

**APLIKASI PERPUSTAKAAN STMIK PALANGKARAYA
BERBASIS WEB MENGGUNAKAN FREMEWORK
CODEINIGTER 4**

Tugas ini disusun untuk memenuhi tugas besar pertemuan 14
Matakuliah Pemograman Framework (2 SKS)

STMIK Palangkaraya



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**SEKOLAH TINGGI MANAJEMEN INFORMATIKA DAN
KOMPUTER(STMIK PALANGKARAYA)**

2021

CRUD Data Buku

Rahmaniah (C2055201014)

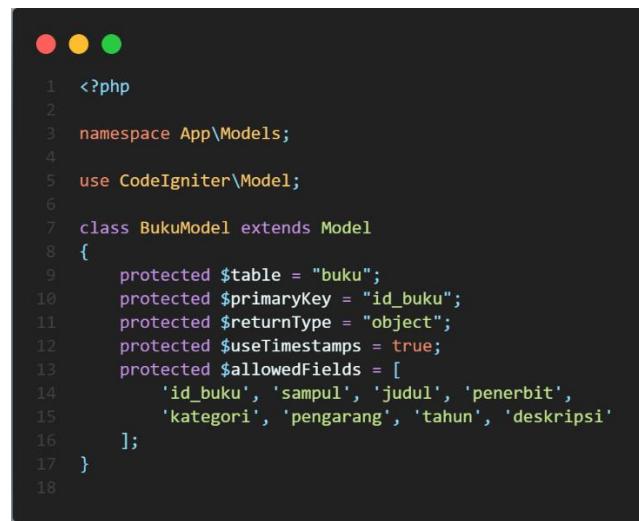
- Membuat database migration untuk table buku

```
1 <?php
2
3 namespace App\Database\Migrations;
4
5 use CodeIgniter\Database\Migration;
6
7 class Buku extends Migration
8 {
9     public function up()
10    {
11        $this->forge->addField([
12            'id_buku' => [
13                'type' => 'VARCHAR',
14                'constraint' => '100',
15            ],
16            'sampul' => [
17                'type' => 'VARCHAR',
18                'constraint' => '100',
19            ],
20            'judul' => [
21                'type' => 'VARCHAR',
22                'constraint' => '100',
23            ],
24            'penerbit' => [
25                'type' => 'VARCHAR',
26                'constraint' => '100',
27            ],
28            'kategori' => [
29                'type' => 'VARCHAR',
30                'constraint' => '100',
31            ],
32            'pengarang' => [
33                'type' => 'VARCHAR',
34                'constraint' => '100',
35            ],
36            'tahun' => [
37                'type' => 'YEAR',
38            ],
39            'created_at' => [
40                'type' => 'DATETIME',
41                'null' => true,
42            ],
43            'updated_at' => [
44                'type' => 'DATETIME',
45                'null' => true,
46            ]
47        ]);
48        $this->forge->addPrimaryKey('id_buku', true);
49        $this->forge->createTable('buku');
50    }
51
52    public function down()
53    {
54        $this->forge->dropTable('buku');
55    }
56 }
```

The screenshot shows a Windows desktop environment with two main windows:

- Terminal Window:** Displays the PHP migration code for creating the 'buku' table. The code defines fields for id_buku (VARCHAR 100), sampul (VARCHAR 100), judul (VARCHAR 100), penerbit (VARCHAR 100), kategori (VARCHAR 100), pengarang (VARCHAR 100), tahun (YEAR), created_at (DATETIME), and updated_at (DATETIME). It also adds a primary key to the id_buku column.
- MySQL Workbench Window:** Shows the 'buku' table structure. The table has 10 columns:
 - id_buku (Primary Key, AUTO_INCREMENT, INT(11))
 - sampul (VARCHAR(100), utf8_general_ci)
 - judul (VARCHAR(100), utf8_general_ci)
 - penerbit (VARCHAR(100), utf8_general_ci)
 - kategori (VARCHAR(100), utf8_general_ci)
 - pengarang (VARCHAR(100), utf8_general_ci)
 - tahun (year(4))
 - created_at (datetime)
 - updated_at (datetime)Each column has a 'Null' checkbox checked and a 'Default' field set to 'Yes'.

- Membuat model buku untuk meload atau memanggil tabel buku yang sudah dibuat

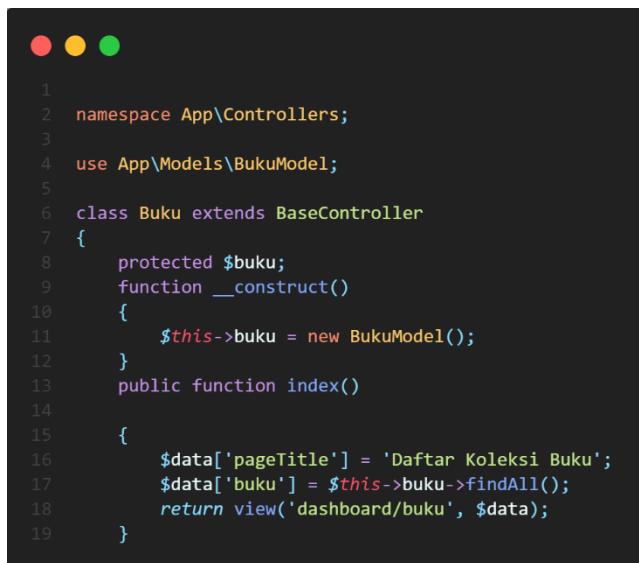


```

1 <?php
2
3 namespace App\Models;
4
5 use CodeIgniter\Model;
6
7 class BukuModel extends Model
8 {
9     protected $table = "buku";
10    protected $primaryKey = "id_buku";
11    protected $returnType = "object";
12    protected $useTimestamps = true;
13    protected $allowedFields = [
14        'id_buku', 'sampul', 'judul', 'penerbit',
15        'kategori', 'pengarang', 'tahun', 'deskripsi'
16    ];
17 }
18

```

- Membuat controller buku sebagai pengontrol seluruh aktifitas yang akan dilakukan pada halaman buku



```

1
2 namespace App\Controllers;
3
4 use App\Models\BukuModel;
5
6 class Buku extends BaseController
7 {
8     protected $buku;
9     function __construct()
10    {
11        $this->buku = new BukuModel();
12    }
13    public function index()
14    {
15        $data['pageTitle'] = 'Daftar Koleksi Buku';
16        $data['buku'] = $this->buku->findAll();
17        return view('dashboard/buku', $data);
18    }
19

```

- Membuat halaman buku sebagai media informasi yang disediakan

```
1  <?= $this->extend('layout/dashboard-layout'); ?>
2  <?= $this->section('content'); ?>
3  <!-- ./card-header -->
4  <div class="card-body">
5      <?php if (!empty(session()->getFlashdata('message'))): ?>
6          <div class="alert alert-success alert-dismissible fade show" role="alert">
7              <?php echo session()->getFlashdata('message'); ?>
8              <button type="button" class="close" data-dismiss="alert" aria-label="Close">
9                  <span aria-hidden="true">&times;;</span>
10             </button>
11         </div>
12     <?php endif; ?>
13     <a href="= base_url('/buku/create'); ?" class="btn btn-primary">Tambah <i class="fas fa-plus"></i></a>
14     <a href="= base_url('buku'); ?" class="btn btn-success">Refresh <i class=" fas fa-spinner"></i></a>
15     <hr />
16     <table class="table table-bordered">
17         <thead>
18             <tr class="text-center">
19                 <th>No</th>
20                 <th>Sampul</th>
21                 <th>Judul</th>
22                 <th>Penulis</th>
23                 <th>Kategori</th>
24                 <th>Pengarang</th>
25                 <th>Tahun</th>
26                 <th>Action</th>
27             </tr>
28         </thead>
29     </table>
30  </div>
31  <!-- ./card-body -->
32  <?= $this->endSection('content'); ?>
```

```
class="close">X
```

```
        <input type="button" value="Delete" class="btn btn-danger" onclick="return confirm('Anda Yakin Ingin Menghapus Data Buku Ini ?')"/>
```

```
    </td>
```

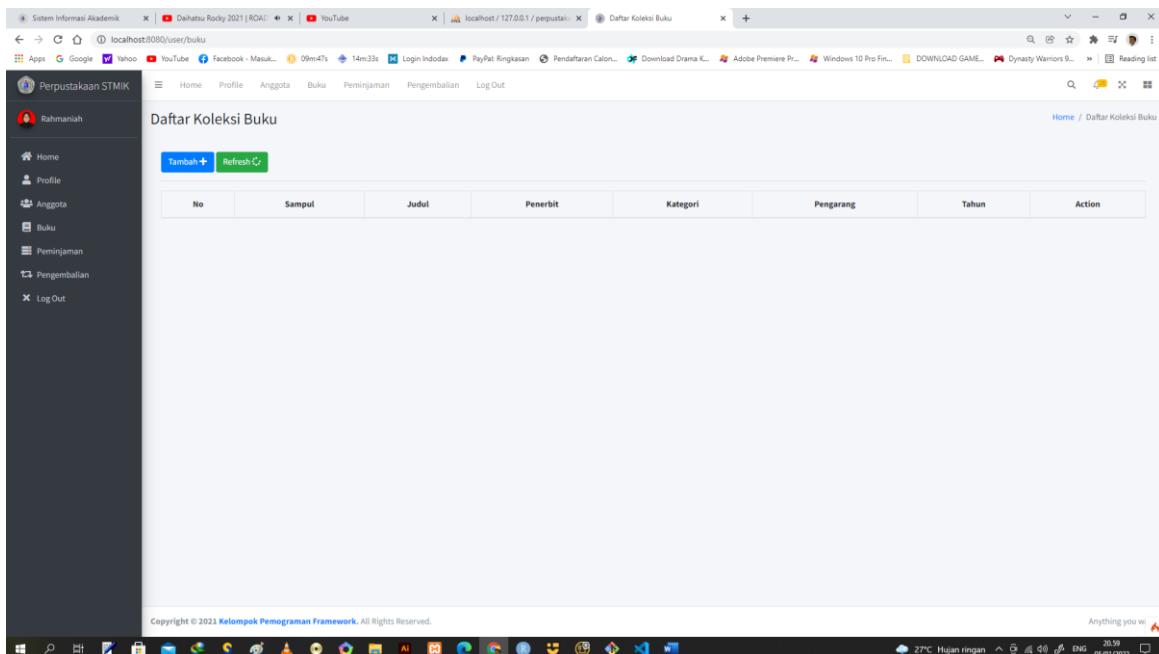
```
</tr>
```

```
</tbody>
```

```
</table>
```

```
</div>
```

```
<div style="text-align: right; margin-top: 10px;"><a href="#" class="btn btn-primary" onclick="location.reload();">Refresh</a>
```



- Membuat function untuk membuat record data buku

```

1
2  public function create()
3  {
4
5      $data = [
6          'pageTitle' => 'Input Koleksi Buku',
7          'validation' => \Config\Services::validation()
8      ];
9
10     return view('dashboard/buku_create', $data);
11 }

