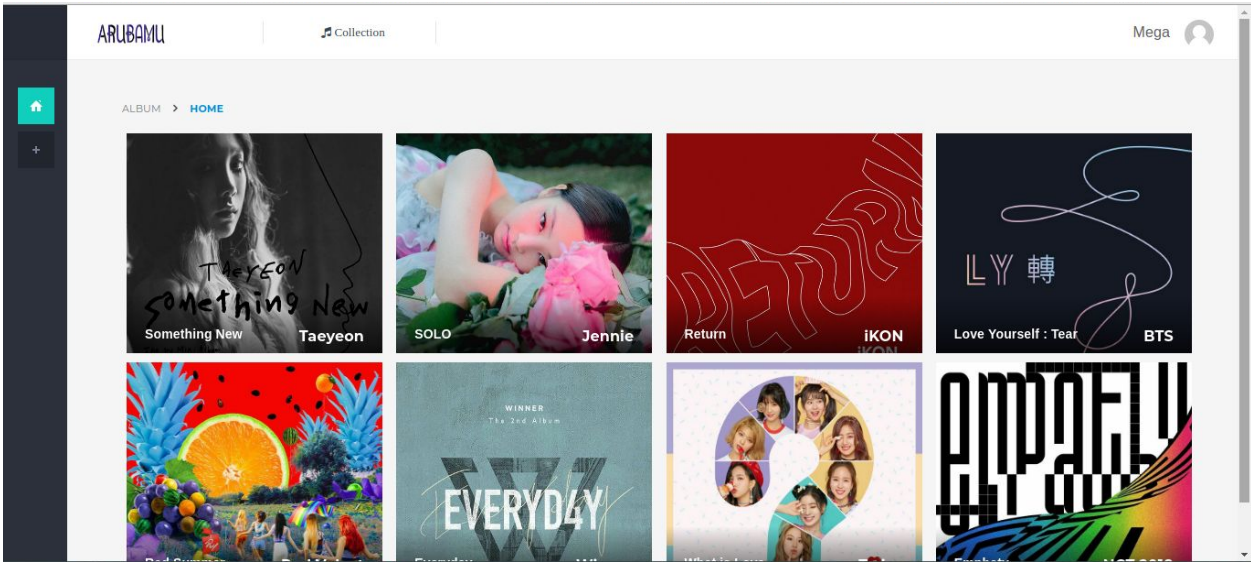
SMK Negeri 10

Jl. Mayjen Sutoyo
Jakarta Timur

Tutorial CRUD

ALBUM



By Mega Tri Handayani

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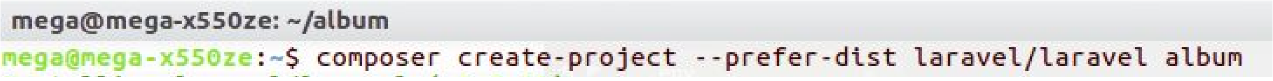
Software yang perlu disiapkan :

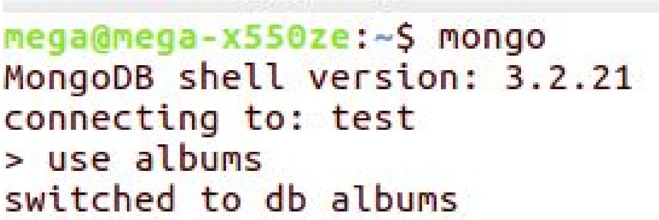
- MongoDB
- Sublime text
- Google Chrome
- Terminal

Membuat Laravel



```
mega@mega-x550ze: ~/album
mega@mega-x550ze:~$ composer create-project --prefer-dist laravel/laravel album
```

