LAPORAN

FINAL PROJECT

PEMROGAMAN FRAMEWORK

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Sekolah Tinggi Manajemen Informatika dan Komputer

STMIK Palangkaraya

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1. Database Buku

2. Database Peminjaman dan pengembalian (Transaksi)

3. CRUD Buku di dalamnya ada Model, View, dan Controllers (MVC)

- BukuModel.php

```php
<?php

namespace App\Models;

use CodeIgniter\Model;

class BukuModel extends Model
{
    protected $table = "buku";
    protected $primaryKey = "id_buku";
    protected $returnType = "object";
    protected $useTimestamps = true;
    protected $allowedFields = ['id_buku', 'judul', 'pengarang', 'penerbit','tahun','foto'];
}
```

1. Disini Views di folder dasboard ada 4 Yaitu :

- Buku.php

```php
<?= $this->extend('layout/dashboard-layout'); ?>
<?= $this->section('content'); ?>
<!-- /.card-header -->
<div class="card-body">

<?php if (!empty(session()->getFlashdata('message'))) : ?>
<div class="alert alert-success alert-dismissible fade show"role="alert">
<?php echo session()->getFlashdata('message'); ?>

<button type="button" class="close" data-dismiss="alert" aria-label="Close">

<span aria-hidden="true">&times;</span>
</button>
</div>
<?php endif; ?>
<a href="<?= base_url('/buku/create'); ?>" class="btn btn-primary">Tambah</a>
<hr />
<table class="table table-bordered">
<thead>
```

```php
<tr>
<th>No</th>
<th>ID Buku</th>
<th>Judul</th>
<th>Pengarang</th>
<th>Penerbit</th>
<th>Tahun</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<?php
$no = 1 + 3 * ($currentPage - 1);
foreach ($buku as $row)
{
?>
<tr>
<td><?= $no++; ?></td>
<td><?= $row->id_buku; ?></td>
<td><?= $row->judul; ?></td>
<td><?= $row->pengarang; ?></td>
<td><?= $row->penerbit; ?></td>
<td><?= $row->tahun; ?></td>
<td>
<a title="View" href="<?=base_url("buku/view/$row->id_buku"); ?>"
class="btn btn-info">View</a>
<a title="Edit" href="<?= base_url("buku/edit/$row->id_buku"); ?>" class="btn
btn-info">Edit</a>
<a title="Delete" href="<?=base_url("buku/delete/$row->id_buku") ?>"
class="btn btn-danger"onclick="return confirm('Apakah Anda yakin ingin
menghapus data?')">Delete</a>
</td>

</tr>
<?php
}
?>
</tbody>
</table>
<?= $pager->links('buku','buku_pagination') ?>
</div>
<!-- /.card-body -->
<?= $this->endSection('content'); ?>
```

Tampilan Buku.php

Data Buku

Tambah

No	ID Buku	Judul	Pengarang	Penerbit	Tahun	Action
1	BK01	Algoritma & Pemograman	Rinaldi Munir	PT. Angkasa Putra	2016	View Edit Delete
2	BK02	Pemograman Web	Syarif Ramadhan	PT. Cahaya Buku	2011	View Edit Delete
3	BK03	PHP & MYSQL	Achamad Solichin	PT. Berkarya	2013	View Edit Delete

