

Modul 5 : Form Input

5.1 Tujuan

Setelah mengikuti praktikum ini mahasiswa diharapkan dapat:

1. Membuat berbagai input form meliputi file, date, date time, dsb
2. Mengerti konsep menyimpan file / dokumen di code igniter
3. Mengerti cara menampilkan dokumen melalui link url

5.2 Alat & Bahan

Alat & Bahan Yang digunakan adalah hardware perangkat PC beserta Kelengkapannya berjumlah 40 PC serta Software xampp, framework CI, notepad++ yang telah terinstall pada masing-masing PC.

5.3 Skenario

Pada modul ini akan dibuat sebuah form input berupa file, date, date time, maupun radio button dan check list. Diharapkan mahasiswa dapat mengerti dan mengimplementasikan berbagai jenis form input dan menginputkan ke database serta menampilkan hasilnya dalam bentuk data tables.

5.4 Pengamatan

5.4.1 Menginstall *plug-in* data tables

Data tables adalah sebuah jquery yang memungkinkan kita untuk memfilter jumlah data, mencari sesuatu di dalam tabel dan pagination dengan mudah.

Batasan
Jml baris

| Show | 10 | entries | Search: To | | |
|--|-------------------------|---------------|------------|------------|-------------------|
| Name | Position | Office | Age | Start date | |
| Airi Satou | Accountant | Tokyo | 33 | 2008/11/28 | |
| Ashton Cox | Junior Technical Author | San Francisco | 66 | 2009/01/12 | |
| Charde Marshall | Regional Director | San Francisco | 36 | 2008/10/16 | |
| Donna Snider | Customer Support | New York | 27 | 2011/01/25 | |
| Garrett Winters | Accountant | Tokyo | 63 | 2011/07/25 | |
| Gloria Little | Systems Administrator | New York | 59 | 2009/04/10 | |
| Hermione Butler | Regional Director | London | 47 | 2011/03/21 | |
| Jackson Bradshaw | Director | New York | 65 | 2008/09/26 | |
| Jennifer Chang | Regional Director | Singapore | 28 | 2010/11/14 | |
| Lael Greer | Systems Administrator | London | 21 | 2009/02/27 | |
| Name | Position | Office | Age | Start date | |
| Showing 1 to 10 of 17 entries (filtered from 57 total entries) | | | | | Previous 1 2 Next |

Search seluruh
Field secara
dinamis

Pagination

Javascript

HTML

CSS

Comments (0)

The following CSS library files are loaded for use in this example to provide the styling of the table:

<https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-beta1/dist/css/bootstrap.min.css>

<https://cdn.datatables.net/1.10.23/css/dataTables.bootstrap5.min.css>

Javascript

HTML

CSS

Comments (0)

The Javascript shown below is used to initialise the table shown in this example:

```

1 $(document).ready(function() {
2     $('#example').DataTable();
3 } );

```

In addition to the above code, the following Javascript library files are loaded for use in this example:

<https://code.jquery.com/jquery-3.5.1.js>
<https://cdn.datatables.net/1.10.23/js/jquery.dataTables.min.js>
<https://cdn.datatables.net/1.10.23/js/dataTables.bootstrap5.min.js>

