

LAPORAN PRAKTIKUM
PEMROGRAMAN WEB LANJUT

Jobsheet-6
DataTables User dan DOM PDF



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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*

Langka h	Keterangan
1	Untuk menggunakan DataTables kita menyisipkan DataTabels melalui CDN <div><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></div>
2	Ada 2 cara penggunaan datatables yaitu dengan cara <i>online</i> yaitu dengan cara menyisipkan CDN atau dengan cara <i>offline</i> yaitu dengan cara mendownload pada situs https://datatables.net/
3	Tambahkan <i>code</i> berikut pada <i>controller user</i>  <pre>login.php user.php X application > controllers > user.php > user > __construct 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 { 9 parent::__construct(); 10 \$this->load->helper('url'); 11 \$this->load->helper('form'); 12 \$this->load->model(['login_model']); 13 \$this->load->model('mahasiswa_model'); 14 //\$this->load->library('session'); 15 16 //validasi level 17 if (\$this->session->userdata('level') != "user") { 18 redirect('login', 'refresh'); 19 } 20 } 21 22 public function index() 23 { 24 \$data = array(25 'title' => 'data mahasiswa', 26 'mahasiswa' => \$this->mahasiswa_model->datatables() 27); 28 \$this->load->view('template/header_datatables_user', \$data); 29 \$this->load->view('mahasiswa/user', \$data); 30 \$this->load->view('template/footer_datatables_user'); 31 } 32 } 33 34 35 /* End of file user.php */ 36</pre>

4

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

• **header_datatables_user**

```
application > views > template > header_datatables_user.php > html > body > nav.navbar.navbar-expand-lg.navbar-light.bg-light >
1 <!doctype html>
2 <html lang="en">
3
4 <head>
5     <!-- Required meta tags -->
6     <meta charset="utf-8">
7     <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
8
9     <!-- Bootstrap CSS -->
10    <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/css/bootstrap.min.css"
11    integrity="sha384-MCw98/SFng88fJT3GXwEOngsV7Zt27NXFoaoApmYm81iuXoPkFOJwJ8ERdknLPMO" crossorigin="anonymous">
12
13    <!--<title>Hello, world!</title> -->
14    <title><?php echo $title ></title>
15
16    <script src="//ajax.googleapis.com/ajax/libs/jquery/1.10.2/jquery.min.js"></script>
17    <link rel="stylesheet" type="text/css" href="https://cdn.datatables.net/v/dt-1.10.20/datatables.min.css" />
18    <script type="text/javascript" src="https://cdn.datatables.net/v/dt-1.10.20/datatables.min.js"></script>
19
20 </head>
21
22 <body>
23
24     <!-- navbar -->
25     <nav class="navbar navbar-expand-lg navbar-light bg-light">
26         <div class="container">
27             <a class="navbar-brand" href="#">CI</a>
28             <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarNavAltMarkup"
29             aria-controls="navbarNavAltMarkup" aria-expanded="false" aria-label="Toggle navigation">
30                 <span class="navbar-toggler-icon"></span>
31             </button>
32             <div class="collapse navbar-collapse" id="navbarNavAltMarkup">
33                 <div class="navbar-nav">
34                     <a class="nav-item nav-link" href="<?php echo base_url(); >">About</a>
35                     <a class="nav-item nav-link" href="<?php echo base_url(); >">login/logout</a>
36                     <!-- <a class="nav-item nav-link disabled" href="#">Disabled</a> -->
37                 </div>
38             </div>
39         </div>
40     </nav>
```

• **footer_datatables_user**

```
login.php user.php header_datatables_user.php header_login.php footer_datatables_user.php •
application > views > template > footer_datatables_user.php > script
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+MXmPNIyE6ZbWh2IMqE241rYiqJxyMiZ6OW/JmZQ5stwEULTy"
8     crossorigin="anonymous"></script>
9 </body>
10
11 </html>
```