```

- Source halaman untuk membuat record data buku

```

1 <?= $this->extend('layout/dashboard-layout'); ?>
2 <?= $this->section('content'); ?>
3 <div class="col-md-10">
4     <!-- general form elements -->
5
6     <div class="card card-primary">
7         <div class="card-header">
8             <h3 class="card-title"> <a href=<?= base_url('buku'); ?> class="btn btn-primary"> <i class="fas fa-arrow-left"></i></a> Tambah Koleksi Buku</h3>
9         </div>
10        <!-- card header -->
11        <div class="card-body">
12            <!-- form start -->
13            <?php if (!empty(session()->getFlashdata('error'))): ?>
14                <div class="alert alert-light alert-dismissible fade show" role="alert">
15                    <h4 class="alert-heading">Periksa Entri Form</h4>
16                    <hr />
17                    <?php echo session()->getFlashdata('error'); ?>
18                    <button type="button" class="close" data-dismiss="alert" aria-label="Close">
19                        <span aria-hidden="true">&times;</span>
20                    </button>
21                </div>
22            <?php endif; ?>
23            <form class="" method="post" action=<?= base_url('buku/store') ?> enctype="multipart/form-data">
24                <?php csrf_field(); ?>
25                <div class="card-body">
26                    <div class="form-group row">
27                        <label for="judul" class="col-sm-2 col-form-label">Judul</label>
28                        <div class="col-sm-6">
29                            <input type="text" class="form-control" id="judul" name="judul" placeholder="Judul Buku" value=<?= old('judul'); ?>>
30                        </div>
31                    </div>
32
33                    <div class="form-group row">
34                        <label for="penerbit" class="col-sm-2 col-form-label">Penerbit</label>
35                        <div class="col-sm-6">
36                            <input type="text" class="form-control" id="penerbit" name="penerbit" placeholder="Penerbit Buku" value=<?= old('penerbit'); ?>>
37                        </div>
38                    </div>
39
40                    <div class="form-group row">
41                        <label for="kategori" class="col-sm-2 col-form-label">Kategori</label>
42                        <div class="col-sm-6">
43                            <input type="text" class="form-control" id="kategori" name="kategori" placeholder="Kategori Buku" value=<?= old('kategori'); ?>>
44                        </div>
45                    </div>
46
47                    <div class="form-group row">
48                        <label for="pengarang" class="col-sm-2 col-form-label">Pengarang</label>
49                        <div class="col-sm-6">
50                            <input type="text" class="form-control" id="pengarang" name="pengarang" placeholder="Pengarang Buku" value=<?= old('pengarang'); ?>>
51                        </div>
52                    </div>
53
54                    <div class="form-group row">
55                        <label for="tahun" class="col-sm-2 col-form-label">Tahun Terbit</label>
56                        <div class="col-sm-6">
57                            <input type="text" class="form-control" id="tahun" name="tahun" placeholder="Tahun Terbit Buku" value=<?= old('tahun'); ?>>
58                        </div>
59                    </div>
60
61
62                    <div class="form-group row">
63                        <label for="deskripsi" class="col-sm-2 col-form-label">Deskripsi</label>
64
65                        <div class="col-sm-10">
66                            <textarea class="form-control" name="deskripsi" id="deskripsi" placeholder="Deskripsi Singkat Tentang Buku (Maksimal 500 Karakter)"><?= old('deskripsi') ?></textarea>
67                        </div>
68
69                    </div>
70
71                    <div class="form-group row">
72                        <label for="sampul" class="col-sm-2 col-form-label">Sampul</label>
73                        <div class="custom-file col-sm-6">
74                            <input type="file" class="custom-file-input" <?= ($validation->hasError('sampul')) ? 'is-invalid' : '' ; ?> id="foto" name="sampul">
75                            <div class="invalid-feedback">
76                                <?= $validation->getError('sampul'); ?>
77                            </div>
78                            <label class="custom-file-label" for="sampul">Pilih Sampul Buku </label>
79                        </div>
80                    </div>
81
82                </div> <!-- card-body -->
83            <div class="card-footer">
84
85                <button type="reset" class="btn btn-success">Reset</button>
86                <button type="submit" class="btn btn-primary">Simpan</button>
87
88            </div>
89            <!-- /.card-footer -->
90        </div>
91        <!-- /.card -->
92    </div>
93 <?= $this->endSection('content'); ?>

```

Contoh hasil halaman tambah data buku

Judul: Teknik Riset Operasional (Edisi 2)

Penerbit: Mitra Wacana Media

Kategori: Edukasi

Pengarang: Sri Mulyono,S.E., M.Sc.

Tahun Terbit: 2010

Deskripsi: primer took a galley or type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem ipsum.

Sampul: Pilih Sampul Buku

Reset Simpan

- Membuat validasi saat melakukan submit agar record data bisa sesuai dengan yang telah ditentukan

```

● ● ●
1  public function store()
2  {
3      if (!$this->validate([
4          'judul' => [
5              'rules' => 'required',
6              'errors' => [
7                  'required' => '{field} Harus diisi',
8              ]
9          ],
10         'penerbit' => [
11             'rules' => 'required',
12             'errors' => [
13                 'required' => '{field} Harus diisi'
14             ]
15         ],
16         'kategori' => [
17             'rules' => 'required',
18             'errors' => [
19                 'required' => '{field} Harus diisi'
20             ]
21         ],
22         'pengarang' => [
23             'rules' => 'required',
24             'errors' => [
25                 'required' => '{field} Harus diisi'
26             ]
27         ],
28         'tahun' => [
29             'rules' => 'required',
30             'errors' => [
31                 'required' => '{field} Harus diisi'
32             ]
33         ],
34     ],
35     'deskripsi' => [
36         'rules' => 'required',
37         'errors' => [
38             'required' => '{field} Harus diisi'
39         ]
40     ],
41     'sampul' => [
42         'rules' => 'max_size[sampul,2024]|is_image[sampul]|mime_in[sampul,image/jpg,image/jpeg,image/png]',
43         'errors' => [
44             'max_size' => 'Ukuran Gambar Terlalu Besar',
45             'is_image' => 'Yang Anda Pilih Bukan Gambar',
46             'mime_in' => 'Yang Anda Pilih Bukan Gambar'
47         ]
48     ],
49   ]));
50 }
51 })
52 {
53     session()->setflashdata('error', $this->validator->listErrors());
54     return redirect()->back()->withinput();
55 }
56 }
57

```



```

● ● ●
1  $fileSampul = $this->request->getFile('sampul');
2  //cek dulu
3  if ($fileSampul->getError() == 4) {
4      $namaSampul = 'sampul-1.png';
5  } else {
6      //bikin nama sampul random
7      $namaSampul = $fileSampul->getRandomName();
8      //pindahkan file ke folder sampul
9      $fileSampul->move('sampul', $namaSampul);
10 }
11
12 $this->buku->insert([
13     'judul' => $this->request->getVar('judul'),
14     'penerbit' => $this->request->getVar('penerbit'),
15     'kategori' => $this->request->getVar('kategori'),
16     'pengarang' => $this->request->getVar('pengarang'),
17     'tahun' => $this->request->getVar('tahun'),
18     'deskripsi' => $this->request->getVar('deskripsi'),
19     'sampul' => $namaSampul,
20   ]);
21 session()->setflashdata('message', 'Tambah Data Buku Berhasil');
22 return redirect()->to('/buku');
23 }

```

- Jika setelah meng-klik tombol simpan maka membuktikan bahwa data berhasil ditambahkan.

The screenshot shows a web browser window with multiple tabs open. The active tab is titled "Daftar Koleksi Buku". The page displays a success message "Tambah Data Buku Berhasil" (Book data added successfully) in a green box. Below this, there is a table with the following data:

No	Sampul	Judul	Penerbit	Kategori	Pengarang	Tahun	Action
1		Teknik Riset Operasional (Edisi 2)	Mitra Wacana Media	Edukasi	Sri Mulyono,S.E.,M.Sc.	2010	

The left sidebar shows navigation links: Home, Profile, Anggota, Buku, Peminjaman, Pengembalian, and Log Out. The user is identified as "Rahmaniah". The status bar at the bottom indicates the date as 05/01/2022 and the time as 21:19.

- Membuat function edit yang berdasarkan dengan id_buku.

```

1 public function edit($id_buku)
2 {
3     $dataBuku = $this->buku->find($id_buku);
4     if (empty($dataBuku)) {
5         throw new \CodeIgniter\Exceptions\PageNotFoundException('Data Buku Tidak Ditemukan !');
6     }
7     $data = [
8         'pageTitle' => 'Edit Data Buku',
9         'validation' => \Config\Services::validation(),
10        'buku' => $dataBuku
11    ];
12    return view('dashboard/buku_edit', $data);
13 }

```

- Membuat function update yang merupakan proses dari edit yang berdasarkan id_buku

```

1  public function update($id_buku)
2  {
3
4      if (!$this->validate([
5          'judul' => [
6              'rules' => 'required',
7              'errors' => [
8                  'required' => '{field} Harus diisi',
9              ]
10         ],
11         'penerbit' => [
12             'rules' => 'required',
13             'errors' => [
14                 'required' => '{field} Harus diisi'
15             ]
16         ],
17         'kategori' => [
18             'rules' => 'required',
19             'errors' => [
20                 'required' => '{field} Harus diisi'
21             ]
22         ],
23         'pengarang' => [
24             'rules' => 'required',
25             'errors' => [
26                 'required' => '{field} Harus diisi'
27             ]
28         ],
29         'tahun' => [
30             'rules' => 'required',
31             'errors' => [
32                 'required' => '{field} Harus diisi'
33             ]
34         ],
35         'deskripsi' => [
36             'rules' => 'required',
37             'errors' => [
38                 'required' => '{field} Harus diisi'
39             ]
40         ],
41         'sampul' => [
42             'rules' => 'max_size[sampul,2024]|is_image[sampul]|mime_in[sampul,image/jpg,image/jpeg,image/png]',
43             'errors' => [
44                 'max_size' => 'Ukuran Gambar Terlalu Besar',
45                 'is_image' => 'Yang Anda Pilih Bukan Gambar',
46                 'mime_in' => 'Yang Anda Pilih Bukan Gambar'
47             ]
48         ],
49     ]))
50     {
51         session()->setflashdata('error', $this->validator->listErrors());
52         return redirect()->back()->withInput();
53     }
54 }

