

**LAPORAN PEMBUTAN WEBSITE DENGAN
FRAMEWORK CODEIGNITER**



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**SEKOLAH TINGGI MANAJEMEN INFORMATIKA DAN KOMPUTER
ELRAHMA YOGYAKARTA**

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BAB I

PENDAHULUAN

A. LATAR BELAKANG

Dalam era digital ini, efisiensi dan kemudahan dalam mengelola pembayaran sangat penting bagi institusi pendidikan. Salah satu aspek penting yang perlu dikelola dengan baik adalah pembayaran Sumbangan Pembinaan Pendidikan (SPP). Banyak sekolah dan universitas masih menggunakan metode konvensional seperti pembayaran tunai di loket atau transfer bank manual, yang dapat menyebabkan berbagai masalah seperti antrian panjang, kesalahan pencatatan, dan kurangnya transparansi.

Untuk mengatasi masalah tersebut, diperlukan sebuah sistem yang dapat mengotomatisasi dan menyederhanakan proses pembayaran SPP. Oleh karena itu, pengembangan aplikasi website pembayaran SPP berbasis CodeIgniter menjadi solusi yang relevan. CodeIgniter dipilih karena merupakan framework PHP yang ringan, memiliki performa tinggi, dan mudah digunakan. Dengan menggunakan CodeIgniter, pengembangan aplikasi dapat dilakukan dengan lebih cepat dan terstruktur.

Dengan implementasi aplikasi ini, diharapkan proses pembayaran SPP menjadi lebih cepat, transparan, dan efisien, sehingga baik pihak sekolah maupun orang tua/siswa dapat merasakan manfaatnya.

B. RUMUSAN MASALAH

Berdasarkan latar belakang di atas maka terdapat beberapa pertanyaan yang perlu dijawab :

1. Apa itu Codeigniter?
2. Kelebihan Codeigniter?
3. Cara kerja Codeigniter?
4. Cara Instalasi Codeigniter 4?
5. Implementasi Codeigniter 4 dalam sistem pembarayar SPP?

BAB II

PEMBAHASAN

A. CODEIGNITER

1. Pengertian Codeigniter

CodeIgniter adalah sebuah framework PHP ringan yang bisa digunakan secara gratis dan bersifat open-source. Framework PHP ini cukup efektif untuk mengembangkan website atau aplikasi dengan mudah.

2. Kelebihan Codeigniter

Berikut adalah alasan mengapa belajar CodeIgniter cukup penting untuk dapat mengembangkan website dengan baik:

1. Mudah Dipelajari

CodeIgniter adalah framework yang cukup mudah dipelajari, bahkan untuk pemula sekalipun. Itu karena aturan penulisan pada framework ini cukup sederhana.

Konsep coding pada CodeIgniter memungkinkan penggunaanya untuk menulis kode dengan efektif. Artinya, Anda dapat membuat sebuah kode yang dapat digunakan berkali-kali pada website yang dibangun.

2. Konfigurasi Sederhana

Konfigurasi awal pada CodeIgniter juga sangat sederhana. Anda hanya perlu mengubah beberapa kode untuk dapat menggunakan berbagai library bawaan CodeIgniter. Dengan begitu, Anda akan lebih cepat membuat website dengan pengetahuan tentang CodeIgniter.

3. Ringan

CodeIgniter adalah sebuah framework PHP yang ringan dengan ukuran file hanya 900KB. Tentunya, hal ini akan memudahkan Anda ketika mendownload dan menggunakannya untuk membangun website.

4. Arsitektur Rapi

Aturan kode pada CodeIgniter sangat rapi dan terstruktur. Itu karena CodeIgniter menggunakan konsep MVC (Model View Controller) untuk arsitekturnya. Berikut penjelasan dari MVC:

- **Model:** Bagian yang bertanggung jawab untuk mengelola database.
- **View:** Bagian yang bertugas untuk menangani tampilan website untuk pengguna.
- **Controller:** Bagian yang bertugas untuk mengatur alur proses pada website. Bagian ini yang menghubungkan antara View dan Model.

Dengan menggunakan MVC, kode yang dibuat akan lebih mudah dibaca. Selain itu, website juga lebih mudah untuk dikembangkan. Itu karena setiap bagian kode akan dipisah sesuai dengan tugasnya.

5. Mudah Diintegrasikan

CodeIgniter mudah diintegrasikan dengan framework atau library lain. Bahkan, Anda tak perlu melakukan konfigurasi rumit untuk melakukannya. Hal ini dimungkinkan berkat adanya folder untuk menyimpan library.

Apa keuntungannya? Ketika membuat website dengan CodeIgniter, pengelolaan library lebih mudah untuk pengembangan website dan kinerjanya pun bisa ditingkatkan. Salah satunya, dengan menghapus library yang sudah tidak dipakai.

6. Migrasi Database Mudah

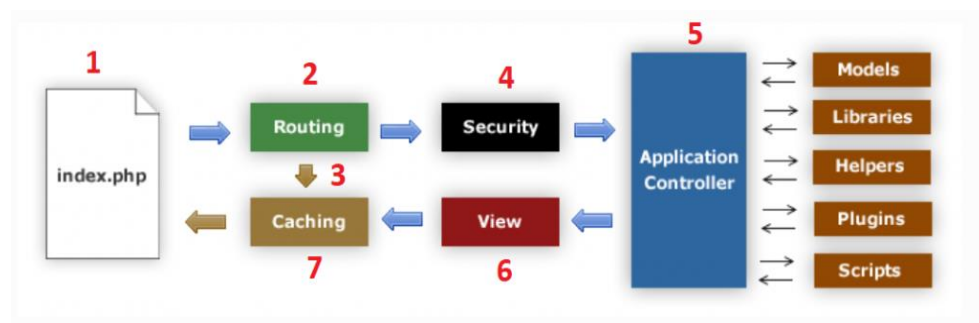
CodeIgniter dikenal sebagai framework yang membuat migrasi database menjadi mudah. Jadi ketika menguasai framework ini, Anda bisa melakukan pekerjaan dengan lebih cepat. Katakanlah Anda menggunakan MySQL sebagai database dan ingin berpindah ke PostgreSQL, hanya dengan mengatur beberapa kode saja, migrasi sudah bisa dilakukan.

7. Keamanan yang Baik

Anda tentu tidak mau kan membangun website yang lemah keamanannya? Nah, dengan CodeIgniter, Anda tak perlu khawatir lagi. Itu karena CodeIgniter memiliki fitur enkripsi untuk melindungi data-data penting. Meskipun Anda perlu melakukan perlindungan keamanan lain, dengan enkripsi setidaknya data penting tidak dapat dibaca oleh hacker.

3. Cara Kerja Codeigniter

Cara kerja CodeIgniter cukup sederhana seperti yang ditampilkan di gambar berikut ketika pengunjung mengakses website melalui browser:



1. Setiap ada request pada website, maka akan diarahkan ke halaman index.php.
2. Routing akan menentukan alur request dari pengguna. Jika halaman yang diminta ada pada caching, maka routing akan melakukan langkah 3.
3. Jika routing mengarahkan ke caching, maka halaman yang ditampilkan adalah halaman yang telah disimpan ke dalam cache sebelumnya.
4. Jika routing mengarahkan ke security, maka seluruh data dari pengguna akan difilter untuk meningkatkan keamanan sebelum diarahkan ke controller.
5. Controller akan memanggil model, library, helper, dan tools lainnya yang diperlukan bagi halaman website yang diminta.
6. View akan ditampilkan sesuai dengan permintaan pengguna. Dengan begitu, pengguna dapat melihat halaman website yang sesuai dengan yang diinginkan.
7. Halaman website akan disimpan ke dalam cache. Tujuannya untuk meningkatkan performa website karena request pengguna tidak perlu diarahkan ke controller lagi.

4. Instalasi Codeigniter 4

Codeigniter merupakan framework PHP, karena itu ia pasti membutuhkan web server. Berikut ini requirement server untuk Codeigniter 4:

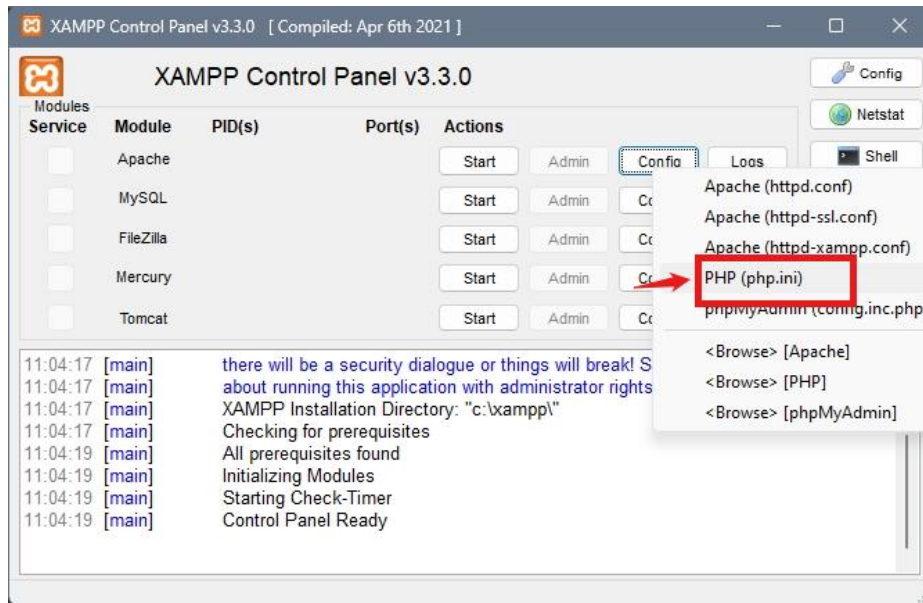
- PHP Versi 8.2+
- MySQL
- Phpmyadmin

Jika sudah menginstal XAMPP, maka ketiga aplikasi server ini sudah terpenuhi. Tapi jika kamu pengguna Linux, maka ini bisa diinstal satu-per-satu.

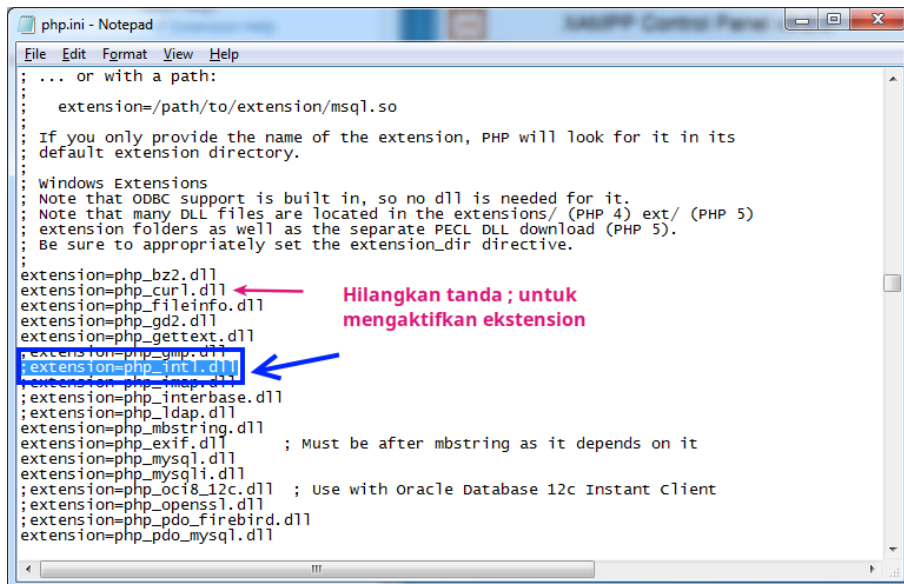
Setelah menginstal webserver, kita harus mengaktifkan beberapa extension yang dibutuhkan untuk pengembangan CI 4 :

- php-json extension untuk bekerja dengan JSON;
- php-mysqlnd native driver untuk MySQL;
- php-xml extension untuk bekerja dengan XML;
- php-intl ekstensi untuk membuat aplikasi multibahasa;
- libcurl (opsional), jika ingin pakai Curl.

Untuk kamu yang menggunakan Windows dan XAMPP. Silakan buka XAMPP Control Panel, lalu pada bagian apache klik Config->PHP.



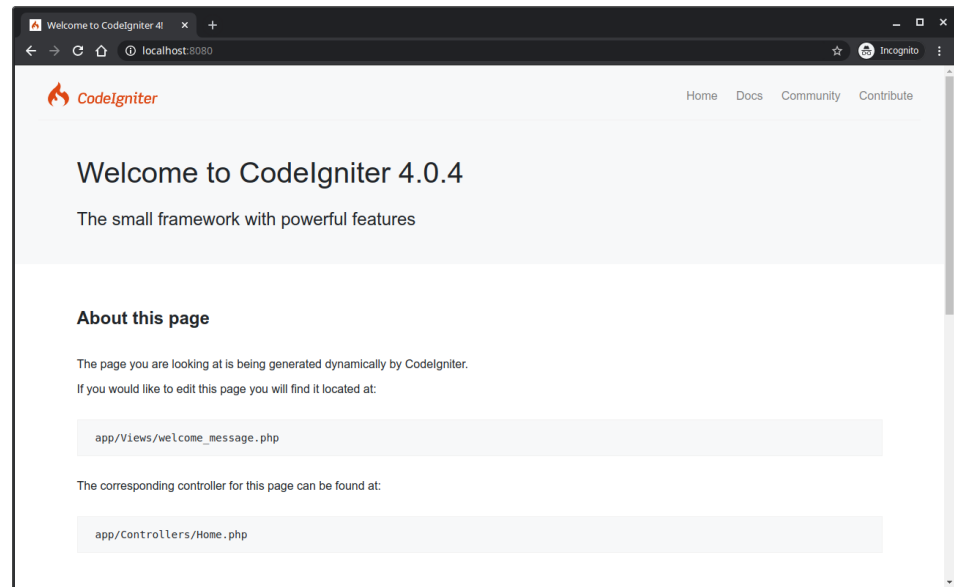
Setelah itu, cari di bagian extension dan hapus tanda titik koma “;” yang ada di depan nama extension untuk mengaktifkannya.