- Buku_create.php

```php
<?= $this->extend('layout/dashboard-layout'); ?>
<?= $this->section('content'); ?>
<div class="col-md-10">
<!-- general form elements -->
<div class="card card-primary">
<div class="card-header">
<h3 class="card-title">Tambah Data Buku</h3>
</div>

<!-- /.card-header -->
<!-- form start -->
<?php if (!empty(session()->getFlashdata('error'))) : ?>
<div class="alert alert-light alert-dismissible fade show" role="alert">
<h4 class="alert-heading">Periksa Entrian Form</h4>
</hr />
<?php echo session()->getFlashdata('error'); ?>
<button type="button" class="close" data-dismiss="alert" aria- label="Close">
<span aria-hidden="true">&times;</span>
</button>
</div>
<?php endif; ?>

<form class="form-horizontal" method="post" action="<?=base_url('buku/store')?>"
enctype="multipart/form-data">
<?= csrf_field(); ?>
<div class="card-body">
<div class="form-group row">
<label for="id_buku" class="col-sm-2 col-form- label">Id Buku</label>
<div class="col-sm-6">
<input type="text" class="form-control" id="id_buku" name="id_buku" placeholder="id
buku" value="<?= old('id_buku'); ?>">
</div>
</div>

<div class="form-group row">
<label for="judul" class="col-sm-2 col-form- label">Judul</label>
<div class="col-sm-6">
<input type="text" class="form-control" id="judul" name="judul" value="<?= old('judul');
?>">
</div>
</div>
```

```html
<div class="form-group row">
<label for="pengarang" class="col-sm-2 col-form- label">Pengarang</label>
<div class="col-sm-6">
<input type="text" class="form-control" id="pengarang" name="pengarang" value="<?= old('pengarang'); ?>">
</div>
</div>

<div class="form-group row">
<label for="penerbit" class="col-sm-2 col-form- label">Penerbit</label>
<div class="col-sm-6">
<input type="text" class="form-control" id="penerbit" name="penerbit" value="<?= old('penerbit'); ?>">
</div>
</div>

<div class="form-group row">
<label for="tahun" class="col-sm-2 col-form-label">Tahun</label>
<div class="col-sm-6">
<input type="text" class="form-control" id="tahun"name="tahun" value="<?= old('tahun') ?>" />
</div>
</div>

<div class="form-group row">
<label for="foto" class="col-sm-2 col-form-label">Foto Diri</label>
<div class="custom-file col-sm-6">
<input type="file" class="custom-file-input" id="foto" name="foto">
<label class="custom-file-label" for="foto">Pilih Foto Diri</label>
</div>
</div>

</div>
<!-- /.card-body -->
<div class="card-footer">
<button type="submit" class="btn btn-primary btn-block">Simpan</button>

</div>
<!-- /.card-footer -->
</form>

</div>
<!-- /.card -->
</div>
<?= $this->endSection('content'); ?>
```