Tambahkan js dan css yang dibutuhkan di **HeaderBootstrap.php**

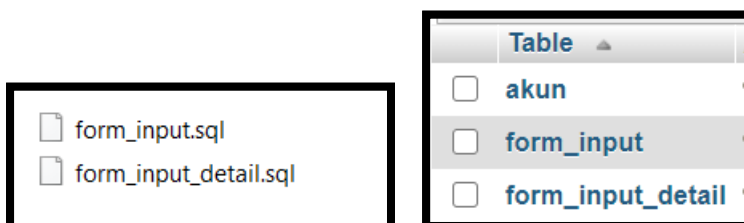
```

app > Views > HeaderBootstrap.php
1 <!doctype html>
2 <html lang="en">
3 <head>
4 <meta charset="utf-8">
5 <meta name="viewport" content="width=device-width, initial-scale=1">
6 <meta name="description" content="">
7 <meta name="author" content="Mark Otto, Jacob Thornton, and Bootstrap contributors">
8 <meta name="generator" content="Hugo 0.80.0">
9 <title>Kosan Milenial</title>
10
11 <link rel="icon" href="<? = base_url('images/icon.jpg') ?>" type="image/gif" sizes="16x16">
12 <link rel="canonical" href="https://getbootstrap.com/docs/5.0/examples/dashboard/">
13
14
15 <!-- Datatables -->
16 <link href="https://cdn.datatables.net/1.10.23/css/dataTables.bootstrap5.min.css" rel="stylesheet">
17 <script src="https://code.jquery.com/jquery-3.5.1.js"></script>
18 <script src="https://cdn.datatables.net/1.10.23/js/jquery.dataTables.min.js"></script>
19 <script src="https://cdn.datatables.net/1.10.23/js/dataTables.bootstrap5.min.js"></script>
20
21
22 <!-- JQuery masking -->
23 <script src="<? = base_url('jquery/jquery.mask.js') ?>"></script>
24
25 <!-- Icon dan font -->
26 <link href="//netdna.bootstrapcdn.com/font-awesome/3.2.1/css/font-awesome.css" rel="stylesheet">
27

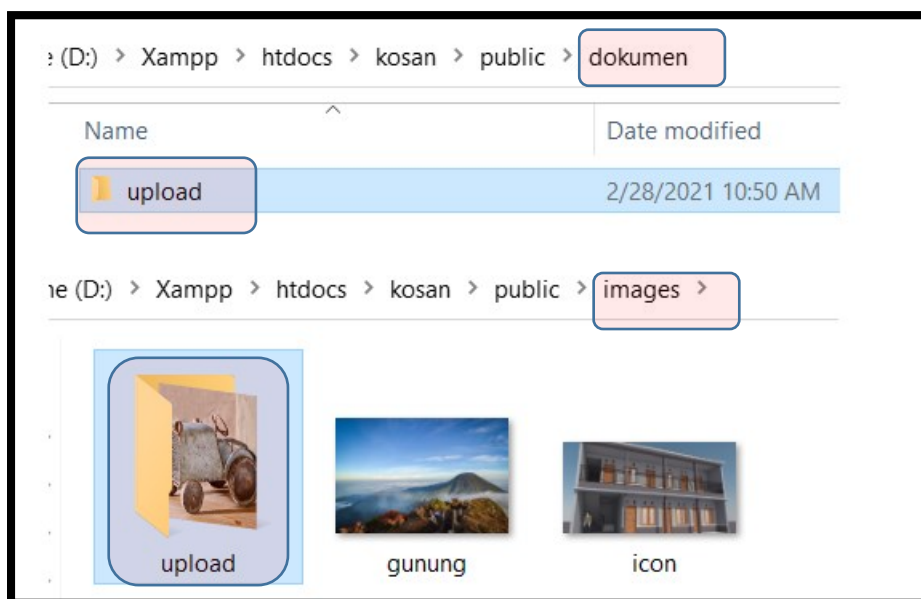
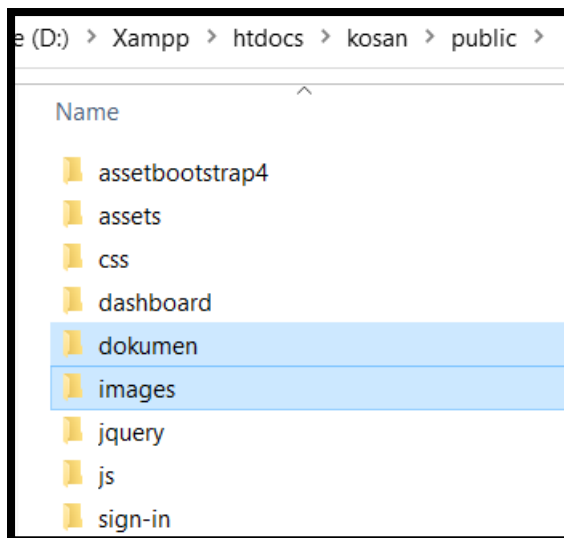
```

5.4.2 Membuat Form Input

Silahkan import dua file yaitu form input dan form_input_detail dan masukkan ke database kosan



