

MODUL 13
DOWNLOAD DATA FORMAT EXCEL DAN PDF
MENGGUNAKAN FRAMEWORK CODEIGNITER

Pada aplikasi CRUD dan pencarian data sebelumnya, kita akan menambahkan download data format Excel dan PDF.

A. Menambahkan Library Excel

1. Download PHPExcel yang terbaru (untuk saat ini menggunakan PHPExcel-1.8.1) di <https://github.com/PHPOffice/PHPExcel/releases>
2. Ekstrak file di dalam folder /application/libraries.
3. Rename “PHPExcel-1.8.1” menjadi “PHPExcel”.

B. Menambahkan Library PDF

1. Download TCPDF (untuk saat ini menggunakan tcpdf_6_2_13) di <https://sourceforge.net/projects/tcpdf/files>
2. Ekstrak file di dalam folder /application/libraries.
3. Folder yang sudah diekstrak memiliki nama “tcpdf”.

C. Download Data Format Excel

1. Buka /application/views/v_aplikasi.php. Tambahkan tombol “Data Excel” pada Daftar Mahasiswa sebagai berikut:

```
61 } else if ((isset($page)) and ($page == 'daftar_mahasiswa')) { ?>
62 <legend>Daftar Mahasiswa</legend>
63
64 <!-- PENCARIAN -->
65 <table><tr>
66     <td><form action="<?=base_url('aplikasi/daftar_mahasiswa')?>" class="form-horizontal" method="
67     post" accept-charset="utf-8">
68     <td><input type="text" name="cari" placeholder="Pencarian"/>
69     <button type="submit" name="simpan" class="btn btn-primary"><i class="icon-search
70     icon-white"></i> Cari</button>
71 </td>
72 <td><a href="<?=base_url('aplikasi/daftar_mahasiswa')?>">
73     <button type="button" name="daftardata" class="btn btn-primary"><i class="icon-ok
74     icon-white"></i> Semua Data</button>
75 </a>
76 <td><a href="<?=base_url('EXCEL_data')?>">
77     <button type="button" name="daftardata" class="btn btn-primary"><i class="icon-download
78     icon-white"></i> Data Excel</button>
79 </a>
80 </td>
</tr>
</table>
```

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Sehingga tampil seperti pada gambar sebagai berikut:

Daftar Mahasiswa

CariSemua DataData Excel

| NIM | Nama | Aksi | |
|----------|---------|----------------------|-----------------------|
| 13650123 | SYAFI'I | Ubah | Hapus |
| 13650124 | ANTON | Ubah | Hapus |