Tampilan Buku_create.php

- Buku_view.php

```
<?= $this->extend('layout/dashboard-layout'); ?>
<?= $this->section('content'); ?>
<div class="col-md-12">
<!-- general form elements -->
<section class="content">
<div class="container-fluid">
<div class="row">
<!-- /.card-header -->
<!-- form start -->
<div class="col-md-3">
<!-- Profile Image -->
<div class="card card-primary card-outline">
<div class="card-body box-profile">
<div class="text-center">
<img class="profile-user-img img-fluid img-circle" src="img/<?= $buku->foto; ?>" alt="User
Profile picture">
</div>
<h3 class="profile-username text-center"><?=$buku->judul; ?></h3>
<p class="text-muted text-center"><?= $buku->id_buku; ?>
```

```
</div>
<!-- /.card-body -->
</div>
<!-- /.card -->
</div>
<div class="col-md-9">
<div class="card card-primary">
<div class="card-header">
<h3 class="card-title">Deskripsi Buku</h3>
</div>
<!-- /.card-header -->
<div class="card-body">
<strong><i class="fas fa-book mr-1"></i> Judul</strong>
<p class="text-muted"> <?= $buku->judul; ?>
</p>
<hr>
<strong><i class="fas fa-user"></i> Pengarang</strong>
<p class="text-muted"><?= $buku->pengarang;
?></p>
<hr>
<strong><i class="fas fa-envelope mr-1"></i> Penerbit</strong>
<p class="text-muted"><?= $buku->penerbit; ?></p>
<hr>
<strong><i class="fas fa-calendar"></i> Tahun</strong>
<p class="text-muted"><?= $buku->tahun;
?></p>

</div>
<!-- /.card-body -->
</div>
<!-- /.card -->
</div>
</div>
<!-- /.card -->
</div>
</div>
<?= $this->endSection('content'); ?>
```
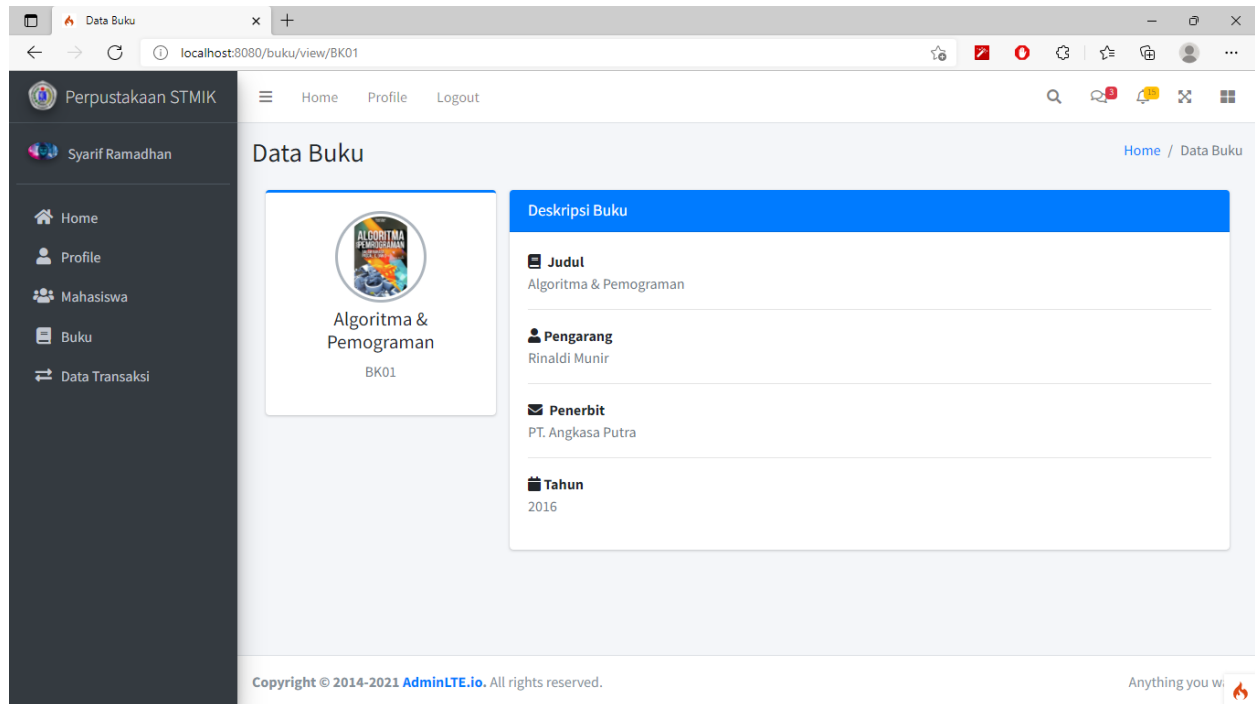
Tampilan Buku_view.php