```

```

1  $fileSampullama = $this->request->getFile('sampul');
2  //pengecekan photo Lama
3  if ($fileSampullama->getError() == 4) {
4      $namaSampul = 'sampul-1.png';
5  } else {
6      $namaSampul = $fileSampullama->getRandomName();
7      $fileSampullama->move('sampul', $namaSampul);
8      unlink('sampul/' . $this->request->getVar('Sampullama'));
9  }
10
11
12 $this->buku->update($id_buku, [
13     'judul' => $this->request->getVar('judul'),
14     'penerbit' => $this->request->getVar('penerbit'),
15     'kategori' => $this->request->getVar('kategori'),
16     'pengarang' => $this->request->getVar('pengarang'),
17     'tahun' => $this->request->getVar('tahun'),
18     'deskripsi' => $this->request->getVar('deskripsi'),
19     'sampul' => $namaSampul,
20 ]);
21 session()->setflashdata('message', 'Data Data Buku Berhasil');
22 return redirect()->to('/buku');
23 }

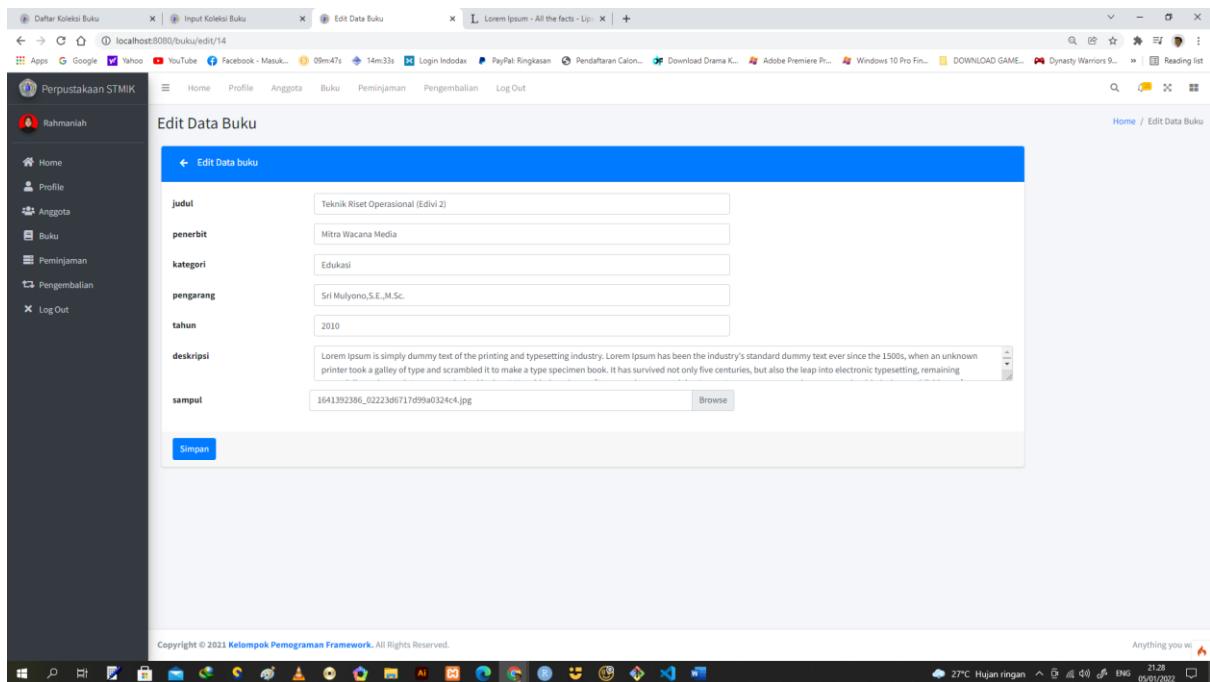
```

- Membuat halaman untuk melakukan edit data buku

```

1  <?= $this->extend('layout/dashboard-layout'); ?>
2  <?= $this->section('content'); ?>
3  <div class="col-md-10">
4      <!-- general form elements -->
5      <div class="card card-primary">
6          <div class="card-header">
7              <h3 class="card-title"><a href="= base_url('buku'); ?&gt;" class="btn btn-primary" &lt;i class="fas fa-arrow-left"&gt;&lt;/i&gt;&lt;/a&gt; Edit Data buku&lt;/h3&gt;
8          &lt;/div&gt;
9          &lt;!-- form start --&gt;
10         &lt;?php if (!empty(session()-getFlashdata('error'))): ?>
11             <div class="alert alert-light alert-dismissible fade show" role="alert">
12                 <h4>Periksa Entrian Form</h4>
13                 <hr />
14                 <?php echo session()->getFlashdata('error'); ?>
15                 <button type="button" class="close" data-dismiss="alert" aria-label="Close">
16                     <span aria-hidden="true">&times;</span>
17                 </button>
18             </div>
19         </?php endif; ?>
20         <form class="horizontal" method="post" action="= base_url('buku/update/' . $buku-&gt;id_buku) ?&gt;" enctype="multipart/form-data"&gt;
21             &lt;input type="hidden" name="Lama" value="<?= $buku-&gt;sampul; ?&gt;"&gt;
22             &lt;?= csrf_field(); ?&gt;
23             &lt;div class="card-body"&gt;
24                 &lt;div class="form-group row"&gt;
25                     &lt;label for="judul" class="col-sm-2 col-form-label"&gt;judul&lt;/label&gt;
26                     &lt;div class="col-sm-6"&gt;
27                         &lt;input type="text" class="form-control" id="judul" name="judul" value="<?= $buku-&gt;judul; ?&gt;"&gt;
28                     &lt;/div&gt;
29                 &lt;/div&gt;
30                 &lt;div class="form-group row"&gt;
31                     &lt;label for="penerbit" class="col-sm-2 col-form-label"&gt;penerbit&lt;/label&gt;
32                     &lt;div class="col-sm-6"&gt;
33                         &lt;input type="text" class="form-control" id="penerbit" name="penerbit" value="<?= $buku-&gt;penerbit; ?&gt;"&gt;
34                     &lt;/div&gt;
35                 &lt;/div&gt;
36                 &lt;div class="form-group row"&gt;
37                     &lt;label for="kategori" class="col-sm-2 col-form-label"&gt;kategori&lt;/label&gt;
38                     &lt;div class="col-sm-6"&gt;
39                         &lt;input type="text" class="form-control" id="kategori" name="kategori" value="<?= $buku-&gt;kategori; ?&gt;"&gt;
40                     &lt;/div&gt;
41                 &lt;/div&gt;
42                 &lt;div class="form-group row"&gt;
43                     &lt;label for="pengarang" class="col-sm-2 col-form-label"&gt;pengarang&lt;/label&gt;
44                     &lt;div class="col-sm-6"&gt;
45                         &lt;input type="text" class="form-control" id="pengarang" name="pengarang" value="<?= $buku-&gt;pengarang; ?&gt;"&gt;
46                     &lt;/div&gt;
47                 &lt;/div&gt;
48
49                 &lt;div class="form-group row"&gt;
50                     &lt;label for="tahun" class="col-sm-2 col-form-label"&gt;tahun&lt;/label&gt;
51                     &lt;div class="col-sm-6"&gt;
52                         &lt;input type="text" class="form-control" id="tahun" name="tahun" value="<?= $buku-&gt;tahun; ?&gt;"&gt;
53                     &lt;/div&gt;
54                 &lt;/div&gt;
55
56                 &lt;div class="form-group row"&gt;
57                     &lt;label for="deskripsi" class="col-sm-2 col-form-label"&gt;deskripsi&lt;/label&gt;
58                     &lt;div class="col-sm-10"&gt;
59                         &lt;textarea class="form-control" name="deskripsi" id="deskripsi" &gt;<?= $buku-&gt;deskripsi; ?&gt;&lt;/textarea&gt;
60                     &lt;/div&gt;
61                 &lt;/div&gt;
62
63                 &lt;div class="form-group row"&gt;
64                     &lt;label for="sampul" class="col-sm-2 col-form-label"&gt;sampul&lt;/label&gt;
65                     &lt;div class="custom-file col-sm-6"&gt;
66                         &lt;input type="file" class="custom-file-input" &gt;<?= ($validation-&gt;hasError('sampul')) ? 'is-invalid' : ''; ?&gt; id="foto" name="sampul"&gt;
67                         &lt;div class="invalid-feedback"&gt;
68                             &lt;?php $validation-&gt;getError('sampul'); ?&gt;
69                         &lt;/div&gt;
70                         &lt;label class="custom-file-label" for="sampul" &gt;<?= $buku-&gt;sampul; ?&gt;&lt;/label&gt;
71                     &lt;/div&gt;
72                 &lt;/div&gt;
73             &lt;/div&gt;
74
75             &lt;!-- /.card_body --&gt;
76             &lt;div class="card-footer"&gt;
77
78                 &lt;button type="submit" class="btn btn-primary"&gt;Simpan&lt;/button&gt;
79
80             &lt;/div&gt;
81             &lt;!-- /.card_footer --&gt;
82         &lt;/form&gt;
83     &lt;/div&gt;
84     &lt;!-- /.card --&gt;
85 &lt;/div&gt;
86 &lt;?= $this-&gt;endSection('content'); ?&gt;
</pre

```



- Membuat function view untuk melihat data buku lebih detail.

```
1
2 public function view($id_buku)
3 {
4     $dataBuku = $this->buku->find($id_buku);
5     if (empty($dataBuku)) {
6         throw new \CodeIgniter\Exceptions\PageNotFoundException('Data Buku Tidak ditemukan !');
7     }
8     $data['pageTitle'] = 'Data Buku';
9     $data['buku'] = $dataBuku;
10    return view('dashboard/buku_view', $data);
11 }
```

- Membuat halaman view untuk menampilkan detail dari data buku.

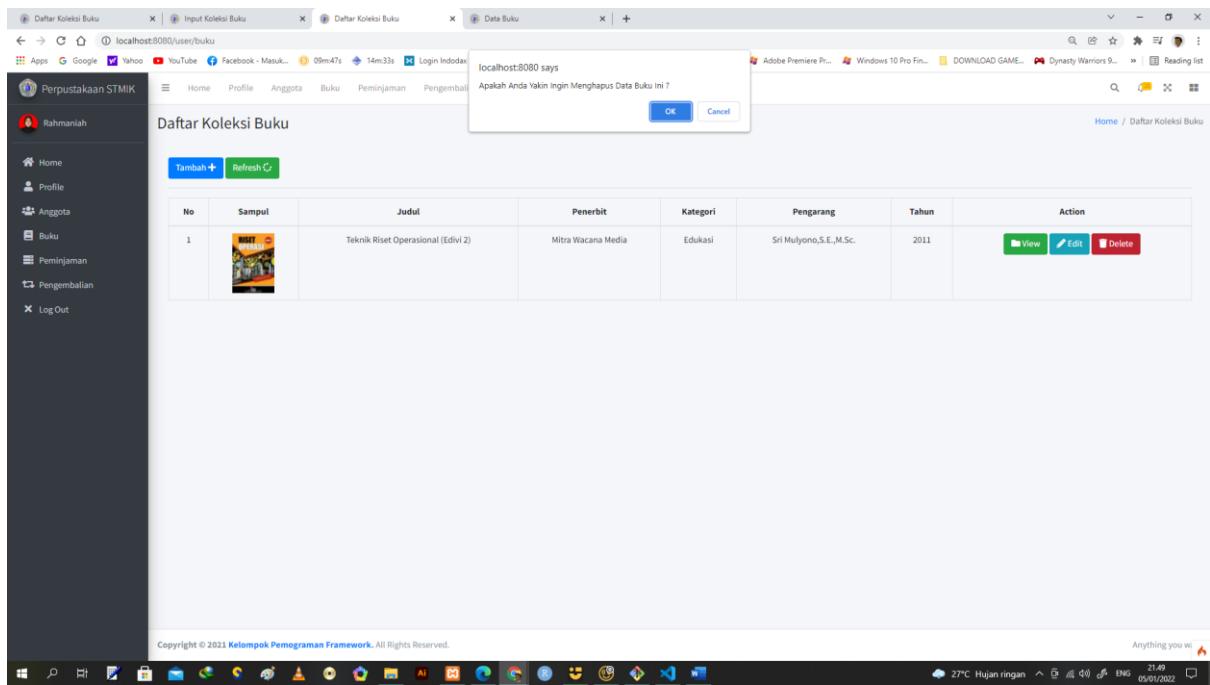
```

1  <?= $this->extend('layout/dashboard-layout'); ?>
2  <?= $this->section('content'); ?>
3  <div class="col-md-12">
4      <!-- general_form_elements -->
5      <section class="content">
6          <div class="container-fluid">
7              <div class="row">
8                  <!-- ./card-header -->
9                  <!-- form start -->
10                 <div class="col-md-3">
11                     <!-- Profile Image -->
12
13                     <div class="card card-primary card-outline">
14                         <div class="card-body box-profile">
15                             <div class="text-center">
16                                 <h2 class="text-bold">Cover Buku</h2>
17                                 
18                             </div>
19
20
21                     </div>
22                     <!-- /.card-body -->
23                 </div>
24                 <!-- /.card -->
25             </div>
26             <div class="col-md-9">
27                 <div class="card card-primary">
28                     <div class="card-header">
29                         <h3 class="card-title"><a href="= base_url('buku'); ?&gt;" class="btn btn-primary"<i class="fas fa-arrow-left"></i></a> Tentang Buku</h3>
30                     </div>
31                     <!-- /.card-header -->
32                     <div class="card-body">
33                         <strong><i class="fas fa-book mr-1"></i> Judul Buku</strong>
34                         <p class="text-muted"><?= $buku->judul; ?>
35                         <hr>
36                         <strong><i class="fas fa-user mr-1"></i> Pengarang</strong>
37                         <p class="text-muted"><?= $buku->pengarang; ?></p>
38
39                         <br>
40                         <strong><i class="fas fa-calendar mr-1"></i> Tahun Terbit</strong>
41                         <p class="text-muted"><?= $buku->tahun; ?></p>
42                         <br>
43                         <strong><i class="fas fa-cubes mr-1"></i> Penerbit</strong>
44                         <p class="text-muted"><?= $buku->penerbit;
45                         </p>
46
47                         <br>
48                         <strong><i class="fas fa-edit mr-1"></i> Deskripsi Buku</strong>
49                         <p class="text-muted"><?= $buku->deskripsi;
50                         ></p>
51
52                     </div>
53                     <!-- /.card-body -->
54                 </div>
55                 <!-- /.card -->
56             </div>
57         <!-- /.card -->
58     </div>
59     <!-- /.card -->
60
61 </div>
62 <?= $this->endSection('content'); ?>
63

