

**LAPORAN PRAKTIKUM
PEMROGRAMAN WEB LANJUT**

Jobsheet-6: DataTables User dan DOM PDF



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**POLITEKNIK NEGERI MALANG
JURUSAN TEKNOLOGI INFORMASI
PROGRAM STUDI D4 TEKNIK INFORMATIKA**

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Topik

Menggunakan DataTables dan DOMPdf dengan CodeIgniter.

Tujuan

Mahasiswa diharapkan dapat:

1. Memahami cara menggunakan DataTables pada Halaman User dengan CodeIgniter
2. Memahami cara menggunakan DOMPdf 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 DataLabels 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>application > controllers > user.php 1 <?php 2 3 defined('BASEPATH') OR exit('No direct script access allowed'); 4 5 class user extends CI_Controller { 6 7 public function __construct() { 8 parent::__construct(); 9 \$this->load->helper('url'); 10 \$this->load->helper('form'); 11 \$this->load->model('login_model'); 12 \$this->load->model('mahasiswa_model'); 13 //\$this->load->library('session'); 14 15 //validasi level 16 if(\$this->session->userdata('level')!=\$this->session->userdata('level')){ 17 redirect('login','refresh'); 18 } 19 } 20 21 public function index() 22 { 23 \$data = array (24 'title'=>'data mahasiswa', 25 'mahasiswa'=>\$this->mahasiswa_model->datatables() 26); 27 \$this->load->view('template/header_datatables_user',\$data); 28 \$this->load->view('mahasiswa/user',\$data); 29 \$this->load->view('template/footer_datatables_user'); 30 } 31 } 32 33 /* End of file Controllername.php */ 34 35</pre>

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Buatlah **header_datatables_user** dan **footer_datatables_user** pada **views/template**

• **header_datatables_user**

```
application > views > template > header_datatables_user.php
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4 <!-- Required meta tags -->
5 <meta charset="UTF-8">
6 <meta name="viewport" content="width=device-width, initial-scale=1.0">
7
8 <!-- Bootstrap CSS -->
9 <links rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/css/bootstrap.min.css"
10 integrity="sha384-MCw98/SfNG6E8fJ3TGXwE0ngsV7Zt27NXFoaoApeYm81iuXoPkf0JwJ8ERdknLPM0" crossorigin="anonymous">
11
12 <!-- <title>Hello, world!</title> -->
13 <title><?= $title ?></title>
14
15 <script src="//ajax.googleapis.com/ajax/libs/jquery/1.10.2/jquery.min.js"></script>
16 <link rel="stylesheet" type="text/css" href="https://cdn.datatables.net/v/dt-1.10.13/datatables.min.css"/>
17 <script type="text/javascript" src="https://cdn.datatables.net/v/dt-1.10.13/datatables.min.js"></script>
18 </head>
19 <body>
20
21 <!-- navbar -->
22 <nav class="navbar navbar-expand-lg navbar-light bg-light">
23 <div class="container">
24 <a class="navbar-brand" href="#">CI</a>
25 <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarNavAltMarkup"
26 aria-controls="navbarNavAltMarkup" aria-expanded="false" aria-label="Toggle navigation">
27 </button>
28 <div class="collapse navbar-collapse" id="navbarNavAltMarkup">
29 <div class="navbar-nav">
30 <!-- <a class="nav-item nav-link" href="#">Home</a> -->
31 <a class="nav-item nav-link" href="#">About</a>
32 <a class="nav-item nav-link" href="#">login/logout</a>
33 </div>
34 </div>
35 </div>
36
37 </body>
```