5

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

```
user.php ...controllers user.php ...mahasiswa X
application > views > mahasiswa > user.php > div.container > table#list_mhs.table.table-striped.table-bo
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    </thead>
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      </tbody>
26    </table>
27  </div>
```

6 Tambahkan *function* **datatables** pada **mahasiswa_model**

```
er.php user.php ...mahasiswa X mahasiswa_model.php X footer_datatables_user.php
application > models > mahasiswa_model.php > mahasiswa_model > cariDataMahasiswa
51 }
52 public function.datatables()
53 {
54   $query = $this->db->order_by('id', 'DESC')->get('mahasiswa');
55   return $query->result();
56 }
57 }
58
```

7 Hasil

CI About Logout

Data Mahasiswa

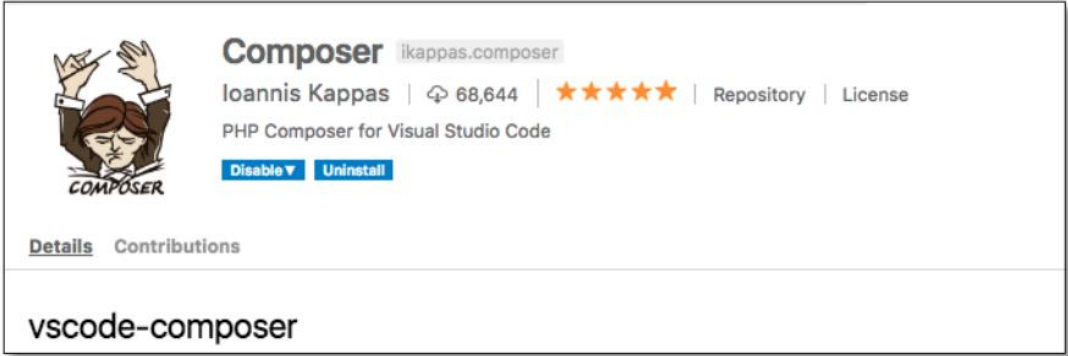
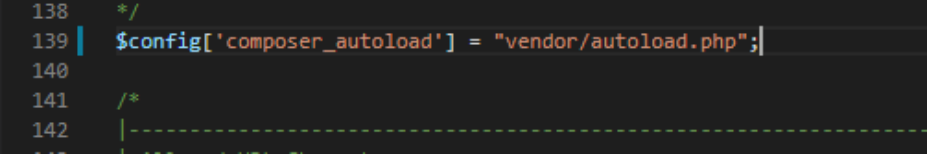
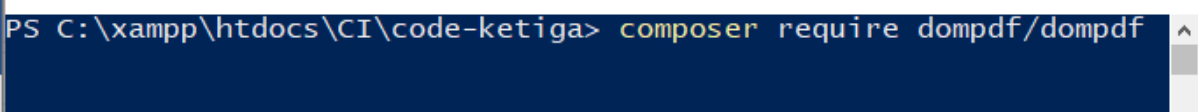
Show 10 entries Search:

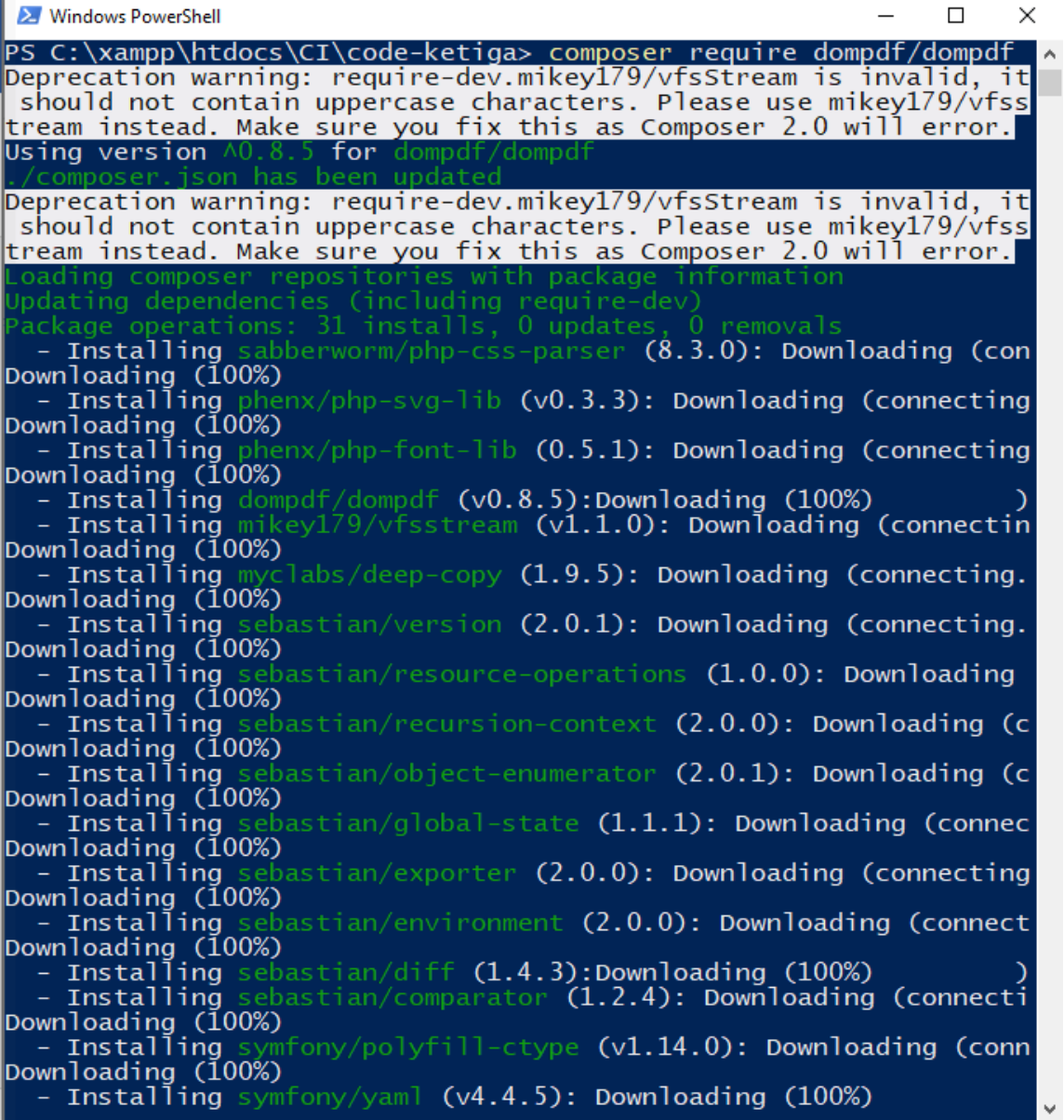
#	Nama	Email	Jurusan
1	Ani	ani@gmail.com	Teknik Mesin
2	Agung	agung@gmail.com	Informatika
3	Silvi	silvi@gmail.com	Informatika
4	Agit Ari	agitariawan44@gmail.com	Informatika
5	soni atalia	soni@gmail.com	Teknik Informatika