Langkah-langkah yang harus dilakukan:

1. Download Codeigniter di <https://codeigniter.com/download>
2. Ekstrak File ZIP Codeigniter ke htdocs.

3. Kita akan mendapatkan sebuah file zip “framework-4.x.x.zip”, ekstrak file tersebut ke dalam c:\xampp\htdocs (XAMPP)
4. Ubah nama “framework-4.x.xx” menjadi “aplikasi_ci”.
5. Setelah selesai coba buka web browser dan buka alamat: http://localhost/aplikasi_ci/public/
6. Jika berhasil tampilannya akan seperti dibawah:



5. Implementasi Codeigniter 4 untuk membuat aplikasi pembayaran SPP

a. Buat Database

Buat database dengan nama **spp**, kemudian buat beberapa tabel bernama **admin**, **angkatan**, **jurusan**, **kelas**, **pembayaran**, dan **siswa**.



Kemudian isi masing-masing struktur tabel seperti dibawah ini:

Tabel admin

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1	id_admin	int(11)		No	None		AUTO_INCREMENT	Change Drop More
<input type="checkbox"/>	2	nama_admin	varchar(50)	utf8mb4_general_ci	No	None			Change Drop More
<input type="checkbox"/>	3	user_admin	varchar(50)	utf8mb4_general_ci	No	None			Change Drop More
<input type="checkbox"/>	4	pass_admin	varchar(50)	utf8mb4_general_ci	No	None			Change Drop More

Tabel angkatan

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1	id_angkatan	int(11)		No	None		AUTO_INCREMENT	Change Drop More
<input type="checkbox"/>	2	nama_angkatan	varchar(50)	utf8mb4_general_ci	No	None			Change Drop More
<input type="checkbox"/>	3	biaya	varchar(50)	utf8mb4_general_ci	No	None			Change Drop More

Tabel jurusan

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1	id_jurusan	int(11)		No	None		AUTO_INCREMENT	Change Drop More
<input type="checkbox"/>	2	nama_jurusan	varchar(50)	utf8mb4_general_ci	No	None			Change Drop More

Tabel kelas

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1	id_kelas	int(11)		No	None		AUTO_INCREMENT	Change Drop More
<input type="checkbox"/>	2	nama_kelas	varchar(50)	utf8mb4_general_ci	No	None			Change Drop More

Tabel pembayaran

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1	id_pembayaran	int(11)		No	None		AUTO_INCREMENT	Change Drop More
<input type="checkbox"/>	2	siswa	int(11)		No	None			Change Drop More
<input type="checkbox"/>	3	jatuhtempo	varchar(50)	utf8mb4_general_ci	No	None			Change Drop More
<input type="checkbox"/>	4	bulan	varchar(50)	utf8mb4_general_ci	No	None			Change Drop More
<input type="checkbox"/>	5	nobayar	varchar(50)	utf8mb4_general_ci	Yes	NULL			Change Drop More
<input type="checkbox"/>	6	tglbayar	varchar(50)	utf8mb4_general_ci	Yes	NULL			Change Drop More
<input type="checkbox"/>	7	jumlah	varchar(50)	utf8mb4_general_ci	No	None			Change Drop More
<input type="checkbox"/>	8	ket	varchar(50)	utf8mb4_general_ci	Yes	NULL			Change Drop More

Tabel siswa

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1	id_siswa	int(11)		No	None		AUTO_INCREMENT	Change Drop More
<input type="checkbox"/>	2	nisan	varchar(50)	utf8mb4_general_ci	No	None			Change Drop More
<input type="checkbox"/>	3	nama	varchar(50)	utf8mb4_general_ci	No	None			Change Drop More
<input type="checkbox"/>	4	angkatan	int(11)		No	None			Change Drop More
<input type="checkbox"/>	5	jurusan	int(11)		No	None			Change Drop More
<input type="checkbox"/>	6	kelas	int(11)		No	None			Change Drop More
<input type="checkbox"/>	7	alamat	text	utf8mb4_general_ci	No	None			Change Drop More

b. Setting Config/Routes.php

Tambahkan setting **Routes.php** yang ada di dalam folder **Config**, ubah seperti yang ada di bawah ini:

```
<?php
use CodeIgniter\Router\RouteCollection;
```

```

/**
 * @var RouteCollection $routes
 */
$routes->get('/', 'Home::index');

//siswa
$routes->get('/siswa', 'Siswa::index');
$routes->get('/datasiswa', 'Siswa::dataSiswa');
$routes->post('/siswa/create', 'Siswa::save');
$routes->get('/siswa/editsiswa/{:any}', 'Siswa::getEditSiswa/$1');
$routes->post('/siswa/edit/{:any}', 'Siswa::update/$1');
$routes->delete('/siswa/delete/{:any}', 'Siswa::delete/$1');

// angkatan
$routes->get('/angkatan', 'Angkatan::index');
$routes->get('/angkatan/editangkatan/{:any}', 'Angkatan::getEditAngkatan/$1');
$routes->post('/angkatan/edit/{:any}', 'Angkatan::update/$1');
$routes->delete('/angkatan/delete/{:any}', 'Angkatan::delete/$1');
$routes->post('/angkatan/create', 'Angkatan::save');

//jurusan
$routes->get('/jurusan', 'Jurusan::index');
$routes->get('/jurusan/editjurusan/{:any}', 'Jurusan::getEditJurusan/$1');
$routes->delete('/jurusan/delete/{:any}', 'Jurusan::delete/$1');
$routes->post('/jurusan/create', 'Jurusan::save');
$routes->post('/jurusan/edit/{:any}', 'Jurusan::update/$1');

//kelas
$routes->get('/kelas', 'Kelas::index');
$routes->get('/kelas/editkelas/{:any}', 'Kelas::getEditKelas/$1');
$routes->delete('/kelas/delete/{:any}', 'Kelas::delete/$1');
$routes->post('/kelas/create', 'Kelas::save');
$routes->post('/kelas/edit/{:any}', 'Kelas::update/$1');

// pembayaran
$routes->get('/pembayaran', 'Pembayaran::index');
$routes->get('/prosestransaksi', 'Pembayaran::prosesTransaksi');
$routes->get('/cetaksemuatransaksi', 'Pembayaran::cetakSemuaTransaksi');
$routes->get('/cetaksliptransaksi', 'Pembayaran::cetakSlipTransaksi');

//laporan
$routes->get('/laporan', 'Laporan::index');
$routes->post('/cetaklaporan', 'Laporan::cetakLaporan');

```

c. Buat Model

Model berisi fungsi-fungsi query mysql untuk menampilkan semua data mahasiswa. Buat file model dengan nama **Angkatan_model.php**, **Jurusan_model.php**, **Kelas_model.php**, **Pembayaran_model.php**, dan **Siswa_model.php** didalam folder **Models**.

Isikan file-file tersebut dengan code sebagai berikut:

1. Angkatan_model.php

```
<?php

namespace App\Models;

use CodeIgniter\Model;

class Angkatan_model extends Model
{
    protected $table = 'angkatan';
    protected $primaryKey = 'id_angkatan';
    protected $allowedFields = ['nama_angkatan', 'biaya'];

    public function rules()
    {
        return [
            'nama_angkatan' => [
                'label' => 'nama_angkatan',
                'rules' => 'trim|required'
            ],
            'biaya' => [
                'label' => 'biaya',
                'rules' => 'trim|required'
            ],
        ];
    }

    public function getAll()
    {
        return $this->orderBy('id_angkatan', 'ASC')->findAll();
    }

    public function getById($id)
    {
        return $this->where(['id_angkatan' => $id])->first();
    }
}
```

2. Jurusan_model.php

```
<?php

namespace App\Models;
```

```

use CodeIgniter\Model;

class Jurusan_model extends Model
{
    protected $table = 'jurusan';
    protected $primaryKey = 'id_jurusan';
    protected $allowedFields = ['nama_jurusan'];

    public function rules()
    {
        return [
            'nama_jurusan' => [
                'label' => 'nama_jurusan',
                'rules' => 'trim|required'
            ],
        ];
    }

    public function getAll()
    {
        return $this->orderBy('id_jurusan', 'ASC')->findAll();
    }

    public function getById($id)
    {
        return $this->where(['id_jurusan' => $id])->first();
    }
}

```

3. Kelas_model.php

```

<?php

namespace App\Models;

use CodeIgniter\Model;

class Kelas_model extends Model
{
    protected $table = 'kelas';
    protected $primaryKey = 'id_kelas';
    protected $allowedFields = ['nama_kelas'];

    public function rules()
    {
        return [

```

```

        'nama_kelas' => [
            'label' => 'nama_kelas',
            'rules' => 'trim|required'
        ],
    ];
}

public function getAll()
{
    return $this->orderBy('id_kelas', 'ASC')->findAll();
}

public function getById($id)
{
    return $this->where(['id_kelas' => $id])->first();
}
}

```

4. Pembayaran_model.php

```

<?php

namespace App\Models;

use CodeIgniter\Model;

class Pembayaran_model extends Model
{
    protected $table = 'pembayaran';
    protected $primaryKey = 'id_pembayaran';
    protected $allowedFields = ['siswa', 'jatuhtempo', 'bulan', 'nobayar',
'tglbayar', 'jumlah', 'ket'];

    public function rules()
    {
        return [
            'siswa' => [
                'label' => 'id_siswa',
                'rules' => 'trim|required'
            ],
            'jatuhtempo' => [
                'label' => 'jatuhtempo',
                'rules' => 'trim|required'
            ],
            'bulan' => [

```

```

        'label' => 'bulan',
        'rules' => 'trim|required'
    ],
    'nobayar' => [
        'label' => 'nobayar',
        'rules' => 'trim'
    ],
    'tglbayar' => [
        'label' => 'tglbayar',
        'rules' => 'trim'
    ],
    'jumlah' => [
        'label' => 'jumlah',
        'rules' => 'trim|required'
    ],
    'ket' => [
        'label' => 'ket',
        'rules' => 'trim'
    ]
];

}

public function getById($id)
{
    return $this->where('id_pembayaran', $id)->first();
}

public function search($idSiswa)
{
    return $this->where('siswa', $idSiswa)->orderBy('jatuhtempo', 'ASC')->
findAll();
}

public function searchCetak($idSiswa)
{
    return $this->where('siswa', $idSiswa)->where('ket', 'LUNAS')->
orderBy('jatuhtempo', 'ASC')->findAll();
}

public function getLunas()
{
    return $this->where('ket', 'LUNAS')->findAll();
}

public function getLaporan($awal, $akhir)
{

```

```

        return $this->db->query("SELECT siswa.*, pembayaran.*, kelas.* FROM siswa,
pembayaran, kelas WHERE pembayaran.siswa = siswa.id_siswa AND kelas.id_kelas =
siswa.kelas AND tglbayar BETWEEN :awal: AND :akhir: ORDER BY nobayar", [
            'awal' => $awal,
            'akhir' => $akhir
        ])->getResultArray();
    }
}

```

5. Siswa_model.php

```

<?php

namespace App\Models;

use CodeIgniter\Model;

class Siswa_model extends Model
{
    protected $table = 'siswa';
    protected $primaryKey = 'id_siswa';
    protected $allowedFields = ['nisn', 'nama', 'angkatan', 'jurusan', 'kelas',
'alamat'];

    public function rules()
    {
        return [
            'nisn' => [
                'label' => 'nisn',
                'rules' => 'trim|required'
            ],
            'nama' => [
                'label' => 'nama',
                'rules' => 'trim|required'
            ],
            'angkatan' => [
                'label' => 'angkatan',
                'rules' => 'trim|required'
            ],
            'jurusan' => [
                'label' => 'jurusan',
                'rules' => 'trim|required'
            ],

```

```

        'kelas' => [
            'label' => 'kelas',
            'rules' => 'trim|required'
        ],
        'alamat' => [
            'label' => 'alamat',
            'rules' => 'trim|required'
        ]
    ];
}

public function getAll()
{
    return $this->select('siswa.*, angkatan.*, jurusan.*, kelas.*')
        ->join('angkatan', 'siswa.angkatan = angkatan.id_angkatan')
        ->join('jurusan', 'siswa.jurusan = jurusan.id_jurusan')
        ->join('kelas', 'siswa.kelas = kelas.id_kelas')
        ->orderBy('id_siswa', 'ASC')
        ->findAll();
}

public function getById($id)
{
    return $this->select('siswa.*, angkatan.*, jurusan.*, kelas.*')
        ->join('angkatan', 'siswa.angkatan = angkatan.id_angkatan')
        ->join('jurusan', 'siswa.jurusan = jurusan.id_jurusan')
        ->join('kelas', 'siswa.kelas = kelas.id_kelas')
        ->where(['id_siswa' => $id])
        ->first();
}

public function getByNisn($nisn)
{
    return $this->select('siswa.*, angkatan.*, jurusan.*, kelas.*')
        ->join('angkatan', 'siswa.angkatan = angkatan.id_angkatan')
        ->join('jurusan', 'siswa.jurusan = jurusan.id_jurusan')
        ->join('kelas', 'siswa.kelas = kelas.id_kelas')
        ->where(['nisn' => $nisn])
        ->first();
}
}

```


d. Buat Controller

Controller digunakan untuk menghubungkan antara model dengan view. Buat file controller dengan nama **Angkatan.php**, **Jurusan.php**, **Kelas.php**, **Laporan.php**, **Pembayaran.php**, dan **Siswa.php** didalam folder **Controllers**.