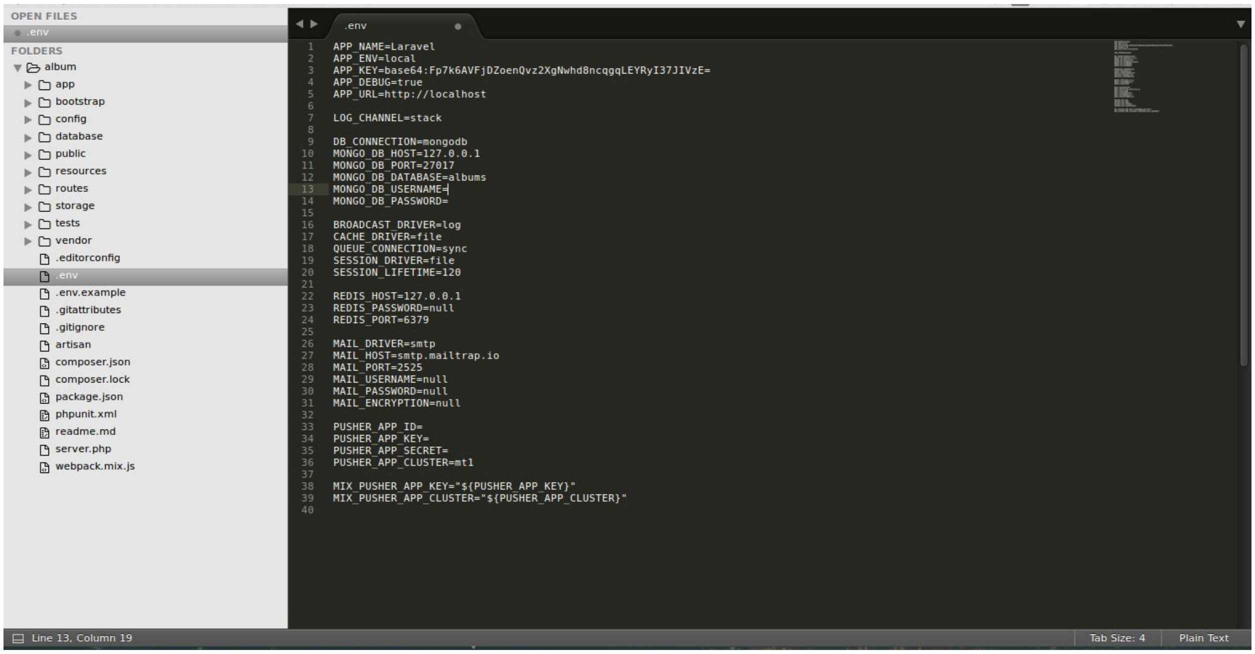
Membuat Database di MongoDB



```
mega@mega-x550ze:~$ mongo
MongoDB shell version: 3.2.21
connecting to: test
> use albums
switched to db albums
```

Konfigurasi .env

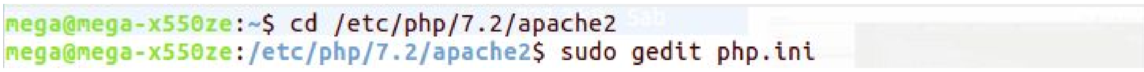
Buka file .env



```
APP_NAME=Laravel
APP_ENV=local
APP_KEY=base64:Fp7k6AVFjDZoenQvz2XgNwhd8ncqgqLEYRyI37JIVzE=
APP_DEBUG=true
APP_URL=http://localhost

LOG_CHANNEL=stack

DB_CONNECTION=mongodb
MONGO_DB_HOST=127.0.0.1
MONGO_DB_PORT=27017
MONGO_DB_DATABASE=albums
MONGO_DB_USERNAME=
MONGO_DB_PASSWORD=

BROADCAST_DRIVER=log
CACHE_DRIVER=file
QUEUE_CONNECTION=sync
SESSION_DRIVER=file
SESSION_LIFETIME=120

REDIS_HOST=127.0.0.1
REDIS_PASSWORD=null
REDIS_PORT=6379

MAIL_DRIVER=smtp
MAIL_HOST=smtp.mailtrap.io
MAIL_PORT=2525
MAIL_USERNAME=null
MAIL_PASSWORD=null
MAIL_ENCRYPTION=null

PUSHER_APP_ID=
PUSHER_APP_KEY=
PUSHER_APP_SECRET=
PUSHER_APP_CLUSTER=mt1

MIX_PUSHER_APP_KEY="${PUSHER_APP_KEY}"
MIX_PUSHER_APP_CLUSTER="${PUSHER_APP_CLUSTER}"
```