```

The screenshot shows a web application interface for managing library data. On the left, there is a sidebar with navigation links: Home, Profile, Anggota, Buku, Peminjaman, Pengembalian, and Log Out. The main content area has tabs for 'Daftar Koleksi Buku', 'Input Koleksi Buku', and 'Data Buku'. The 'Data Buku' tab is active, displaying a book cover for 'RISET OPERASI' and a detailed information card. The card includes the book title, author (Sri Mulyono, S.E., M.Sc.), year of publication (2011), publisher (Mitra Wacana Media), and a note about the placeholder text 'Lorem ipsum'. The browser's address bar shows the URL as 'localhost:5000/buku/view/14'. The status bar at the bottom indicates the date as '05/01/2022' and the time as '21:41'.

- Proses menghapus hasil dari record data buku.



The screenshot shows a Java web application window titled "Data Buku". A confirmation dialog box is overlaid on the page, asking "Apakah Anda Yakin Ingin Menghapus Data Buku ini ?" with "OK" and "Cancel" buttons. The main table displays a single book entry:

No	Sampul	Judul	Penerbit	Kategori	Pengarang	Tahun	Action
1		Teknik Riset Operasional (Edisi 2)	Mitra Wacana Media	Edukasi	Sri Mulyono,S.E.,M.Sc.	2011	

Below the table, a green success message box says "Delete Data Mahasiswa Berhasil".

CRUD Data Peminjaman

Andi Lafito (C2055201031)

- Membuat database migration untuk table peminjaman

```
1 <?php
2
3 namespace App\Database\Migrations;
4
5 use CodeIgniter\Database\Migration;
6
7 class Peminjaman extends Migration
8 {
9     public function up()
10    {
11        $this->forge->addField([
12            'id_peminjaman' => [
13                'type' => 'INT',
14                'constraint' => 11,
15                'unsigned' => true,
16                'auto_increment' => true,
17            ],
18            'nim' => [
19                'type' => 'VARCHAR',
20                'constraint' => '11',
21            ],
22            'id_buku' => [
23                'type' => 'INT',
24                'constraint' => 100,
25            ],
26            'tgl_pinjam' => [
27                'type' => 'DATE',
28            ],
29            'tgl_kembali' => [
30                'type' => 'DATE',
31            ],
32            'created_at' => [
33                'type' => 'DATETIME',
34            ],
35            'updated_at' => [
36                'type' => 'DATETIME',
37            ],
38        ]);
39    }
40
41    $this->forge->addKey('id_peminjaman', true);
42    $this->forge->addForeignKey('nim', 'mahasiswa', 'nim');
43    $this->forge->addForeignKey('id_buku', 'buku', 'id_buku');
44    $this->forge->createTable('peminjaman');
45 }
46
47
48 public function down()
49 {
50     $this->forge->dropForeignKey('nim', 'mahasiswa', 'nim');
51     $this->forge->dropForeignKey('id_buku', 'buku', 'id_buku');
52     $this->forge->dropTable('peminjaman');
53 }
54 }
55 }
```

- Membuat model peminjaman untuk meload atau memanggil tabel peminjaman yang sudah dibuat.

```

1 <?php
2
3 namespace App\Models;
4
5 use CodeIgniter\Model;
6
7 class PeminjamanModel extends Model
8 {
9     protected $table = "peminjaman";
10    protected $primaryKey = "id_peminjaman";
11    protected $returnType = "object";
12    protected $useTimestamps = true;
13    protected $allowedFields = ['id_peminjaman', 'nim', 'id_buku', 'tgl_kembali', 'tgl_pinjam'];
14
15    function getAll()
16    {
17        $builder = $this->db->table('peminjaman');
18        $builder->join('buku', 'buku.id_buku = peminjaman.id_buku');
19        $builder->join('mahasiswa', 'mahasiswa.nim = peminjaman.nim');
20
21        $query = $builder->get();
22        return $query->getResult();
23    }
24 }
25
26

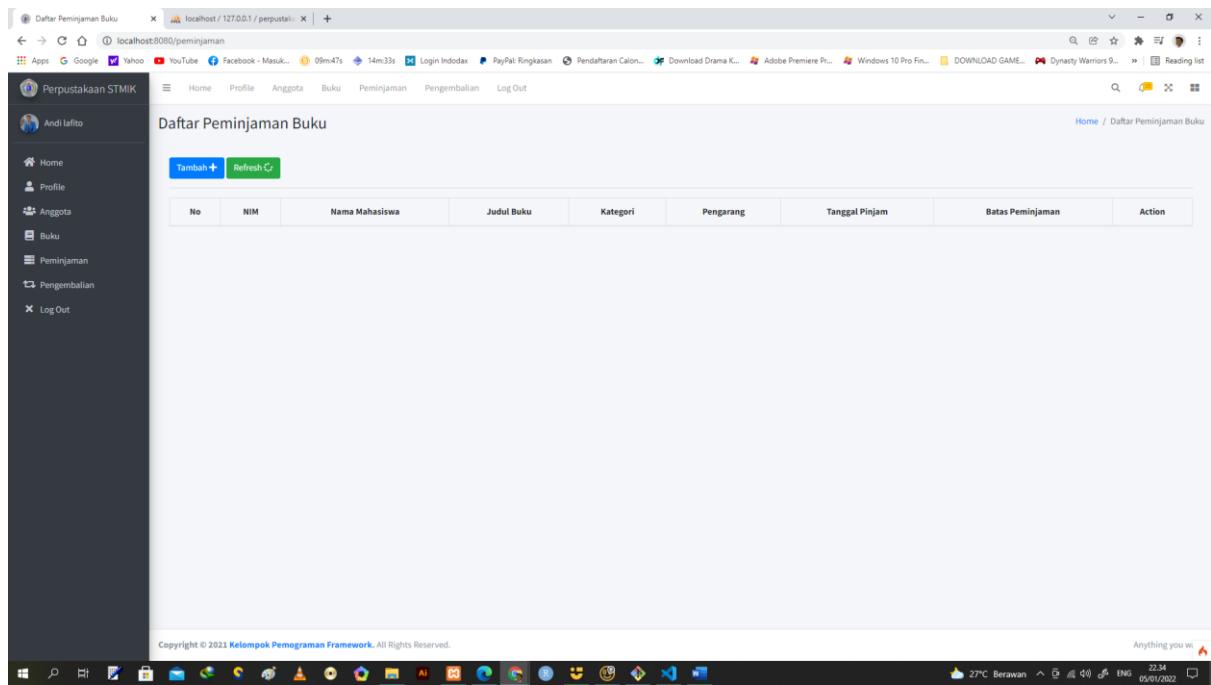
```

- Membuat controller buku sebagai pengontrol seluruh aktifitas yang akan dilakukan pada halaman buku, function index bertidak sebagai halaman utama dari peminjaman.

```

1 public function index()
2
3 {
4     $data['peminjaman'] = $this->peminjaman->getAll();
5     $data['pageTitle'] = 'Daftar Peminjaman Buku ';
6     return view('peminjaman/index', $data);
7 }

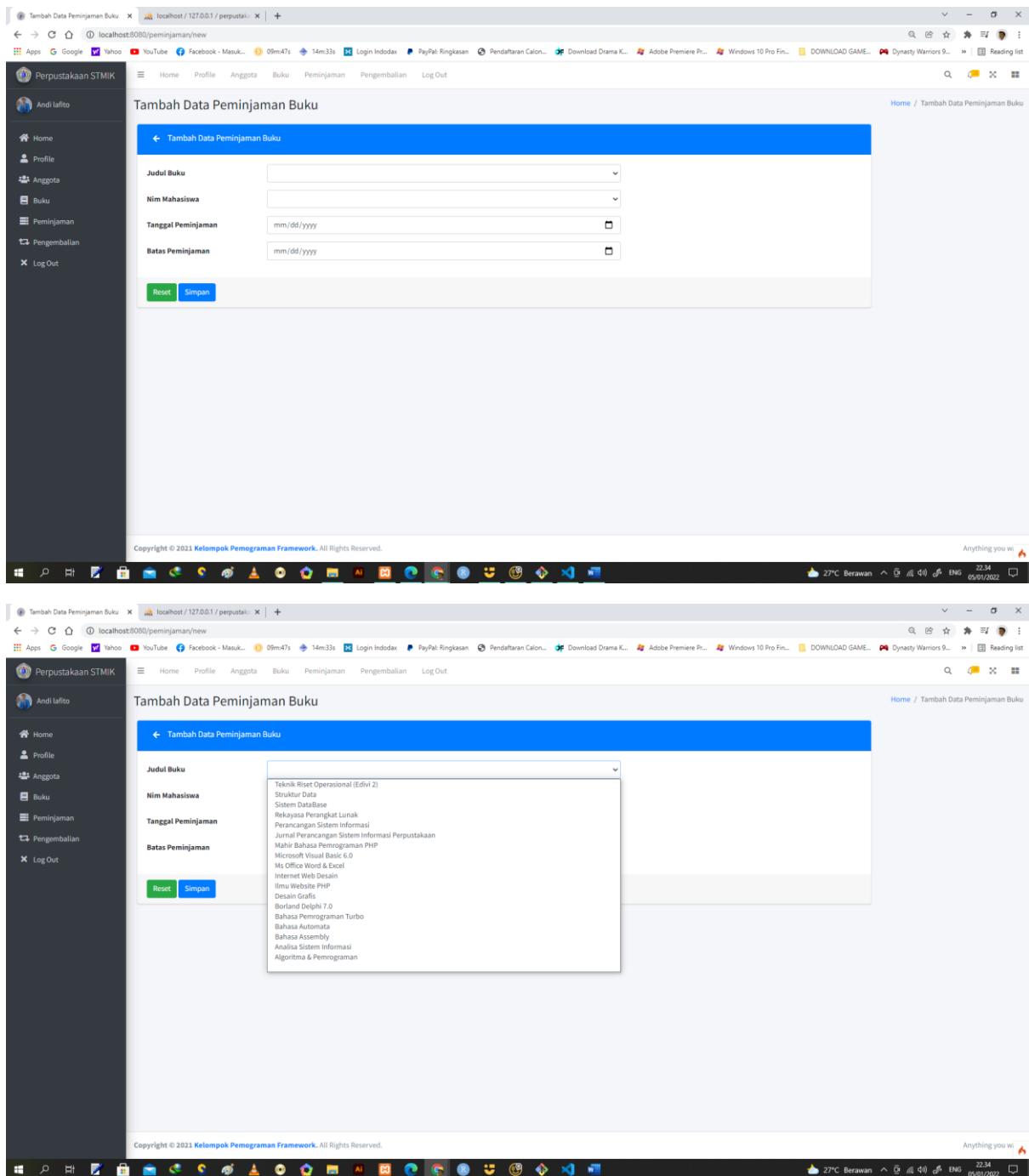
```



