilih negeri, kemudian keluar daerah yang berkaitan

```php
54    function get_daerah(){
55        // data from ajax observer
56        switch( $this->data['Example']['negeri'] ){
57            case 1:
58                $options = array('Batu Pahat','Johor Bahru', 'Kluang' );
59            break;
60            case 2:
61                $options = array('Puchong','Dengkil', 'Sepang' );
62            break;
63            case 3:
64                $options = array('Batu Berendam','Ayer Keroh' );
65            break;
66        }
67        // used in APP/views/examples/get_data.ctp
68        $this->set(compact('options'));
69    }
```

Salin kod di atas dalam Examples Controller. Kod ini akan menerima input dari Ajax Field Observer, jika nilai 1, akan menggunakan nilai $options dalam case 1.

```php
1    <?php
2    // display negeri drop down
3    echo $form->input('Example.daerah', array(
4                        'type' => 'select',
5                        'options' => $options,
6                        ));
7    ?>
```

Nilai $options dalam Examples::get_daerah() akan digunakan dalam view di dalam fail APP/views/examples/get_daerah.ctp untuk menunjukkan daerah yang di bawah negeri yang dipilih.

```
209    <tr>
210        <td>
211            <?php echo $form->create('Example'); ?>
212            <?php $options = array(
213                                '1' =>'Johor',
214                                '2' => 'Selangor',
215                                '3' =>'Melaka',
216                                );
217                echo $form->input('negeri', array(
218                                        'type' => 'select',
219                                        'options' => $options,
220                                        'id' => 'my_state'
221                                        ));
222            ?>
223            <?php echo $form->end(); ?>
224            <?php
225                echo $ajax->observeField( 'my_state',
226                array(
227                    'url' => array( 'action' => 'get_daerah' ),
228                    'frequency' => 0.2,
229                    'indicator' => 'loader_example10',
230                    'update' => 'example10'
231                )
232                );
233            ?>
234        </td>
235        <td>
236            <div id="loader_example10" style="display:none">
237                <?php echo $this->Html->image('loader.gif'); ?>
238            </div>
239        </td>
240        <td>
241            <div id="example10"></div>
242        </td>
243    </tr>
```

Salin kod di atas dalam APP/views/examples/index.ctp dalam container Example.

$ajax->observeField() akan mengambil nilai DOM ID my_state. Jika ada perubahan, data tersebut akan dihantar ke action my_daerah dan kemudiannya akan update DOM ID example10, yang akhirnya akan paparkan dropdown untuk negeri.

Negeri
Johor

Daerah
Batu Pahat
Batu Pahat
Johor Bahru
Kluang

Hasil dalam browser.

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> ℹ observeField uses the same options as link

The field to send up can be set using $options['with']. This defaults to Form.Element.serialize('$fieldId'). Data submitted is available at $this->data inside your controllers. Callbacks can be used with this function.

> ℹ To send up the entire form when the field changes use $options['with'] = Form.serialize($('Form ID'))

Contoh di atas hanya menghantar 1 field sahaj, jika anda ingin menghantar seluruh form, gunakan $options['with'] = Form.serialize($('ExampleIndexForm'))

Ajax Observe Form

observeForm(string $form_id, array $options)

Similar to observeField(), but operates on an entire form identified by the DOM id $form_id. The supplied $options are the same as observeField(), except the default value of the $options['with'] option evaluates to the serialized (request string) value of the form.

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Ajax AutoComplete

AutoComplete memudahkan pengguna kerana sistem akan memberi suggestion/cadangan. Jadi kita akan buat sistem carian nama Contacts. Untuk iti mari kina bina table untuk model Contact. Bina database bernama cake guna phpMyAdmin dahulu

Arahan untuk cipta database : cake bake db_config

```
C:\WINDOWS\system32\cmd.exe                              _ □ ×

C:\xampplite\htdocs\ajax>cake schema generate

Welcome to CakePHP v1.3.3 Console
---------------------------------------------------------------
App : ajax
Path: C:\xampplite\htdocs\ajax
---------------------------------------------------------------
Cake Schema Shell
---------------------------------------------------------------
Generating Schema...
Schema file: schema.php generated
```
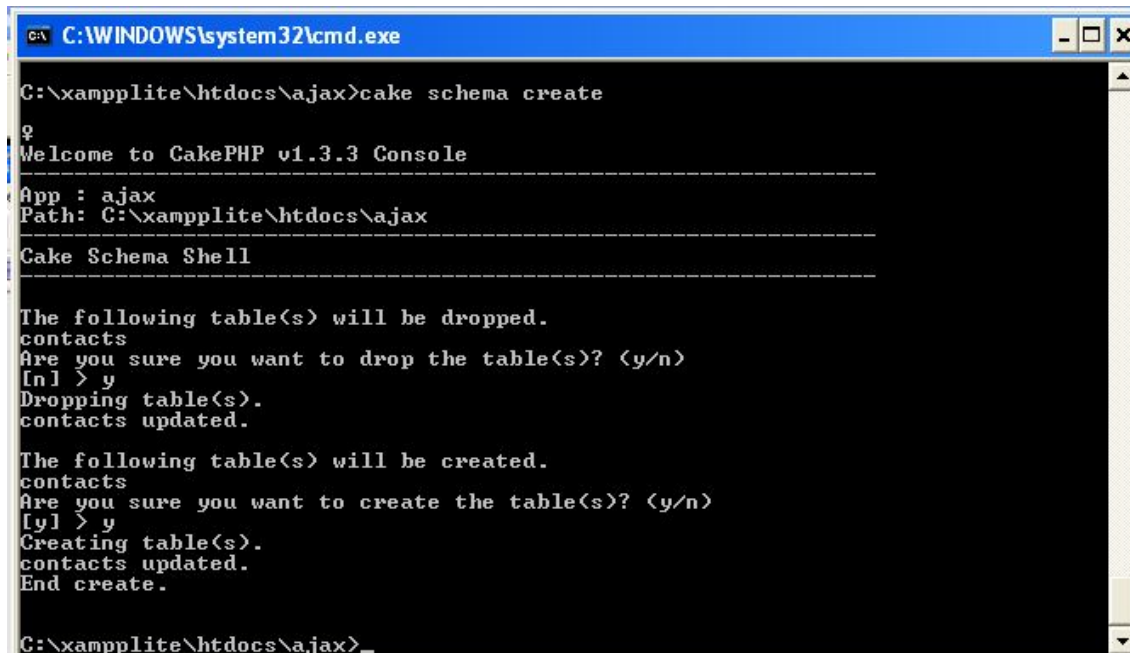
Arahan bina schema : cake schema generate

```php
1   <?php
2   /* SVN FILE: $Id$ */
3   /* Ajax schema generated on: 2010-08-21 16:08:29 : 1282407629*/
4   class AjaxSchema extends CakeSchema {
5       var $name = 'Ajax';
6
7       function before($event = array()) {
8           return true;
9       }
10
11      function after($event = array()) {
12      }
13
14      var $contacts = array(
15          'id' => array('type'=>'integer', 'key' => 'primary'),
16          'name' => array('type'=>'string'),
17          'email' => array('type'=>'string'),
18      );
19  }
20  ?>
```