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2. Buat controller EXCEL_data (EXCEL_data.php) di folder /application/controllers.

```
1 <?php
2 defined('BASEPATH') OR exit('No direct script access allowed');
3
4 class EXCEL_data extends CI_Controller
5 {
6     public function __construct()
7     {
8         parent::__construct();
9
10        // cek session user. jika tidak ada session, maka redirect ke login
11        if ( $this->session->userdata('userid') and $this->session->userdata('pass') )
12        {
13            $this->load->model('m_aplikasi');
14
15            require_once APPPATH."libraries/PHPExcel/Classes/PHPExcel.php";
16            // atau
17            // $this->load->library('PHPExcel/Classes/PHPExcel');
18        } else
19        {
20            redirect(base_url('login'));
21        }
22    }
23
24    public function index()
25    {
26        // Create new PHPExcel object
27        $objPHPExcel = new PHPExcel();
28        // Set document properties
29        $objPHPExcel->getProperties()->setCreator("Ajib Hanani")
30        ->setLastModifiedBy("Ajib Hanani")
31        ->setTitle("Office 2007 XLSX Document")
32        ->setSubject("Office 2007 XLSX Document")
33        ->setDescription("Document for Office 2007 XLSX, generated using PHP classes.")
34        ->setKeywords("office 2007 openxml php")
35        ->setCategory("Result file");
36
37        // Judul
38        $objPHPExcel->setActiveSheetIndex(0)->mergeCells('A1:C1');
39
40        $objPHPExcel->setActiveSheetIndex(0)
41        ->setCellValue('A1', 'DAFTAR DATA SISWA');
42        $objPHPExcel->getActiveSheet()->getStyle('A1')->getAlignment()->setHorizontal(PHPExcel_Style_Alignment::HORIZONTAL_CENTER);
43        $objPHPExcel->getActiveSheet()->getStyle('A1')->getFont()->setBold(true);
44
45        $objPHPExcel->setActiveSheetIndex(0)
46        ->calculateColumnWidths(true);
47
48        $objPHPExcel->setActiveSheetIndex(0)
49        ->setCellValue('A3', 'NO')
50        ->setCellValue('B3', 'NIM')
51        ->setCellValue('C3', 'NAMA');
52
53        $objPHPExcel->getActiveSheet()->getColumnDimension('A')->setWidth(5);
54        $objPHPExcel->getActiveSheet()->getColumnDimension('B')->setWidth(15);
55        $objPHPExcel->getActiveSheet()->getColumnDimension('C')->setWidth(30);
56
57        $objPHPExcel->getActiveSheet()->getStyle('A3:C3')->getAlignment()->setHorizontal(PHPExcel_Style_Alignment::HORIZONTAL_CENTER);
58        $objPHPExcel->getActiveSheet()->getStyle('A3:C3')->getFont()->setBold(true);
59
60        // Set Border cell
61        $objPHPExcel->getActiveSheet()->getStyle('A3:C3')->applyFromArray(
62            array(
63                'borders' => array(
64                    'allborders' => array(
65                        'style' => PHPExcel_Style_Border::BORDER_THIN,
66                        'color' => array('argb' => '9E9E9E')
67                    )
68                )
69            )
70        );
71    }
72 }
```

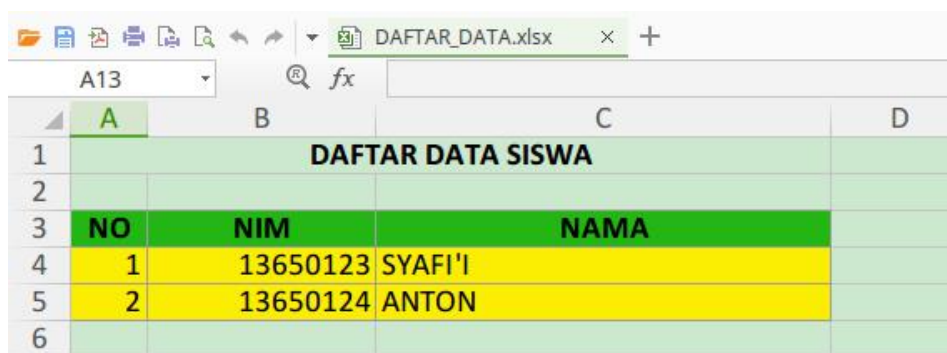
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```

