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KELAS TI 2A**

**PROGRAM STUDI TEKNIK INFORMATIKA
JURUSAN TEKNOLOGI INFORMASI
POLITEKNIK NEGERI MALANG
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Topik

Menggunakan DataTables dan DOMPDPF dengan CodeIgniter.

Tujuan

Mahasiswa diharapkan dapat:

1. Memahami cara menggunakan DataTables pada Halaman User dengan CodeIgniter
2. Memahami cara menggunakan DOMPDPF dengan CodeIgniter

Praktikum – Bagian 1: Menggunakan DataTables pada Halaman User

DataTables adalah salah satu *plugin* dari jQuery. DataTable digunakan untuk menampilkan data dalam bentuk *grid* (tabel). DataTable memiliki banyak fitur-fitur interaktif, diantaranya: 1. *Searching* (Pencarian Data), 2. *Paging* (halaman), 3. *Sorting* (mengurutkan Halaman), 4. Batas tampilan data per halaman dalam bentuk *comboBox*

Langkah	Keterangan
1	Untuk menggunakan DataTables kita menyisipkan DataTabels melalui CDN <pre><script src="https://code.jquery.com/jquery-3.1.0.js"></script> <script src="//cdn.datatables.net/1.10.12/js/jquery.dataTables.min.js"></script></pre>
2	Ada 2 cara penggunaan datatables yaitu dengan cara <i>online</i> yaitu dengan cara menyisipkan CDN atau dengan cara offline yaitu dengan cara mendownload pada situs https://datatables.net/
3	Tambahkan <i>code</i> berikut pada <i>controller user</i> <pre>class user extends CI_Controller { public function __construct() { parent::__construct(); \$this->load->helper('url'); \$this->load->helper('form'); \$this->load->model('cetak_model'); \$this->load->model('mahasiswa_model'); // \$this->load->library('session'); // validasi level if(\$this->session->userdata('level')!="user") { redirect('login', 'refresh'); } } public function index() { \$data = array('title' => 'Data Mahasiswa',</pre>

	<pre> 'mahasiswa' => \$this->mahasiswa_model->datatables()); \$this->load->view('template/header_datatables_user', \$data); \$this->load->view('mahasiswa/user', \$data); \$this->load->view('template/footer_datatables_user'); } </pre>
4	<p>Buatlah header_datatables_user dan footer_datatables_user pada views/template</p> <ul style="list-style-type: none"> • header_datatables_user <pre> <!doctype html> <html lang="en"> <head> <!-- Required meta tags --> <meta charset="utf-8"> <meta name="viewport" content="width=device-width, initial- scale=1, shrink-to-fit=no"> <!-- Bootstrap CSS --> <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap /4.1.3/css/bootstrap.min.css" integrity="sha384- MCw98/SFnGE8fJT3GXwEOngsV7Zt27NXFoaoApmYm81iuXoPkFOJwJ8ERdknLPMO" crossorigin ="anonymous"> <title><?= \$title ?></title> <!-- <title>Hello, World!</title --> <title><?= \$title ?></title> <script src="//ajax.googleapis.com/ajax/libs/jquery/1.10.2/jquery.min.js" ></script> <link rel="stylesheet" type="text/css" href="https://cdn.datatables.net/v /dt/dt-1.10.13/datatables.min.css"/> <script type="text/javascript" src="https://cdn.datatables.net/v/dt/dt- 1.10.13/datatables.min.js"></script> </head> <body> <!-- navbar --> <nav class="navbar navbar-expand-lg navbar-light bg-light"> <div class="container"> CI <button class="navbar-toggler" type="button" data-toggle="collapse" data- target="#navbarNavAltMarkup" aria-controls="navbarNavAltMarkup" aria- expanded="false" aria-label="Toggle navigation"> </button> <div class="collapse navbar-collapse" id="navbarNavAltMarkup"> <div class="navbar-nav"> <!-- <a class="nav-item nav- link active" href="<?= base_url(); ?>">Home</a --> </pre>

```

    <a class="nav-item nav-
link" href="<?= base_url(); ?>user/laporan_pdf">Cetak Laporan</a>
    <a class="nav-item nav-
link" href="<?= base_url(); ?>login/logut">Logout</a>
  </div>
</div>
</nav>