Isikan file-file tersebut dengan code sebagai berikut:

1. Angkatan.php

```
<?php

namespace App\Controllers;

use App\Models\Angkatan_model;

class Angkatan extends BaseController
{
    protected $angkatan;

    public function __construct()
    {
        $this->angkatan = new Angkatan_model();
        helper(['form']);
    }

    public function index()
    {
        $data = [
            'title' => 'Angkatan',
            'dataAngkatan' => $this->angkatan->getAll(),
            'validation' => \Config\Services::validation(),
            'showModal' => session()->getFlashdata('showModal'),
            'editModal' => session()->getFlashdata('editModal')
        ];
        echo view('templates/header', $data);
        echo view('angkatan/angkatan', $data);
        echo view('templates/footer');
    }

    public function save()
    {
        if (!$this->validate([
            'name' => 'required',
            'biaya' => 'required|integer',
        ])) {
            session()->setFlashdata('showModal', 'exampleModal');
```

```

        return redirect()->to(base_url('angkatan'))->withInput()->
with('validation', $this->validator);
    }
    $this->angkatan->save([
        "nama_angkatan" => $this->request->getVar('name'),
        "biaya" => $this->request->getVar('biaya'),
    ]);

    session()->setFlashdata('message', 'Data Berhasil ditambahkan.');
```

```

    return redirect()->to(base_url('angkatan'));
}

public function getEditAngkatan($id)
{
    $data['getAngkatan'] = $this->angkatan->getById($id);
    return view('angkatan/view', $data);
}

public function update($id)
{
    if (!$this->validate([
        'name' => 'required',
        'biaya' => 'required|integer',
    ])) {
        session()->setFlashdata('editModal', 'myModal');
```

```

        return redirect()->to(base_url('angkatan'))->withInput()->
with('validation', $this->validator);
    }
    $this->angkatan->save([
        "id_angkatan" => $id,
        "nama_angkatan" => $this->request->getVar('name'),
        "biaya" => $this->request->getVar('biaya'),
    ]);

    session()->setFlashdata('message', 'Data Berhasil diedit.');
```

```

    return redirect()->to(base_url('angkatan'));
}

public function delete($id)
{
    $this->angkatan->delete($id);
    session()->setFlashdata('message', 'Data Berhasil dihapus.');
```

```

    return redirect()->to(base_url('angkatan'));
}
}

```

2. Jurusan.php

```
<?php

namespace App\Controllers;

use App\Models\Jurusan_model;

class Jurusan extends BaseController
{
    protected $jurusan;

    public function __construct()
    {
        $this->jurusan = new Jurusan_model();
        helper(['form']);
    }

    public function index()
    {
        $data = [
            'title' => 'Jurusan',
            'dataJurusan' => $this->jurusan->getAll(),
            'validation' => \Config\Services::validation(),
            'showModal' => session()->getFlashdata('showModal'),
            'editModal' => session()->getFlashdata('editModal')

        ];

        echo view('templates/header', $data);
        echo view('jurusan/jurusan', $data);
        echo view('templates/footer');
    }

    public function save()
    {
        if (!$this->validate([
            'name' => 'required',
        ])) {
            session()->setFlashdata('showModal', 'exampleModal');
            return redirect()->to(base_url('jurusan'))->withInput()->with('validation', $this->validator);
        }

        $nama = strtoupper($this->request->getVar('name'));
        $this->jurusan->save([
            'nama_jurusan' => $nama,
        ]);
    }
}
```

```

        session()->setFlashdata('message', 'Data Berhasil ditambahkan.');
```

```

        return redirect()->to(base_url('jurusan'));
    }

    public function getEditJurusan($id)
    {
        $data['getJurusan'] = $this->jurusan->getById($id);
        return view('jurusan/view', $data);
    }

    public function update($id)
    {
        if (!$this->validate([
            'name' => 'required',
        ])) {
            session()->setFlashdata('editModal', 'myModal');
            return redirect()->to(base_url('jurusan'))->withInput()->
with('validation', $this->validator);
        }
        $nama = strtoupper($this->request->getVar('name'));
        $this->jurusan->save([
            "id_jurusan" => $id,
            "nama_jurusan" => $nama,
        ]);
        session()->setFlashdata('message', 'Data Berhasil diedit.');
```

```

        return redirect()->to(base_url('jurusan'));
    }

    public function delete($id)
    {
        $this->jurusan->delete($id);
        session()->setFlashdata('message', 'Data Berhasil dihapus.');
```

```

        return redirect()->to(base_url('jurusan'));
    }
}

```

3. Kelas.php

```

<?php

namespace App\Controllers;

use App\Models\Kelas_model;

```

```

class Kelas extends BaseController
{
    protected $kelas;

    public function __construct()
    {
        $this->kelas = new Kelas_model();
        helper(['form']);
    }

    public function index()
    {
        $data = [
            'title' => 'Kelas',
            'dataKelas' => $this->kelas->getAll(),
            'validation' => \Config\Services::validation(),
            'showModal' => session()->getFlashdata('showModal'),
            'editModal' => session()->getFlashdata('editModal')

        ];
        echo view('templates/header', $data);
        echo view('kelas/kelas', $data);
        echo view('templates/footer');
    }

    public function save()
    {
        if (!$this->validate([
            'name' => 'required',
        ])) {
            session()->setFlashdata('showModal', 'exampleModal');
            return redirect()->to(base_url('kelas'))->withInput()-
>with('validation', $this->validator);
        }
        $nama = strtoupper($this->request->getVar('name'));
        $this->kelas->save([
            'nama_kelas' => $nama,
        ]);
        session()->setFlashdata('message', 'Data Berhasil ditambahkan.');
```

```

public function update($id)
{
    if (!$this->validate([
        'name' => 'required',
    ])) {
        session()->setFlashdata('editModal', 'myModal');
        return redirect()->to(base_url('kelas'))->withInput()-
>with('validation', $this->validator);
    }
    $nama = strtoupper($this->request->getVar('name'));
    $this->kelas->save([
        "id_kelas" => $id,
        "nama_kelas" => $nama,
    ]);

    session()->setFlashdata('message', 'Data Berhasil diedit.');
```

```

    return redirect()->to(base_url('kelas'));
}

public function delete($id)
{
    $this->kelas->delete($id);
    session()->setFlashdata('message', 'Data Berhasil dihapus.');
```

```

    return redirect()->to(base_url('kelas'));
}
}

```

4. Laporan.php

```

<?php

namespace App\Controllers;

use App\Models\Pembayaran_model;

class Laporan extends BaseController
{
    protected $pembayaran;
    public function __construct()
    {
        $this->pembayaran = new Pembayaran_model();
    }
}

```

```

public function index()
{
    $data = [
        'title' => 'Laporan',
    ];
    echo view('templates/header', $data);
    echo view('laporan/laporan', $data);
    echo view('templates/footer');
}

public function cetakLaporan()
{
    $awal = $this->request->getVar('awal');
    $akhir = $this->request->getVar('akhir');

    $dataLaporan = $this->pembayaran->getLaporan($awal, $akhir);

    $data = [
        'dataLaporan' => $dataLaporan,
        'awal' => $awal,
        'akhir' => $akhir
    ];

    echo view('laporan/cetakLaporan', $data);
}
}

```

5. Pembayaran.php

```

<?php

namespace App\Controllers;

use App\Models\Pembayaran_model;
use App\Models\Siswa_model;

class Pembayaran extends BaseController
{
    protected $pembayaran;
    protected $siswa;
    public function __construct()
    {
        $this->pembayaran = new Pembayaran_model();
    }
}

```

```

        $this->siswa = new Siswa_model();
        helper(['form']);
    }
    public function index()
    {
        $nispn = $this->request->getVar('nispn');

        if ($nispn) {
            if (!$this->validate([
                'nispn' => 'required|integer',
            ])) {
                return redirect()->to(base_url('pembayaran'))->withInput()->
with('validation', $this->validator);
            }
            $dataSiswa = $this->siswa->getByNispn($nispn);
            if (!$dataSiswa) {
                $data = [
                    'title' => 'Pembayaran',
                    'nispnSiswa' => $nispn
                ];
                echo view('templates/header', $data);
                echo view('pembayaran/pembayaran', $data);
                echo view('pembayaran/dataKosong', $data);
                echo view('templates/footer');
            } else {
                $dataPembayaran = $this->pembayaran->search($dataSiswa['id_siswa']);
                $data = [
                    'title' => 'Pembayaran',
                    'dataSiswa' => $dataSiswa,
                    'dataPembayaran' => $dataPembayaran,
                    'nispnSiswa' => $nispn
                ];
                echo view('templates/header', $data);
                echo view('pembayaran/pembayaran', $data);
                echo view('pembayaran/dataSiswa', $data);
                echo view('pembayaran/dataPembayaran', $data);
                echo view('templates/footer');
            }
        } else {
            $data = [
                'title' => 'Pembayaran',
                'nispnSiswa' => ''
            ];
            echo view('templates/header', $data);
            echo view('pembayaran/pembayaran', $data);
        }
    }
}

```



```

        echo view('templates/footer');
    }
}

public function prosesTransaksi()
{
    $nisn = $this->request->getGet('nisn');
    $dataSiswa = $this->siswa->getByNisn($nisn);
    if (!$dataSiswa) {
        return redirect()->to(base_url('pembayaran'));
    }

    $idPembayaran = $this->request->getGet('id');
    $dataPembayaran = $this->pembayaran->getById($idPembayaran);
    if (!$dataPembayaran) {
        return redirect()->to(base_url('pembayaran'));
    }

    if ($dataPembayaran['nobayar'] == '') {
        $tglbayar = date('Y-m-d');
        $nobayar = date('dmYHisis');

        $this->pembayaran->save([
            "id_pembayaran" => $idPembayaran,
            "nobayar" => $nobayar,
            "tglbayar" => $tglbayar,
            "ket" => "LUNAS",
        ]);
        return redirect()->to(base_url("pembayaran?nisn=$nisn"));
    } else {
        $this->pembayaran->save([
            "id_pembayaran" => $idPembayaran,
            "nobayar" => '',
            "tglbayar" => '',
            "ket" => "",
        ]);
        return redirect()->to(base_url("pembayaran?nisn=$nisn"));
    }
}

public function cetakSemuaTransaksi()
{
    $nisn = $this->request->getGet('nisn');
    $dataSiswa = $this->siswa->getByNisn($nisn);

```

```

        if (!$dataSiswa) {
            return redirect()->to(base_url('pembayaran'));
        }
        $dataPembayaran = $this->pembayaran->searchCetak($dataSiswa['id_siswa']);
        if (!$dataPembayaran) {
            return redirect()->to(base_url('pembayaran'));
        }

        $data = [
            'dataSiswa' => $dataSiswa,
            'dataPembayaran' => $dataPembayaran,
        ];
        echo view('pembayaran/cetakSemuaTransaksi', $data);
    }

    public function cetakSlipTransaksi()
    {
        $nispn = $this->request->getGet('nispn');
        $dataSiswa = $this->siswa->getByNispn($nispn);
        if (!$dataSiswa) {
            return redirect()->to(base_url('pembayaran'));
        }
        $idPembayaran = $this->request->getGet('id');
        $dataPembayaran = $this->pembayaran->getById($idPembayaran);
        if (!$dataPembayaran) {
            return redirect()->to(base_url('pembayaran'));
        }

        $data = [
            'dataSiswa' => $dataSiswa,
            'dataPembayaran' => $dataPembayaran,
        ];

        echo view('pembayaran/cetakSlipTransaksi', $data);
    }
}

```

6. Siswa.php

```

<?php

namespace App\Controllers;

```

```

use App\Models\Siswa_model;
use App\Models\Angkatan_model;
use App\Models\Jurusan_model;
use App\Models\Kelas_model;
use App\Models\Pembayaran_model;

class Siswa extends BaseController
{
    protected $siswa;
    protected $angkatan;
    protected $jurusan;
    protected $kelas;
    protected $pembayaran;

    public function __construct()
    {
        $this->siswa = new Siswa_model();
        $this->angkatan = new Angkatan_model();
        $this->jurusan = new Jurusan_model();
        $this->kelas = new Kelas_model();
        $this->pembayaran = new Pembayaran_model();
        helper(['form', 'url']);
    }

    public function index()
    {
        $data = [
            'title' => 'Siswa',
            'dataSiswa' => $this->siswa->getAll(),
            'dataAngkatan' => $this->angkatan->getAll(),
            'dataJurusan' => $this->jurusan->getAll(),
            'dataKelas' => $this->kelas->getAll(),
            'validation' => \Config\Services::validation(),
            'showModal' => session()->getFlashdata('showModal'),
            'editModal' => session()->getFlashdata('editModal')
        ];
        echo view('templates/header', $data);
        echo view('siswa/siswa', $data);
        echo view('templates/footer');
    }

    public function save()
    {
        if (!$this->validate([
            'nisn' => 'required|integer|is_unique[siswa.nisn]',
            'name' => 'required',

```

```

        'angkatan' => 'required',
        'jurusan' => 'required',
        'kelas' => 'required',
        'alamat' => 'required'
    ))) {
        session()->setFlashdata('showModal', 'exampleModal');
        return redirect()->to(base_url('siswa'))->withInput()-
>with('validation', $this->validator);
    }

    $nama = strtoupper($this->request->getVar('name'));

    //menyimpan data siswa
    $this->siswa->save([
        "nisn" => $this->request->getVar('nisn'),
        "nama" => $nama,
        "angkatan" => $this->request->getVar('angkatan'),
        "jurusan" => $this->request->getVar('jurusan'),
        "kelas" => $this->request->getVar('kelas'),
        "alamat" => $this->request->getVar('alamat'),
    ]);

    $dataSiswa = $this->siswa->getByNisn($this->request->getVar('nisn'));
    //menyimpan data pembayaran siswa
    if ($dataSiswa) {
        $bulanIndo = [
            '01' => 'Januari',
            '02' => 'Februari',
            '03' => 'Maret',
            '04' => 'April',
            '05' => 'Mei',
            '06' => 'Juni',
            '07' => 'Juli',
            '08' => 'Agustus',
            '09' => 'September',
            '10' => 'Oktober',
            '11' => 'November',
            '12' => 'Desember'
        ];
        $awaltempo = date('Y-m-d');

        for ($i = 0; $i < 36; $i++) {
            $jatuhtempo = date("Y-m-d", strtotime("+ $i month",
            strtotime($awaltempo)));

```

```

        $bulan = $bulanIndo[date('m', strtotime($jatuhtempo))] . " " .
date('Y', strtotime($jatuhtempo));

        $this->pembayaran->save([
            "siswa" => $dataSiswa['id_siswa'],
            "jatuhtempo" => $jatuhtempo,
            "bulan" => $bulan,
            "jumlah" => $dataSiswa['biaya']
        ]);
    }
}

session()->setFlashdata('message', 'Data Berhasil ditambahkan.');
```

```

return redirect()->to(base_url('siswa'));
}

public function getEditSiswa($id)
{
    $data = [
        'title' => 'Siswa',
        'getSiswa' => $this->siswa->getById($id),
        'getAngkatan' => $this->angkatan->getAll(),
        'getJurusan' => $this->jurusan->getAll(),
        'getKelas' => $this->kelas->getAll(),

    ];
    return view('siswa/view', $data);
}

public function update($id)
{
    if (!$this->validate([
        'nisn' => 'required|integer',
        'name' => 'required',
        'angkatan' => 'required',
        'jurusan' => 'required',
        'kelas' => 'required',
        'alamat' => 'required'
    ])) {
        session()->setFlashdata('showModal', 'exampleModal');
        return redirect()->to(base_url('kelas'))->withInput()-
>with('validation', $this->validator);
    }
    $nama = strtoupper($this->request->getVar('name'));