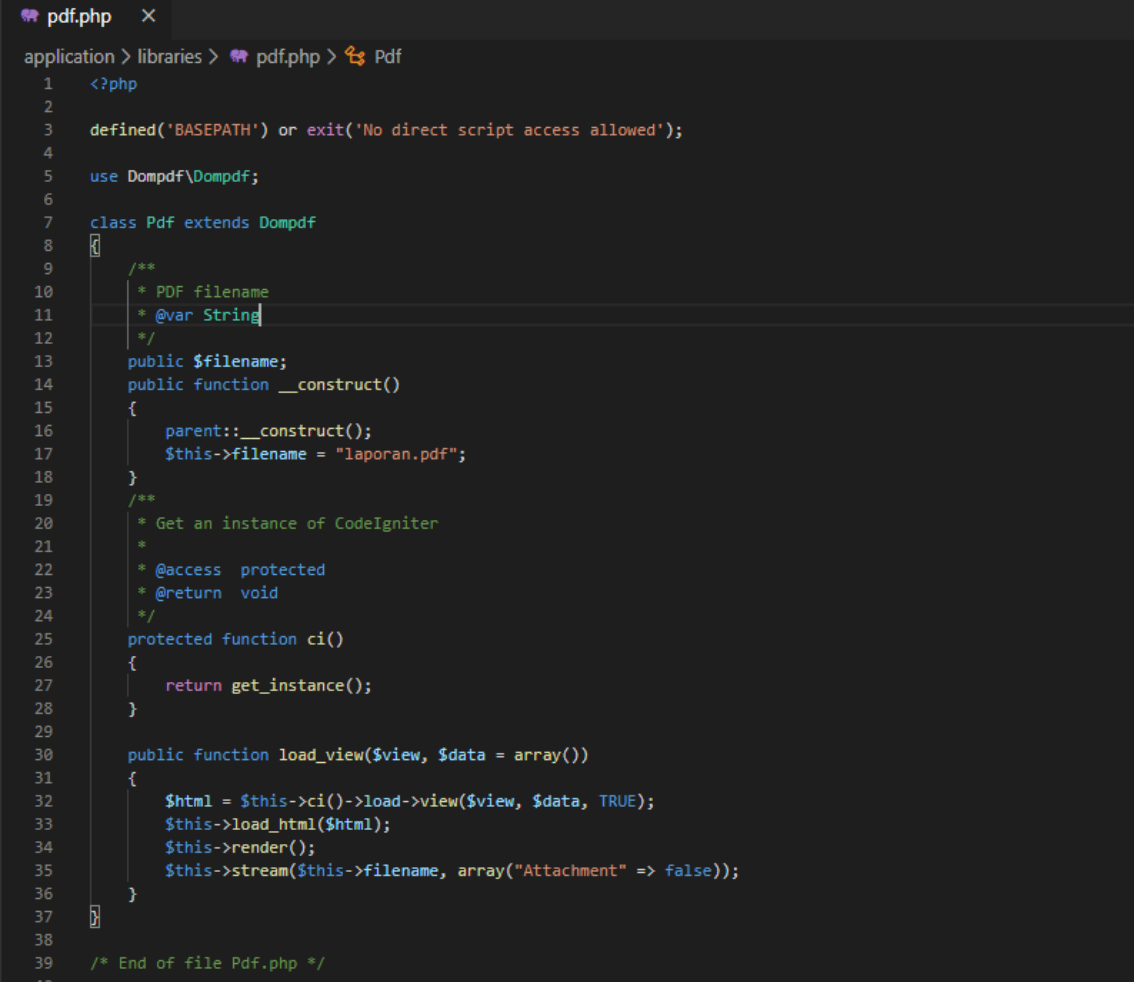
Showing 1 to 5 of 5 entries Previous 1 Next