- Membuat function new yang bertidak sebagai halaman dari tambah data peminjaman buku.

```
1 public function new()
2 {
3     $data['pageTitle'] = 'Tambah Data Peminjaman Buku';
4
5     $data['buku'] = $this->buku->findAll();
6     $data['mahasiswa'] = $this->mahasiswa->findAll();
7     $data['peminjaman'] = $this->peminjaman->findAll();
8     return view('peminjaman/new', $data);
9 }
```

- Tampilan halaman data peminjaman buku



The screenshot shows two identical instances of a web-based library management system. Both instances are titled "Tambah Data Peminjaman Buku". The interface includes a left sidebar with navigation links: Home, Profile, Anggota, Buku, Peminjaman, Pengembalian, and Log Out. The main content area contains four dropdown menus:

- Judul Buku: A dropdown menu listing various titles such as "Teknik Riset Operasional (Edisi 2)", "Struktur Data", "Sistem Database", etc.
- Nim Mahasiswa: A dropdown menu listing student numbers.
- Tanggal Peminjaman: A date input field.
- Batas Peminjaman: A date input field.

At the bottom of each instance are two buttons: "Reset" and "Simpan". The bottom of the screen shows a Windows taskbar with various pinned and running applications.

Tambah Data Peminjaman Buku

Judul Buku:

Nim Mahasiswa:

Tanggal Peminjaman: (dropdown menu showing C2055201013, C2055201019, C2055201031)

Batas Peminjaman: (input field with placeholder mm/dd/yyyy)

Tambah Data Peminjaman Buku

Judul Buku: Microsoft Visual Basic 6.0

Nim Mahasiswa: C2055201031

Tanggal Peminjaman: 01/05/2022

Batas Peminjaman: 01/12/2022

- Function create yang bertidak sebagai proses dari tambah data agar bisa di tampilkan dihalaman utama peminjaman.

```

1 public function create()
2 {
3     $data = $this->request->getPost();
4     $this->peminjaman->insert($data);
5     session()->set_flashdata('message', 'Tambah Data Peminjaman Buku Berhasil');
6     return redirect()->to(site_url('peminjaman'));
7 }

```

- Disini membuktikan bahwa proses record data peminjaman buku berhasil dilakukan.

No	NIM	Nama Mahasiswa	Judul Buku	Kategori	Pengarang	Tanggal Pinjam	Batas Peminjaman	Action
1	C2055201031	Andi Lafito	Microsoft Visual Basic 6.0	Edukasi	Zidan Pala	05 January 2022	12 January 2022	<button>Edit</button> <button>Delete</button>

- Function edit yang bertidak sebagai pengatur aktifitas pada halaman edit yang berdasarkan id.

```

1 public function edit($id = null)
2 {
3     $data['pageTitle'] = 'Tambah Data Peminjaman Buku ';
4
5     $peminjaman = $this->peminjaman->find($id);
6     if (is_object($peminjaman)) {
7         $data['buku'] = $this->buku->findAll();
8         $data['mahasiswa'] = $this->mahasiswa->findAll();
9         $data['peminjaman'] = $peminjaman;
10        return view('peminjaman/edit', $data);
11        # code...
12    } else {
13        throw \CodeIgniter\Exceptions\PageNotFoundException::forPageNotFound();
14    }
15 }
16

```

Tambah Data Peminjaman Buku

Judul Buku: Teknik Riset Operasional (Edisi 2)

Nim Mahasiswa: C2055201019

Tanggal Peminjaman: 01/05/2022

Batas Peminjaman: 01/12/2022

Reset Simpan

- Function update yang bertidak sebagai pemproses dari edit data agar bisa menyimpan data yang di edit.

```

1 public function update($id = null)
2 {
3     $data = $this->request->getPost();
4     $this->peminjaman->update($id, $data);
5     session()->setflashdata('message', 'Update Data Peminjaman Buku Berhasil');
6     return redirect()->to(site_url('peminjaman'));
7 }

```

Daftar Peminjaman Buku

Update Data Peminjaman Buku Berhasil

Tambah Refresh

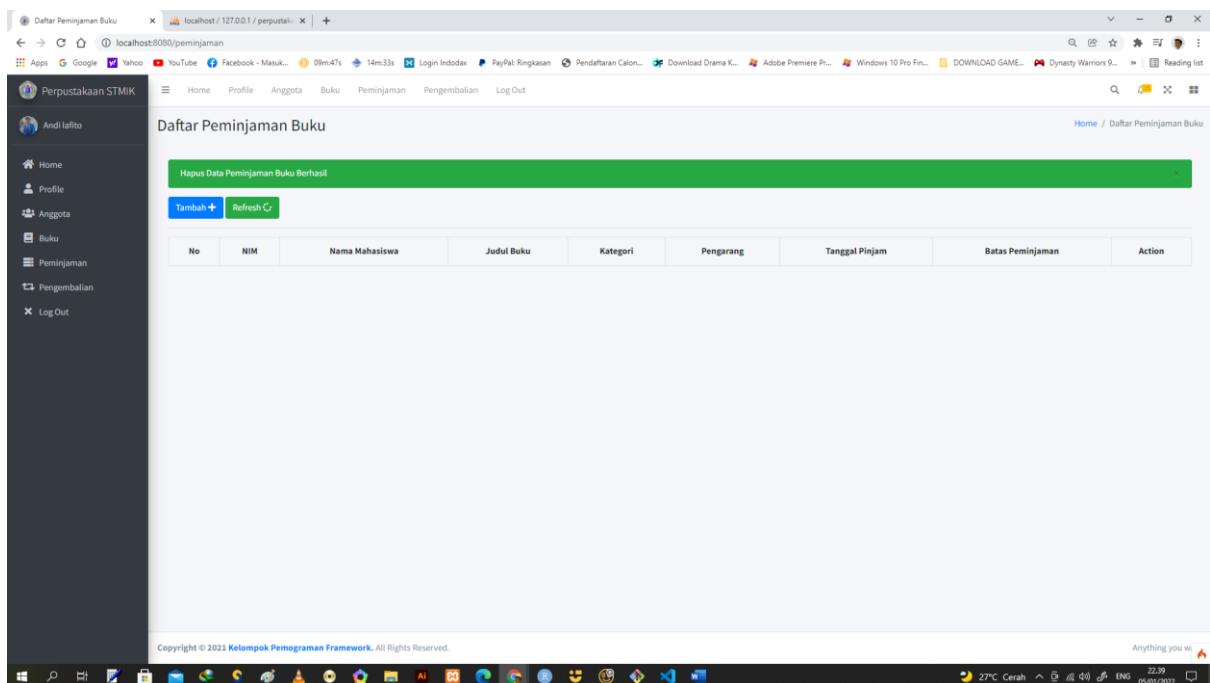
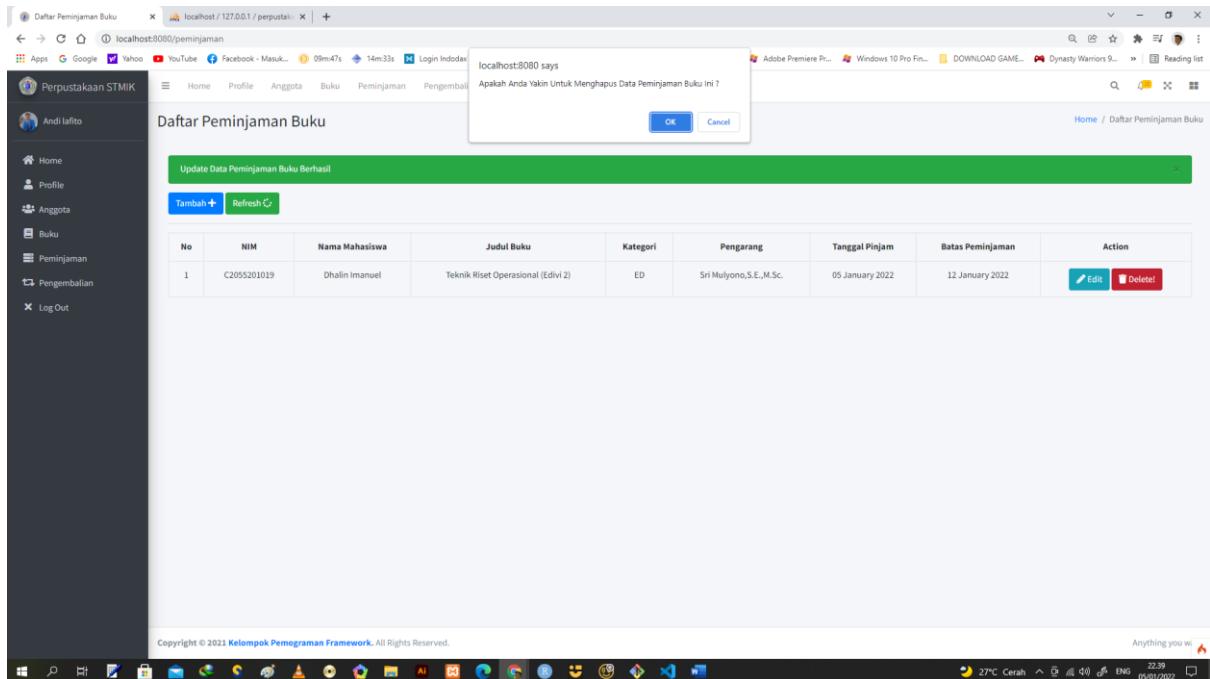
No	NIM	Nama Mahasiswa	Judul Buku	Kategori	Pengarang	Tanggal Pinjam	Batas Peminjaman	Action
1	C2055201019	Dhalin Immanuel	Teknik Riset Operasional (Edisi 2)	ED	Sri Mulyono,S.E.,M.Sc.	05 January 2022	12 January 2022	

- Function delete yang berguna untuk memproses hapus data secara permanen ke database.

```

1  public function delete($id = null)
2  {
3      $this->peminjaman->delete($id);
4      session()->set_flashdata('message', 'Hapus Data Peminjaman Buku Berhasil');
5      return redirect()->to(site_url('peminjaman'));
6  }

```



CRUD Data Pengembalian

Rhama Jason (C2055201033) & Feri (C2055201093)