Buat sebuah Folder di bawah **public** di bawah yaitu **images** dan **dokumen**



Buat Views untuk input form **ViewFormInput.php**

Input Form

Tanggal

mm/dd/yyyy

Waktu

mm/dd/yyyy --:-- --

Dokumen

Choose File No file chosen

Gambar

Choose File No file chosen

Jenis

☐ Male

☐ Female

☐ Other

Hobi

☐ Musik

☐ Renang

☐ Badminton

Submit

```
<?= form_open_multipart('helloworld/prosesForm') ?>
<div class="mb-3">
  <label for="tanggal" class="form-label">Tanggal</label>
  <input type="date" class="form-control" id="tanggal" name="tanggal" value="<?= set_value('tanggal')?>" placeholder="mm/dd/yyyy" />
</div>
<div class="mb-3">
  <label for="waktu" class="form-label">Waktu</label>
  <input type="datetime-local" class="form-control" id="waktu" name="waktu" value="<?= set_value('waktu')?>" placeholder="mm/dd/yyyy --:-- --" />
</div>
<div class="mb-3">
  <label for="dokumen">Dokumen</label>
  <input type="file" class="form-control" id="dokumen" name="dokumen" value="<?= set_value('dokumen')?>" />
</div>
<div class="mb-3">
  <label for="gambar">Gambar</label>
  <input type="file" class="form-control" id="gambar" name="gambar" value="<?= set_value('gambar')?>" />
</div>
<div class="mb-3">
  <label for="gender">Jenis</label><br>
  <input type="radio" id="male" name="gender" value="male"><label for="male">Male</label><br>
  <input type="radio" id="female" name="gender" value="female"><label for="female">Female</label><br>
  <input type="radio" id="other" name="gender" value="other"><label for="other">Other</label>
</div>
<div class="mb-3">
  <label for="hobi">Hobi</label><br>
  <input type="checkbox" id="hobi[]" name="hobi[]" value="Musik"><label for="hobi1"> Musik</label><br>
  <input type="checkbox" id="hobi[]" name="hobi[]" value="Renang"><label for="hobi2"> Renang</label><br>
  <input type="checkbox" id="hobi[]" name="hobi[]" value="Badminton"><label for="hobi3"> Badminton</label><br>
</div>
<button type="submit" class="btn btn-primary">Submit</button>
</form>
```

Perhatikan bahwa untuk bisa mengupload file ke server, maka form diganti menjadi **form multipart** (jika di ci menggunakan helper form maka menjadi **form_open_multipart**). Hobi adalah checkbox, dimana disimpan sebagai variabel array.

Untuk pengaturan rules dapat melihat kembali pada dokumentasi code igniter

```
// In the HTML
<input type="file" name="avatar">

// In the controller
$this->validate([
    'avatar' => 'uploaded[avatar]|max_size[avatar,1024]'
]);
```

| Rule | Parameter | Description |
|----------|-----------|---|
| uploaded | Yes | Fails if the name of the parameter does not match the name of any uploaded files. |
| max_size | Yes | Fails if the uploaded file named in the parameter is larger than the second parameter in kilobytes (kb). Or if the file is larger than allowed maximum size declared in php.ini config file - <code>upload_max_filesize</code> directive. |
| max_dims | Yes | Fails if the maximum width and height of an uploaded image exceed values. The first p is the field name. The second is the width, and the third is the height. Will also fail if the file cannot be determined to be an image. |
| mime_in | Yes | Fails if the file's mime type is not one listed in the parameters. |
| ext_in | Yes | Fails if the file's extension is not one listed in the parameters. |
| is_image | Yes | Fails if the file cannot be determined to be an image based on the mime type. |

Secara default settingan maximum ukuran file PHP adalah **2M** (bisa dilihat pada **php.ini**)

```
php - Notepad
File Edit Format View Help
; (shebang) at the top of the running script. This line might be needed if the
; script support running both as stand-alone script and via PHP CGI<. PHP in CGI
; mode skips this line and ignores its content if this directive is turned on.
; http://php.net/cgi.check-shebang-line
;cgi.check_shebang_line=1

;;;;;;;;;;;;
; File Uploads ;
;;;;;;;;;;;;

; Whether to allow HTTP file uploads.
; http://php.net/file-uploads
file_uploads=0n

; Temporary directory for HTTP uploaded files (will use system default if not
; specified).
; http://php.net/upload-tmp-dir
upload_tmp_dir="D:\Xampp\tmp"

; Maximum allowed size for uploaded files.
; http://php.net/upload-max-filesize
upload_max_filesize=2M
```

Silahkan rubah ke **10M**, lalu simpan dan **restart servis apache** dan **php spark**