- Buku_edit.php

```php
<?= $this->extend('layout/dashboard-layout'); ?>
<?= $this->section('content'); ?>
<div class="col-md-10">
<!-- general form elements -->
<div class="card card-primary">
<div class="card-header">
<h3 class="card-title">Edit Data Buku</h3>
</div>

<!-- /.card-header -->
<!-- form start -->
<?php if (!empty(session()->getFlashdata('error'))) : ?>
<div class="alert alert-light alert-dismissible fade show" role="alert">
<h4 class="alert-heading">Periksa Entrian Form</h4>
</hr />
<?php echo session()->getFlashdata('error'); ?>
<button type="button" class="close" data-dismiss="alert" aria- label="Close">
<span aria-hidden="true">&times;</span>
</button>
```

```
</div>
<?php endif; ?>

<form class="form-horizontal" method="post" action="<?=base_url('buku/update/' . $buku-
>id_buku) ?>"enctype="multipart/form-data">
<?= csrf_field(); ?>
<div class="card-body">

<div class="form-group row">
<label for="nama" class="col-sm-2 col-form- label">Judul</label>
<div class="col-sm-6">
<input type="text" class="form-control" id="judul" name="judul" value="<?= $buku->judul;
?>">
</div>
</div>

<div class="form-group row">
<label for="pengarang" class="col-sm-2 col-form- label">Pengarang</label>
<div class="col-sm-6">
<input type="text" class="form-control" id="pengarang" name="pengarang" value="<?=
$buku->pengarang; ?>">
</div>
</div>

<div class="form-group row">
<label for="penerbit" class="col-sm-2 col-form- label">Penerbit</label>
<div class="col-sm-6">
<input type="text" class="form-control" id="penerbit" name="penerbit" value="<?= $buku-
>penerbit; ?>">
</div>
</div>

<div class="form-group row">
<label for="tahun" class="col-sm-2 col-form- label">Tahun</label>
<div class="col-sm-6">
<input type="text" class="form-control" id="tahun" name="tahun" value="<?= $buku->tahun;
?>">
</div>
</div>

<div class="form-group row">
<label for="foto" class="col-sm-2 col-form-label">Foto Diri</label>
<div class="custom-file col-sm-4">
<input type="file" class="custom-file-input" id="foto" name="foto">
<label class="custom-file-label" for="foto">Pilih Foto Diri</label>
```

```
</div>


<?php if (!empty($mahasiswa->foto)) : ?>
<input type="hidden" id="fotolama" name="fotolama" value="<?= $buku->foto; ?>">
<div class="card-body box-profile col-sm-6">
<div class="text-center">
<img class="profile-user-img img-fluid img-circle" src="/img/<?= $buku->foto; ?>" alt="User
profile picture">
</div>
</div>
<?php endif; ?>
</div>


</div>
<!-- /.card-body -->
<div class="card-footer">
<button type="submit" class="btn btn-primary btn-block">Simpan</button>


</div>
<!-- /.card-footer -->
</form>


</div>
<!-- /.card -->
</div>
<?= $this->endSection('content'); ?>
```

Tampilan Buku_edit.php

2. Dashboard_layout di sini menambahkan menu side bar buku dan transaksi (pengambalian dan peminjaman)

```
     </p>
      </a>
     </li>
     <li class="nav-item">
      <a href="<?= route_to('buku') ?>" class="nav-link">
       <i class="nav-icon fas fa-book"></i>
       <p>

         Buku

        </p>
      </a>
     </li>
     <li class="nav-item">
      <a href="<?= route_to('peminjaman') ?>" class="nav-link">
       <i class="nav-icon fas fa-exchange-alt"></i>
```

```
<p>

  Data Transaksi

  </p>
 </a>
</li>
```

3. MVC piminjaman

- Peminjaman.php

```php
<?= $this->extend('layout/dashboard-layout'); ?>
<?= $this->section('content'); ?>
<!-- /.card-header -->
<div class="card-body">

<?php if (!empty(session()->getFlashdata('message'))) : ?>
<div class="alert alert-success alert-dismissible fade show"role="alert">
<?php echo session()->getFlashdata('message'); ?>

<button type="button" class="close" data-dismiss="alert" aria-label="Close">

<span aria-hidden="true">&times;</span>
</button>
</div>
<?php endif; ?>
<a href="<?= base_url('/peminjaman/create'); ?>" class="btn btn-primary">Tambah</a>
<hr />
<table class="table table-bordered">
<thead>
<tr>
<th>No</th>
<th>ID Peminjaman</th>
<th>Nama Peminjam</th>
<th>Nama Buku</th>
<th>Tanggal Pinjam</th>
<th>Tanggal Kembalian</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<?php
```

```php
$no = 1;
foreach ($peminjaman as $row)
{
?>
<tr>
<td><?= $no++; ?></td>
<td><?= $row->id_peminjaman; ?></td>
<td><?= $row->nama_peminjaman; ?></td>
<td><?= $row->nama_buku; ?></td>
<td><?= $row->tanggal; ?></td>
<td><?= $row->kembali; ?></td>
<td>

<a title="Edit" href="<?= base_url("peminjaman/edit/$row->id_peminjaman"); ?>" class="btn
btn-info">Edit</a>
<a title="Di Kembalikan" href="<?=base_url("peminjaman/delete/$row->id_peminjaman")
?>" class="btn btn-danger"onclick="return confirm('Buku Sudah di Kembaliakn')">Di
Kembalikan</a>
</td>

</tr>
<?php
}
?>
</tbody>
</table>
</div>
<!-- /.card-body -->
<?= $this->endSection('content'); ?>
```