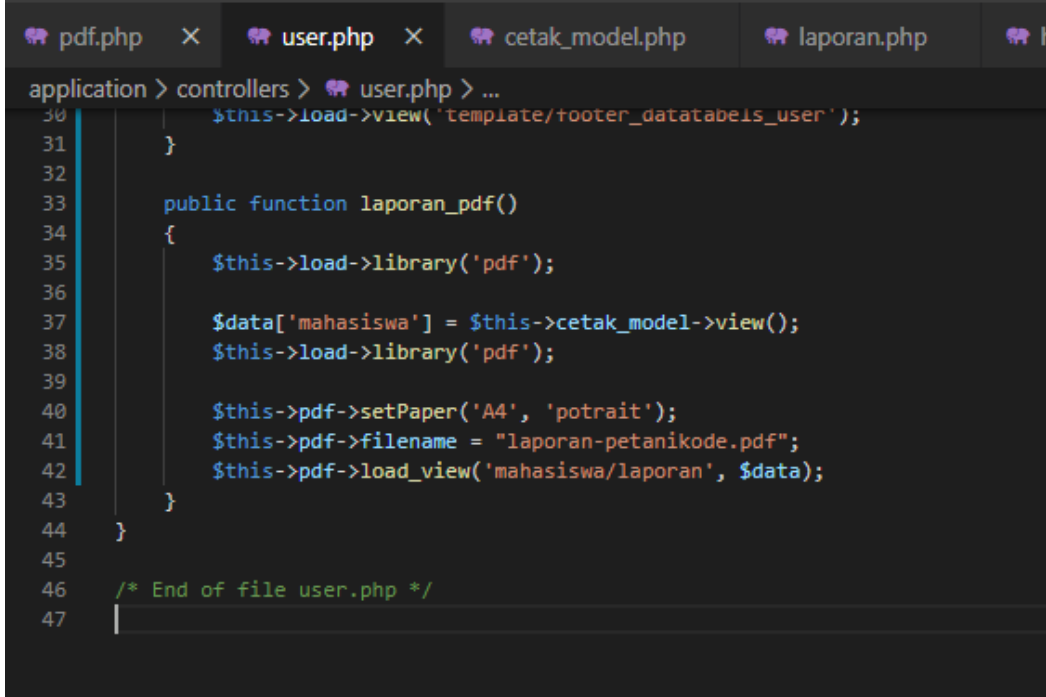
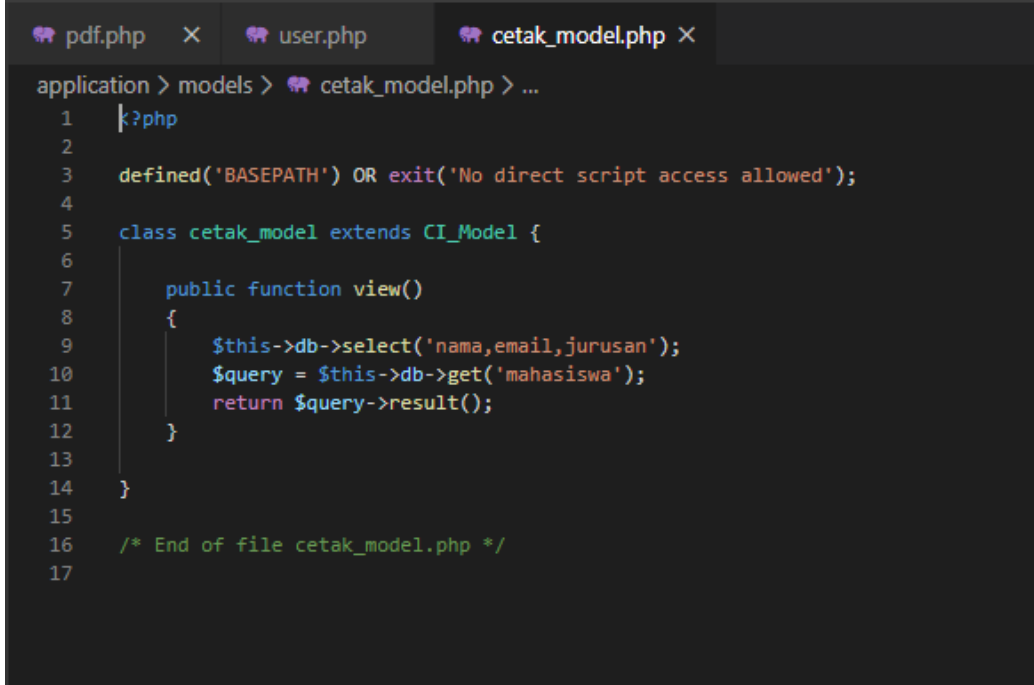
Praktikum – Bagian 2: Menggunakan DOMPDF dengan CodeIgniter