Jika berhasil maka akan diarahkan ke Views **ViewHasilFormInput.php**

Kosan Milenial

Share




Export

This w

Data Form Input

Show 10 entries

Search:

| #Id | Waktu | Dokumen | Gambar | Tanggal | Jenis | Aksi |
|-----|---------------------|-----------------------------------|---|------------|------------------------|--|
| 1 | 2021-02-28 12:00:00 | 603b319d03dd8.pdf |  | 2021-02-04 | Musik Renang | <div><div>Ubah</div><div>Hapus</div></div> |
| 3 | 2021-02-28 07:30:00 | 603b8ce2abde9.pdf |  | 2021-02-27 | Musik Renang Badminton | <div><div>Ubah</div><div>Hapus</div></div> |
| 5 | 2021-02-13 22:02:00 | 603ba6c17a6e0.pdf |  | 2021-02-27 | Musik Renang | <div><div>Ubah</div><div>Hapus</div></div> |

Showing 1 to 3 of 3 entries

Previous

1

```
app > Views > ViewHasilFormInput.php
20 <table id="example" class="table table-striped" style="width:100%">
21 <thead>
22 <tr>
23 <th>#Id</th>
24 <th>Waktu</th>
25 <th>Dokumen</th>
26 <th>Gambar</th>
27 <th>Tanggal</th>
28 <th>Jenis</th>
29 <th>Aksi</th>
30 </tr>
31 </thead>
32 <tbody>
33 <?php
34 //print_r($form_input);
35 foreach($form_input as $row):
36 <?
37 <tr>
38 <td><?=$row->id;></td>
39 <td><?=$row->waktu;></td>
40 <td>
41 <a href="<?php echo base_url('dokumen/upload/'.$row->dokumen) ?>" target="_blank">
42 <?=$row->dokumen;>
43 </a>
44 <td>
45 <a href="<?php echo base_url('images/upload/'.$row->gambar) ?>" target="_blank">
46 
47 </a>
48 </td>
49 <td><?=$row->tanggal;></td>
50 <td><?=$row->list_hobi;></td>
51 <td>
52 <a class="btn btn-success btn-sm" href="<?=$base_url('helloworld/editForm/'.$row->id) ?>" role="button">
53 <i class="icon-edit"></i> Ubah
54 </a>
55 <a onclick="deleteConfirm('<?php echo base_url('helloworld/deleteforminput/'.$row->id) ?>')" class="btn btn-danger btn-sm">
```

Untuk mengupload ke server menggunakan sintak:

```
$avatar = $this->request->getFile('nama_field');
```

```
$avatar->move(ROOTPATH.'public/images/upload', $namafilebaru);
```

```
$avatar = $this->request->getFile('dokumen');
```

```
$avatar->move(ROOTPATH.'public/dokumen/upload', $dok);
```

Dokumen akan diupload dan diletakkan di bawah folder `public/images/upload` untuk gambar dan `public/dokumen/upload`

Di base controller perlu ditambahkan helper filesystem.

```
app > Controllers > BaseController.php
17  *
18  * For security be sure to declare any new methods as protected or private.
19  */
20
21  class BaseController extends Controller
22  {
23      /**
24       * An array of helpers to be loaded automatically upon
25       * class instantiation. These helpers will be available
26       * to all other controllers that extend BaseController.
27       *
28       * @var array
29       */
30      protected $helpers = ['html', 'form', 'url', 'filesystem'];
```

Validasi terhadap proses upload dokumen / file sbb:

```
if (! $this->validate(
[
    'waktu' => 'required',
    'tanggal' => 'required',
    'gender' => 'required',
    'gambar' => [
        'uploaded[gambar]',
        'mime_in[gambar,image/jpg,image/jpeg,image/png]', //dibatasi hanya jpg, jpeg, png
        'max_size[gambar,1024]', //maksimal 1 M
    ],
    'dokumen' => [
        'uploaded[dokumen]',
        'mime_in[dokumen,application/pdf]', //dibatasi hanya pdf
        'max_size[dokumen,10240]', //maksimal 10 M
    ]
],
[ // Errors
    'waktu' => [
        'required' => 'Waktu tidak boleh kosong'
    ],
    'tanggal' => [
        'required' => 'Tanggal tidak boleh kosong'
    ],
    'gender' => [
        'required' => 'Jenis kelamin tidak boleh kosong'
    ]
]
)
){
```