- Membuat database migration untuk table pengembalian

```
● ● ●

1 <?php
2
3 namespace App\Database\Migrations;
4
5 use CodeIgniter\Database\Migration;
6
7 class Pengembalian extends Migration
8 {
9     public function up()
10    {
11        $this->forge->addField([
12            'id_pengembalian'      => [
13                'type'          => 'INT',
14                'constraint'   => 11,
15                'unsigned'     => true,
16                'auto_increment'=> true,
17            ],
18            'nim'           => [
19                'type'          => 'VARCHAR',
20                'constraint'   => '11',
21            ],
22            'id_buku'       => [
23                'type'          => 'INT',
24                'constraint'   => 100,
25            ],
26            'tgl_kembali'  => [
27                'type'          => 'DATE',
28            ],
29            'created_at'    => [
30                'type'          => 'DATETIME',
31            ],
32            'updated_at'   => [
33                'type'          => 'DATETIME',
34            ],
35            [
36            ]
37        ]);
38        $this->forge->addKey('id_pengembalian', true);
39        $this->forge->addForeignKey('nim', 'mahasiswa', 'nim');
40        $this->forge->addForeignKey('id_buku', 'buku', 'id_buku');
41        $this->forge->createTable('pengembalian');
42    }
43
44    public function down()
45    {
46        $this->forge->dropForeignKey('nim', 'mahasiswa', 'nim');
47        $this->forge->dropForeignKey('id_buku', 'buku', 'id_buku');
48        $this->forge->dropTable('pengembalian');
49    }
50 }
51 }
```

- Membuat model buku untuk meload atau memanggil tabel pengembalian yang sudah dibuat

```

1 <?php
2
3 namespace App\Models;
4
5 use CodeIgniter\Model;
6
7 class PengembalianModel extends Model
8 {
9     protected $table = "pengembalian";
10    protected $primaryKey = "id_pengembalian";
11    protected $returnType = "object";
12    protected $useTimestamps = true;
13    protected $allowedFields = ['id_pengembalian', 'nim', 'id_buku', 'tgl_kembali'];
14
15    function getAll()
16    {
17        $builder = $this->db->table('pengembalian');
18        $builder->join('buku', 'buku.id_buku = pengembalian.id_buku');
19        $builder->join('mahasiswa', 'mahasiswa.nim = pengembalian.nim');
20
21        $query = $builder->get();
22        return $query->getResult();
23    }
24 }
25
26

```

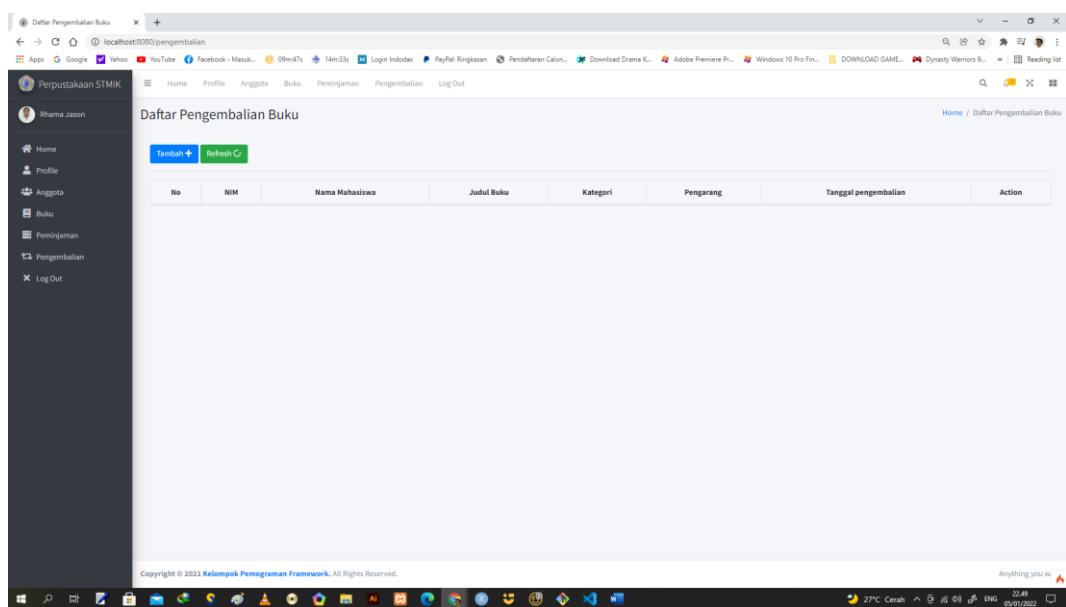
- Function index berfungsi sebagai control dari halaman utama



```

1 public function index()
2 {
3     $data['pengembalian'] = $this->pengembalian->getAll();
4
5
6
7     $data['pageTitle'] = 'Daftar Pengembalian Buku ';
8     return view('pengembalian/index', $data);
9 }

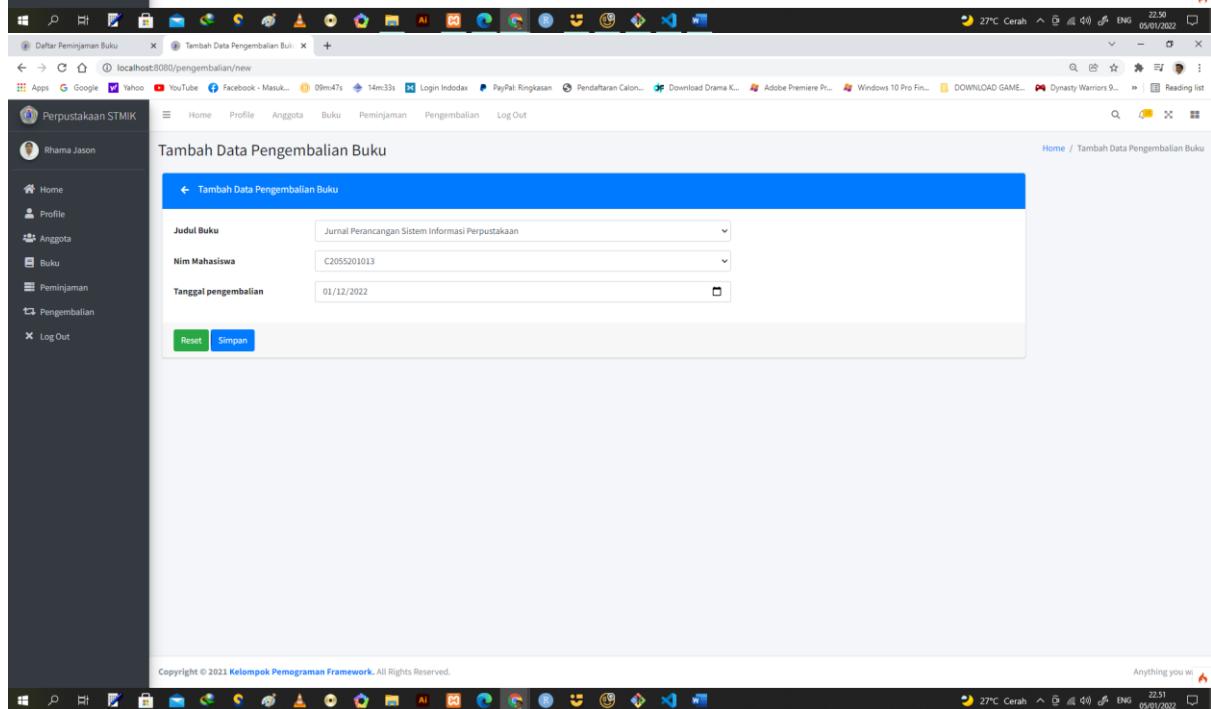
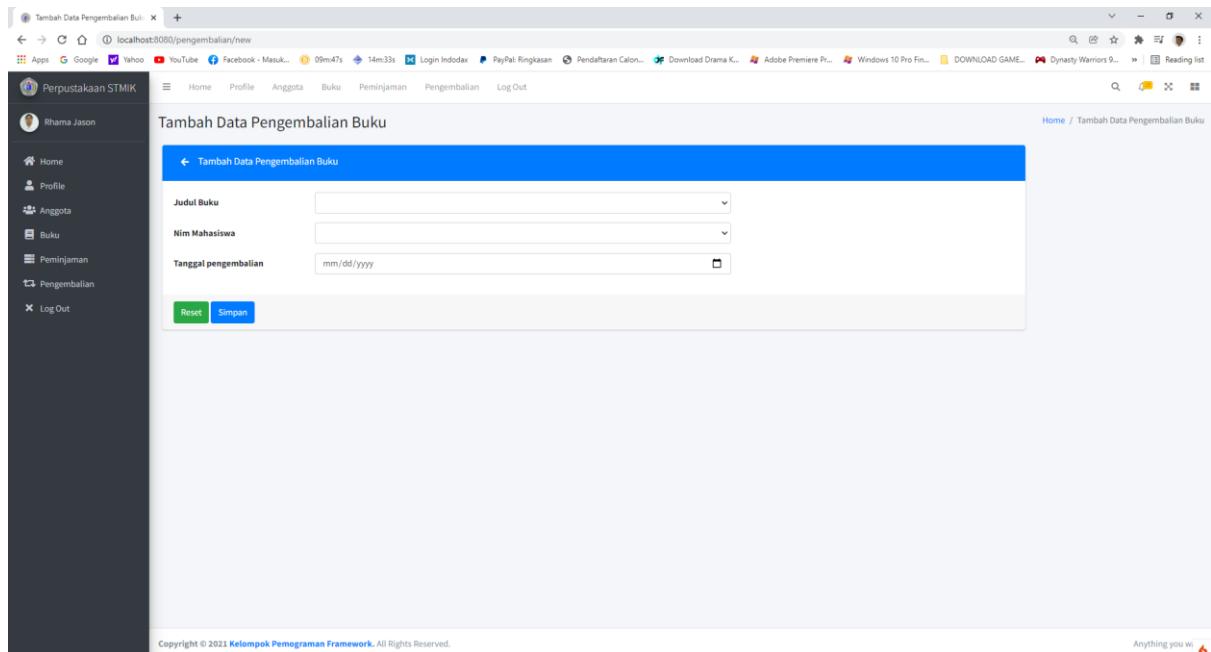
```




```

1 public function new()
2 {
3     $data['pageTitle'] = 'Tambah Data Pengembalian Buku ';
4     $data['buku'] = $this->buku->findAll();
5     $data['mahasiswa'] = $this->mahasiswa->findAll();
6     $data['pengembalian'] = $this->pengembalian->findAll();
7     return view('pengembalian/new', $data);
8 }

```



```
1 public function create()
2 {
3     $data = $this->request->getPost();
4     $this->pengembalian->insert($data);
5     session()->setFlashdata('message', 'Tambah Data Pengembalian Buku Berhasil');
6     return redirect()->to(site_url('pengembalian'));
7 }
```

The screenshot shows a web application interface. At the top, there is a code editor window displaying PHP code for creating a new record in a database table. Below it, a browser window is open to a page titled 'Daftar Pengembalian Buku'. The page header includes a sidebar with user profile information ('Rhama Jason') and navigation links ('Home', 'Profile', 'Anggota', 'Buku', 'Peminjaman', 'Pengembalian', 'Log Out'). The main content area displays a table with one row of data. The table has columns: No, NIM, Nama Mahasiswa, Judul Buku, Kategori, Pengarang, Tanggal pengembalian, and Action. The single row shows: No 1, NIM C105301013, Nama Mahasiswa Crisnawati, Judul Buku Jurnal Perancangan Sistem Informasi Perpustakaan, Kategori Jurnal, Pengarang -, Tanggal pengembalian 12 January 2022, and Action buttons for Edit and Delete. The browser's address bar shows the URL 'localhost:8080/pengembalian'. The taskbar at the bottom of the screen shows various system icons and the date/time '05/01/2022'.