Tampilan peminjaman

- Peminjaman_create.php

```php
<?= $this->extend('layout/dashboard-layout'); ?>
<?= $this->section('content'); ?>
<div class="col-md-10">
<!-- general form elements -->
<div class="card card-primary">
<div class="card-header">
<h3 class="card-title">Tambah Data Peminjaman</h3>
</div>

<!-- /.card-header -->
<!-- form start -->
<?php if (!empty(session()->getFlashdata('error'))) : ?>
<div class="alert alert-light alert-dismissible fade show" role="alert">
<h4 class="alert-heading">Periksa Entrian Form</h4>
</hr />
<?php echo session()->getFlashdata('error'); ?>
<button type="button" class="close" data-dismiss="alert" aria- label="Close">
<span aria-hidden="true">&times;</span>
</button>
</div>
<?php endif; ?>

<form class="form-horizontal" method="post" action="<?=base_url('peminjaman/store')?>"
enctype="multipart/form-data">
```

```
<?= csrf_field(); ?>
<div class="card-body">
<div class="form-group row">
<label for="id_peminjaman" class="col-sm-2 col-form- label">ID Pinjaman</label>
<div class="col-sm-6">
<input type="text" class="form-control" id="id_peminjaman" name="id_peminjaman"
placeholder="ID Peminjaman" value="<?= old('id_peminjaman'); ?>">
</div>
</div>

<div class="form-group row">
<label for="judul" class="col-sm-2 col-form- label">Nama Peminjam</label>
<div class="col-sm-6">
<input type="text" class="form-control" id="nama_peminjaman" name="nama_peminjaman"
value="<?= old('nama_peminjaman'); ?>">
</div>
</div>

<div class="form-group row">
<label for="nama_buku" class="col-sm-2 col-form- label">Nama Buku</label>
<div class="col-sm-6">
<input type="text" class="form-control" id="nama_buku" name="nama_buku" value="<?=
old('nama_buku'); ?>">
</div>
</div>

<div class="form-group row">
<label for="tanggal" class="col-sm-2 col-form- label">Tanggal</label>
<div class="col-sm-6">
<input type="date" class="form-control" id="tanggal" name="tanggal" value="<?=
old('tanggal'); ?>">
</div>
</div>

<div class="form-group row">
<label for="kembali" class="col-sm-2 col-form- label">Tanggal Kembalian</label>
<div class="col-sm-6">
<input type="date" class="form-control" id="kembali" name="kembali" value="<?=
old('kembali'); ?>">
</div>
</div>

</div>
<!-- /.card-body -->
<div class="card-footer">
<button type="submit" class="btn btn-primary btn-block">Simpan</button>
```

```
</div>
<!-- /.card-footer -->
</form>

</div>
<!-- /.card -->
</div>
<?= $this->endSection('content'); ?>
```