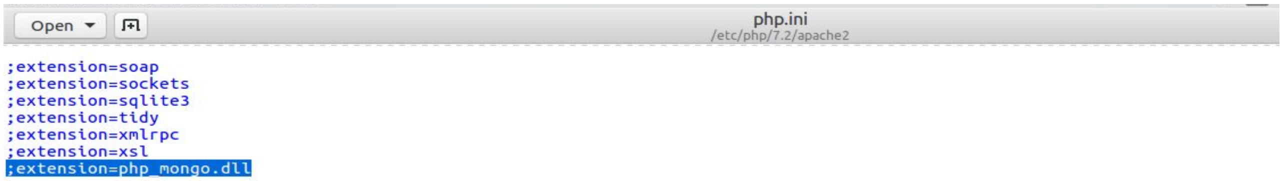
Konek Laravel dengan MongoDB

1. Buka terminal dan ketikkan command



```
mega@mega-x550ze:~$ cd /etc/php/7.2/apache2
mega@mega-x550ze:/etc/php/7.2/apache2$ sudo gedit php.ini
```

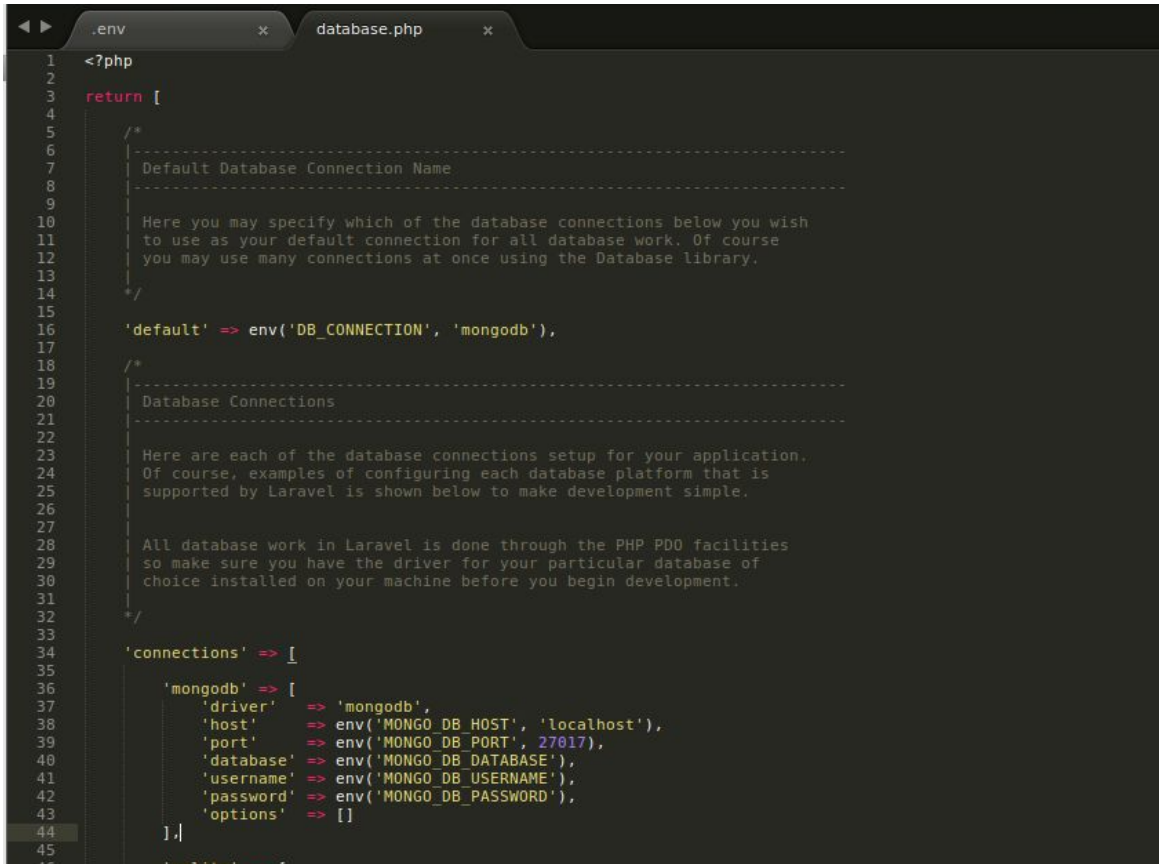
2. Tambahkan extension di php.ini



```
;extension=soap
;extension=sockets
;extension=sqlite3
;extension=tidy
;extension=xmlrpc
;extension=xsl
;extension=php_mongo.dll
```