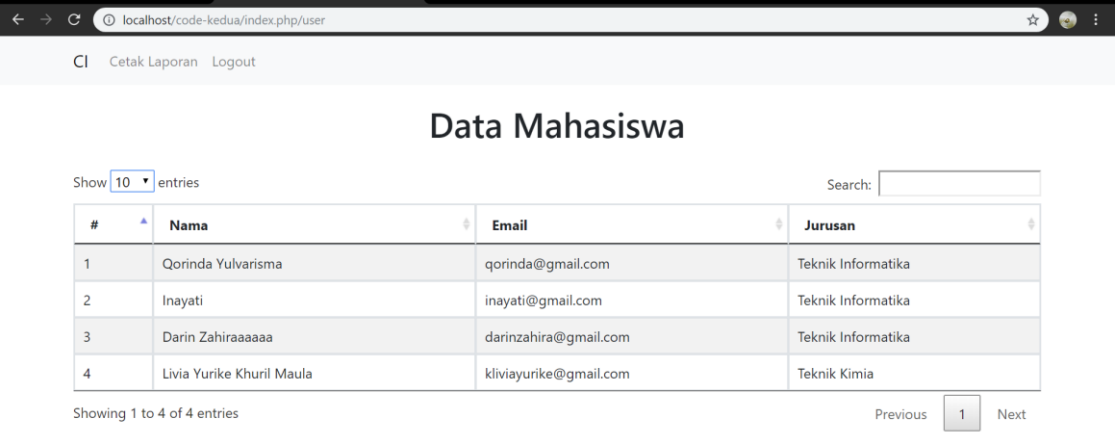
• **footer_datatables_user**

```
application > views > template > footer_datatables_user.php
1 <script type="text/javascript">
2 $(document).ready(function() {
3     $('#list_mhs').DataTable();
4 });
5 </script>
6 <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/js/bootstrap.min.js"
7 integrity="sha384-ChfqqxuZUCnJSK3+MXmPNIyE6ZbWh2IMqE241rYiqJxyMiZ60W/JmZQ55twEULty" crossorigin="anonymous"></script>
8 </body>
9 </html>
```

5

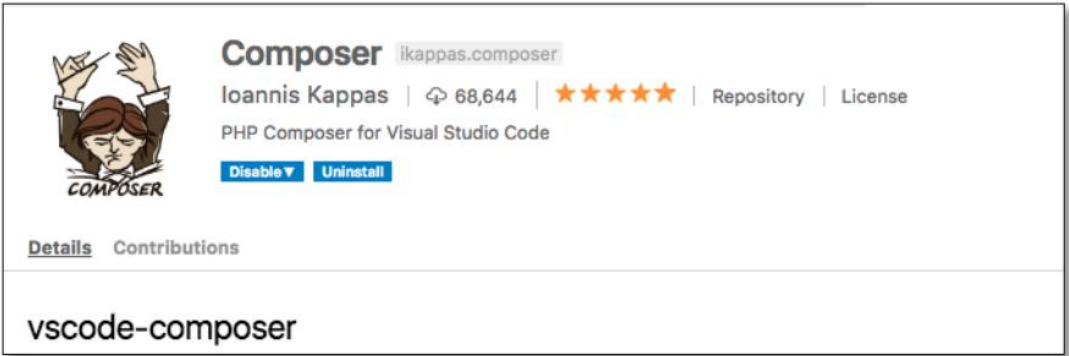
Tambahkan *code* berikut pada **views/mahasiswa/user**