```

```

//menyimpan data siswa
$this->siswa->save([
    "id_siswa" => $id,
    "nisn" => $this->request->getVar('nisn'),
    "nama" => $nama,
    "angkatan" => $this->request->getVar('angkatan'),
    "jurusan" => $this->request->getVar('jurusan'),
    "kelas" => $this->request->getVar('kelas'),
    "alamat" => $this->request->getVar('alamat'),
]);

session()->setFlashdata('message', 'Data Berhasil diedit.');
```

```

return redirect()->to(base_url('siswa'));
}

public function delete($id)
{
    $this->siswa->delete($id);
    $this->pembayaran->where('siswa', $id)->delete();
    session()->setFlashdata('message', 'Data Berhasil dihapus.');
```

```

    return redirect()->to(base_url('kelas'));
}

public function dataSiswa()
{
    $data = [
        'title' => 'Siswa',
        'dataSiswa' => $this->siswa->getAll(),
    ];
    echo view('templates/header', $data);
    echo view('siswa/dataSiswa', $data);
    echo view('templates/footer');
```

```

}
}

```

Jika sudah semua tinggal mengubah dan menambahkan isi file **Home.php** yang ada di dalam folder **Controllers**.

```

<?php

namespace App\Controllers;

use App\Models\Pembayaran_model;

```

```

class Home extends BaseController
{
    protected $pembayaran;

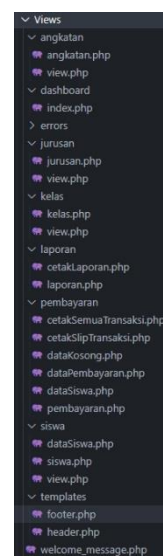
    public function __construct()
    {
        $this->pembayaran = new Pembayaran_model();
    }

    public function index()
    {
        $dataPembayaran = $this->pembayaran->getLunas();
        $totalTransaksi = count($dataPembayaran);
        $totalUang = 0;
        foreach ($dataPembayaran as $pembayaran) :
            $totalUang += $pembayaran['jumlah'];
        endforeach;
        $data = [
            'title' => 'Dasboard',
            'totalTransaksi' => $totalTransaksi,
            'totalUang' => $totalUang
        ];
        echo view('templates/header', $data);
        echo view('dashboard/index', $data);
        echo view('templates/footer');
    }
}

```

e. Buat View

Setelah controller dan model sudah dibuat selanjutnya membuat view untuk menampilkan aplikasi. Disini kami membagi view menjadi beberapa bagian. Untuk bagian navbar kami memasukan di dalam folder **Views/templates**. Di dalam folder **templates** kami menyimpan dua file view yaitu **header.php** dan **footer.php**. sedangkan untuk tampilan awal kami kami membuat folder **dashboard**, kemudian kami isi dengan file **index.php**. Sisanya akan ditunjukkan pada gambar di samping. Source Code yang kami buat sebagai berikut.



A. Views/templates

1. header.php

```
<!DOCTYPE html>
<html lang="en">

<head>

    <meta charset="utf-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
    <meta name="description" content="">
    <meta name="author" content="">

    <title><?= $title ?></title>

    <!-- Custom fonts for this template-->
    <link href="<?= base_url() ?>vendor/fontawesome-free/css/all.min.css"
rel="stylesheet" type="text/css">
    <link
href="https://fonts.googleapis.com/css?family=Nunito:200,200i,300,300i,400,400i,600,
600i,700,700i,800,800i,900,900i" rel="stylesheet">

    <!-- Custom styles for this template-->
    <link href="<?= base_url() ?>css/sb-admin-2.min.css" rel="stylesheet">

    <!-- Custom styles for this page -->
    <link href="<?= base_url() ?>vendor/datatables/dataTables.bootstrap4.min.css"
rel="stylesheet">

    <!-- jQuery and Bootstrap -->
    <script src="<?= base_url() ?>vendor/jquery/jquery.min.js"></script>
    <script src="<?=
base_url() ?>vendor/bootstrap/js/bootstrap.bundle.min.js"></script>

</head>

<body id="page-top">

    <!-- Page Wrapper -->
    <div id="wrapper">
```



```

        <!-- Sidebar -->
        <ul class="navbar-nav bg-gradient-primary sidebar sidebar-dark accordion"
id="accordionSidebar">

            <!-- Sidebar - Brand -->
            <a class="sidebar-brand d-flex align-items-center justify-content-
center" href="<?= base_url() ?>">
                <div class="sidebar-brand-icon rotate-n-15">

                    </div>
                    <div class="sidebar-brand-text mx-3">Aplikasi Pembayaran SPP
Sekolah</div>
                </a>

            <!-- Divider -->
            <hr class="sidebar-divider my-0">

            <!-- Nav Item - Dashboard -->
            <li class="nav-item active">
                <a class="nav-link" href="<?= base_url() ?>">
                    <i class="fas fa-fw fa-tachometer-alt"></i>
                    <span>Dashboard</span></a>
            </li>

            <!-- Divider -->
            <hr class="sidebar-divider">

            <!-- Heading -->
            <div class="sidebar-heading">
                Interface
            </div>

            <!-- Nav Item - Pages Collapse Menu -->
            <li class="nav-item">
                <a class="nav-link collapsed" href="" data-toggle="collapse" data-
target="#collapseTwo" aria-expanded="true" aria-controls="collapseTwo">
                    <i class="fas fa-fw fa-cog"></i>
                    <span>Transaksi SPP</span>
                </a>
                <div id="collapseTwo" class="collapse" aria-labelledby="headingTwo"
data-parent="#accordionSidebar">
                    <div class="bg-white py-2 collapse-inner rounded">
                        <h6 class="collapse-header">Transaksi</h6>
                        <a class="collapse-item" href="<?=
base_url('pembayaran') ?>">Bayar SPP Siswa</a>

```

```

        </div>
    </div>
</li>

<!-- Nav Item - Utilities Collapse Menu -->
<li class="nav-item">
    <a class="nav-link collapsed" href="#" data-toggle="collapse" data-
target="#collapseUtilities" aria-expanded="true" aria-controls="collapseUtilities">
        <i class="fas fa-fw fa-wrench"></i>
        <span>Data Siswa</span>
    </a>
    <div id="collapseUtilities" class="collapse" aria-
labelledby="headingUtilities" data-parent="#accordionSidebar">
        <div class="bg-white py-2 collapse-inner rounded">
            <h6 class="collapse-header">Siswa</h6>
            <a class="collapse-item" href="{%=
base_url('datasiswa') %}">Lihat Data Siswa</a>
        </div>
    </div>
</li>

<!-- Divider -->
<hr class="sidebar-divider">

<!-- Heading -->
<div class="sidebar-heading">
    Addons
</div>

<!-- Nav Item - Pages Collapse Menu -->
<li class="nav-item">
    <a class="nav-link collapsed" href="#" data-toggle="collapse" data-
target="#collapsePages" aria-expanded="true" aria-controls="collapsePages">
        <i class="fas fa-fw fa-folder"></i>
        <span>Master Data</span>
    </a>
    <div id="collapsePages" class="collapse" aria-
labelledby="headingPages" data-parent="#accordionSidebar">
        <div class="bg-white py-2 collapse-inner rounded">
            <a class="collapse-item" href="{%=
base_url('siswa') %}">Data Siswa</a>
            <a class="collapse-item" href="{%=
base_url('kelas') %}">Data Kelas</a>
            <a class="collapse-item" href="{%=
base_url('jurusan') %}">Data Jurusan</a>

```

```

                <a class="collapse-item" href="{%=
base_url('angkatan') %}">Data Angkatan</a>
            </div>
        </div>
    </li>
    <li class="nav-item">
        <a class="nav-link collapsed" href="#" data-toggle="collapse" data-
target="#collapsePages1" aria-expanded="true" aria-controls="collapsePages">
            <i class="fas fa-fw fa-folder"></i>
            <span>Laporan</span>
        </a>
        <div id="collapsePages1" class="collapse" aria-
labelledby="headingPages" data-parent="#accordionSidebar">
            <div class="bg-white py-2 collapse-inner rounded">
                <a class="collapse-item" href="{%=
base_url('laporan') %}">Cetak Laporan</a>

            </div>
        </div>
    </li>

    <!-- Divider -->
    <hr class="sidebar-divider d-none d-md-block">

    <!-- Sidebar Toggler (Sidebar) -->
    <div class="text-center d-none d-md-inline">
        <button class="rounded-circle border-0" id="sidebarToggle"></button>
    </div>

</ul>
<!-- End of Sidebar -->

<!-- Content Wrapper -->
<div id="content-wrapper" class="d-flex flex-column">

    <!-- Main Content -->
    <div id="content">

        <!-- Topbar -->
        <nav class="navbar navbar-expand navbar-light bg-white topbar mb-4
static-top shadow">

```

```

<!-- Sidebar Toggle (Topbar) -->
<button id="sidebarToggleTop" class="btn btn-link d-md-none
rounded-circle mr-3">
    <i class="fa fa-bars"></i>
</button>

<!-- Topbar Search -->

<!-- Topbar Navbar -->
<ul class="navbar-nav ml-auto">

    <!-- Nav Item - Search Dropdown (Visible Only XS) -->
    <li class="nav-item dropdown no-arrow d-sm-none">
        <a class="nav-link dropdown-toggle" href="#"
id="searchDropdown" role="button" data-toggle="dropdown" aria-haspopup="true" aria-
expanded="false">
            <i class="fas fa-search fa-fw"></i>
        </a>
        <!-- Dropdown - Messages -->
        <div class="dropdown-menu dropdown-menu-right p-3 shadow
animated--grow-in" aria-labelledby="searchDropdown">
            <form class="form-inline mr-auto w-100 navbar-
search">
                <div class="input-group">
                    <input type="text" class="form-control bg-
light border-0 small" placeholder="Search for..." aria-label="Search" aria-
describedby="basic-addon2">
                    <div class="input-group-append">
                        <button class="btn btn-primary"
type="button">
                            <i class="fas fa-search fa-sm"></i>
                        </button>
                    </div>
                </div>
            </form>
        </div>
    </li>

    <div class="topbar-divider d-none d-sm-block"></div>

    <!-- Nav Item - User Information -->

```

```

        <li class="nav-item dropdown no-arrow">
            <a class="nav-link dropdown-toggle" href="#"
id="userDropdown" role="button" data-toggle="dropdown" aria-haspopup="true" aria-
expanded="false">
                <span class="mr-2 d-none d-lg-inline text-gray-600
small">Admin</span>
                
            </a>
            <!-- Dropdown - User Information -->
            <div class="dropdown-menu dropdown-menu-right shadow
animated--grow-in" aria-labelledby="userDropdown">
                <a class="dropdown-item"
href="editdataadmin.php?id_admin=admin">
                    <i class="fas fa-user fa-sm fa-fw mr-2 text-
gray-400"></i>
                    Profile
                </a>
                <div class="dropdown-divider"></div>
                <a class="dropdown-item" href="logout.php" data-
toggle="modal" data-target="#logoutModal">
                    <i class="fas fa-sign-out-alt fa-sm fa-fw mr-2
text-gray-400"></i>
                    Logout
                </a>
            </div>
        </li>
    </ul>

</nav>
<!-- End of Topbar -->

<!-- Begin Page Content -->
<div class="container-fluid">

```

2. footer.php

```

<!-- Footer -->
<footer class="sticky-footer bg-white">
    <div class="container my-auto">
        <div class="copyright text-center my-auto">
            <span>Copyright &copy; Your Website 2024</span>
        </div>
    </div>
</div>

```

```

</footer>
<!-- End of Footer -->

</div>
<!-- End of Content Wrapper -->

</div>
<!-- End of Page Wrapper -->

<!-- Scroll to Top Button-->
<a class="scroll-to-top rounded" href="#page-top">
    <i class="fas fa-angle-up"></i>
</a>

<!-- Logout Modal-->
<div class="modal fade" id="logoutModal" tabindex="-1" role="dialog" aria-
labelledby="exampleModalLabel" aria-hidden="true">
    <div class="modal-dialog" role="document">
        <div class="modal-content">
            <div class="modal-header">
                <h5 class="modal-title" id="exampleModalLabel">Apakah anda yakin
ingin keluar?</h5>
                <button class="close" type="button" data-dismiss="modal" aria-
label="Close">
                    <span aria-hidden="true">x</span>
                </button>
            </div>
            <div class="modal-body mb-2 mt-2">Pilih "Logout" di bawah, jika Anda
ingin keluar saat ini.</div>
            <div class="modal-footer">
                <button class="btn btn-secondary" type="button" data-
dismiss="modal">Cancel</button>
                <a class="btn btn-primary" href="/logout">Logout</a>
            </div>
        </div>
    </div>
</div>

<!-- Bootstrap core JavaScript-->

<script src="<?= base_url() ?>vendor/bootstrap/js/bootstrap.bundle.min.js"></script>

<!-- Core plugin JavaScript-->
<script src="<?= base_url() ?>vendor/jquery-easing/jquery.easing.min.js"></script>

```

```

<!-- Custom scripts for all pages-->
<script src="<?= base_url() ?>js/sb-admin-2.min.js"></script>

<!-- Page level plugins -->
<script src="<?= base_url() ?>vendor/chart.js/Chart.min.js"></script>

<!-- Page level custom scripts -->
<script src="<?= base_url() ?>js/demo/chart-area-demo.js"></script>
<script src="<?= base_url() ?>js/demo/chart-pie-demo.js"></script>

<!-- Page level plugins -->
<script src="<?= base_url() ?>vendor/datatables/jquery.dataTables.min.js"></script>
<script>
    $(document).ready(function() {
        $('#dataTable').DataTable({
            searching: false // Menghilangkan fitur pencarian
        });
    });
</script>
<script src="<?=
base_url() ?>vendor/datatables/dataTables.bootstrap4.min.js"></script>

<!-- Page level custom scripts -->
<script src="<?= base_url() ?>js/demo/datatables-demo.js"></script>
<script src="<?= base_url() ?>js/bootstrap.min.js"></script>
<script src="<?= base_url() ?>js/popper.min.js"></script>

</body>

</html>