Tambah Data Pengembalian Buku

Judul Buku: Jurnal Perancangan Sistem Informasi Perpustakaan

Nim Mahasiswa: C2055201013

Tanggal Pengembalian: 01/12/2022

Reset Simpan

```

1 public function update($id = null)
2 {
3     $data = $this->request->getPost();
4     $this->peminjaman->update($id, $data);
5     session()->setflashdata('message', 'Update Data Peminjaman Buku Berhasil');
6     return redirect()->to(site_url('peminjaman'));
7 }

```



```

1 public function edit($id = null)
2 {
3     $data['pageTitle'] = 'Tambah Data Peminjaman Buku ';
4
5     $peminjaman = $this->peminjaman->find($id);
6     if (is_object($peminjaman)) {
7         $data['buku'] = $this->buku->findAll();
8         $data['mahasiswa'] = $this->mahasiswa->findAll();
9         $data['peminjaman'] = $peminjaman;
10        return view('peminjaman/edit', $data);
11    # code...
12 } else {
13     throw \CodeIgniter\Exceptions\PageNotFoundException::forPageNotFound();
14 }
15 }
```

```

1 public function delete($id = null)
2 {
3     $this->peminjaman->delete($id);
4     session()->setflashdata('message', 'Hapus Data Peminjaman Buku Berhasil');
5     return redirect()->to(site_url('peminjaman'));
6 }
```

Multi Login User & Custom Helpers Login

Eky Wijianti (C2055201014)

- Membuat database seeding data dalam array agar data yang dimasukan dapat digunakan sebagai username dan password yang berbeda beda namun sesuai dengan yang ada dibawah ini.

```
1 <?php
2
3 namespace App\Database\Seeds;
4
5 use CodeIgniter\Database\Seeder;
6 use CodeIgniter\I18n\Time;
7
8 class UsersSeeder extends Seeder
9 {
10     public function run()
11     {
12         $data = [
13             [
14                 'username' => 'andilafito',
15                 'name'      => 'Andi Lafito',
16                 'password'  => password_hash('C2055201031', PASSWORD_BCRYPT),
17                 'foto'       => 'andi.jpg',
18             ],
19             [
20                 'username' => 'rhamajason',
21                 'name'      => 'Rama Jason',
22                 'password'  => password_hash('C2055201033', PASSWORD_BCRYPT),
23                 'foto'       => 'RHAMA.jpg',
24             ],
25             [
26                 'username' => 'feri',
27                 'name'      => 'Feri',
28                 'password'  => password_hash('C2055201093', PASSWORD_BCRYPT),
29                 'foto'       => 'feri.png',
30             ],
31             [
32                 'username' => 'rahmaniah',
33                 'name'      => 'Rahmaniah',
34                 'password'  => password_hash('C2055201014', PASSWORD_BCRYPT),
35                 'foto'       => 'RAHMA.jpg',
36             ],
37             [
38                 'username' => 'ekywijianti',
39                 'name'      => 'Eky Wijianti',
40                 'password'  => password_hash('C2055201001', PASSWORD_BCRYPT),
41                 'foto'       => 'eky.jpg',
42             ]
43         ];
44         $this->db->table('users')->insertBatch($data);
45     }
46 }
47
```

- Buat file custom_helpers.php di app\helpers

```

● ● ●

1 <?php
2 function userLogin()
3 {
4     $db = \Config\Database::connect();
5     return $db->table('users')->where('username', session('username'))->get()->getRow();
6 }
7

```

- Implementasi pada html dan php agar bisa ditampilkan pada halaman website,
<?= userLogin()->(sesuaikan field apa yang ingin ditampilkan).

```

● ● ●

1 <div class="info">
2     <a href="= route_to('user.profile') ? &gt;" class="d-block"<?= userLogin()->name ?></a>
3
4 </div>

```

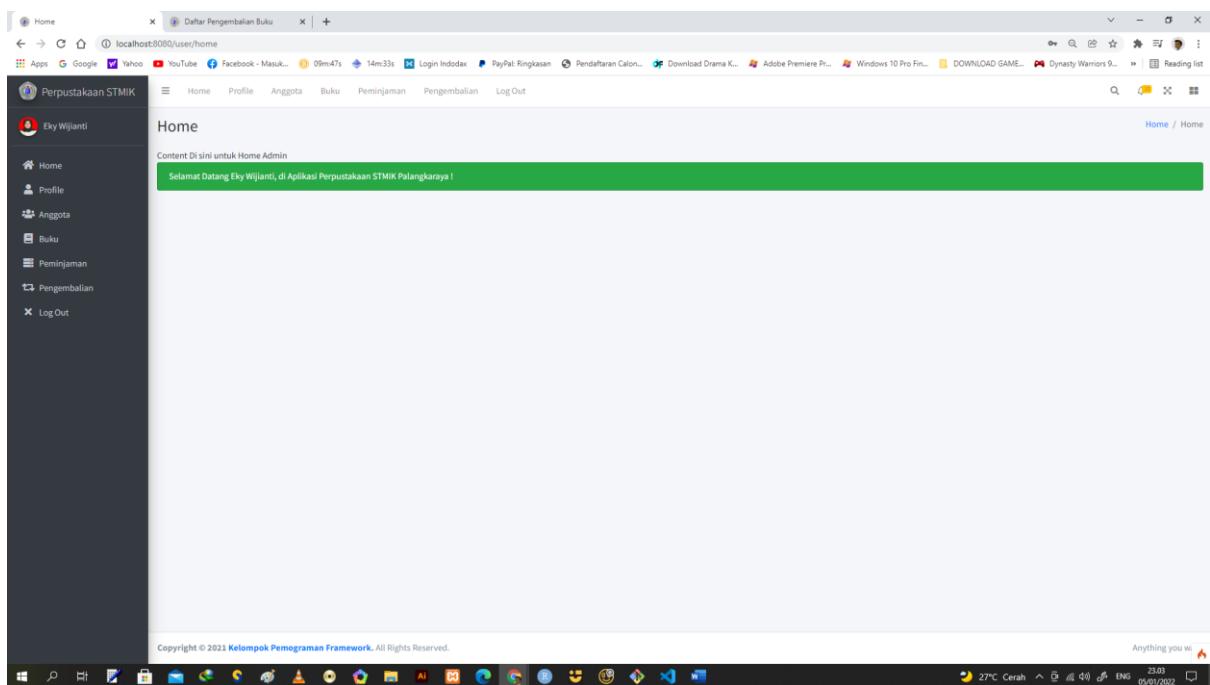
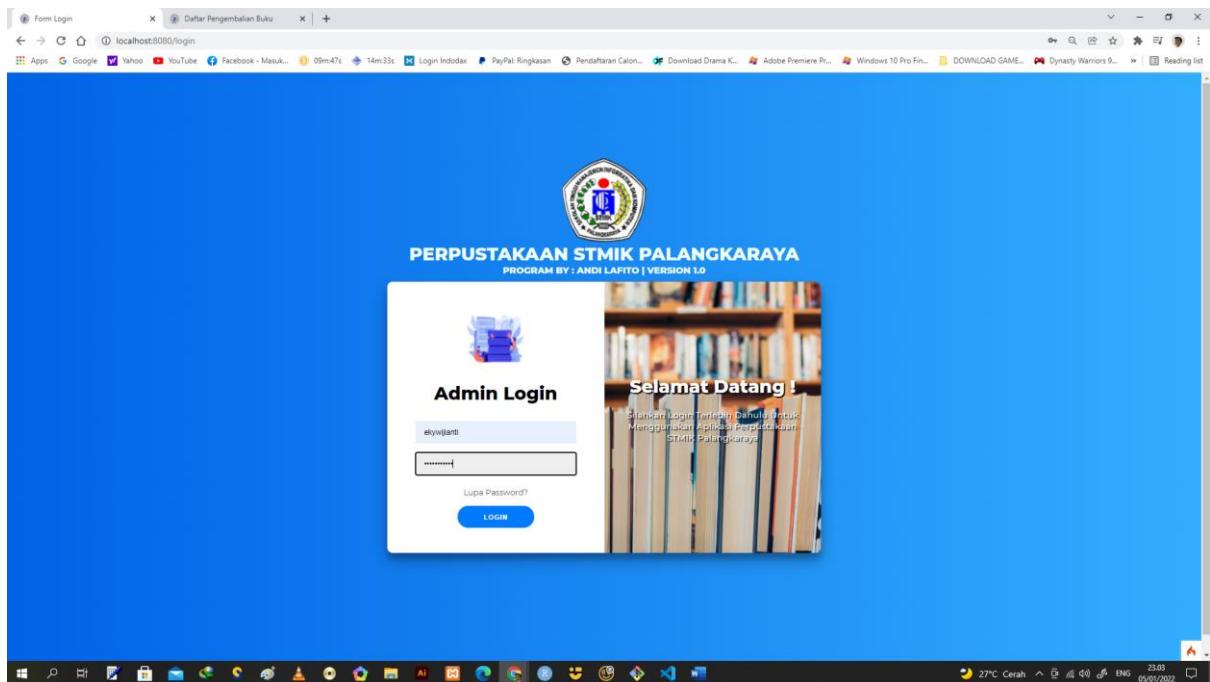
- Masukan custom pada protected \$helpers yang ada pada BaseController agar bisa berjalan disetiap halaman website.

```

● ● ●

1 protected $helpers = ['custom'];

```



Datatables (Pagination, Search, Copy, CSV, Excel, Pdf, Column Visibility)

Andi Lafito (C2055201031)

- Load CSS Datatables bawaan dari template Admin LTE

```
1 <!-- DataTables -->
2 <link rel="stylesheet" href="plugins/datatables-bs4/css/dataTables.bootstrap4.min.css">
3 <link rel="stylesheet" href="plugins/datatables-responsive/css/responsive.bootstrap4.min.css">
4 <link rel="stylesheet" href="plugins/datatables-buttons/css/buttons.bootstrap4.min.css">
```