Edit file APP/config/schema/schema.php dan tambah kod dari baris 14 – 18

Advanced CakePHP : CakePHP Ajax Registration Form

Seterusnya import schema ke database : cake schema create

Mari bake Contact : cake bake contact

Advanced CakePHP : CakePHP Ajax Registration Form

Contacts

Id	Name ⁝	Email
3	ariana	ariana@localhost
1	azril	azril.nazli@gmail.com
2	borhan	borhan@localhost
4	cek mon	mondok@localhost

Page 1 of 1, showing 4 records out of 4 total, starting on record 1, ending on 4

<< previous | | next >>

Buka http://localhost/ajax/contacts dan tambah contact anda.

```
71   function get_contacts() {
72       //Partial strings will come from the autocomplete field as
73       //$this->data['Contact']['name']
74       $this->loadModel('Contact');
75       $this->set('contacts', $this->Contact->find('all', array(
76               'conditions' => array(
77                   'Contact.name LIKE' => $this->data['Contact']['name'].'%'
78               ),
79               'fields' => array('name','email')
80       )));
81   }
```

Tambah action di atas dalam Examples Controller di APP/controllers/examples_controller.php

```
1   <ul>
2       <?php foreach($contacts as $c): ?>
3           <li><?php echo $c['Contact']['name']; ?></li>
4       <?php endforeach; ?>
5   </ul>
```

Cipta fail APP/views/examples/get_contacts.ctp

Advanced CakePHP : CakePHP Ajax Registration Form

```
245    <tr>
246        <td>
247        <style>
248            div.auto_complete    {
249                position         :absolute;
250                width            :250px;
251                background-color :white;
252                border           :1px solid #888;
253                margin           :0px;
254                padding          :0px;
255            }
256            li.selected    { background-color: #ffb; }
257        </style>
258        <?php
259            echo $ajax->autoComplete('Contact.name', '/examples/get_contacts');
260        ?>
261        </td>
262        <td>
263            <div id="loader_example11" style="display:none">
264                <?php echo $this->Html->image('loader.gif'); ?>
265            </div>
266        </td>
267        <td>
268            <div id="example11"></div>
269        </td>
270    </tr>
```

Akhir sekali letak kod di atas dalam container Examples di APP/views/examples/index.ctp

```
a
 • azril
 • ariana
```

Cuba letak carian a,atau b atau c. Secara automatik Ajax->AutoComplete() akan listkan data berkaitan di bawah.

Sistem Pendaftaran Menggunakan AJAX

Kita akan membina sistem pendaftaran yang mempunyai data seperti di bawah

- Nama penuh
- No Kad Pengenalan
- Alamat
- Daerah
- Negeri
- Negara
- Email
- Laman Web

Ciri-ciri sistem

- Data disimpan dalam table bernama **registrations**
- Data dari NRIC membolehkan data berikut diperoleh :
  1. Jantina
  2. Negeri lahir
  3. Umur
  4. Tarikh Lahir
- Dapatkan nilai koordinat dalam format WGS-84 menggunakan khidmat Geocoding dari Google Map Web Service
- Plotkan semua pengguna menggunakan Google Map
- Nilai Negeri,Daerah dan Negara disusun menggunakan teknik **Tree Behavior**

Tree Behavior

URL : http://book.cakephp.org/view/91/Tree

Behavior ini membolehkan data boleh mempunyai sub-kategori tanpa had menggunakan teknik MPTT (http://dev.mysql.com/tech-resources/articles/hierarchical-data.html)
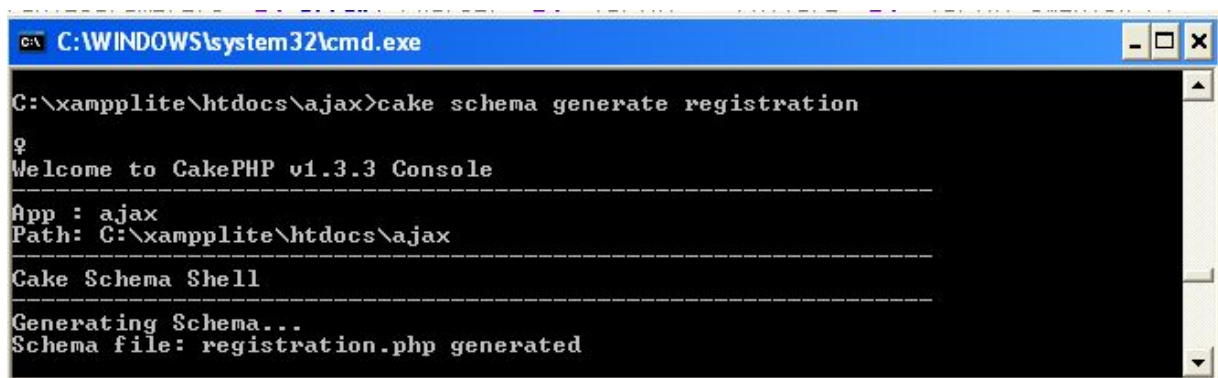
Untuk membina sistem penyusunan Negara-Negeri-Daerah, kita akan menggunakan Tree Behavior

Syarat asas untuk Tree Behavior , bina 3 fields seperti di bawah

- parent - default fieldname is parent_id, to store the id of the parent object
- left - default fieldname is lft, to store the left value of the current row.
- right - default fieldname is rght, to store the right value of the current row.