66 // Set Background cell color
67 $objPHPExcel->getActiveSheet()
68     ->getStyle('A3:C3')
69     ->getFill()
70     ->setFillType(PHPExcel_Style_Fill::FILL_SOLID)
71     ->getStartColor()
72     ->setARGB('23238614');
73
74 // mengambil semua baris (menggunakan fungsi result())
75 // di model m_aplikasi function daftar_mahasiswa()>result();
76 $daftar_mhs = $this->m_aplikasi->daftar_mahasiswa()->result();
77 $no = 1;
78 $baris = 4;
79 foreach ($daftar_mhs as $r)
80 {
81     $objPHPExcel->setActiveSheetIndex(0)
82     ->setCellValue('A'.$baris, $no)
83     ->setCellValue('B'.$baris, $r->nim)
84     ->setCellValue('C'.$baris, $r->nama);
85
86 // Set Border cell
87 $objPHPExcel->getActiveSheet()->getStyle("A".$baris."":C".$baris)->applyFromArray(
88     array(
89         'borders' => array(
90             'allborders' => array(
91                 'style' => PHPExcel_Style_Border::BORDER_THIN,
92                 'color' => array('rgb' => '9E9E9E')
93             )
94         )
95     );
96
97 // Set Background cell color
98 $objPHPExcel->getActiveSheet()
99     ->getStyle("A".$baris."":C".$baris)
100     ->getFill()
101     ->setFillType(PHPExcel_Style_Fill::FILL_SOLID)
102     ->getStartColor()
103     ->setRGB('FBEE03');
104
105 $no++;
106 $baris++;
107 }
108
109 // Rename worksheet
110 $objPHPExcel->getActiveSheet()->setTitle('DAFTAR SISWA');
111
112 // Set active sheet index to the first sheet, so Excel opens this as the first sheet
113 $objPHPExcel->setActiveSheetIndex(0);
114
115 // Redirect output to a client's web browser (Excel2007)
116 header('Content-Type: application/vnd.openxmlformats-officedocument.spreadsheetml.sheet');
117 header('Content-Disposition: attachment; filename="DAFTAR_DATA.xlsx"');
118 header('Cache-Control: max-age=0');
119 // If you're serving to IE 9, then the following may be needed
120 header('Cache-Control: max-age=1');
121
122 // If you're serving to IE over SSL, then the following may be needed
123 header('Expires: Mon, 26 Jul 1997 05:00:00 GMT'); // Date in the past
124 header('Last-Modified: '.gmdate('D, d M Y H:i:s').' GMT'); // always modified
125 header('Cache-Control: cache, must-revalidate'); // HTTP/1.1
126 header('Pragma: public'); // HTTP/1.0
127
128 $objWriter = PHPExcel_IOWriter::createWriter($objPHPExcel, 'Excel2007');
129 $objWriter->save('php://output');
130 exit;
131
132 // menghapus variable dari memory
133 unset($objPHPExcel, $daftar_mhs, $no, $baris, $r, $objWriter);
134 }

```

3. Klik tombol “Data Excel” untuk download data format Excel dengan nama file “DAFTAR_DATA.xlsx”. Buka file tersebut sehingga tampil seperti pada gambar berikut ini:



| DAFTAR DATA SISWA | | |
|-------------------|----------|---------|
| NO | NIM | NAMA |
| 1 | 13650123 | SYAFI'I |
| 2 | 13650124 | ANTON |

D. Download Data Format PDF

1. Buka /application/views/v_aplikasi.php. Tambahkan tombol “Data PDF” pada Daftar Mahasiswa sebagai berikut:

```
61 } else if ((isset($page)) and ($page == 'daftar_mahasiswa')) { ?>
62     <legend>Daftar Mahasiswa</legend>
63
64     <!-- Pencarian -->
65     <table><tr>
66         <td><form action="<?=base_url('aplikasi/daftar_mahasiswa')?>" class="form-horizontal" method="post" accept-charset="utf-8">
67             <input type="text" name="cari" placeholder="Pencarian"/>
68             <button type="submit" name="simpan" class="btn btn-primary"><i class="icon-search icon-white"></i> Cari</button>
69         </td>
70     </tr>
71     <tr>
72         <td><a href="<?=base_url('aplikasi/daftar_mahasiswa')?>">
73             <button type="button" name="daftardata" class="btn btn-primary"><i class="icon-ok icon-white"></i> Semua Data</button>
74         </td>
75         <td><a href="<?=base_url('EXCEL_data')?>">
76             <button type="button" name="daftardata" class="btn btn-primary"><i class="icon-download icon-white"></i> Data Excel</button>
77         </td>
78         <td><a href="<?=base_url('PDF_data')?>">
79             <button type="button" name="daftardata" class="btn btn-primary"><i class="icon-download icon-white"></i> Data PDF</button>
80         </td>
81     </tr>
82 </table>
83
84 <? if (!empty($cari))
85 {
86     if ($jumlah > 0)
87     {
88         <div class='alert alert-success'>Ditemukan ".$jumlah." data</div>;
89     }
90     else
91     {
92         <div class='alert alert-error'>Data tidak ditemukan</div>;
93     }
94 }
```

Sehingga tampil seperti pada gambar sebagai berikut:

Daftar Mahasiswa

Cari

Semua Data

Data Excel

Data PDF

| NIM | Nama | Aksi | |
|----------|---------|------|-------|
| 13650123 | SYAFI'I | Ubah | Hapus |
| 13650124 | ANTON | Ubah | Hapus |

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2. Buat controller PDF_data (PDF_data.php) di folder /application/controllers.