Tampilan buku_create.php

- Peminjaman_edit.php

```
<?= $this->extend('layout/dashboard-layout'); ?>
<?= $this->section('content'); ?>
<div class="col-md-10">
<!-- general form elements -->
<div class="card card-primary">
<div class="card-header">
<h3 class="card-title">Edit Data Peminjaman</h3>
</div>
```

```php
<!-- /.card-header -->
<!-- form start -->
<?php if (!empty(session()->getFlashdata('error'))) : ?>
<div class="alert alert-light alert-dismissible fade show" role="alert">
<h4 class="alert-heading">Periksa Entrian Form</h4>
</hr />
<?php echo session()->getFlashdata('error'); ?>
<button type="button" class="close" data-dismiss="alert" aria- label="Close">
<span aria-hidden="true">&times;</span>
</button>
</div>
<?php endif; ?>

<form class="form-horizontal" method="post" action="<?=base_url('peminjaman/store')?>"
enctype="multipart/form-data">
<?= csrf_field(); ?>
<div class="card-body">

<div class="form-group row">
<label for="judul" class="col-sm-2 col-form- label">Nama Peminjam</label>
<div class="col-sm-6">
<input type="text" class="form-control" id="nama_peminjaman" name="nama_peminjaman"
value="<?= old('nama_peminjaman'); ?>">
</div>
</div>

<div class="form-group row">
<label for="nama_buku" class="col-sm-2 col-form- label">Nama Buku</label>
<div class="col-sm-6">
<input type="text" class="form-control" id="nama_buku" name="nama_buku" value="<?=
old('nama_buku'); ?>">
</div>
</div>

<div class="form-group row">
<label for="tanggal" class="col-sm-2 col-form- label">Tanggal</label>
<div class="col-sm-6">
<input type="date" class="form-control" id="tanggal" name="tanggal" value="<?=
old('tanggal'); ?>">
</div>
</div>

<div class="form-group row">
<label for="kembali" class="col-sm-2 col-form- label">Tanggal Kembalian</label>
<div class="col-sm-6">
```

```
<input type="date" class="form-control" id="kembali" name="kembali" value="<?=
old('kembali'); ?>">
</div>
</div>

</div>
<!-- /.card-body -->
<div class="card-footer">
<button type="submit" class="btn btn-primary btn-block">Simpan</button>

</div>
<!-- /.card-footer -->
</form>

</div>
<!-- /.card -->
</div>
<?= $this->endSection('content'); ?>
```

Tampilan peminjaman_edit.php

Menambahkan folder fitur pagination

```php
<?php $pager->setSurroundCount(2) ?>

<nav aria-label="Page navigation">
   <ul class="pagination">
   <?php if ($pager->hasPrevious()) : ?>
      <li class="page-item">
         <a class="page-link" href="<?= $pager->getFirst() ?>" aria-label="<?=
lang('Pager.first') ?>">
            <span aria-hidden="true"><?= lang('Pager.first') ?></span>
         </a>
      </li>
      <li class="page-item">
         <a class="page-link" href="<?= $pager->getPrevious() ?>" aria-label="<?=
lang('Pager.previous') ?>">
            <span aria-hidden="true"><?= lang('Pager.previous') ?></span>
         </a>
      </li>
   <?php endif ?>

   <?php foreach ($pager->links() as $link) : ?>
      <li class="page-item <?= $link['active'] ? 'active' : '' ?>">
         <a class="page-link" href="<?= $link['uri'] ?>">
            <?= $link['title'] ?>
         </a>
      </li>
   <?php endforeach ?>

   <?php if ($pager->hasNext()) : ?>
      <li class="page-item">
         <a class="page-link" href="<?= $pager->getNext() ?>" aria-label="<?=
lang('Pager.next') ?>">
            <span aria-hidden="true"><?= lang('Pager.next') ?></span>
         </a>
      </li>
      <li class="page-item">
         <a class="page-link" href="<?= $pager->getLast() ?>" aria-label="<?=
lang('Pager.last') ?>">
            <span aria-hidden="true"><?= lang('Pager.last') ?></span>
         </a>
      </li>
   <?php endif ?>
   </ul>
</nav>
```

4. Menambahkan pagination pada buku

- Pada bagian controller buku seperti in

```
{
    $currentPage = $this->request->getVar('page_buku') ? $this->request
>getVar('page_buku') : 1;

 $data=[
    'pageTitle' => 'Data Buku',
    'buku'  => $this->buku->paginate(3, 'buku'),
    'pager'  => $this->buku->pager,
    'currentPage' => $currentPage


</tbody>
</table>
<?= $pager->links('buku','buku_pagination') ?>
</div>
```

- Pada bagian view buku ditambahkan

```
</tbody>
</table>
<?= $pager->links('buku','buku_pagination') ?>
</div>
```

- Tambahkan difuction_contruct

```
$this->pager = \Config\Services::pager();
  }
```

- Tambahkan difuntion_index

```
{
    $currentPage = $this->request->getVar('page_buku') ? $this->request
>getVar('page_buku') : 1;

 $data=[
    'pageTitle' => 'Data Buku',
    'buku'  => $this->buku->paginate(3, 'buku'),
    'pager'  => $this->buku->pager,
    'currentPage' => $currentPage

  ];
```