Cake schema generate registration

Bina fail skema untuk table registration

Edit fail APP/config/schema/registration.php dan ubah seperti di bawah :

```php
1  <?php
2  /* SVN FILE: $Id$ */
3  /* registration schema generated on: 2010-09-23 12:09:09 : 1285244769*/
4  class registrationSchema extends CakeSchema {
5      var $name = 'registration';
6
7      function before($event = array()) {
8          return true;
9      }
10
11      function after($event = array()) {
12      }
13
14      var $registrations = array(
15          'id' => array('type' => 'integer', 'null' => false, 'default' => NULL, 'key' => 'primary'),
16          'parent_id'    => array('type' => 'integer', 'null' => true, 'default' => NULL),
17          'lft'      => array('type' => 'integer', 'null' => true, 'default' => NULL),
18          'rght'   => array('type' => 'integer', 'null' => true, 'default' => NULL),
19          'name'       => array('type' => 'string', 'null' => true, 'default' => NULL),
20      );
21  }
22  ?>
```

Kemudian laksanakan arahan di bawah :
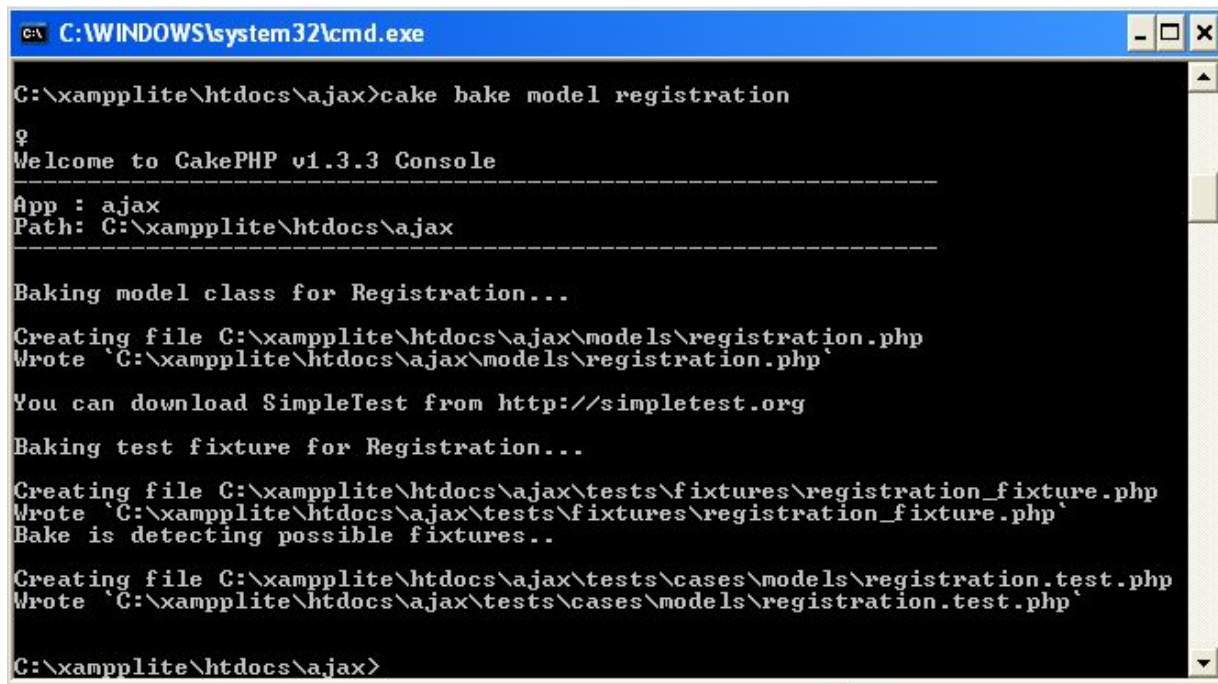
```
C:\WINDOWS\system32\cmd.exe                              _ □ ×

C:\xampplite\htdocs\ajax>cake schema create registration

Welcome to CakePHP v1.3.3 Console
---------------------------------------------------------------------
App : ajax
Path: C:\xampplite\htdocs\ajax
---------------------------------------------------------------------
Cake Schema Shell
---------------------------------------------------------------------

The following table(s) will be dropped.
registrations
Are you sure you want to drop the table(s)? (y/n)
[n] > y
Dropping table(s).
registrations updated.

The following table(s) will be created.
registrations
Are you sure you want to create the table(s)? (y/n)
[y] > y
Creating table(s).
registrations updated.
End create.
```