```

B. View/dashboard

1. index.php

```

<!-- Page Heading -->
<div class="d-sm-flex align-items-center justify-content-between mb-4">
    <h1 class="h3 mb-0 text-gray-800">Dashboard</h1>
</div>
<!-- Content Row -->
<div class="row">

```

```

<!-- Earnings (Monthly) Card Example -->
<div class="col-xl-3 col-md-6 mb-4">
  <div class="card border-left-primary shadow h-100 py-2">
    <div class="card-body">
      <div class="row no-gutters align-items-center">
        <div class="col mr-2">
          <div class="text-xs font-weight-bold text-primary text-
uppercase mb-1">
            Total Transaksi</div>
          <div class="h5 mb-0 font-weight-bold text-gray-800"><?=$totalTransaksi ?></div>
        </div>
        <div class="col-auto">
          <i class="fas fa-calendar fa-2x text-gray-300"></i>
        </div>
      </div>
    </div>
  </div>
</div>
<!-- Earnings (Monthly) Card Example -->
<div class="col-xl-3 col-md-6 mb-4">
  <div class="card border-left-success shadow h-100 py-2">
    <div class="card-body">
      <div class="row no-gutters align-items-center">
        <div class="col mr-2">
          <div class="text-xs font-weight-bold text-success text-
uppercase mb-1">
            Total Uang</div>
          <div class="h5 mb-0 font-weight-bold text-gray-800">Rp. <?=$totalUang ?></div>
        </div>
        <div class="col-auto">
          <i class="fas fa-dollar-sign fa-2x text-gray-300"></i>
        </div>
      </div>
    </div>
  </div>
</div>
</div>
</div>
<!-- Content Row -->

```


C. View/angkatan

1. angkatan.php

```
<!-- button trigger -->
<button class="btn btn-primary mb-3" data-bs-toggle="modal" data-bs-
target="#exampleModal">Tambah Data</button>
<!-- Menampilkan flashh data (pesan saat data berhasil disimpan)-->
<?php

if (session()->getFlashdata('message')) : ?>
    <div class="alert alert-success alert-dismissible fade show" role="alert">
        <?= session()->getFlashdata('message'); ?>
        <button type="button" class="close" data-dismiss="alert" aria-label="Close">
            <span aria-hidden="true">&times;
        </span>
        </button>
    </div>;
<?php endif;
?>
<!-- button trigger -->
<div class="card shadow mb-4">
    <div class="card-header py-3">
        <h6 class="m-0 font-weight-bold text-primary">Data Angkatan</h6>
    </div>
    <div class="card-body">
        <div class="table-responsive">
            <table class="table table-bordered" id="dataTable" width="100%"
cellspacing="0">
                <thead>
                    <tr>
                        <th>No</th>
                        <th>Nama Angkatan</th>
                        <th>Biaya</th>
                        <th>Aksi</th>
                    </tr>
                </thead>
                <tbody>
                    <?php
                    $no = 1;
                    foreach ($dataAngkatan as $row) : ?>
                        <tr>
                            <td><?= $no++ ?></td>
                            <td><?= $row['nama_angkatan'] ?></td>
                            <td><?= $row['biaya'] ?></td>
                            <td>
```

```

                <a href="javascript:void(0);" data="<?=$row['id_angkatan'] ?>" class="view_data btn btn-sm btn-danger item-delete">Delete</a>

                <a href="#" class="view_data btn btn-sm btn-warning" data-bs-toggle="modal" data-bs-target="#myModal" data-id="<?=$row['id_angkatan'] ?>">Edit</a>
            </td>
        </tr>
    </tr>
    <?php endforeach; ?>
</tbody>

</table>
</div>
</div>
</div>

<!-- Modal -->
<div class="modal fade" id="exampleModal" tabindex="-1" aria-labelledby="exampleModalLabel" aria-hidden="true">
    <div class="modal-dialog">
        <div class="modal-content">
            <div class="modal-header">
                <h5 class="modal-title" id="exampleModalLabel">Data Angkatan</h5>
                <button type="button" class="btn-close" data-bs-dismiss="modal" aria-label="Close" id="btn-closeee">X</button>
            </div>
            <script>

            </script>

            <div class="modal-body">
                <form action="<? = base_url('angkatan/create') ?>" method="POST">
                    <input type="text" name="name" placeholder="Nama angkutan" class="form-control mb-2 <? = (validation_show_error('name')) ? 'is-invalid' : '' ; ?>" value="<? = set_value('name'); ?>" autofocus required>
                    <small class="text-danger invalid-feedback">
                        <? = validation_show_error('name') ?>
                    </small>
                    <input type="text" name="biaya" placeholder="biaya" class="form-control mb-2 <? = (validation_show_error('biaya')) ? 'is-invalid' : '' ; ?>" required>
                    <small class="text-danger invalid-feedback" value="<? = set_value('biaya'); ?>">
                        <? = validation_show_error('biaya') ?>
                    </small>
                </form>
            </div>
        </div>
    </div>
</div>

```



```

<script>
    $('.view_data').click(function() {
        var id_angkatan = $(this).data('id');
        $.ajax({
            url: `<? = base_url() ?>angkatan/editangkatan/${id_angkatan}`,
            method: 'get',
            success: function(data) {
                $('#dataangkatan').html(data);
                $('#myModal').modal('show');
            }
        });
    });
</script>

<!-- Modal dialog hapus data-->

<div class="modal fade" id="myModalDelete" tabindex="-1" aria-
labelledby="myModalDeleteLabel" aria-hidden="true">
    <div class="modal-dialog">
        <div class="modal-content">
            <div class="modal-header">
                <h5 class="modal-title" id="myModalDeleteLabel">Konfirmasi</h5>
                <button type="button" class="btn-close" data-bs-dismiss="modal"
aria-label="Close">X</button>
            </div>
            <div class="modal-body">
                Anda ingin menghapus data ini?
            </div>
            <div class="modal-footer">
                <button type="button" class="btn btn-secondary" data-bs-
dismiss="modal">Tutup</button>
                <button type="button" class="btn btn-danger"
id="btdelete">Lanjutkan</button>
            </div>
        </div>
    </div>
</div>

<script>
    $('#dataTable').on('click', '.item-delete', function() {
        var id = $(this).attr('data');
        $('#myModalDelete').modal('show');
    });

```

```

        $('#btdelete').off('click').on('click', function() {
            $.ajax({
                url: `<? = base_url() ?>angkatan/delete/${id}`,
                method: 'delete',
                success: function(response) {
                    $('#myModalDelete').modal('hide');
                    location.reload();
                },
                error: function(xhr, status, error) {
                    console.error('AJAX Error:', error);
                }
            });
        });
    });
</script>

```

2. view.php

```

<form action="<? = base_url() ?>angkatan/edit/<? = $getAngkatan['id_angkatan'] ?>" method="post">
    <input type="text" name="name" value="<? = $getAngkatan['nama_angkatan'] ?>" class="form-control mb-2" required>
    <input type="text" name="biaya" value="<? = $getAngkatan['biaya'] ?>" class="form-control mb-2" required>
    <div class="modal-footer">
        <button type="button" class="btn btn-secondary" data-bs-dismiss="modal">Close</button>
        <button type="submit" name="edit" class="btn btn-primary">Simpan</button>
    </div>
</form>

```

D. View/jurusan

1. jurusan.php

```

<!-- button trigger -->
<button class="btn btn-primary mb-3" data-bs-toggle="modal" data-bs-target="#exampleModal">Tambah Data</button>
<?php
if (session()->getFlashdata('message')) : ?>
    <div class="alert alert-success alert-dismissible fade show" role="alert">
        <? = session()->getFlashdata('message'); ?>
        <button type="button" class="close" data-dismiss="alert" aria-label="Close">
            <span aria-hidden="true">&times;
        </span>
        </button>
    </div>;

```

```

<?php endif;
?>
<!-- button trigger -->
<div class="card shadow mb-4">
    <div class="card-header py-3">
        <h6 class="m-0 font-weight-bold text-primary">Data jurusan</h6>
    </div>
    <div class="card-body">
        <div class="table-responsive">
            <table class="table table-bordered" id="dataTable" width="100%"
cellspacing="0">
                <thead>
                    <tr>
                        <th>No</th>
                        <th>Nama Jurusan</th>
                        <th>Aksi</th>
                    </tr>
                </thead>
                <?php
                $no = 1;
                foreach ($dataJurusan as $row) :
                ?>
                    <tbody>
                        <tr>
                            <td><?=$no++ ?></td>
                            <td><?=$row['nama_jurusan'] ?></td>
                            <td>
                                <a href="javascript:void(0);" data="<?=$row['id_jurusan'] ?>" class="view_data btn btn-sm btn-danger item-delete">Delete</a>

                                <a href="#" class="view_data btn btn-sm btn-warning"
data-bs-toggle="modal" data-bs-target="#myModal" data-id="<?=$row['id_jurusan'] ?>">Edit</a>
                            </td>
                        </tr>
                    </tbody>
                <?php endforeach; ?>
                </table>
            </div>
        </div>
    </div>
</div>
<!-- Modal -->
<div class="modal fade" id="exampleModal" tabindex="-1" aria-
labelledby="exampleModalLabel" aria-hidden="true">

```

```

<div class="modal-dialog">
  <div class="modal-content">
    <div class="modal-header">
      <h5 class="modal-title" id="exampleModalLabel">Data Jurusan</h5>
      <button type="button" class="btn-close" data-bs-dismiss="modal"
aria-label="Close">x</button>
    </div>
    <div class="modal-body">
      <form action="{<? = base_url('jurusan/create') ?>" method="POST">
        <input type="text" name="name" placeholder="Nama jurusan"
class="form-control mb-2 <? = (validation_show_error('name')) ? 'is-invalid' :
'; ?>" value="{<? = set_value('name'); ?>" autofocus required>
        <small class="text-danger invalid-feedback">
          <? = validation_show_error('name') ?>
        </small>

      </div>
      <div class="modal-footer">
        <button type="button" class="btn btn-secondary" data-bs-
dismiss="modal">Close</button>
        <button type="Submit" name="simpan" class="btn btn-
primary">Simpan</button>
      </form>
    </div>
  </div>
</div>

<script>
  <?php if (session()->getFlashdata('showModal')) : ?>
    var showModal = "<? = session()->getFlashdata('showModal') ?>";
    $('# + showModal).modal('show');
    $('#btn-closee').click(function() {
      $('# + showModal).modal('hide');
    });
  <?php endif; ?>
</script>

<div class="modal fade" id="myModal" tabindex="-1" aria-
labelledby="exampleModalLabel" aria-hidden="true">
  <div class="modal-dialog">
    <div class="modal-content">
      <div class="modal-header">

```

```

        <h5 class="modal-title" id="exampleModallabel">Edit Data
Jurusan</h5>

        <button type="button" class="btn-close" data-bs-dismiss="modal"
aria-label="close">x</button>
    </div>

    <div class="modal-body" id="dataajurusan">


    </div>
</div>
</div>
</div>

<script>
    $('.view_data').click(function() {
        var id_jurusan = $(this).data('id');
        $.ajax({
            url: `<?= base_url() ?>jurusan/editjurusan/${id_jurusan}`,
            method: 'get',
            success: function(data) {
                $('#dataajurusan').html(data);
                $('#myModal').modal('show');
            }
        });
    });
</script>

<!-- Modal dialog hapus data-->

<div class="modal fade" id="myModalDelete" tabindex="-1" aria-
labelledby="myModalDeleteLabel" aria-hidden="true">
    <div class="modal-dialog">
        <div class="modal-content">
            <div class="modal-header">
                <h5 class="modal-title" id="myModalDeleteLabel">Konfirmasi</h5>
                <button type="button" class="btn-close" data-bs-dismiss="modal"
aria-label="Close">X</button>
            </div>
            <div class="modal-body">
                Anda ingin menghapus data ini?
            </div>
            <div class="modal-footer">

```



```

        <button type="button" class="btn btn-secondary" data-bs-
dismiss="modal">Tutup</button>
        <button type="button" class="btn btn-danger"
id="btdelete">Lanjutkan</button>
    </div>
</div>
</div>
</div>
</div>

<script>
    $('#dataTable').on('click', '.item-delete', function() {
        var id = $(this).attr('data');
        $('#myModalDelete').modal('show');
        $('#btdelete').off('click').on('click', function() {
            $.ajax({
                url: `<? = base_url() ?>jurusan/delete/${id}`,
                method: 'delete',
                success: function(response) {
                    $('#myModalDelete').modal('hide');
                    location.reload();
                },
                error: function(xhr, status, error) {
                    console.error('AJAX Error:', error);
                }
            });
        });
    });
</script>

```

2. view.php

```

<form action="/jurusan/edit/<? = $getJurusan['id_jurusan'] ?>" method="POST">
    <input type="text" name="name" value="<? = $getJurusan['nama_jurusan'] ?>" class="form-
control mb-2" required autofocus>
    <div class="modal-footer">
        <button type="button" class="btn btn-secondary" data-bs-dismiss="modal">Close</button>
        <button type="submit" name="edit" class="btn btn-primary">Simpan</button>
    </div>
</form>