```

• footer_datatables_user

```

<script type="text/javascript">
$(document).ready(function() {
    $('#list_mhs').DataTable();
});
</script>
<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/js/bootst
rap.min.js" integrity="sha384-
ChfqqxuZUCnJSK3+MXmPNIyE6ZbWh2IMqE241rYiqJxyMiZ6OW/JmZQ5stwEULTy" crossorigin
="anonymous"></script>
</body>
</html>

```

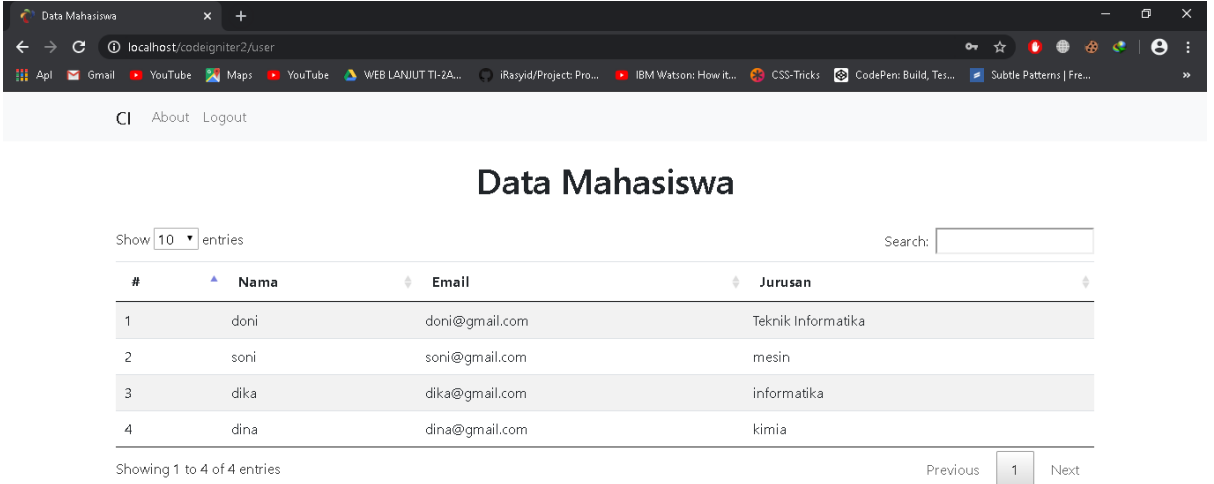
5

Tambahkan *code* berikut pada **views/mahasiswa/user**

```

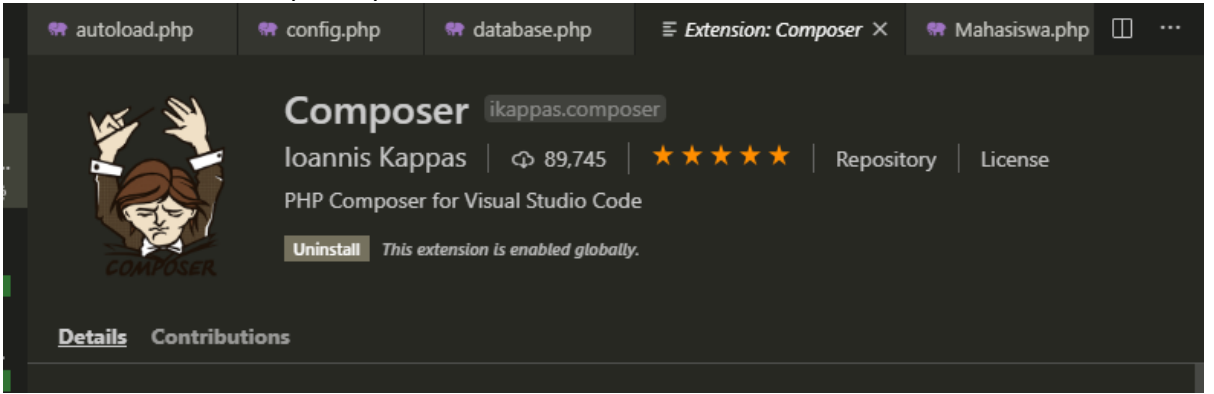
<div class="container" style="margin-top:20px">
  <div class="col-md-12">
    <h1 style="text-align: center; margin-
bottom: 30px"> Data Mahasiswa </h1>
  </div>
  <table class="table table-striped table-bordered" id="list_mhs">
    <thead>
      <tr>
        <th>No</th>
        <th>Nama</th>
        <th>Email</th>
        <th>Jurusan</th>
      </tr>
    </thead>
    <tbody>
      <?php
        $no = 1;
        foreach($mahasiswa as $mhs) {?>
          <tr>
            <td> <?= $no++; ?></td>
            <td> <?= $mhs->nama; ?></td>
            <td> <?= $mhs->email; ?></td>
            <td> <?= $mhs->jurusan; ?></td>
          </tr>
        <?php } ?>
      </tbody>
    </table>