Advanced CakePHP : CakePHP Ajax Registration Form

Bina Model untuk Registration

Edit fail APP/models/registration.php dan letak kod $actsAs('Tree');
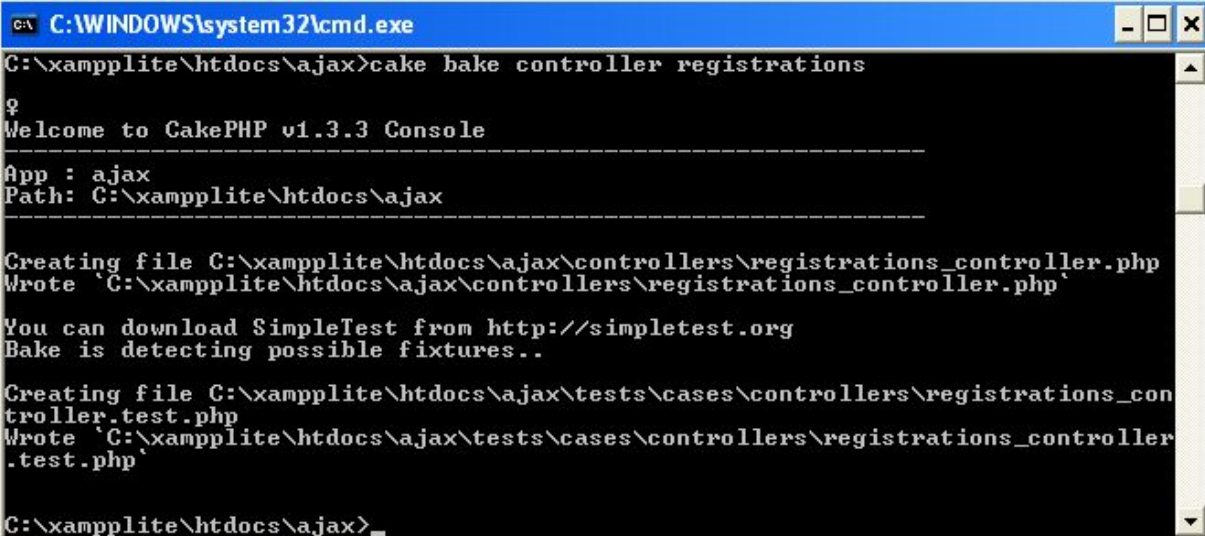
```php
<?php
class Registration extends AppModel {
    var $name = 'Registration';
    var $actsAs = array('Tree');
}
?>
```

Left dan right merujuk kepada nama field untuk node lft/rgt dalam table registrations

Generate fail Controller untuk Registrations

Bina rangka actions untuk Registration Controller di APP/controllers/registrations_controller.php

```php
1  <?php
2  class RegistrationsController extends AppController {
3
4      var $name = 'Registrations';
5      //var $scaffold;
6
7      function index(){
8      }
9
10     function add(){
11     }
12
13     function edit(){
14     }
15
16     function delete(){
17     }
18
19  }
20  ?>
```

Buat folder registrations di dalam APP/views/

Kita akan bina sistem untuk index dahulu

Advanced CakePHP : CakePHP Ajax Registration Form

```
 7    function index(){
 8        $registrations = $this->Registration->generateTreeList(
 9                                                 null,
10                                                 null,
11                                                 '{n}.Registration.name',
12                                                 '   '
13                                             );
14        $this->set('registrations', $registrations);
15    }
```

Tambah kod di atas di dalam index() action

Cipta fail baru bernama APP/views/registrations/index.ctp dan letak kod seperti berikut :

```
 1    <h2>Registration Management</h2>
 2    <div class="index">
 3
 4    <style>
 5    ul {
 6        list-style: none;
 7        }
 8    li {
 9        padding:2px;
10        }
11    </style>
12    <ul>
13    <?php foreach($registrations as $c):?>
14    <li><?php echo $c; ?></li>
15    <?php endforeach; ?>
16    </ul>
17    </div>
18
19    <div class="actions">
20    <ul>
21    <li><?php echo $html->link('Add','/registrations/add'); ?> </li>
22    <li><?php echo $html->link('Update','/registrations/edit'); ?> </li>
23    <li><?php echo $html->link('Delete','/registrations/delete'); ?></li>
24    </ul>
25    </div>
```

Seterusnya, buat action untuk Add, tambah kod berikut di dalam Registration Controller

```php
17    function add(){
18        if(!empty($this->data)){
19            if($this->Registration->save($this->data)){
20                $this->Session->setFlash('Data Added');
21                $this->data['Registration']['name'] = '';
22            } else {
23                $this->Session->setFlash('Failed');
24            }
25        }
26        $registrations = $this->Registration->generateTreeList(null,null,null, '___');
27        $this->set('registrations', $registrations);
28
29    }
```

Tambah kod di bawah dan save sebagai APP/views/registrations/add.ctp

```php
1    <h2>Registration Management</h2>
2    <div class="index">
3        <fieldset style="margin-top:20px">
4        <legend>Add Data</legend>
5            <?php echo $html->getCrumbs(' > ','Home'); ?>
6            <?php echo $form->create('Registration'); ?>
7            <?php echo $form->input('id'); ?>
8            <?php echo $form->input('parent_id', array(
9                                        'type' => 'select',
10                                       'options' => $registrations,
11                                       'empty' => 'ROOT')
12                                       ); ?>
13            <?php echo $form->input('name'); ?>
14    <?php echo $form->end('Create'); ?>
15        </fieldset>
16    </div>
17
18    <div class="actions">
19    <ul>
20        <li><?php echo $html->link('Home','/registrations/index'); ?> </li>
21        <li><?php echo $html->link('Add','/registrations/add'); ?> </li>
22        <li><?php echo $html->link('Delete','/registrations/delete'); ?></li>
23    </ul>
24    </div>
```

Seterusnya untuk fungsi edit, tambah kod seperti di bawah :

```
31    function edit(){
32        if(!empty($this->data)){
33            if($this->data['Registration']['update'] == 1){
34                if($this->Registration->save($this->data)){
35                    $this->Session->setFlash('Data Updated');
36                    $this->data['Registration']['name'] = '';
37                } else {
38                    $this->Session->setFlash('Failed');
39                }
40                $this->redirect('index');
41            }
42            $this->data = $this->Registration->findById($this->data['Registration']);
43        }
44        $registrations = $this->Registration->generateTreeList(null,null,null, '___');
45        $this->set('registrations', $registrations);
46    }
```