Proses insert ke database

```
public function insertData($dok, $gbr){
    $tanggal = $_POST['tanggal'];
    $gender = $_POST['gender'];
    $hobi = $_POST['hobi'];

    $tgl = substr($_POST['waktu'],0,10); //mengembalikan 2021-02-28
    $wkt = substr($_POST['waktu'],11); //mengembalikan 17:44
    $tgl_wkt = $tgl."-".$wkt."00"; //mengembalikan 2021-02-28 17:44

    $hasil = $this->db->query("INSERT INTO form_input SET tanggal = ?, waktu=?, jenis=?, gambar=? , dokumen=?", array($tanggal,

    //dapatkan id autoincrement dulu
    $dbResult = $this->db->query("SELECT MAX(id) as id_mak FROM form_input");
    $hasil = $dbResult->getResult();
    foreach ($hasil as $row)
    {
        $id_mak = $row->id_mak;
    }

    //karena hoby bisa banyak maka dilooping
    for($i=0;$i<count($hobi);$i++){
        //input ke tabel detail
        $hasil = $this->db->query("INSERT INTO form_input_detail SET id = ?, hobi=?", array($id_mak, $hobi[$i]));
    }

    return $hasil;
}
```

Untuk proses insert hobi, dilakukan setelah menginputkan data ke tabel induk terlebih dahulu

| SELECT * FROM `form_input` | | | | | |
|----------------------------|---------------------|-------------------|-------------------|------------|--------|
| id | waktu | dokumen | gambar | tanggal | jenis |
| 1 | 2021-02-28 12:00:00 | 603b319d03dd8.pdf | 603b319d03dd8.jpg | 2021-02-04 | male |
| 3 | 2021-02-28 07:30:00 | 603b8ce2abde9.pdf | 603b8ce2abde9.jpg | 2021-02-27 | male |
| 5 | 2021-02-13 22:02:00 | 603ba6c17a6e0.pdf | 603bbbb3be604.jpg | 2021-02-27 | female |

| SELECT * FROM `form_input_detail` | |
|-----------------------------------|-----------|
| + Options | |
| id | hobi |
| 1 | Musik |
| 1 | Renang |
| 3 | Musik |
| 3 | Renang |
| 3 | Badminton |
| 5 | Musik |
| 5 | Renang |

Query menampilkan data

```
//mendapatkan data
public function getData(){
    $sql = "SELECT a.*,
        (SELECT group_concat(hobi separator '<br>') FROM form_input_detail b WHERE a.id=b.id) as list_hobi
        FROM form_input a";
    $dbResult = $this->db->query($sql);
    return $dbResult->getResult();
}
```

Untuk proses penghapusan data, maka file yang tersimpan diserver juga ikut dihapus menggunakan perintah unlink seperti berikut:

```
//menghapus data
public function deleteData($id){
    //dapatkan data nama file berdasarkan id file
    $dbResult = $this->db->query("SELECT gambar,dokumen FROM form_input WHERE id = ?", array($id));
    $hasil = $dbResult->getResult();
    foreach ($hasil as $row)
    {
        $nama_file_gambar = $row->gambar;
        $nama_file_dokumen = $row->dokumen;
    }

    //delete file di server
    if(is_file(FCPATH.'dokumen/upload/'.$nama_file_dokumen)){
        unlink(FCPATH.'dokumen/upload/'.$nama_file_dokumen); //delete file dokumen
    }
    if(is_file(FCPATH.'dokumen/upload/'.$nama_file_gambar)){
        unlink(FCPATH.'dokumen/upload/'.$nama_file_gambar); //delete file gambar
    }

    //hapus tabel induknya
    $hasil = $this->db->query("DELETE FROM form_input WHERE id = ?", array($id));

    //hapus tabel anaknya
    $hasil = $this->db->query("DELETE FROM form_input_detail WHERE id = ?", array($id));
}
}
```

5.5 Latihan

Lengkapi tabel master data pada tugas besar kalian dengan :

- Terdapat upload dokumen pada masterdata, cth : master data pegawai dilengkapi upload dokumen foto e-ktip dengan aturan harus dalam format jpg atau png
- Tambahkan field tanggal pada master data, cth: untuk master data pegawai, tambahkan field tanggal lahir menggunakan input type date

DAFTAR PUSTAKA

- Code Igniter 4
- MySQL database