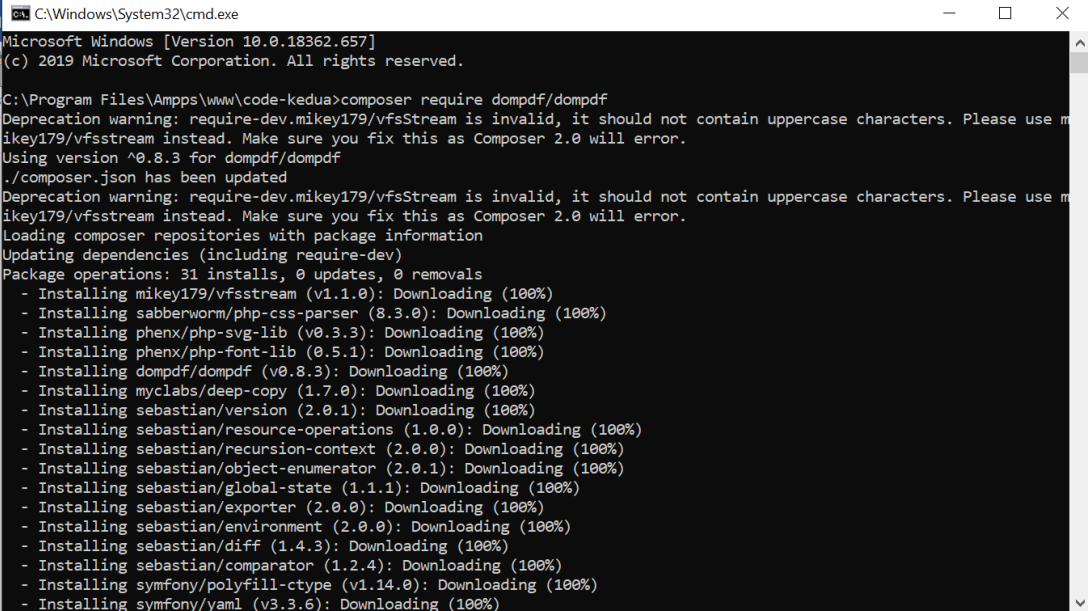
```
application > views > mahasiswa > user.php
1 <div class="container" style="margin-top:20px">
2 <div class="col-md-12">
3 <h1 style="text-align: center; margin-bottom:30px"> Data Mahasiswa </h1>
4 </div>
5 <table class="table table-striped table-bordered" id="list_mhs">
6 <thead>
7 <tr>
8 <th>#</th>
9 <th>Nama</th>
10 <th>Email</th>
11 <th>Jurusan</th>
12 </tr>
13 <tbody>
14 <tbody>
15 <?php
16 $no=1;
17 foreach($mahasiswa as $mhs){?>
18 <tr>
19 <td> <?= $no++> </td>
20 <td> <?= $mhs->nama; ?></td>
21 <td> <?= $mhs->email; ?></td>
22 <td> <?= $mhs->jurusan; ?></td>
23 </tr>
24 <?php } ?>
25
26 </tbody>
27 </table>
28 </div>
```

6	<p>Tambahkan <i>function</i> datatables pada mahasiswa_model</p> <pre> 57 58 public function.datatables() { 59 \$query= \$this->db->order_by('id','DESC')->get('mahasiswa'); 60 return \$query->result(); 61 } 62 </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 <i>Composer</i> pada visualCode</p> 
2	<p>Konfigurasi <i>composer_autoloadnya</i>. Buka file <i>application/config/config.php</i> dan rubah menjadi seperti berikut</p> <pre> 138 */ 139 \$config['composer_autoload'] = "vendor/autoload.php"; 140 141 /* </pre>
3	<p>Selanjutnya proses <i>install</i> <i>dompdf</i> menggunakan <i>composer</i>. Untuk menginstall <i>dompdf</i> menggunakan <i>composer</i> pastikan proses <i>install</i> tersebut pada folder <i>codeIgniter</i> kita. Untuk perintah <i>install</i> <i>dompdfnya</i> seperti berikut</p> <pre> composer require dompdf/dompdf </pre>