Dan tambah kod berikut sebagai APP/views/registrations/edit.ctp

```
1    <h2>Registration Management</h2>
2    <div class="index">
3    <fieldset style="margin-top:20px">
4     <legend>Choose Data</legend>
5     <?php echo $form->create('Registration'); ?>
6     <?php echo $form->input('id'); ?>
7    <?php echo $form->input('Registration', array(
8                                           'type' => 'select',
9                                           'options' => $registrations,
10                                          'empty' => 'ROOT')
11                                          ); ?>
12    <?php //debug($this->data);?>
13    <?php if($this->data): ?>
14        <?php echo $form->input('parent_id', array(
15                                          'type' => 'select',
16                                          'options' => $registrations,
17                                          'empty' => 'ROOT')
18                                          ); ?>
19        <?php echo $form->input('name'); ?>
20        <?php echo $form->hidden('update', array('value' => 1)); ?>
21    <?php endif; ?>
22    <?php echo $form->end('Update'); ?>
23    </fieldset>
24    </div>
25
26    <div class="actions">
27    <ul>
28        <li><?php echo $html->link('Home','/registrations/index'); ?> </li>
29        <li><?php echo $html->link('Add','/registrations/add'); ?> </li>
30        <li><?php echo $html->link('Update','/registrations/edit'); ?> </li>
31        <li><?php echo $html->link('Delete','/registrations/delete'); ?></li>
32    </ul>
33    </div>
```

Seterusnya untuk action Delete, sila tambah kod berikut :

```
48    function delete(){
49        if(!empty($this->data)){
50            if($this->Registration->delete($this->data['Registration']['id'])){
51                $this->Session->setFlash('Data Deleted');
52            } else {
53                $this->Session->setFlash('Failed');
54            }
55            $this->redirect('index');
56        }
57        $registrations = $this->Registration->generateTreeList(null,null,null, '___');
58        $this->set('registrations', $registrations);
59
60    }
```

Dan view untuk delete adalah seperti berikut, APP/views/registrations/delete.ctp

```
1    <h2>Registration Management</h2>
2    <div class="index">
3    <fieldset style="margin-top:20px">
4    <legend>Choose Data</legend>
5    <?php echo $form->create('Registration'); ?>
6    <?php echo $form->input('id'); ?>
7    <?php echo $form->input('Registration', array(
8                                        'type' => 'select',
9                                        'options' => $registrations,
10                                       'empty' => 'ROOT')
11                                       ); ?>
12   <?php echo $form->end('Delete'); ?>
13   </fieldset>
14   </div>
15
16   <div class="actions">
17   <ul>
18       <li><?php echo $html->link('Home','/registrations/index'); ?> </li>
19       <li><?php echo $html->link('Add','/registrations/add'); ?> </li>
20       <li><?php echo $html->link('Update','/registrations/edit'); ?> </li>
21       <li><?php echo $html->link('Delete','/registrations/delete'); ?></li>
22   </ul>
23   </div>
```

Uji sistem

1. Buka alamat http://localhost/ajax/registrations dan tambah data
2. Cuba tambah data secara sub-kategori
3. Cuba edit data sedia ada
4. Cuba delete data

Contoh Index Page

Contoh Update Data

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Contoh Delete

Contoh tambah dara di bawah Parent Wilayah Persekutuan

Advanced CakePHP : CakePHP Ajax Registration Form

Kesimpulan

Dengan cara menggunakan Tree Behavior, kita dapat membina sistem yang membolehkan kita menyusun data secara dinamik dan mempunyai sub kategori tanpa had. Sistem di atas adalah versi asas, and aboleh tambah ciri-ciri berikut seperti :

- Ordering system
- Search System

Kegunaan Tree Behavior yang baru kita cipta ialah untuk menyusun data yang akan digunakan dalam borang pendaftaran seperti

- States
- Sexes
- Religions
- Races

Registration Management

Add

Update

Delete

States
  Malaysia
    Wilayah Persekutuan
      Putrajaya
      Labuan
Sex
  Male
  Female
Race
  Malay
  Chinese
  Indian
Religion
  Islam
  Buddha
  Hindu
  Christian

Contoh data yang telah ditambah dan akan digunakan dalam borang pendaftaran

Borang Pendaftaran Peserta

Borang yang akan kita bina akan mempunyai ciri-ciri berikut

-   Setiap fields akan mempunyai beberapa validations seperti
    1. fullname tidak kurang dari 5 dan tidak lebih dari 20 aksara
    2. email mesti dalam format yang betul
    3. No NRIC dalam format yang betul
    4. nickname tidak boleh duplicate
    5. pilihan secara dinamik untuk Negara, Negeri dan Daerah
    6. Dropdown untuk agama,bangsa dan jantina

Seterusnya, kita akan cipta skema bernama subscriber. Menggunakan Cake CLI cipta skema tersebut

```
C:\xampplite\htdocs\ajax>cake schema generate subscriber
q
Welcome to CakePHP v1.3.3 Console
---------------------------------------------------------------
App : ajax
Path: C:\xampplite\htdocs\ajax
---------------------------------------------------------------
Cake Schema Shell
---------------------------------------------------------------
Generating Schema...
Schema file: subscriber.php generated

C:\xampplite\htdocs\ajax>
```