```
1 <?php
2 defined('BASEPATH') OR exit('No direct script access allowed');
3
4 class PDF_data extends CI_Controller
5 { public function __construct()
6 { parent::__construct();
7
8 // cek session user. jika tidak ada session, maka redirect ke login
9 if ( $this->session->userdata('userid') and $this->session->userdata('pass') )
10 { $this->load->model('m_aplikasi');
11
12 //require_once APPPATH."libraries/PHPExcel/Classes/PHPExcel.php";
13 // atau
14 $this->load->library('PHPExcel/Classes/PHPExcel');
15 } else
16 { redirect(base_url('login'));
17 }
18
19 }
20
21 public function index()
22 { $rendererName = PHPExcel_Settings::PDF_RENDERER_TCPDF;
23 $rendererLibraryPath = APPPATH."libraries/tcpdf";
24
25 // Create new PHPExcel object
26 $objPHPExcel = new PHPExcel();
27 // Set document properties
28 $objPHPExcel->getProperties()->setCreator("Ajib Hanani")
29                                     ->setLastModifiedBy("Ajib Hanani")
30                                     ->setTitle("DATA SISWA")
31                                     ->setSubject("DATA SISWA")
32                                     ->setDescription("DATA SISWA")
33                                     ->setKeywords("DATA SISWA")
34                                     ->setCategory("DATA SISWA");
35
36 $objPHPExcel->setActiveSheetIndex(0)->mergeCells('A1:C1');
37 // Judul
38 $objPHPExcel->setActiveSheetIndex(0)
39                                     ->setCellValue('A1', 'DAFTAR DATA SISWA');
40 $objPHPExcel->getActiveSheet()->getStyle('A1')->getAlignment()->setHorizontal(PHPExcel_Style_Alignment::HORIZONTAL_CENTER);
41 $objPHPExcel->getActiveSheet()->getStyle('A1')->getFont()->setBold(true);
42
43 $objPHPExcel->setActiveSheetIndex(0)
44                                     ->calculateColumnWidths(true);
45
46 $objPHPExcel->setActiveSheetIndex(0)
47                                     ->setCellValue('A3', 'NO')
48                                     ->setCellValue('B3', 'NIM')
49                                     ->setCellValue('C3', 'NAMA');
50
51 $objPHPExcel->getActiveSheet()->getColumnDimension('A')->setWidth(5);
52 $objPHPExcel->getActiveSheet()->getColumnDimension('B')->setWidth(15);
53 $objPHPExcel->getActiveSheet()->getColumnDimension('C')->setWidth(30);
54
55 $objPHPExcel->getActiveSheet()->getStyle('A3:C3')->getAlignment()->setHorizontal(PHPExcel_Style_Alignment::HORIZONTAL_CENTER);
56 $objPHPExcel->getActiveSheet()->getStyle('A3:C3')->getFont()->setBold(true);
57
58 // Set Background cell color
59 $objPHPExcel->getActiveSheet()
60                                     ->getStyle('A3:C3')
61                                     ->getFill()
62                                     ->setFillType(PHPExcel_Style_Fill::FILL_SOLID)
63                                     ->getStartColor()
64                                     ->setARGB('23238614');
65
66 // mengambil semua baris (menggunakan fungsi result())
67 // di model m_aplikasi function daftar_mahasiswa
68 $daftar_mhs = $this->m_aplikasi->daftar_mahasiswa()->result();
69 $no = 1;
70 $baris = 4;
71 foreach ($daftar_mhs as $r)
72 { $objPHPExcel->setActiveSheetIndex(0)
73                                     ->setCellValue('A'.$baris, $no)
74                                     ->setCellValue('B'.$baris, $r->nim)
75                                     ->setCellValue('C'.$baris, $r->nama);
76
77 // Set Background cell color
78 $objPHPExcel->getActiveSheet()
79                                     ->getStyle("A".$baris." : C".$baris)
80                                     ->getFill()
81                                     ->setFillType(PHPExcel_Style_Fill::FILL_SOLID)
82                                     ->getStartColor()
83                                     ->setRGB('FBEE03');
84
85 $no++;
86 $baris++;
87 }
88
89 // Rename worksheet
90 $objPHPExcel->getActiveSheet()->setTitle('DAFTAR SISWA');
91
92 $objPHPExcel->getActiveSheet()->setShowGridLines(false);
93
94 // Set active sheet index to the first sheet, so Excel opens this as the first sheet
95 $objPHPExcel->setActiveSheetIndex(0);
96
97 }
```

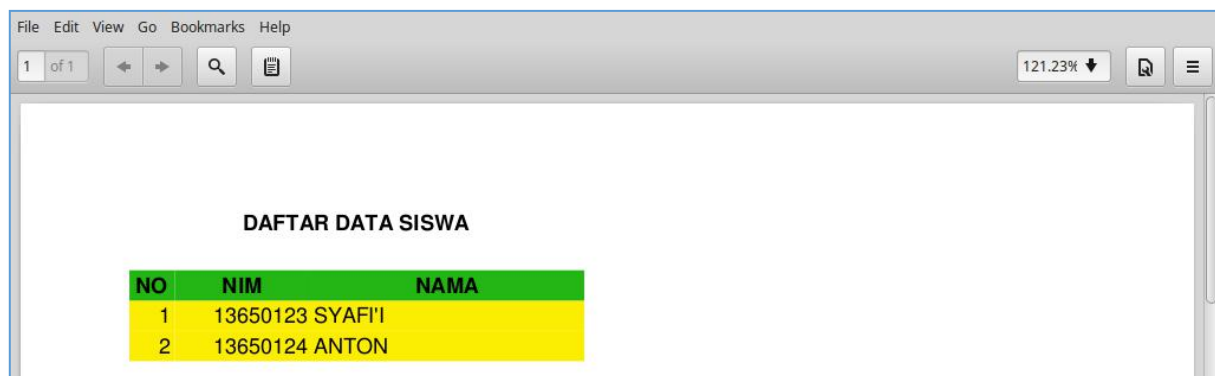
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UIN MAULANA MALIK IBRAHIM MALANG