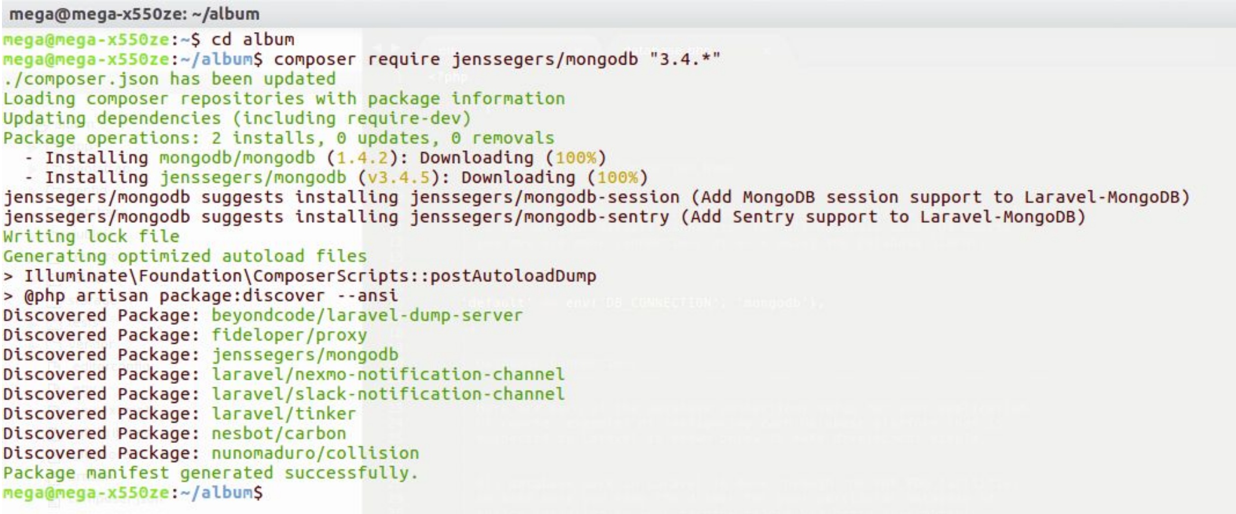
Kemudian save.

3. Buka file config => database.php



```
<?php

return [

    /*
    |--------------------------------------------------------------------------
    | Default Database Connection Name
    |--------------------------------------------------------------------------
    |
    | Here you may specify which of the database connections below you wish
    | to use as your default connection for all database work. Of course
    | you may use many connections at once using the Database library.
    |
    */

    'default' => env('DB_CONNECTION', 'mongodb'),

    /*
    |--------------------------------------------------------------------------
    | Database Connections
    |--------------------------------------------------------------------------
    |
    | Here are each of the database connections setup for your application.
    | Of course, examples of configuring each database platform that is
    | supported by Laravel is shown below to make development simple.
    |
    |
    | All database work in Laravel is done through the PHP PDO facilities
    | so make sure you have the driver for your particular database of
    | choice installed on your machine before you begin development.
    |
    */

    'connections' => [

        'mongodb' => [
            'driver'   => 'mongodb',
            'host'     => env('MONGO_DB_HOST', 'localhost'),
            'port'     => env('MONGO_DB_PORT', 27017),
            'database' => env('MONGO_DB_DATABASE'),
            'username' => env('MONGO_DB_USERNAME'),
            'password' => env('MONGO_DB_PASSWORD'),
            'options'  => []
        ],