Edit fail APP/config/schema/subscriber.php seperti berikut
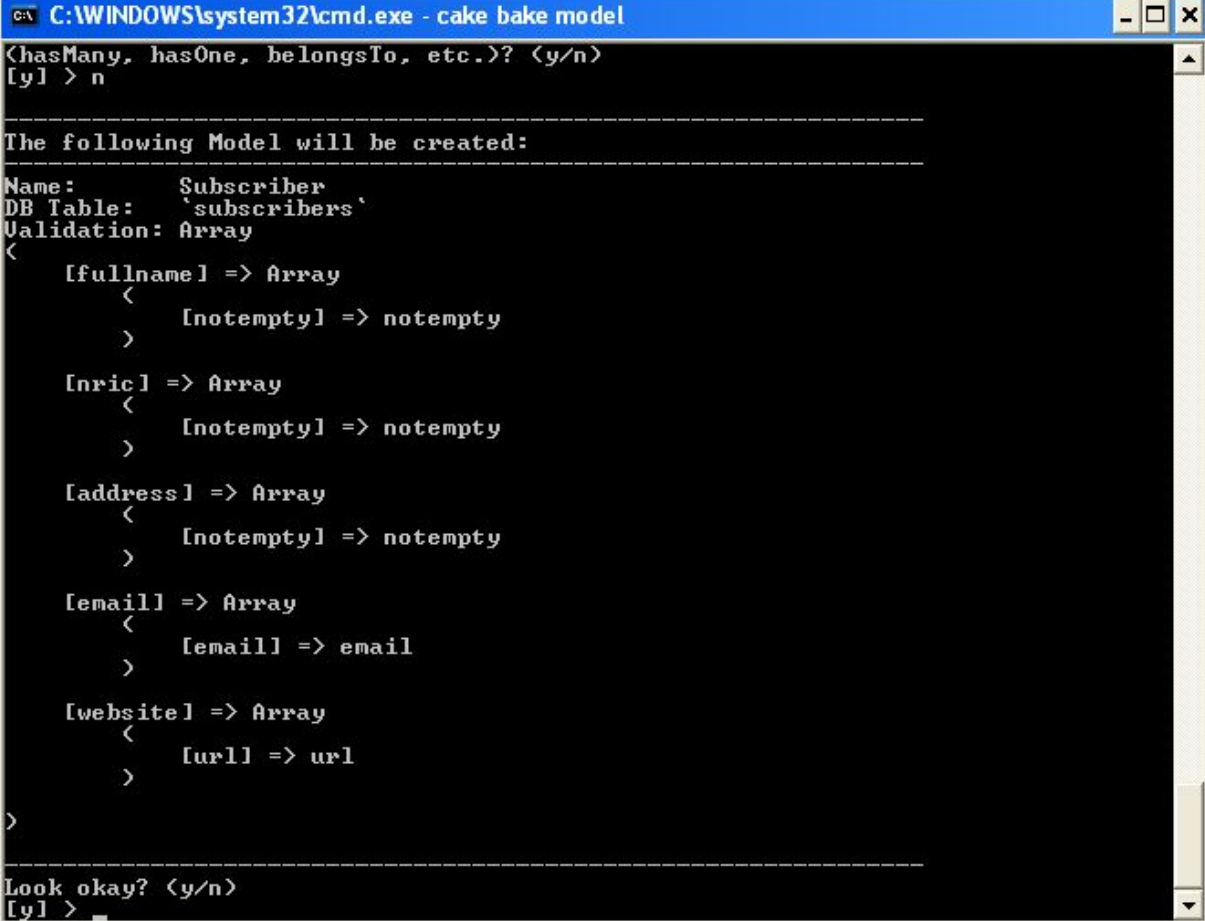
```php
<?php
/* SVN FILE: $Id$ */
/* subscriber schema generated on: 2010-09-24 15:09:32 : 1285340432*/
class subscriberSchema extends CakeSchema {
    var $name = 'subscriber';

    function before($event = array()) {
        return true;
    }

    function after($event = array()) {
    }

    var $subscribers = array(
        'id' => array('type' => 'integer', 'null' => false, 'default' => NULL, 'key' => 'primary'),
        'fullname' => array('string', 'null' => true, 'default' => NULL),
        'nric' => array('string', 'null' => true, 'default' => NULL),

        'address' => array('string', 'null' => true, 'default' => NULL),
        'geocoded' => array('tinyint', 'null' => true, 'default' => 0),
        'lng' => array('string', 'null' => true, 'default' => NULL),
        'lat' => array('string', 'null' => true, 'default' => NULL),

        'country' => array('string', 'null' => true, 'default' => NULL),
        'state' => array('string', 'null' => true, 'default' => NULL),
        'district' => array('string', 'null' => true, 'default' => NULL),

        'race' => array('string', 'null' => true, 'default' => NULL),
        'gender' => array('string', 'null' => true, 'default' => NULL),
        'religion' => array('string', 'null' => true, 'default' => NULL),

        'email' => array('type' => 'string', 'null' => true, 'default' => NULL),
        'website' => array('string', 'null' => true, 'default' => NULL),

    );
}
?>
```

PasteBin : http://pastebin.com/4efnT6Hq

Advanced CakePHP : CakePHP Ajax Registration Form

Kemudian jalan kan arahan cake bake model (pilih model Subscriber dan tetapkan validation seperti berikut)

PasteBin : http://pastebin.com/qdg3ZCBF

Kita akan menggunakan Registrations Controller dan menggunakan action baru bernama 'form'.
Letak kod berikut di dalam APP/controllers/registrations_controller.php

```php
62      function form(){
63          $this->LoadModel('Subscriber');
64
65          // $options from dropdown menu
66          $countries = $this->__options('States');
67          $religions = $this->__options('Religion');
68          $races = $this->__options('Race');
69          $sexes = $this->__options('Sex');
70          $this->set(compact('countries','religions','races','sexes'));
71
72      }
73
74      // $options generator
75      function __options($name = null){
76          // dropdown from states
77          $parent =  $this->Registration->findByName($name);
78          $options = $this->Registration->children($parent['Registration']['id'], $direct = true);
79          return Set::combine($options, '{n}.Registration.name', '{n}.Registration.name');
80      }
```

PasteBin : http://pastebin.com/hgZggiwd

Buat 2 actions, form() dan __options(). Fungsi private function options() ialah untuk generate array()
dalam format yang betul untuk digunakan oleh Form::select() Helper.