```

E. View/kelas

1. kelas.php

```
<!-- button trigger -->
<button class="btn btn-primary mb-3" data-bs-toggle="modal" data-bs-
target="#exampleModal">Tambah Data</button>

<?php
if (session()->getFlashdata('message')) : ?>
    <div class="alert alert-success alert-dismissible fade show" role="alert">
        <?= session()->getFlashdata('message'); ?>
        <button type="button" class="close" data-dismiss="alert" aria-label="Close">
            <span aria-hidden="true">&times;
        </span>
        </button>
    </div>;
<?php endif;
?>
<!-- button trigger -->
<div class="card shadow mb-4">
    <div class="card-header py-3">
        <h6 class="m-0 font-weight-bold text-primary">Data Kelas</h6>
    </div>
    <div class="card-body">
        <div class="table-responsive">
            <table class="table table-bordered" id="dataTable" width="100%"
cellspacing="0">
                <thead>
                    <tr>
                        <th>No</th>
                        <th>Nama Kelas</th>
                        <th>Aksi</th>
                    </tr>
                </thead>
                <?php
                $no = 1;
                foreach ($dataKelas as $row) :
                ?>
                    <tbody>
                        <tr>
                            <td><?= $no++ ?></td>
                            <td><?= $row['nama_kelas'] ?></td>
                            <td>
                                <a href="javascript:void(0);" data="<?=
$row['id_kelas'] ?>" class="view_data btn btn-sm btn-danger item-delete">Delete</a>
```

```

                <a href="#" class="view_data btn btn-sm btn-warning"
data-bs-toggle="modal" data-bs-target="#myModal" data-id="<?=$row['id_kelas'] ?>">Edit</a>
            </td>
        </tr>
    </tbody>
</table>
</div>
</div>
<!-- Modal -->
<div class="modal fade" id="exampleModal" tabindex="-1" aria-
labelledby="exampleModalLabel" aria-hidden="true">
    <div class="modal-dialog">
        <div class="modal-content">
            <div class="modal-header">
                <h5 class="modal-title" id="exampleModalLabel">Data Jurusan</h5>
                <button type="button" class="btn-close" data-bs-dismiss="modal"
aria-label="Close">x</button>
            </div>
            <div class="modal-body">
                <form action="<? = base_url('kelas/create') ?>" method="POST">
                    <input type="text" name="name" placeholder="Nama kelas"
class="form-control mb-2 <? = (validation_show_error('name')) ? 'is-invalid' :
''; ?>" value="<? = set_value('name'); ?>" autofocus required>
                    <small class="text-danger invalid-feedback">
                        <? = validation_show_error('name') ?>
                    </small>
                </form>
            </div>
            <div class="modal-footer">
                <button type="button" class="btn btn-secondary" data-bs-
dismiss="modal">Close</button>
                <button type="Submit" name="simpan" class="btn btn-
primary">Simpan</button>
            </div>
        </div>
    </div>
</div>
<script>
    <?php if (session()->getFlashdata('showModal')) : ?>

```

```

        var showModal = "<?php session()->getFlashdata('showModal') ?>";
        $('#'+ showModal).modal('show');
        $('#btn-closee').click(function() {
            $('#'+ showModal).modal('hide');
        });
    <?php endif; ?>
</script>
<div class="modal fade" id="myModal" tabindex="-1" aria-
labelledby="exampleModallabel" aria-hidden="true">
    <div class="modal-dialog">
        <div class="modal-content">
            <div class="modal-header">
                <h5 class="modal-title" id="exampleModallabel">Edit Data
Jurusan</h5>
                <button type="button" class="btn-close" data-bs-dismiss="modal"
aria-label="close">x</button>
            </div>
            <div class="modal-body" id="datakelas">

                </div>
            </div>
        </div>
    </div>
</div>
<script>
    $('.view_data').click(function() {
        var id_kelas = $(this).data('id');
        $.ajax({
            url: `<?php base_url() ?>kelas/editkelas/${id_kelas}`,
            method: 'get',
            success: function(data) {
                $('#datakelas').html(data);
                $('#myModal').modal('show');
            }
        });
    });
</script>

<!-- Modal dialog hapus data-->
<div class="modal fade" id="myModalDelete" tabindex="-1" aria-
labelledby="myModalDeleteLabel" aria-hidden="true">
    <div class="modal-dialog">
        <div class="modal-content">
            <div class="modal-header">
                <h5 class="modal-title" id="myModalDeleteLabel">Konfirmasi</h5>

```

```

        <button type="button" class="btn-close" data-bs-dismiss="modal"
aria-label="Close">X</button>
    </div>
    <div class="modal-body">
        Anda ingin menghapus data ini?
    </div>
    <div class="modal-footer">
        <button type="button" class="btn btn-secondary" data-bs-
dismiss="modal">Tutup</button>
        <button type="button" class="btn btn-danger"
id="btdelete">Lanjutkan</button>
    </div>
</div>
</div>
</div>
<script>
    $('#dataTable').on('click', '.item-delete', function() {
        var id = $(this).attr('data');
        $('#myModalDelete').modal('show');
        $('#btdelete').off('click').on('click', function() {
            $.ajax({
                url: `<? = base_url() ?>kelas/delete/${id}`,
                method: 'delete',
                success: function(response) {
                    $('#myModalDelete').modal('hide');
                    location.reload();
                },
                error: function(xhr, status, error) {
                    console.error('AJAX Error:', error);
                }
            });
        });
    });
</script>

```

2. view.php

```

<form action="/kelas/edit/<? = $getKelas['id_kelas'] ?>" method="POST">
    <input type="text" name="name" value="<? = $getKelas['nama_kelas'] ?>" class="form-control
mb-2" required autofocus>
    <div class="modal-footer">
        <button type="button" class="btn btn-secondary" data-bs-dismiss="modal">Close</button>
        <button type="submit" name="edit" class="btn btn-primary">Simpan</button>
    </div>
</form>

```

F. View/laporan

1. cetakLaporan.php

```
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Laporan Pembayaran</title>
    <style>
        body {
            font-family: arial;
        }

        table {
            border-collapse: collapse;
        }
    </style>
</head>

<body onload="window.print();">

    <h3 align="center"><b><br>LAPORAN PEMBAYARAN</b></h3>
    <br />
    <hr />
    TANGGAL <?= $awal ?> SAMPAI <?= $akhir ?>
    <br />
    <br>

    <table border="1" cellspacing="" cellpadding="4" width="100%">
        <tr>
            <th>NO</th>
            <th>TANGGAL</th>
            <th>NISN</th>
            <th>NAMA SISWA</th>
            <th>KELAS</th>
            <th>NO. Bayar</th>
            <th>PEMBAYARAN BULAN</th>
            <th>JUMLAH</th>
            <th>KETERANGAN</th>
        </tr>
    <?php
```

```

$no = 1;
$total = 0;
foreach ($dataLaporan as $laporan) :
?>
    <tr>
        <td align="center"><?= $no++ ?></td>
        <td align="center"><?= $laporan['tglbayar'] ?></td>
        <td align="center"><?= $laporan['nisn'] ?></td>
        <td align="center"><?= $laporan['nama'] ?></td>
        <td align="center"><?= $laporan['nama_kelas'] ?></td>
        <td align=""><?= $laporan['nobayar'] ?></td>
        <td align=""><?= $laporan['bulan'] ?></td>
        <td align="right"><?= $laporan['jumlah'] ?></td>
        <td align="center"><?= $laporan['ket'] ?></td>
    </tr>

<?php
    $total += $laporan['jumlah'];
endforeach;
?>
<tr>
    <td colspan="6" align="right">TOTAL</td>
    <td align="right"><b><?= $total ?></b></td>
    <td></td>
</tr>

</table>

<table width="100%">
    <tr>
        <td></td>
        <td>
            <br>
            <p>Adiwerna <?= date('d/m/Y') ?></p></td>
            <p>Operator,<br /><br /><br />
            <p>-----</p>
        </td>
    </tr>
</table>

</body>

</html>

```

2. laporan.php

```
<div class="card shadow mb-4">
  <div class="card-header py-3">
    <h6 class="m-0 font-weight-bold text-primary">Cetak Laporan</h6>
  </div>
  <div class="card-body">
    <form action="<?= base_url('cetaklaporan') ?>" method="post" target="_blank">
      <input type="date" name="awal" class="form-control mb-2">
      <input type="date" name="akhir" class="form-control mb-2">
      <button type="submit" name="cetak" class="btn btn-primary">Cetak</button>
    </form>
  </div>
</div>
</div>
</div>
```

G. View/pembayaran

1. cetakSemuaTransaksi.php

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Slip Pembayaran SPP</title>
  <style>
    body {
      font-family: arial;
    }
    table {
      border-collapse: collapse;
    }
  </style>
</head>
<body onload="window.print();">

  <h3 align="center"><b><br>LAPORAN PEMBAYARAN</b></h3>
  <br />
  <hr />
  <table>
    <tr>
      <td>Nama Siswa</td>
```



```

        <td>:</td>
        <td> <?= $dataSiswa['nama'] ?></td>
    </tr>
    <tr>
        <td>NISN</td>
        <td>:</td>
        <td> <?= $dataSiswa['nispn'] ?></td>
    </tr>
    <tr>
        <td>Kelas</td>
        <td>:</td>
        <td> <?= $dataSiswa['nama_kelas'] ?></td>
    </tr>
    <tr>
        <td>Angkatan</td>
        <td>:</td>
        <td> <?= $dataSiswa['nama_angkatan'] ?></td>
    </tr>
    <tr>
        <td>Jurusan</td>
        <td>:</td>
        <td> <?= $dataSiswa['nama_jurusan'] ?></td>
    </tr>
</table>
<table border="1" cellpadding="4" cellspacing="0" width="100%">
    <tr>
        <th>NO</th>
        <th>TANGGAL BAYAR</th>
        <th>NO. Bayar</th>
        <th>PEMBAYARAN BULAN</th>
        <th>JUMLAH</th>
        <th>KETERANGAN</th>
    </tr>
    <?php
    $no = 1;
    $total = 0;
    foreach ($dataPembayaran as $pembayaran) :
    ?>
        <tr>
            <td align="center"><?= $no++ ?></td>
            <td align="center"><?= $pembayaran['tglbayar'] ?></td>
            <td align=""><?= $pembayaran['nobayar'] ?></td>
            <td align=""><?= $pembayaran['bulan'] ?></td>
            <td align="right">Rp. <?= $pembayaran['jumlah'] ?></td>
            <td align="center"><?= $pembayaran['ket'] ?></td>
        </tr>
    </tr>
    </table>

```

```

        </tr>
    <?php
        $total += $pembayaran['jumlah'];
    endforeach; ?>
    <tr>
        <td colspan="3" align="right">TOTAL</td>
        <td align="right"><b>Rp. <?= $total ?></b></td>
        <td></td>
    </tr>

</table>

<table width="100%">
    <tr>
        <td></td>
        <td>
            <br>
            <p>Yogyakarta, <?= date('d/m/Y') ?></p></td>
            <br>
            Operator,
            <br /><br /><br />
            <p>-----</p>
        </td>
        <td></td>
    </tr>

</table>

</body>

</html>

```

2. cetakSlipTransaksi.php

```

<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Slip Pembayaran SPP</title>
    <style>
        body {
            font-family: arial;
        }
        table {

```

```

        border-collapse: collapse;
    }
</style>
</head>

<body onload="window.print();">

    <h3 align="center"><b><br>LAPORAN PEMBAYARAN</b></h3>
    <br />
    <hr />

    <table>
        <tr>
            <td>Nama Siswa</td>
            <td>:</td>
            <td> <?= $dataSiswa['nama'] ?></td>
        </tr>
        <tr>
            <td>NISN</td>
            <td>:</td>
            <td> <?= $dataSiswa['nispn'] ?></td>
        </tr>
        <tr>
            <td>Kelas</td>
            <td>:</td>
            <td> <?= $dataSiswa['nama_kelas'] ?></td>
        </tr>
        <tr>
            <td>Angkatan</td>
            <td>:</td>
            <td> <?= $dataSiswa['nama_angkatan'] ?></td>
        </tr>
        <tr>
            <td>Jurusan</td>
            <td>:</td>
            <td> <?= $dataSiswa['nama_jurusan'] ?></td>
        </tr>
    </table>
    <table border="1" cellspacing="" cellpadding="4" width="100%">
        <tr>
            <th>NO</th>
            <th>TANGGAL BAYAR</th>
            <th>NO. Bayar</th>
            <th>PEMBAYARAN BULAN</th>
            <th>JUMLAH</th>

```

```

        <th>KETERANGAN</th>
    </tr>
    <tr>
        <td align="center"><?= 1 ?></td>
        <td align="center"><?= $dataPembayaran['tglbayar'] ?></td>
        <td align=""><?= $dataPembayaran['nobayar'] ?></td>
        <td align=""><?= $dataPembayaran['bulan'] ?></td>
        <td align="right">Rp. <?= $dataPembayaran['jumlah'] ?></td>
        <td align="center"><?= $dataPembayaran['ket'] ?></td>
    </tr>

    <tr>
        <td colspan="4" align="right">TOTAL</td>
        <td align="right"><b>Rp. <?= $dataPembayaran['jumlah'] ?></b></td>
        <td></td>
    </tr>

</table>

<table width="100%">
    <tr>
        <td></td>
        <td>
            <br>
            <p>Adiwarna <?= date('d/m/Y') ?></p><br>
            Operator,
            <br /><br /><br />
            <p>-----</p>
        </td>
        <td></td>
    </tr>

</table>

</body>

</html>

```

3. dataKosong.php

```

<div class="card shadow mb-4">
    <div class="card-body">
        <h5>Data <?= $nisanSiswa ?> tidak tersedia</h5>
    </div>
</div>

```

4. dataPembayaran.php

```
<div class="card shadow">
  <div class="card-header">
    <table class="table mb-0" style="border-top: 0;" width="100%"
cellspacing="0">
      <tr>
        <td width="85%">
          <h6 class="m-0 font-weight-bold text-primary pt-2">Data
Pembayaran</h6>
        </td>
        <td>
          <a class='btn btn-success btn mb-0' href='<?=  
base_url() ?>cetaksemuatranskasi?nisn=<?= $dataSiswa['nisn'] ?>'  
target='_blank'>Cetak Semua</a>
        </td>
      </tr>
    </table>
  </div>
  <div class="card-body">
    <div class="table-responsive">
      <table class="table table-bordered" id="dataTable" width="100%"  
cellspacing="0">
        <thead>
          <tr>
            <td>NO</td>
            <th>Bulan</th>
            <th>Jatuh Tempo</th>
            <th>No Bayar</th>
            <th>Tanggal Bayar</th>
            <th>Jumlah</th>
            <th>Keterangan</th>
            <th>Aksi</th>
          </tr>
        </thead>
        <tbody>
          <?php
          $no = 1;
          foreach ($dataPembayaran as $pembayaran) :
            ?>
            <tr>
              <td><?= $no++ ?></td>
              <td><?= $pembayaran['bulan'] ?></td>
              <td><?= $pembayaran['jatuhtempo'] ?></td>
```