```

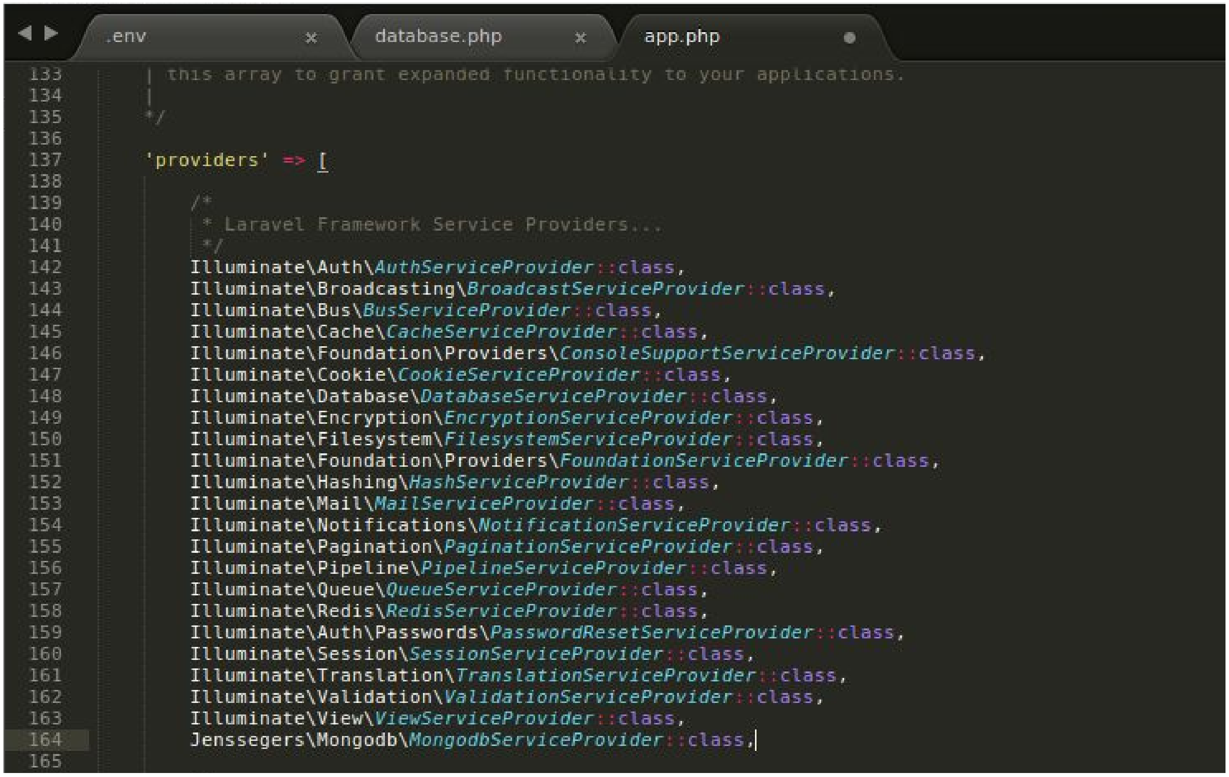
Install Laravel MongoDB Package



```
mega@mega-x550ze:~$ cd album
mega@mega-x550ze:~/album$ composer require jenssegers/mongodb "3.4.*"
./composer.json has been updated
Loading composer repositories with package information
Updating dependencies (including require-dev)
Package operations: 2 installs, 0 updates, 0 removals
  - Installing mongodb/mongodb (1.4.2): Downloading (100%)
  - Installing jenssegers/mongodb (v3.4.5): Downloading (100%)
jenssegers/mongodb suggests installing jenssegers/mongodb-session (Add MongoDB session support to Laravel-MongoDB)
jenssegers/mongodb suggests installing jenssegers/mongodb-sentry (Add Sentry support to Laravel-MongoDB)
Writing lock file
Generating optimized autoload files
> Illuminate\Foundation\ComposerScripts::postAutoloadDump
> @php artisan package:discover --ansi
Discovered Package: beyondcode/laravel-dump-server
Discovered Package: fideloper/proxy
Discovered Package: jenssegers/mongodb
Discovered Package: laravel/nexmo-notification-channel
Discovered Package: laravel/slack-notification-channel
Discovered Package: laravel/tinker
Discovered Package: nesbot/carbon
Discovered Package: nunomaduro/collision
Package manifest generated successfully.
mega@mega-x550ze:~/album$
```