Seterusnya bina fail APP/views/registrations/form.ctp dan letak kod berikut :

```
1    <fieldset>
2        <legend>Registration Form</legend>
3            <?php echo $form->create('Registration'); ?>
4            <?php echo $form->input('fullname'); ?>
5            <?php echo $form->input('nric'); ?>
6
7            <?php echo $form->input('address'); ?>
8
9            <?php echo $form->input('email'); ?>
10           <?php echo $form->input('website'); ?>
11           <?php echo $form->input('country', array(
12                                          'type' => 'select',
13                                          'options' => $countries,
14                                          'empty' => 'Select Country')
15                                          ); ?>
16
17           <?php echo $form->input('race', array(
18                                          'type' => 'select',
19                                          'options' => $races,
20                                          'empty' => 'Select Race')
21                                          ); ?>
22
23           <?php echo $form->input('religion', array(
24                                          'type' => 'select',
25                                          'options' => $religions,
26                                          'empty' => 'Select Religion')
27                                          ); ?>
28
29           <?php echo $form->input('gender', array(
30                                          'type' => 'select',
31                                          'options' => $sexes,
32                                          'empty' => 'Select Gender')
33                                          ); ?>
34
35
36       <?php echo $form->end('Register'); ?>
37    </fieldset>
```

PasteBin : http://pastebin.com/zeHVxE5t

Ralat : Gantikan $form->create() dgn kod di bawah:

```
4        <?php echo $form->create('Subscriber',
5                                  array('url' =>
6                                          array(
7                                              'controller' => 'registrations',
8                                              'action' => 'form'
9                                          )));
10       ?>
```

Advanced CakePHP : CakePHP Ajax Registration Form

Uji sistem pendaftaran di http://localhost/ajax/registrations/form

Saya menggunakan Select Form untuk data Country,Race,Religion dan Gender. Kesemua data tersebut dikawal oleh TreeBehavior yang digunakan dalam model Registration.

Tambah kod berikut di dalam Registrations Controller

```php
124        // ajax validator
125        function validator(){
126            $this->autoRender = FALSE;
127            $this->LoadModel('Subscriber');
128
129            if (!$this->Subscriber->save($this->data, array('validate' => 'only'))) {
130                $error = $this->Subscriber->invalidFields();
131                list($key, $value) = each ($error);
132                echo "<div class='error-message'>$value</div>";
133            }
134        }
135
136
137        // geocode address
138        function __geocode($address = null){
139            $address = urlencode(stripslashes($address));
140            $location = @file("http://maps.google.com/maps/geo?q=$address&output=csv");
141
142            // Sample - $location[0]="200,8,51.369318,-2.133457";
143            list ($status,$accuracy,$lng,$lat) = explode(',',$location[0]);
144            if($status == 200){
145                $location['lng'] = $lng;
146                $location['lat'] = $lat;
147                return $location;
148            } else {
149                return FALSE;
150            }
151        }
```

Validator() ~ digunakan untuk validate single field menggunakan AJAX

__geocode() ~ untuk dapatkan nilai Longitude dan Latitude dari alamat yang diberi

Tambah Helper dan Component untuk membolehkan Ajax berfungsi

```php
1    <?php
2    class RegistrationsController extends AppController {
3
4        var $name = 'Registrations';
5        //var $scaffold;
6        var $components = array('RequestHandler');
7        var $helpers = array('Ajax');
8
```

Tambah kod di bawah di dalam Registration Controller

```
82        // geocode given address
83        function getCoordinate(){
84            if( $coords = $this->__geocode($address = $this->data['Subscriber']['address'])){
85                $this->set('coords', $coords);
86            } else {
87                $this->autoRender = FALSE;
88                echo 'Cannot get coordinate';
89            }
90        }
```

Action getCoordinate() akan digunakan oleh Ajax untuk medapatkan kordinat Subscriber

Seterusnya letak kod berikut sebagai View untuk getCoordinate,
APP/views/registrations/get_coordinate.ctp

```
1   <table style="width:400px">
2   <tr>
3       <th>Longitude</th>
4       <th>Latitude</th>
5   </tr>
6   <tr>
7       <td><?php echo $coords['lng'];?></td>
8       <td><?php echo $coords['lat'];?></td>
9   </tr>
10  </table>
11  <?php
12  echo $form->hidden('Subscriber.lng', array('value' => $coords['lng']));
13  echo $form->hidden('Subscriber.lat', array('value' => $coords['lat']));
14  ?>
```

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Letak kod berikut di dalam Registrations Controller

```
92      // generate state based on given id
93      function getState(){
94          //debug($this->data);
95          if(!empty($this->data['Subscriber']['country'])){
96              $states = $this->__options($this->data['Subscriber']['country']);
97          } else {
98              $states = null;
99          }
100         $this->set('states', $states);
101     }
102     // generate district based on given id
103     function getDistrict(){
104         if(!empty($this->data['Subscriber']['state'])){
105             $districts = $this->__options($this->data['Subscriber']['state']);
106         }else{
107             $districts = null;
108         }
109         $this->set('districts', $districts);
110     }
```

getState() digunakan untuk mendapatkan nilai States berdasarkan Country, dan getDistrict() akan dapatkan nilai Districts berdasarkan nilai State yang diberi. Seterusnya untuk getState() View, letak kod berikut,

```
1   <?php
2   $state =  $form->input('Subscriber.state', array(
3                                       'type' => 'select',
4                                       'options' => $states,
5                                       'empty' => 'Select State',
6                                       'label' => false
7                                       )
8                   );
9   $state_ajax = $ajax->observeField( 'SubscriberState',
10      array(
11          'url' => array( 'action' => 'getDistrict' ),
12          'frequency' => 0.2,
13          'indicator' => 'loader',
14          'update' => 'district'
15      )
16  );
17  echo $state;
18  echo $state_ajax;
19  ?>
```

APP/views/registrations/get_state.ctp

Dan VIEW untuk getDistrict() pula seperti berikut :

```php
1   <?php
2   $district = $form->input('Subscriber.district', array(
3                                   'type' => 'select',
4                                   'options' => $districts,
5                                   'empty' => 'Select District',
6                                   'label' => false
7                           )
8                       );
9   echo $district;
10  ?>
```

APP/views/registrations/get_district.ctp

```php
67      function form(){
68          $this->LoadModel('Subscriber');
69          if($this->data){
70              if($this->Subscriber->save($this->data)){
71              }
72          }
73
74          // $options from dropdown menu
75          $countries = $this->__options('States');
76          $religions = $this->__options('Religion');
77          $races = $this->__options('Race');
78          $sexes = $this->__options('Sex');
79          $this->set(compact('countries','religions','races','sexes'));
80      }
```

Ubah kod untuk action form() seperti di atas.