```
 <?= $pembayaran['nobayar'] ?></td>  <?= $pembayaran['tglbayar'] ?></td>  <?= $pembayaran['jumlah'] ?></td>  <?= $pembayaran['ket'] ?></td>  <?php if ($pembayaran['nobayar'] == '') { ?>             <a class="btn btn-primary btn-sm" href="<?= base_url() ?>prosestransaksi?nisn=<?= $dataSiswa['nisn'] ?>&id=<?= $pembayaran['id_pembayaran'] ?>">Bayar</a>             <?php } else {                 ?>                 <a class="btn btn-danger btn-sm mr-1" href='<?= base_url() ?>prosestransaksi?nisn=<?= $dataSiswa['nisn'] ?>&id=<?= $pembayaran['id_pembayaran'] ?>'>Batal</a>                 <a class="btn btn-success btn-sm" href='<?= base_url() ?>cetaksลิปtransaksi?nisn=<?= $dataSiswa['nisn'] ?>&id=<?= $pembayaran['id_pembayaran'] ?>' target='_blank'>Cetak</a>                 <?php } ?>             </td>         </tr>     </tbody> </table> </div> </div> </div> | | | | |
```

5. dataSiswa.php

```

<div class="card shadow mb-4">
    <div class="card-header py-3">
        <h6 class="m-0 font-weight-bold text-primary">Biodata Siswa</h6>
    </div>
    <div class="card-body">
        <div class="table-responsive">
            <table class="table table-bordered" id="dataTable" width="100%"
cellspacing="0">
                <tr>
                    <td>NISN</td>
                    <td><?= $dataSiswa['nisn'] ?></td>
                </tr>
                <tr>
                    <td>Nama Siswa</td>
                    <td><?= $dataSiswa['nama'] ?></td>
                </tr>
            </table>
        </div>
    </div>
</div>

```

```

        </tr>
        <tr>
            <td>Kelas</td>
            <td><?= $dataSiswa['nama_kelas'] ?></td>
        </tr>
        <tr>
            <td>Tahun Angkatan</td>
            <td><?= $dataSiswa['nama_angkatan'] ?></td>
        </tr>
    </table>
</div>
</div>
</div>

```

6. pembayaran.php

```

<div class="card shadow mb-4">
    <div class="card-body">
        <form action="" method="GET">
            <table class="table">
                <tr>
                    <td>NISN</td>
                    <td>:</td>
                    <td><input type="text" name="nisn" id="nisn_siswa"
placeholder="Masukan NISN Siswa" class="form-control <?=
(validation_show_error('nisn')) ? 'is-invalid' : ''; ?>" value="<?= ($nisnSiswa) ?
$nisnSiswa : set_value('nisn'); ?>">
                        <small class="text-danger">
                            <?= validation_show_error('nisn') ?>
                        </small>
                    </td>
                    <td><button type="submit" class="btn btn-
primary">Search</button></td>
                </tr>
            </table>

        </form>
    </div>
</div>
</div>
</div>

```

H. View/siswa

1. dataSiswa.php

```
<div class="card shadow mb-4">
  <div class="card-header py-3">
    <h6 class="m-0 font-weight-bold text-primary">Data Siswa</h6>
  </div>
  <div class="card-body">
    <div class="table-responsive">
      <table class="table table-bordered" id="dataTable" width="100%"
cellspacing="0">
        <thead>
          <tr>
            <th>NISN</th>
            <th>Nama</th>
            <th>Angkatan</th>
            <th>Jurusan</th>
            <th>Kelas</th>
            <th>Alamat</th>
          </tr>
        </thead>
        <tbody>
          <?php foreach ($dataSiswa as $row) : ?>
            <tr>
              <td><?= $row['nispn'] ?></td>
              <td><?= $row['nama'] ?></td>
              <td><?= $row['nama_angkatan'] ?></td>
              <td><?= $row['nama_jurusan'] ?></td>
              <td><?= $row['nama_kelas'] ?></td>
              <td><?= $row['alamat'] ?></td>
            </tr>
          <?php endforeach; ?>
        </tbody>
      </table>
    </div>
  </div>
</div>
```

2. siswa.php

```
<!-- button trigger -->
<button class="btn btn-primary mb-3" data-bs-toggle="modal" data-bs-
target="#exampleModal">Tambah Data</button>
```



```

<?php
if (session()->getFlashdata('message')) : ?>
    <div class="alert alert-success alert-dismissible fade show" role="alert">
        <?= session()->getFlashdata('message'); ?>
        <button type="button" class="close" data-dismiss="alert" aria-label="Close">
            <span aria-hidden="true">&times;
        </span>
        </button>
    </div>;
<?php endif;
?>

<!-- button trigger -->
<div class="card shadow mb-4">
    <div class="card-header py-3">
        <h6 class="m-0 font-weight-bold text-primary">Data Siswa</h6>
    </div>
    <div class="card-body">
        <div class="table-responsive">
            <table class="table table-bordered" id="dataTable" width="100%"
cellspacing="0">
                <thead>
                    <tr>
                        <th>NISN</th>
                        <th>Nama</th>
                        <th>Angkatan</th>
                        <th>Jurusan</th>
                        <th>Kelas</th>
                        <th>Alamat</th>
                        <th>Aksi</th>
                    </tr>
                </thead>
                <tbody>
                    <?php foreach ($dataSiswa as $row) : ?>
                        <tr>
                            <td><?= $row['nisn'] ?></td>
                            <td><?= $row['nama'] ?></td>
                            <td><?= $row['nama_angkatan'] ?></td>
                            <td><?= $row['nama_jurusan'] ?></td>
                            <td><?= $row['nama_kelas'] ?></td>
                            <td><?= $row['alamat'] ?></td>
                            <td>
                                <a href="javascript:void(0);" data="<?=
$row['id_siswa'] ?>" class="view_data btn btn-sm btn-danger item-delete">Delete</a>

```

```

                <a href="#" class="view_data btn btn-sm btn-warning"
data-bs-toggle="modal" data-bs-target="#myModal" data-id="<?=$row['id_siswa'] ?>">Edit</a>
            </td>
        </tr>
    <?php endforeach; ?>
</tbody>

</table>
</div>
</div>
</div>
<!-- Modal -->

<!-- create data siswa -->
<div class="modal fade" id="exampleModal" tabindex="-1" aria-
labelledby="exampleModallabel" aria-hidden="true">
    <div class="modal-dialog">
        <div class="modal-content">
            <div class="modal-header">
                <h5 class="modal-title" id="exampleModallabel">Data Siswa</h5>
                <button type="button" class="btn-close" data-bs-dismiss="modal"
aria-label="Close">x</button>
            </div>
            <div class="modal-body">
                <form action="<?=$base_url() ?>siswa/create" method="POST">
                    <input type="text" name="nisn" placeholder="nisn Siswa"
class="form-control mb-2 <?=(validation_show_error('nisn')) ? 'is-invalid' :
''; ?>" required value="<?=$set_value('nisn'); ?>">
                    <small class="text-danger invalid-feedback">
                        <?=$validation_show_error('nisn') ?>
                    </small>
                    <input type="text" name="name" placeholder="Nama Siswa"
class="form-control mb-2 <?=(validation_show_error('name')) ? 'is-invalid' :
''; ?>" value="<?=$set_value('name'); ?>">
                    <small class="text-danger invalid-feedback">
                        <?=$validation_show_error('name') ?>
                    </small>
                    <select name="angkatan" class="form-control mb-2 <?=(
validation_show_error('angkatan')) ? 'is-invalid' : ''; ?>">
                        <option selected="">-Pilih Angkatan-</option>
                        <?php foreach ($dataAngkatan as $Angkatan) : ?>
                            <option value="<?=$Angkatan['id_angkatan'] ?>"><?=$
Angkatan['nama_angkatan'] ?></option>

```

```

        <?php endforeach; ?>
    </select>
    <small class="text-danger invalid-feedback">
        <?= validation_show_error('angkatan') ?>
    </small>
    <select name="jurusan" class="form-control mb-2 <?=
(validation_show_error('jurusan')) ? 'is-invalid' : ''; ?>">
        <option selected="">-Pilih Jurusan-</option>
        <?php foreach ($dataJurusan as $Jurusan) : ?>
            <option value="<?= $Jurusan['id_jurusan'] ?>"><?=
$Jurusan['nama_jurusan'] ?></option>
        <?php endforeach; ?>
    </select>
    <small class="text-danger invalid-feedback">
        <?= validation_show_error('jurusan') ?>
    </small>
    <select name="kelas" class="form-control mb-2 <?=
(validation_show_error('kelas')) ? 'is-invalid' : ''; ?>">
        <option selected="">-Pilih Kelas-</option>
        <?php foreach ($dataKelas as $Kelas) : ?>
            <option value="<?= $Kelas['id_kelas'] ?>"><?=
$Kelas['nama_kelas'] ?></option>
        <?php endforeach; ?>
    </select>
    <small class="text-danger invalid-feedback">
        <?= validation_show_error('kelas') ?>
    </small>
    <textarea name="alamat" class="form-control mb-2 <?=
(validation_show_error('alamat')) ? 'is-invalid' : ''; ?>" placeholder="Alamat
Siswa"><?= set_value('alamat'); ?></textarea>
    <small class="text-danger invalid-feedback">
        <?= validation_show_error('alamat') ?>
    </small>

</div>
<div class="modal-footer">
    <button type="button" class="btn btn-secondary" data-bs-
dismiss="modal">Close</button>
    <button type="Submit" name="simpan" class="btn btn-
primary">Simpan</button>
</form>
</div>
</div>
</div>
</div>

```

```

<script>
    <?php if (session()->getFlashdata('showModal')) : ?>
        var showModal = "<?=" session()->getFlashdata('showModal') ?>";
        $('#'+ showModal).modal('show');
        $('#btn-closee').click(function() {
            $('#'+ showModal).modal('hide');
        });
    <?php endif; ?>
</script>

<!-- end create data siswa -->

<div class="modal fade" id="myModal" tabindex="-1" aria-
labelledby="exampleModallabel" aria-hidden="true">

    <div class="modal-dialog">
        <div class="modal-content">
            <div class="modal-header">
                <h5 class="modal-title" id="exampleModallabel">Edit Data Siswa</h5>
                <button type="button" class="btn-close" data-bs-dismiss="modal"
aria-label="close">x</button>
            </div>
            <div class="modal-body" id="datasiswa">

                </div>
            </div>
        </div>
    </div>
</div>

<script>
    $('.view_data').click(function() {
        var id_siswa = $(this).data('id');
        $.ajax({
            url: `<?=" base_url() ?>siswa/editsiswa/${id_siswa}`,
            method: 'get',
            success: function(data) {
                $('#datasiswa').html(data);
                $('#myModal').modal('show');
            }
        });
    });
</script>
<!-- Modal dialog hapus data-->

```

```

<div class="modal fade" id="myModalDelete" tabindex="-1" aria-
labelledby="myModalDeleteLabel" aria-hidden="true">
  <div class="modal-dialog">
    <div class="modal-content">
      <div class="modal-header">
        <h5 class="modal-title" id="myModalDeleteLabel">Konfirmasi</h5>
        <button type="button" class="btn-close" data-bs-dismiss="modal"
aria-label="Close">X</button>
      </div>
      <div class="modal-body">
        Anda ingin menghapus data ini?
      </div>
      <div class="modal-footer">
        <button type="button" class="btn btn-secondary" data-bs-
dismiss="modal">Tutup</button>
        <button type="button" class="btn btn-danger"
id="btdelete">Lanjutkan</button>
      </div>
    </div>
  </div>
</div>

<script>
  $('#dataTable').on('click', '.item-delete', function() {
    var id = $(this).attr('data');
    $('#myModalDelete').modal('show');
    $('#btdelete').off('click').on('click', function() {
      $.ajax({
        url: `<?php= base_url() ?>siswa/delete/${id}`,
        method: 'delete',
        success: function(response) {
          $('#myModalDelete').modal('hide');
          location.reload();
        },
        error: function(xhr, status, error) {
          console.error('AJAX Error:', error);
        }
      });
    });
  });
</script>

```

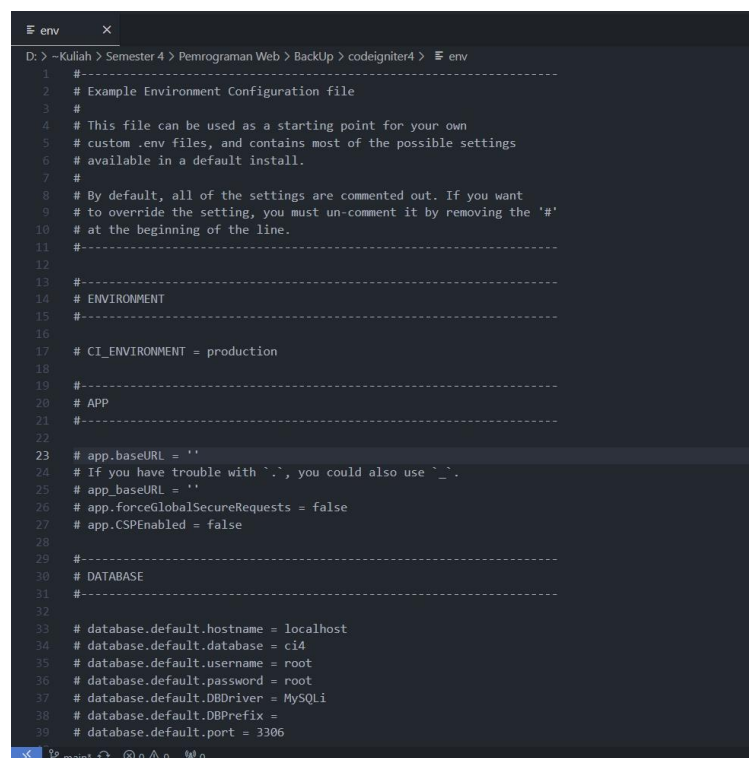
3. view.php