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

Langka h	Keterangan
1	<p>Install extensions <i>Composer</i> pada visualCode</p> 
2	<p>Konfigurasi composer_autoloadnya. Buka file application/config/config.php dan rubah menjadi seperti berikut</p> 
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> 

	 <pre> Windows PowerShell PS C:\xampp\htdocs\CI\code-ketiga> composer require dompdf/dompdf Deprecation warning: require-dev.mikey179/vfsStream is invalid, it should not contain uppercase characters. Please use mikey179/vfss tream 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/vfss tream 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 sabberworm/php-css-parser (8.3.0): Downloading (con Downloading (100%) - Installing phenx/php-svg-lib (v0.3.3): Downloading (connecting Downloading (100%) - Installing phenx/php-font-lib (0.5.1): Downloading (connecting Downloading (100%) - Installing dompdf/dompdf (v0.8.5): Downloading (100%) - Installing mikey179/vfsstream (v1.1.0): Downloading (connectin Downloading (100%) - Installing myclabs/deep-copy (1.9.5): Downloading (connecting. Downloading (100%) - Installing sebastian/version (2.0.1): Downloading (connecting. Downloading (100%) - Installing sebastian/resource-operations (1.0.0): Downloading Downloading (100%) - Installing sebastian/recursion-context (2.0.0): Downloading (c Downloading (100%) - Installing sebastian/object-enumerator (2.0.1): Downloading (c Downloading (100%) - Installing sebastian/global-state (1.1.1): Downloading (connec Downloading (100%) - Installing sebastian/exporter (2.0.0): Downloading (connecting Downloading (100%) - Installing sebastian/environment (2.0.0): Downloading (connect Downloading (100%) - Installing sebastian/diff (1.4.3): Downloading (100%) - Installing sebastian/comparator (1.2.4): Downloading (connecti Downloading (100%) - Installing symfony/polyfill-ctype (v1.14.0): Downloading (conn Downloading (100%) - Installing symfony/yaml (v4.4.5): Downloading (100%) </pre>
4	Buatlah file php dengan nama pdf.php pada <i>libraries</i>

	 <pre> pdf.php x application > libraries > pdf.php > Pdf 1 <?php 2 3 defined('BASEPATH') or exit('No direct script access allowed'); 4 5 use Dompdf\Dompdf; 6 7 class Pdf extends Dompdf 8 { 9 /** 10 * PDF filename 11 * @var String 12 */ 13 public \$filename; 14 public function __construct() 15 { 16 parent::__construct(); 17 \$this->filename = "laporan.pdf"; 18 } 19 /** 20 * Get an instance of CodeIgniter 21 * 22 * @access protected 23 * @return void 24 */ 25 protected function ci() 26 { 27 return get_instance(); 28 } 29 30 public function load_view(\$view, \$data = array()) 31 { 32 \$html = \$this->ci()->load->view(\$view, \$data, TRUE); 33 \$this->load_html(\$html); 34 \$this->render(); 35 \$this->stream(\$this->filename, array("Attachment" => false)); 36 } 37 38 39 /* End of file Pdf.php */ 40 </pre>
5	<p>Setelah itu kita coba membuat sebuah function pada controller user dengan nama laporan_pdf</p>