Kod untuk APP/views/registrations/form.ctp adalah seperti berikut,

```
1   <fieldset>
2       <legend>Registration Form  
3
4           <span id="loader" style="display:none">
5               <?php echo $this->Html->image('loader.gif'); ?>
6           </span>
7       </legend>
8
9       <?php echo $form->create('Subscriber',
10                          array('url' =>
11                              array(
12                                  'controller' => 'registrations',
13                                  'action' => 'form'
14                              )));
15      ?>
16
17      <?php echo $form->input('fullname'); ?>
18      <div id="fullname_error"></div>
19      <?php
20       echo $ajax->observeField( 'SubscriberFullname',
21          array(
22              'url' => array( 'action' => 'validator' ),
23              'frequency' => 0.2,
24              'indicator' => 'loader',
25              'update' => 'fullname_error'
26          )
27      );
28      ?>
29      <?php echo $form->input('nric'); ?>
30      <div id="nric_error"></div>
31      <?php
32       echo $ajax->observeField( 'SubscriberNric',
33          array(
34              'url' => array( 'action' => 'validator' ),
35              'frequency' => 0.2,
36              'indicator' => 'loader',
37              'update' => 'nric_error'
38          )
39      );
40      ?>
```

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```php
41
42          <?php echo $form->input('address'); ?>
43          <div id="address_error"></div>
44          <?php
45          echo $ajax->observeField( 'SubscriberAddress',
46              array(
47                  'url' => array( 'action' => 'getCoordinate' ),
48                  'frequency' => 0.2,
49                  'indicator' => 'loader',
50                  'update' => 'address_error'
51              )
52          );
53          ?>
54
55
56          <?php echo $form->input('email'); ?>
57          <div id="email_error"></div>
58          <?php
59          echo $ajax->observeField( 'SubscriberEmail',
60              array(
61                  'url' => array( 'action' => 'validator' ),
62                  'frequency' => 0.2,
63                  'indicator' => 'loader',
64                  'update' => 'email_error'
65              )
66          );
67          ?>
68
69          <?php echo $form->input('website'); ?>
70          <div id="website_error"></div>
71          <?php
72          echo $ajax->observeField( 'SubscriberWebsite',
73              array(
74                  'url' => array( 'action' => 'validator' ),
75                  'frequency' => 0.2,
76                  'indicator' => 'loader',
77                  'update' => 'website_error'
78              )
79          );
80          ?>
```

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```php
82      <?php
83      $country =  $form->input('country', array(
84                                       'type' => 'select',
85                                       'options' => $countries,
86                                       'empty' => 'Select Country',
87                                       'label' => false
88                                       )
89                          );
90      $country_ajax = $ajax->observeField( 'SubscriberCountry',
91          array(
92              'url' => array( 'action' => 'getState' ),
93              'frequency' => 0.2,
94              'indicator' => 'loader',
95              'update' => 'state'
96          )
97      );


99
100     $state =  $form->input('state', array(
101                                      'type' => 'select',
102                                      'options' => array(),
103                                      'empty' => '',
104                                      'label' => false,
105
106                                      )
107                          );
108     $district =  $form->input('district', array(
109                                      'type' => 'select',
110                                      'options' => array(),
111                                      'empty' => '',
112                                      'label' => false
113                                      )
114                          );
115
116     ?>
```

```
118         <table style="width:600px;">
119             <tr>
120                 <th style="width:200px;">Country</th>
121                 <th style="width:200px;">State</th>
122                 <th style="width:200px;">District</th>
123             </tr>
124             <tr>
125                 <td id='country'><?php echo $country; ?><?php echo $country_ajax; ?></td>
126                 <td id='state'><?php echo $state; ?></td>
127                 <td id='district'><?php echo $district; ?></td>
128             </tr>
129         </table>
130         <?php $races = $form->input('race', array(
131                                     'type' => 'select',
132                                     'options' => $races,
133                                     'empty' => 'Select Race',
134                                     'label' => false)
135                                     ); ?>
136         <?php $religions =  $form->input('religion', array(
137                                     'type' => 'select',
138                                     'options' => $religions,
139                                     'empty' => 'Select Religion',
140                                     'label' => false)
141                                     ); ?>
142         <?php $sexes = $form->input('gender', array(
143                                     'type' => 'select',
144                                     'options' => $sexes,
145                                     'empty' => 'Select Gender',
146                                     'label' => false)
147                                     ); ?>
148         <table style="width:600px;">
149             <tr>
150                 <th style="width:200px;">Race</th>
151                 <th style="width:200px;">Religion</th>
152                 <th style="width:200px;">Sex</th>
153             </tr>
154             <tr>
155                 <td id='race'><?php echo $races; ?></td>
156                 <td id='religion'><?php echo $religions; ?></td>
157                 <td id='sex'><?php echo $sexes; ?></td>
158             </tr>
159         </table>
160     <?php echo $form->end('Register'); ?>
161 </fieldset>
```

PasteBin Form View: http://pastebin.com/eQaZG3Nv

PasteBin Registration Controller : http://pastebin.com/mevFNVBU

PasteBin Subscriber Model : http://pastebin.com/z4NLHvxG

Advanced CakePHP : CakePHP Ajax Registration Form

Tambah data dalam /registrations/index supaya meyerupai berikut

Registration Management

Add

Update

Delete

States
   Malaysia
      Wilayah Persekutuan
        Putrajaya
        Labuan
      Selangor
        Sepang
        Petaling Jaya
        Klang
Sex
   Male
   Female
Race
   Malay
   Chinese
   Indian
Religion
   Islam
   Buddha
   Hindu
   Christian

Kemudian buka http://localhost/ajax/registrations/form

Kesemua error di atas dihasilkan secara automatik menggunakan AJAX.

Latihan

1. Bina kod untuk estrak data dari NRIC dan paparkan data yang diperoleh di dalam HTML Table
2. Cuba embed Google Map mengikut koordinat yang diperolehi menggunakan IFRAME
3. Ubahsuai supaya Form dihantar menggunakan AJAX dan terus paparkan maklumat selepas berjaya hantar
4. Tambah validation supaya jika user tidak memilih nilai DropDown akan hasilkan ERROR