```
<form action="<?php= base_url() ?>siswa/edit/<?php= $getSiswa['id_siswa'] ?>" method="POST">
    <input type="text" name="nisn" placeholder="nisn Siswa" class="form-control mb-2" required
value="<?php= $getSiswa['nisn'] ?>">
    <input type="text" name="name" placeholder="Nama Siswa" class="form-control mb-2" required
value="<?php= $getSiswa['nama'] ?>">
    <select name="angkatan" class="form-control mb-2">
        <option selected="">-Pilih Angkatan-</option>
        <?php foreach ($getAngkatan as $Angkatan) :
            $selected = ($getSiswa['angkatan'] == $Angkatan['id_angkatan']) ? 'selected' : '';
            ?>
            <option value="<?php= $Angkatan['id_angkatan'] ?>" <?php= $selected ?>><?php=
$Angkatan['nama_angkatan'] ?></option>
        <?php endforeach; ?>
    </select>
    <select name="jurusan" class="form-control mb-2">
        <option selected="">-Pilih Jurusan-</option>
        <?php foreach ($getJurusan as $Jurusan) :
            $selected = ($getSiswa['jurusan'] == $Jurusan['id_jurusan']) ? 'selected' : '';
            ?>
            <option value="<?php= $Jurusan['id_jurusan'] ?>" <?php= $selected ?>><?php=
$Jurusan['nama_jurusan'] ?></option>
        <?php endforeach; ?>
    </select>
    <select name="kelas" class="form-control mb-2">
        <option selected="">-Pilih Kelas-</option>
        <?php foreach ($getKelas as $Kelas) :
            $selected = ($getSiswa['kelas'] == $Kelas['id_kelas']) ? 'selected' : '';
            ?>
            <option value="<?php= $Kelas['id_kelas'] ?>" <?php= $selected ?>><?php=
$Kelas['nama_kelas'] ?></option>
        <?php endforeach; ?>
    </select>
    <textarea name="alamat" class="form-control mb-2" placeholder="Alamat Siswa"><?php=
$getSiswa['alamat'] ?></textarea>

</div>
<div class="modal-footer">
    <button type="button" class="btn btn-secondary" data-bs-dismiss="modal">Close</button>
    <button type="Submit" name="simpan" class="btn btn-primary">Simpan</button>
</div>
</form>
```

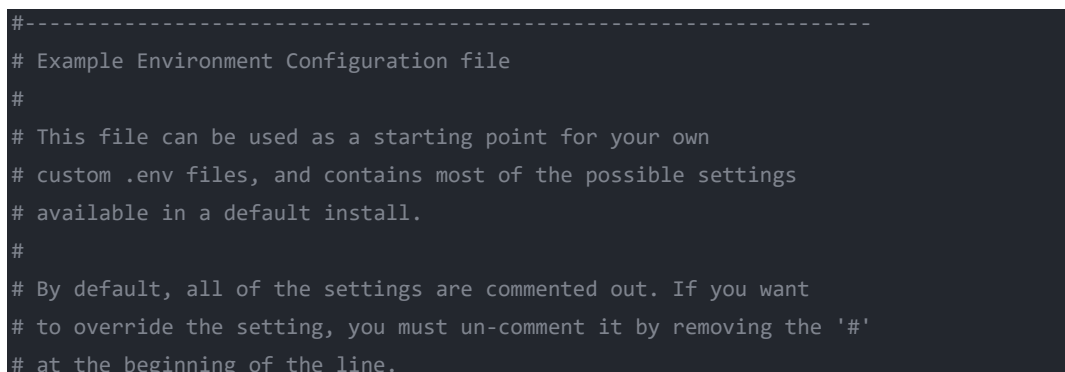
Jika semua sudah dibuat, maka langkah selanjutnya mengatur environment. File **.env** adalah file konfigurasi yang akan memudahkan kita dalam pengaturan saat melakukan development, testing, ataupun production menggunakan file environment. Cara mengatur file env sebagai berikut.

1. Cari file bernama **env** di dalam folder **aplikasi_ci** atau jika baru saja menginstal ada di folder default.
2. Ubah nama atau boleh di duplikat dulu file env tersebut kemudian di ubah nama menjadi **.env**
3. Selanjutnya buka file **.env** menggunakan text editor, kami disini menggunakan Visual Studio Code nanti tampilan awalnya seperti gambar berikut.



```
env
D:\> -Kuliah > Semester 4 > Pemrograman Web > BackUp > codeigniter4 > env
1 #-----
2 # Example Environment Configuration file
3 #
4 # This file can be used as a starting point for your own
5 # custom .env files, and contains most of the possible settings
6 # available in a default install.
7 #
8 # By default, all of the settings are commented out. If you want
9 # to override the setting, you must un-comment it by removing the '#'
10 # at the beginning of the line.
11 #-----
12
13 #-----
14 # ENVIRONMENT
15 #-----
16
17 # CI_ENVIRONMENT = production
18
19 #-----
20 # APP
21 #-----
22
23 # app.baseURL = ''
24 # If you have trouble with `.` , you could also use ` _ ` .
25 # app.baseURL = ''
26 # app.forceGlobalSecureRequests = false
27 # app.CSPEnabled = false
28
29 #-----
30 # DATABASE
31 #-----
32
33 # database.default.hostname = localhost
34 # database.default.database = ci4
35 # database.default.username = root
36 # database.default.password = root
37 # database.default.DBDriver = MySQLi
38 # database.default.DBPrefix =
39 # database.default.port = 3306
```

4. Ubah kode menjadi seperti dibawah ini



```
#-----
# Example Environment Configuration file
#
# This file can be used as a starting point for your own
# custom .env files, and contains most of the possible settings
# available in a default install.
#
# By default, all of the settings are commented out. If you want
# to override the setting, you must un-comment it by removing the '#'
# at the beginning of the line.
```

```

#-----
#-----
# ENVIRONMENT
#-----
CI_ENVIRONMENT = production
#-----
# APP
#-----
app.baseURL = 'http://localhost/aplikasi_ci/public/'

# If you have trouble with `.` , you could also use `_.`
# app_baseURL = ''
# app.forceGlobalSecureRequests = false
# app.CSPEnabled = false
#-----
# DATABASE
#-----
database.default.hostname = localhost
database.default.database = spp
database.default.username = root
database.default.password =
database.default.DBDriver = MySQLi
database.default.DBPrefix =
database.default.port = 3306

# If you use MySQLi as tests, first update the values of Config\Database::$tests.
# database.tests.hostname = localhost
# database.tests.database = ci4_test
# database.tests.username = root
# database.tests.password = root
# database.tests.DBDriver = MySQLi
# database.tests.DBPrefix =
# database.tests.charset = utf8mb4
# database.tests.DBCollat = utf8mb4_general_ci
# database.tests.port = 3306
#-----
# ENCRYPTION
#-----
# encryption.key =
#-----
# SESSION
#-----
# session.driver = 'CodeIgniter\Session\Handlers\FileHandler'
# session.savePath = null
#-----

```



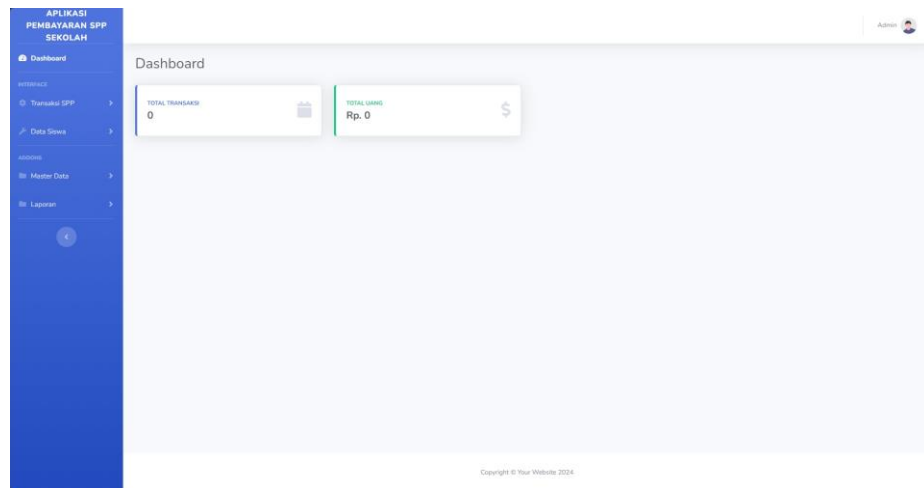
```
# LOGGER
#-----
# logger.threshold = 4
```

5. Jika sudah maka aplikasi siap dijalankan di browser, dengan cara mengetikan `http://localhost/aplikasi_ci/public/`

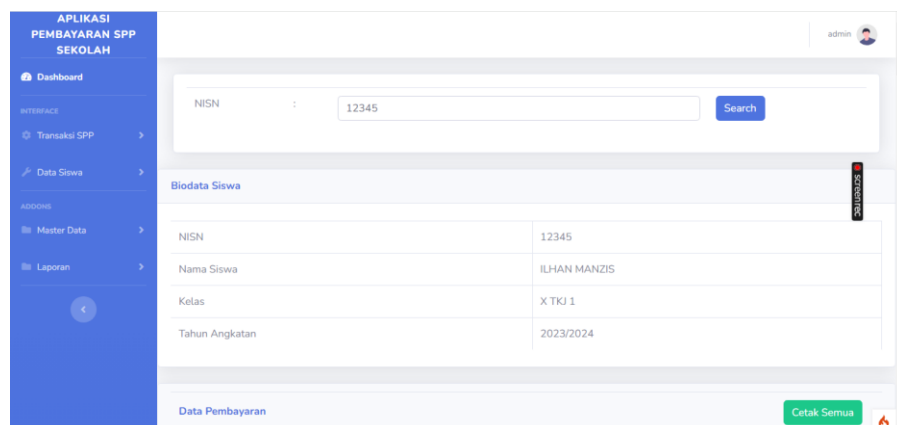
Note: Jangan lupa mengaktifkan Apache dan MySQL di XAMPP

Tampilan setelah dijalankan:

1. Tampilan dashboard



2. Tampilan Transaksi SPP/Bayar SPP Siswa



Data Pembayaran							
Cetak Semua							
NO	Butan	Jatuh Tempo	No Bayar	Tanggal Bayar	Jumlah	Keterangan	Aksi
1	Juni 2024	2024-06-24	250620241417421742	2024-06-25	50000	LUNAS	Batal Cetak
2	Juni 2024	2024-06-25			10000		Bayar
3	Juli 2024	2024-07-24			50000		Bayar
4	Juli 2024	2024-07-25			10000		Bayar
5	Agustus 2024	2024-08-24			50000		Bayar
6	Agustus 2024	2024-08-25			10000		Bayar
7	September 2024	2024-09-24			50000		Bayar
8	September 2024	2024-09-25			10000		Bayar

3. Tampilan Master Data/Data Siswa

APLIKASI
PEMBAYARAN SPP
SEKOLAH

Dashboard

Transaksi SPP

Data Siswa

Master Data

Data Siswa

Data Kelas

Data Jurusan

Data Angkatan

Laporan

Tambah Data

Data Siswa

Show 10 entries

NISN	Nama	Angkatan	Jurusan	Kelas	Alamat	Aksi
No data available in table						

Showing 0 to 0 of 0 entries

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4. Tampilan Master Data/Data Kelas

APLIKASI
PEMBAYARAN SPP
SEKOLAH

Dashboard

Transaksi SPP

Data Siswa

Master Data

- Data Siswa
- Data Kelas
- Data Jurusan
- Data Angkutan

Laporan

Admin

Tambah Data

Data Kelas

Showing 10 entries

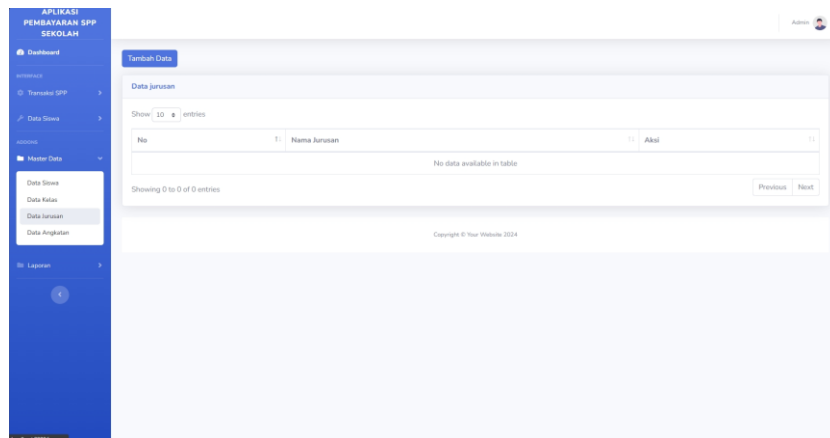
No	Nama Kelas	Aksi
No data available in table		

Showing 0 to 0 of 0 entries

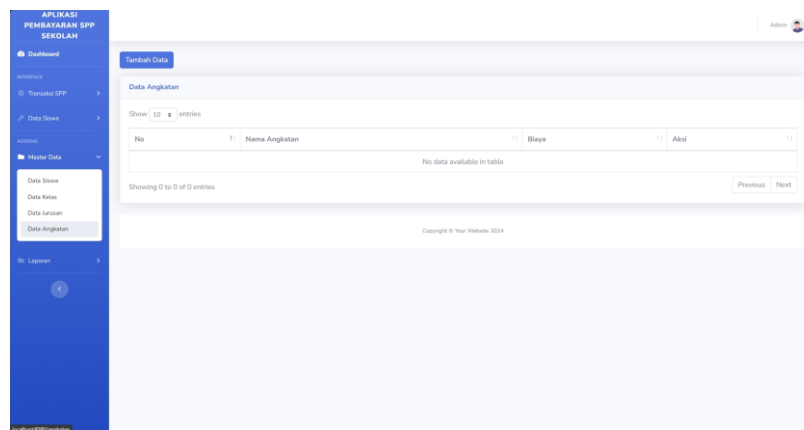
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5. Tampilan Master Data/Data Jurusan



6. Tampilan Master Data/Data Angkatan



7. Tampilan Cetak Laporan/Cetak Laporan