```

	<pre> </table> </div> </pre>
6	<p>Tambahkan function datatables pada mahasiswa_model</p> <pre> public function datatables() { \$query = \$this->db->order_by('id', 'DESC')->get('mahasiswa'); return \$query->result(); } </pre>
7	<p>Hasil</p> 

Praktikum – Bagian 2: Menggunakan DOMPDPF dengan CodeIgniter

Dompdf merupakan salah satu *library* PHP untuk membuat PDF. Dompdf membuat PDF dari HTML, sehingga memudahkan *Programmer* yang biasa menggunakan CSS didalamnya.

Langkah	Keterangan
1	<p>Install extensions Composer pada visualCode</p> 
2	<p>Konfigurasi composer_autoloadnya. Buka file application/config/config.php dan rubah menjadi seperti berikut</p> <pre> \$config['composer_autoload'] = "vendor/autoload.php"; </pre>
3	<p>Selanjutnya proses <i>install</i> dompdf menggunakan <i>composer</i>. Untuk menginstall dompdf menggunakan <i>composer</i> pastikan proses <i>install</i> tersebut pada folder codeIgniter kita. Untuk perintah <i>install</i> dompdfnya seperti berikut</p>

```
composer require dompdf/dompdf
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL 2: powershell + [ ] [X] [X] [X] [X]
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\xampp\htdocs\Code-ketiga> composer require dompdf/dompdf
Deprecation warning: require-dev.mikey179/vfsStream is invalid, it should not contain uppercase characters. Please use mikey179/vfsstream instead. Make sure you fix this as Composer 2.0 will error.
Using version ^0.8.5 for dompdf/dompdf
./composer.json has been updated
Deprecation warning: require-dev.mikey179/vfsStream is invalid, it should not contain uppercase characters. Please use mikey179/vfsstream instead. Make sure you fix this as Composer 2.0 will error.
Loading composer repositories with package information
Updating dependencies (including require-dev)
Package operations: 0 installs, 1 update, 0 removals
- Updating dompdf/dompdf (v0.8.3 => v0.8.5): Downloading (100%)
Package phpunit/phpunit-mock-objects is abandoned, you should avoid using it. No replacement was suggested.
Writing lock file
Generating autoload files
1 package you are using is looking for funding.
Use the `composer fund` command to find out more!
PS C:\xampp\htdocs\Code-ketiga>
PS C:\xampp\htdocs\Code-ketiga>
PS C:\xampp\htdocs\Code-ketiga>
```