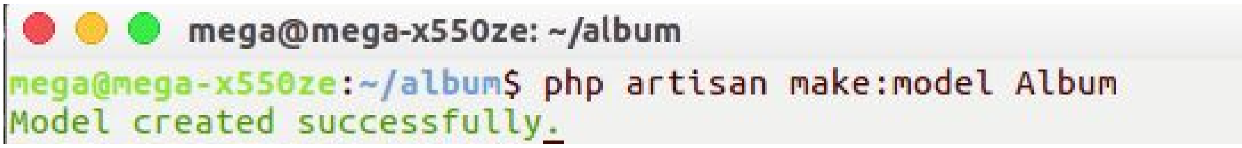
Define Providers

Buka file config => app.php



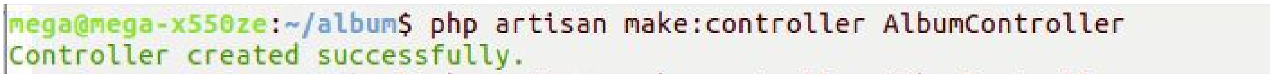
```
    | this array to grant expanded functionality to your applications.
    |
    */

    'providers' => [

        /*
         * Laravel Framework Service Providers...
         */
        Illuminate\Auth\AuthServiceProvider::class,
        Illuminate\Broadcasting\BroadcastServiceProvider::class,
        Illuminate\Bus\BusServiceProvider::class,
        Illuminate\Cache\CacheServiceProvider::class,
        Illuminate\Foundation\Providers\ConsoleSupportServiceProvider::class,
        Illuminate\Cookie\CookieServiceProvider::class,
        Illuminate\Database\DatabaseServiceProvider::class,
        Illuminate\Encryption\EncryptionServiceProvider::class,
        Illuminate\Filesystem\FilesystemServiceProvider::class,
        Illuminate\Foundation\Providers\FoundationServiceProvider::class,
        Illuminate\Hashing\HashServiceProvider::class,
        Illuminate\Mail\MailServiceProvider::class,
        Illuminate\Notifications\NotificationServiceProvider::class,
        Illuminate\Pagination\PaginationServiceProvider::class,
        Illuminate\Pipeline\PipelineServiceProvider::class,
        Illuminate\Queue\QueueServiceProvider::class,
        Illuminate\Redis\RedisServiceProvider::class,
        Illuminate\Auth\Passwords\PasswordResetServiceProvider::class,
        Illuminate\Session\SessionServiceProvider::class,
        Illuminate\Translation\TranslationServiceProvider::class,
        Illuminate\Validation\ValidationServiceProvider::class,
        Illuminate\View\ViewServiceProvider::class,
        Jenssegers\Mongodb\MongodbServiceProvider::class,

```

Membuat Model

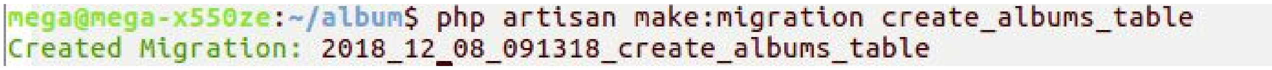


```
mega@mega-x550ze:~/album$ php artisan make:model Album
Model created successfully.
```