	 <pre> C:\Windows\System32\cmd.exe Microsoft Windows [Version 10.0.18362.657] (c) 2019 Microsoft Corporation. All rights reserved. C:\Program Files\Ampps\www\code-kedua>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 ^0.8.3 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: 31 installs, 0 updates, 0 removals - Installing mikey179/vfsstream (v1.1.0): Downloading (100%) - Installing sabberworm/php-css-parser (8.3.0): Downloading (100%) - Installing phenx/php-svg-lib (v0.3.3): Downloading (100%) - Installing phenx/php-font-lib (0.5.1): Downloading (100%) - Installing dompdf/dompdf (v0.8.3): Downloading (100%) - Installing myclabs/deep-copy (1.7.0): Downloading (100%) - Installing sebastian/version (2.0.1): Downloading (100%) - Installing sebastian/resource-operations (1.0.0): Downloading (100%) - Installing sebastian/recursion-context (2.0.0): Downloading (100%) - Installing sebastian/object-enumerator (2.0.1): Downloading (100%) - Installing sebastian/global-state (1.1.1): Downloading (100%) - Installing sebastian/exporter (2.0.0): Downloading (100%) - Installing sebastian/environment (2.0.0): Downloading (100%) - Installing sebastian/diff (1.4.3): Downloading (100%) - Installing sebastian/comparator (1.2.4): Downloading (100%) - Installing symfony/polyfill-ctype (v1.14.0): Downloading (100%) - Installing symfony/yaml (v3.3.6): Downloading (100%) </pre>
4	<p>Buatlah file php dengan nama pdf.php pada <i>libraries</i></p> <pre> application > libraries > pdf.php 1 <?php defined('BASEPATH') OR exit('No direct script access allowed'); 2 3 use Dompdf\Dompdf; 4 class Pdf extends Dompdf { 5 /** 6 * PDF filename 7 * @var String 8 */ 9 public \$filename; 10 public function __construct() { 11 parent::__construct(); 12 \$this->filename = "laporan.pdf"; 13 } 14 /** 15 * Get an instance of CodeIgniter 16 * 17 * @access protected 18 * @return void 19 */ 20 protected function ci() { 21 return get_instance(); 22 } 23 24 public function load_view(\$view, \$data = array()) { 25 \$html = \$this->ci()->load->view(\$view, \$data, TRUE); 26 \$this->load_html(\$html); 27 // Render the PDF 28 \$this->render(); 29 // Output the generation PDF to Browser 30 \$this->stream(\$this->filename, array("Attachment" => false)); 31 } 32 } 33 </pre>
5	<p>Setelah itu kita coba membuat sebuah function pada controller user dengan nama laporan_pdf</p>

```

32     public function laporan_pdf() {
33         $this->load->library('pdf');
34
35         $data['mahasiswa'] = $this->cetak_model->view();
36         $this->load->library('pdf');
37
38         $this->pdf->setPaper('A4', 'potrait');
39         $this->pdf->filename = "laporan-petanikode.pdf";
40         $this->pdf->load_view('mahasiswa/laporan', $data);
41     }
42
43 }
44
45 /* End of file Controllername.php */
46
47 ?>

```

6

Buat **modelnya** dengan nama **cetak_model.php**

```

application > models > cetak_model.php
1  <?php
2  defined('BASEPATH') OR exit('No direct script access allowed');
3
4  class cetak_model extends CI_Model {
5      public function view() {
6          $this->db->select('nama,email,jurusan');
7          $query=$this->db->get('mahasiswa');
8          return $query->result();
9      }
10 }
11 ?>

```

Buat viewnya dengan nama **laporan** pada folder **mahasiswa**

```

application > views > mahasiswa > laporan.php
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <title>Report Table</title>
5      <style type="text/css">
6          #outtable{
7              padding: 20px;
8              border:1px solid #e3e3e3;
9              width:600px;
10             border-radius: 5px;
11         }
12         .short{
13             width: 50px;
14         }
15         .normal{
16             width: 150px;
17         }
18         table{
19             border-collapse: collapse;
20             font-family: arial;
21             color:#5E5B5C;
22         }
23         thread th{
24             text-align: left;
25             padding: 10px;
26         }
27         tbody td{
28             border-top: 1px solid #e3e3e3;
29             padding: 10px;
30         }
31         tbody tr:nth-child(even){
32             background: #F6F5FA;
33         }
34         tbody tr:hover{
35             background: #EAE9F5
36         }
37     </style>