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Buatlah file php dengan nama pdf.php pada *libraries*

```
<?php
defined('BASEPATH') OR exit('No direct script access allowed');

use Dompdf\Dompdf;
class pdf extends Dompdf {
    /**
     * PDF filename
     * @var String
     */
    public $filename;
    public function __construct() {
        parent::__construct();
        $this->filename = "laporan.pdf";
    }
    /**
     * Get an instance of CodeIgniter
     *
     * @access protected
     * @return void
     */
    protected function ci()
    {
        return get_instance();
    }
    public function load_view($view, $data = array()) {
        $html = $this->ci()->load->view($view, $data, TRUE);
        $this->load_html($html);
    }
}
```

	<pre> // Render the PDF \$this->render(); // Output the generated PDF to Browser \$this->stream(\$this->filename, array("Attachment" => false)); } } /* End of file ModelName.php */ ?> </pre>
5	<p>Setelah itu kita coba membuat sebuah function pada controller user dengan nama laporan_pdf</p> <pre> public function laporan_pdf() { \$this->load->library('pdf'); \$data['mahasiswa'] = \$this->cetak_model->view(); \$this->load->library('pdf'); \$this->pdf->setPaper('A4', 'potrait'); \$this->pdf->filename = "laporan-mahasiswa.pdf"; \$this->pdf->load_view('mahasiswa/laporan', \$data); } } </pre>
6	<p>Buat modelnya dengan nama cetak_model.php</p> <pre> <?php defined('BASEPATH') OR exit('No direct script access allowed'); class cetak_model extends CI_Model { public function view() { \$this->db->select('nama, email, jurusan'); \$query = \$this->db->get('mahasiswa'); return \$query->result(); } } /* End of file ModelName.php */ ?> </pre> <p>Buat viewnya dengan nama laporan pada folder mahasiswa</p> <pre> <!DOCTYPE html> <html> <head> <title>Report Table</title> <style type="text/css"> #outtable { padding: 20px; border: 1px solid #e3e3e3; </pre>

```

        width: 600px;
        border-radius: 5px;
    }
    .short {
        width: 50px;
    }
    .normal {
        width: 150px;
    }
    table {
        border-collapse: collapse;
        font-family: arial;
        color: #5E5B5C;
    }
    thead th {
        text-align: left;
        padding: 10px;
    }
    tbody td {
        border-top: 1px solid #e3e3e3;
        padding: 10px;
    }
    tbody tr:nth-child(even) {
        background: #F6F5FA;
    }
    tbody tr:hover {
        background: #EAE9F5;
    }
</style>
</head>
<body>
    <div id="outtable">
        <table>
            <thead>
                <tr>
                    <th class="short">#</th>
                    <th class="normal">Nama</th>
                    <th class="normal">Email</th>
                    <th class="normal">Jurusan</th>
                </tr>
            </thead>
            <tbody>
                <?php $no = 1; ?>
                <?php foreach($mahasiswa as $user): ?>
                    <tr>
                        <td><?php echo $no; ?></td>
                        <td><?php echo $user->nama; ?></td>
                        <td><?php echo $user->email; ?></td>
                        <td><?php echo $user->jurusan; ?></td>
                    </tr>
                <?php $no++; ?>
            </tbody>
        </table>
    </div>
</body>
</html>

```



```
                <?php endforeach; ?>
            </tbody>
        </table>
    </div>
</body>
</html>
```

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Buka file **header_datatables_user.php** dan tambahkan *link* cetak laporan pada navbar *line* 30

```
<div class="navbar-nav">
    <a class="nav-item nav-
link active" href="<?= base_url(); ?>">Home <span class="sr-
only">(current)</span></a>
    <a class="nav-item nav-
link" href="<?= base_url(); ?>user/laporan.pdf">cetak laporan</a>
    <a class="nav-item nav-
link" href="<?= base_url(); ?>login/logout">logout</a>
    <!--<a class="nav-item nav-link disabled" href="#">Disabled</a-->
</div>
```

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Jika berhasil maka hasilnya seperti berikut

Report Table

1 / 1

#	Nama	Email	Jurusan
1	dina	dina@gmail.com	kimia
2	dika	dika@gmail.com	informatika
3	soni	soni@gmail.com	mesin
4	doni	doni@gmail.com	Teknik Informatika

-- Selamat Mengerjakan --