```
98     if (!PHPExcel_Settings::setPdfRenderer(  
99         $rendererName,  
100         $rendererLibraryPath  
101     )) {  
102         die(  
103             'NOTICE: Please set the $rendererName and $rendererLibraryPath values' .  
104             '<br />' .  
105             'at the top of this script as appropriate for your directory structure'  
106         );  
107     }  
108  
109  
110     // Redirect output to a client's web browser (PDF)  
111     header('Content-Type: application/pdf');  
112     header('Content-Disposition: attachment;filename="DAFTAR_DATA.pdf"');  
113     header('Cache-Control: max-age=0');  
114  
115     $objWriter = \PHPExcel_IOWriter::createWriter($objPHPExcel, 'PDF');  
116     $objWriter->save('php://output');  
117     exit;  
118  
119     // menghapus variable dari memory  
120     unset($objPHPExcel,$daftar_mhs,$no,$baris,$r,$objWriter);  
121 }  
122 }
```

3. Klik tombol “Data PDF” untuk download data format PDF dengan nama file “DAFTAR_DATA.pdf”. Buka file tersebut sehingga tampil seperti pada gambar berikut ini:



| DAFTAR DATA SISWA | |
|-------------------|------------------|
| NO | NAMA |
| 1 | 13650123 SYAFI'I |
| 2 | 13650124 ANTON |