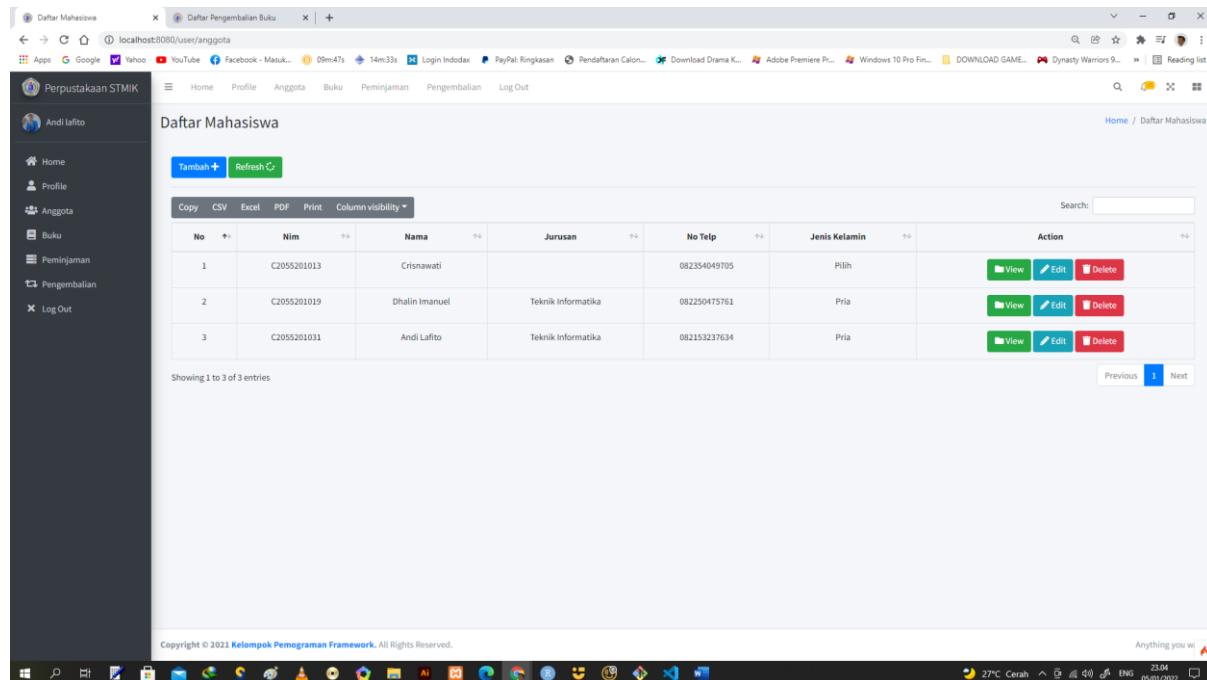
- Load Js Datatables bawan dari template Admin LTE

```
1 <script src="plugins/jquery/jquery.min.js"></script>
2 <!-- Bootstrap 4 -->
3 <script src="plugins/bootstrap/js/bootstrap.bundle.min.js"></script>
4 <!-- DataTables & Plugins -->
5 <script src="plugins/datatables/jquery.dataTables.min.js"></script>
6 <script src="plugins/datatables-bs4/js/dataTables.bootstrap4.min.js"></script>
7 <script src="plugins/datatables-responsive/js/dataTables.responsive.min.js"></script>
8 <script src="plugins/datatables-responsive/js/dataTables.responsive.bootstrap4.min.js"></script>
9 <script src="plugins/datatables-buttons/js/dataTables.buttons.min.js"></script>
10 <script src="plugins/datatables-buttons/js/buttons.bootstrap4.min.js"></script>
11 <script src="plugins/jspdf/jspdf.min.js"></script>
12 <script src="plugins/pdfmake/pdfmake.min.js"></script>
13 <script src="plugins/pdfmake/vfs_fonts.js"></script>
14 <script src="plugins/datatables-buttons/js/buttons.html5.min.js"></script>
15 <script src="plugins/datatables-buttons/js/buttons.print.min.js"></script>
16 <script src="plugins/datatables-buttons/js/buttons.colVis.min.js"></script>
17 <!-- AdminLTE App -->
18 <script src="/dist/js/adminlte.min.js"></script>
19 <!-- AdminLTE for demo purposes -->
20 <script src="/dist/js/demo.js"></script>
21 <!-- Page specific script -->
22 <script>
23     $(function() {
24         $('#example1').DataTable({
25             "responsive": true,
26             "lengthChange": false,
27             "autoWidth": false,
28             "buttons": ["copy", "csv", "excel", "pdf", "print", "colvis"]
29         }).buttons().container().appendTo('#example1_wrapper .col-md-6:eq(0)');
30         $('#example2').DataTable({
31             "paging": true,
32             "lengthChange": false,
33             "searching": false,
34             "ordering": true,
35             "info": true,
36             "autoWidth": false,
37             "responsive": true,
38         });
39     });
40 </script>
```

- Untuk implementasi datatables yang sudah kita load cukup memanggil id-nya pada kelas table saja seperti pada contoh dibawah id="example1"

```
1 <table class="table table-bordered" id="example1">
```

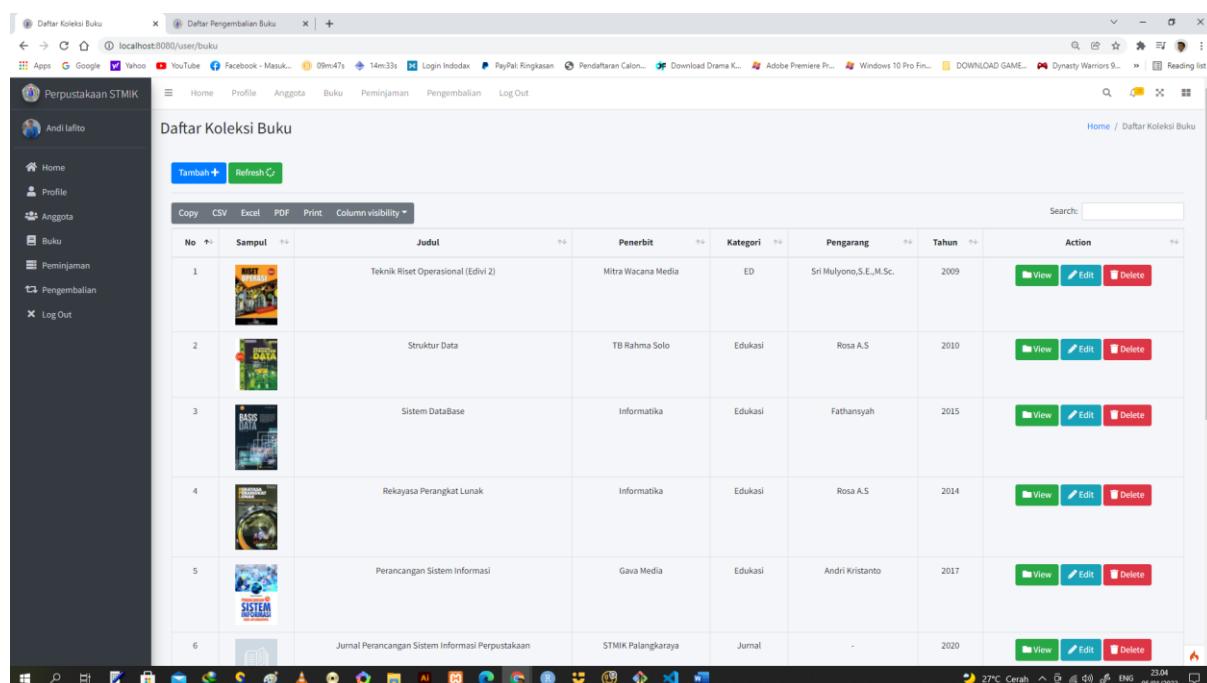
Berikut tampilan pada setiap tablenya sudah lengkap dengan fitur yang cukup lengkap



The screenshot shows a table titled "Daftar Mahasiswa" with three entries:

| No | Nim | Nama | Jurusan | No Telp | Jenis Kelamin | Action |
|----|-------------|----------------|--------------------|--------------|---------------|---|
| 1 | C2055201013 | Crisnawati | | 08235409705 | Pilih | View Edit Delete |
| 2 | C2055201019 | Dhalin Imanuel | Teknik Informatika | 082250475761 | Pria | View Edit Delete |
| 3 | C2055201031 | Andi Lafito | Teknik Informatika | 082153237634 | Pria | View Edit Delete |

Below the table, it says "Showing 1 to 3 of 3 entries".



The screenshot shows a table titled "Daftar Koleksi Buku" with six entries:

| No | Sampul | Judul | Penerbit | Kategori | Pengarang | Tahun | Action |
|----|--------|--|--------------------|----------|------------------------|-------|---|
| 1 | | Teknik Riset Operasional (Edisi 2) | Mitra Wacana Media | ED | Sri Mulyono,S.E.,M.Sc. | 2009 | View Edit Delete |
| 2 | | Struktur Data | TB Rahma Solo | Edukasi | Rosa A.S | 2010 | View Edit Delete |
| 3 | | Sistem DataBase | Informatika | Edukasi | Fathansyah | 2015 | View Edit Delete |
| 4 | | Rekayasa Perangkat Lunak | Informatika | Edukasi | Rosa A.S | 2014 | View Edit Delete |
| 5 | | Perancangan Sistem Informasi | Gava Media | Edukasi | Andri Kristanto | 2017 | View Edit Delete |
| 6 | | Jurnal Perancangan Sistem Informasi Perpustakaan | STMIK Palangkaraya | Jurnal | - | 2020 | View Edit Delete |

Daftar Peminjaman Buku

localhost:8080/peminjaman

Perpustakaan STMIK

Andi lafito

- Home
- Profile
- Anggota
- Buku
- Peminjaman
- Pengembalian
- Log Out

Daftar Peminjaman Buku

Home / Daftar Peminjaman Buku

Tambah Refresh

Copy CSV Excel PDF Print Column visibility Search:

| No | NIM | Nama Mahasiswa | Judul Buku | Kategori | Pengarang | Tanggal Pinjam | Batas Peminjaman | Action |
|----|-------------|----------------|--|----------|------------------------|-----------------|-------------------|--|
| 1 | C2055201013 | Crisnawati | Jurnal Perancangan Sistem Informasi Perpustakaan | Jurnal | - | 05 January 2022 | 12 January 2022 | <button>Edit</button> <button>Deleted</button> |
| 2 | C2055201013 | Crisnawati | Struktur Data | Edukasi | Rosa A.S | 06 January 2022 | 13 January 2022 | <button>Edit</button> <button>Deleted</button> |
| 3 | C2055201019 | Dhalin Imanuel | Bahasa Pemrograman Turbo | Edukasi | Jubilee Enterprise | 05 January 2022 | 12 January 2022 | <button>Edit</button> <button>Deleted</button> |
| 4 | C2055201019 | Dhalin Imanuel | Algoritma & Pemrograman | Edukasi | Sri Mulyono,S.E.,M.Sc. | 17 January 2022 | 30 November -0001 | <button>Edit</button> <button>Deleted</button> |
| 5 | C2055201019 | Dhalin Imanuel | Desain Grafs | Edukasi | Jubilee Enterprise | 22 January 2022 | 25 January 2022 | <button>Edit</button> <button>Deleted</button> |
| 6 | C2055201019 | Dhalin Imanuel | Bahasa Pemrograman Turbo | Edukasi | Jubilee Enterprise | 23 January 2022 | 29 January 2022 | <button>Edit</button> <button>Deleted</button> |
| 7 | C2055201019 | Dhalin Imanuel | Bahasa Automata | Edukasi | Harya Bima Dirgantara | 16 January 2022 | 22 January 2022 | <button>Edit</button> <button>Deleted</button> |
| 8 | C2055201019 | Dhalin Imanuel | Ilmu Website PHP | Edukasi | Rosa A.S | 10 January 2022 | 17 January 2022 | <button>Edit</button> <button>Deleted</button> |
| 9 | C2055201031 | Andi lafito | Sistem DataBase | Edukasi | Fathansyah | 05 January 2022 | 12 January 2022 | <button>Edit</button> <button>Deleted</button> |
| 10 | C2055201031 | Andi lafito | Ilmu Website PHP | Edukasi | Rosa A.S | 05 January 2022 | 12 January 2022 | <button>Edit</button> <button>Deleted</button> |

Showing 1 to 10 of 11 entries

Previous 1 2 Next

Daftar Pengembalian Buku

localhost:8080/pengembalian

Perpustakaan STMIK

Andi lafito

- Home
- Profile
- Anggota
- Buku
- Peminjaman
- Pengembalian
- Log Out

Daftar Pengembalian Buku

Home / Daftar Pengembalian Buku

Tambah Refresh

Copy CSV Excel PDF Print Column visibility Search:

| No | NIM | Nama Mahasiswa | Judul Buku | Kategori | Pengarang | Tanggal pengembalian | Action |
|----|-------------|----------------|--|----------|-----------|----------------------|--|
| 1 | C2055201013 | Crisnawati | Jurnal Perancangan Sistem Informasi Perpustakaan | Jurnal | - | 12 January 2022 | <button>Edit</button> <button>Deleted</button> |

Showing 1 to 1 of 1 entries

Previous 1 Next

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