```

```

38 </head>
39 <body>
40     <!-- In production served. If you choose this, then comment the local server and uncomment this one -->
41     <!-- " alt="" -->
42     <!-- In your local server -->
43     <!-- " alt="" -->
44     <div id="outtable">
45         <table>
46             <thead>
47                 <tr>
48                     <th class="short">#</th>
49                     <th class="normal">Nama</th>
50                     <th class="normal">Email</th>
51                     <th class="normal">Jurusan</th>
52                 </tr>
53             </thead>
54             <tbody>
55                 <?php $no=1; ?>
56                 <?php foreach($mahasiswa as $user): ?>
57                     <tr>
58                         <td><?php echo $no; ?></td>
59                         <td><?php echo $user->nama; ?></td>
60                         <td><?php echo $user->email; ?></td>
61                         <td><?php echo $user->jurusan; ?></td>
62                     </tr>
63                 <?php $no++; ?>
64                 <?php endforeach; ?>
65             </tbody>
66         </table>
67     </div>
68 </body>
69 </html>

```

7

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

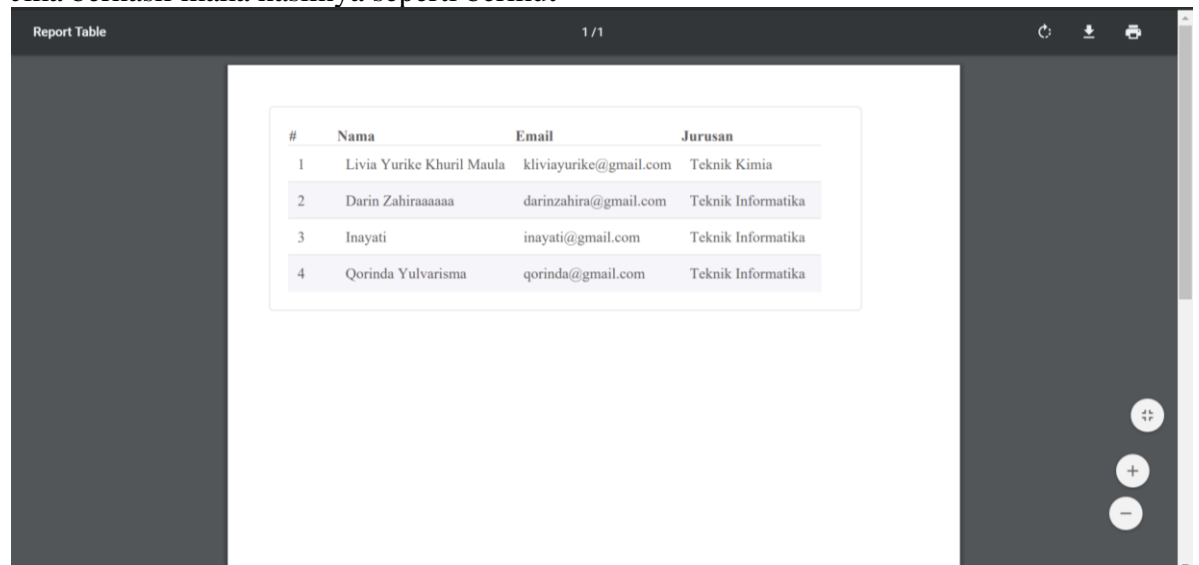
```

application > views > template > header_datatables_user.php
23
24 <div class="collapse navbar-collapse" id="navbarNavAltMarkup">
25     <div class="navbar-nav">
26         <!-- <a class="nav-item nav-link" href="?= base_url; ?>Home">Home</a> -->
27         <a class="nav-item nav-link" href="?= base_url(); ?>user/laporan_pdf">Cetak Laporan</a>
28         <a class="nav-item nav-link" href="?= base_url(); ?>login/logout">Logout</a>
29         <!-- <a class="nav-item nav-link disabled" href="#">Disabled</a> -->
30     </div>
31 </div>
32 </div>
33 </nav>

```

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Jika berhasil maka hasilnya seperti berikut



#	Nama	Email	Jurusan
1	Livia Yurike Khuril Maula	kliviayurike@gmail.com	Teknik Kimia
2	Darin Zahira	darinzahira@gmail.com	Teknik Informatika
3	Inayati	inayati@gmail.com	Teknik Informatika
4	Qorinda Yulvarisma	qorinda@gmail.com	Teknik Informatika

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