Membuat Controller dan Migration



```
mega@mega-x550ze:~/album$ php artisan make:controller AlbumController
Controller created successfully.
```



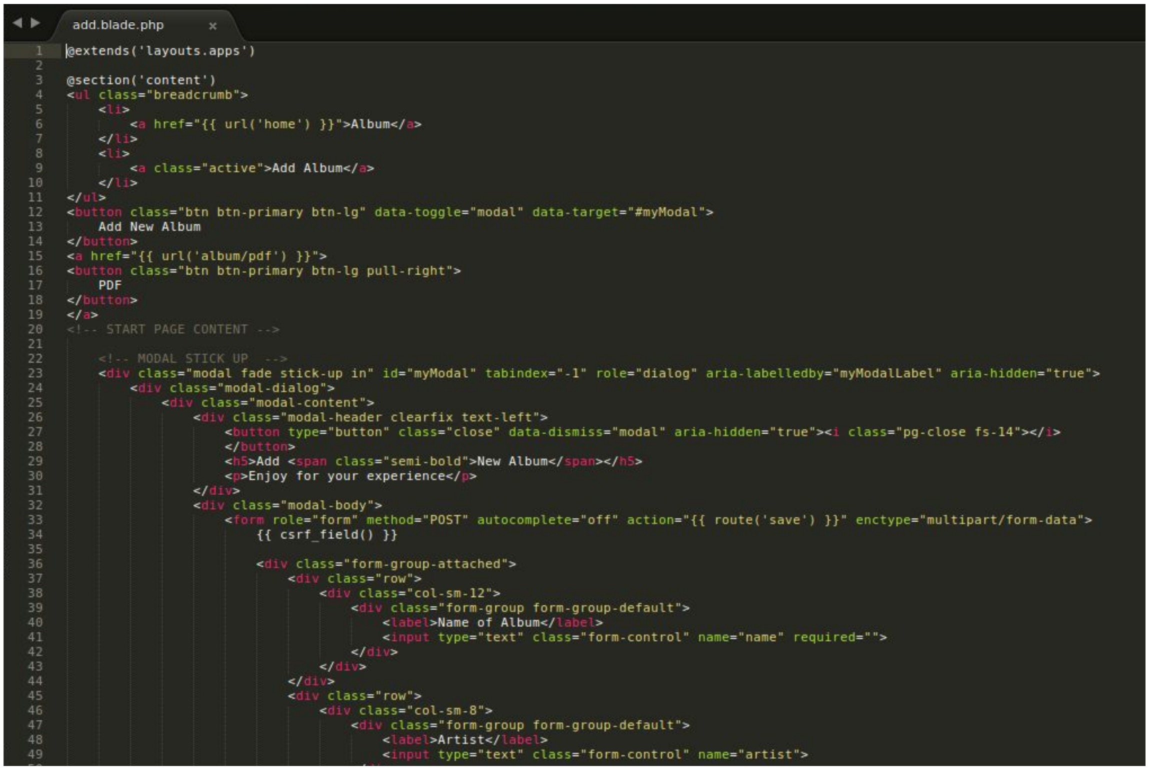
```
mega@mega-x550ze:~/album$ php artisan make:migration create_albums_table
Created Migration: 2018_12_08_091318_create_albums_table
```