	 <pre> pdf.php x user.php x cetak_model.php laporan.php application > controllers > user.php > ... 30 \$this->load->view('template/footer_databels_user'); 31 } 32 33 public function laporan_pdf() 34 { 35 \$this->load->library('pdf'); 36 37 \$data['mahasiswa'] = \$this->cetak_model->view(); 38 \$this->load->library('pdf'); 39 40 \$this->pdf->setPaper('A4', 'potrait'); 41 \$this->pdf->filename = "laporan-petanikode.pdf"; 42 \$this->pdf->load_view('mahasiswa/laporan', \$data); 43 } 44 } 45 46 /* End of file user.php */ 47 </pre>
6	<p>Buat modelnya dengan nama cetak_model.php</p>  <pre> pdf.php x user.php cetak_model.php x application > models > cetak_model.php > ... 1 <?php 2 3 defined('BASEPATH') OR exit('No direct script access allowed'); 4 5 class cetak_model extends CI_Model { 6 7 public function view() 8 { 9 \$this->db->select('nama,email,jurusan'); 10 \$query = \$this->db->get('mahasiswa'); 11 return \$query->result(); 12 } 13 14 } 15 16 /* End of file cetak_model.php */ 17 </pre> <p>Buat viewnya dengan nama laporan pada folder mahasiswa</p>

pdf.php user.php cetak_model.php laporan.php X header_datatables_u

application > views > mahasiswa > laporan.php > html > head > style > tbody td

```
1 <!DOCTYPE html>
2 <html>
3
4 <head>
5     <title>Report Table</title>
6     <style type="text/css">
7         #outtable {
8             padding: 20px;
9             border: 1px solid #e3e3e3;
10            width: 600px;
11            border-radius: 5px;
12        }
13
14        .short {
15            width: 50px;
16        }
17
18        .normal {
19            width: 150px;
20        }
21
22        table {
23            border-collapse: collapse;
24            font-family: arial;
25            color: #5E585C;
26        }
27
28        thead th {
29            text-align: left;
30            padding: 10px;
31        }
32
33        tbody td {
34            border-top: 1px solid #e3e3e3;
35            padding: 10px;
36        }
37    </style>
38 </head>
39 <body>
```

	<pre> 38 tbody tr:nth-child(even) { 39 background: #F6F5FA; 40 } 41 42 tbody tr:hover { 43 background: #EAE9F5; 44 } 45 } 46 </style> 47 48 <body> 49 <div id="outtable"> 50 <table> 51 <thead> 52 <tr> 53 <th class="short">#</th> 54 <th class="normal">Nama</th> 55 <th class="normal">Email</th> 56 <th class="normal">Jurusan</th> 57 </tr> 58 </thead> 59 <tbody> 60 <?php \$no = 1; ?> 61 <?php foreach (\$mahasiswa as \$user) : ?> 62 <tr> 63 <td><?php echo \$no; ?></td> 64 <td><?php echo \$user->nama; ?></td> 65 <td><?php echo \$user->email; ?></td> 66 <td><?php echo \$user->jurusan; ?></td> 67 </tr> 68 <?php \$no++; ?> 69 <?php endforeach; ?> 70 </tbody> 71 </table> 72 </div> 73 </body> 74 75 </html> </pre>
7	<p>Buka file header_datatables_user.php dan tambahkan <i>link</i> cetak laporan pada navbar <i>line</i> 30</p> <pre> </button> <div class="collapse navbar-collapse" id="navbarNavAltMarkup"> <div class="navbar-nav"> <!-- <a class="nav-item nav-link" href="<?= base_url(); ?>">About --> <a class="nav-item nav-link" href="<?= base_url(); ?>user/laporan_pdf">Cetak Laporan <a class="nav-item nav-link" href="<?= base_url(); ?>login/logout">Logout <!-- Disabled --> </div> </div> </div> </nav> </pre>
8	<p>Jika berhasil maka hasilnya seperti berikut</p>

#	Nama	Email	Jurusan
1	soni atalia	soni@gmail.com	Teknik Informatika
2	Agit Ari	agitariawan44@gmail.com	Informatika
3	Silvi	silvi@gmail.com	Informatika
4	Agung	agung@gmail.com	Informatika
5	Ani	ani@gmail.com	Teknik Mesin