Jika ingin membuat controller dan migration bersamaan, bisa diketik seperti ini

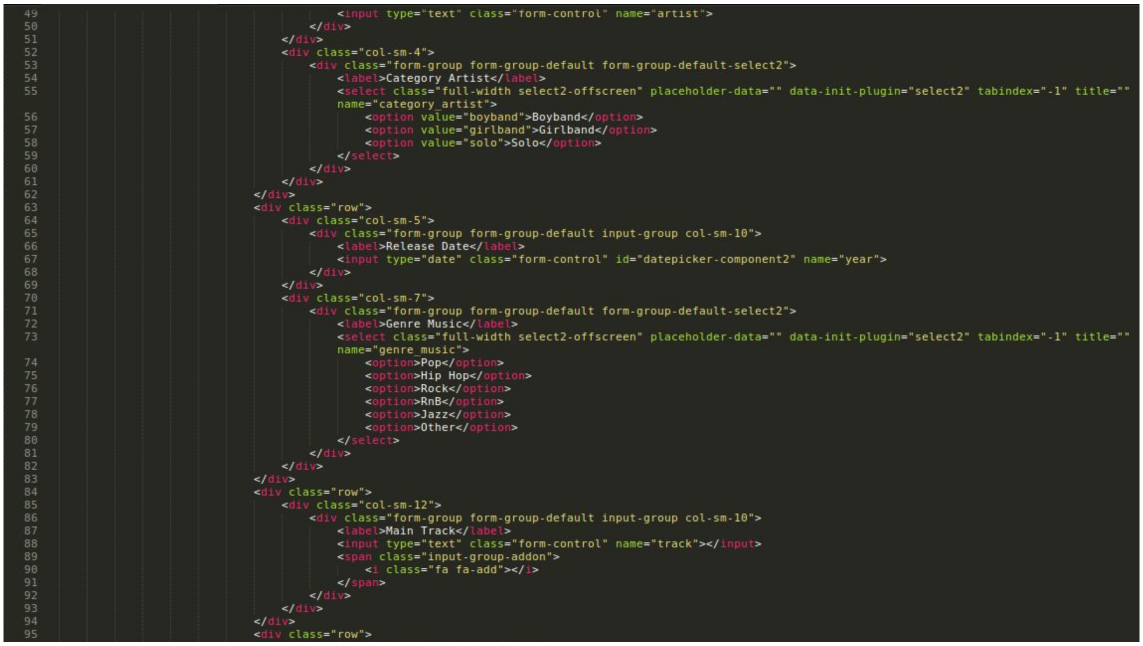
php artisan make:controller AlbumController -m

Membuat CREATE & READ

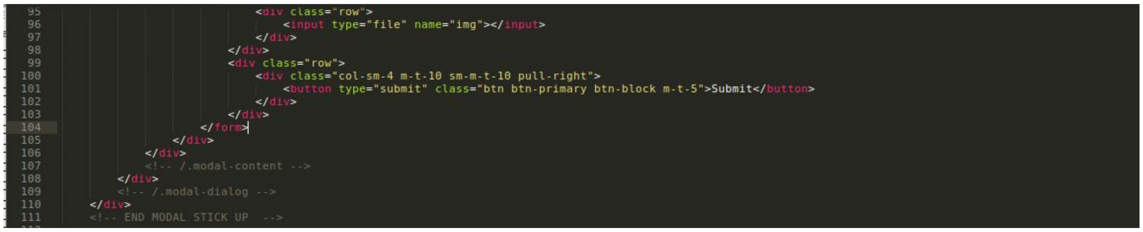
1. Buat folder **album** di **resources => views** dan didalamnya buat file **add.blade.php** (Tampilan untuk create)



```
@extends('layouts.apps')

@section('content')
<ul class="breadcrumb">
    <li>
        <a href="{{ url('home') }}">Album</a>
    </li>
    <li>
        <a class="active">Add Album</a>
    </li>
</ul>
<button class="btn btn-primary btn-lg" data-toggle="modal" data-target="#myModal">
    Add New Album
</button>
<a href="{{ url('album/pdf') }}">
<button class="btn btn-primary btn-lg pull-right">
    PDF
</button>
</a>
<!-- START PAGE CONTENT -->

    <!-- MODAL STICK UP  -->
    <div class="modal fade stick-up in" id="myModal" tabindex="-1" role="dialog" aria-labelledby="myModalLabel" aria-hidden="true">
        <div class="modal-dialog">
            <div class="modal-content">
                <div class="modal-header clearfix text-left">
                    <button type="button" class="close" data-dismiss="modal" aria-hidden="true"><i class="pg-close fs-14"></i>
                    </button>
                    <h5>Add <span class="semi-bold">New Album</span></h5>
                    <p>Enjoy for your experience</p>
                </div>
                <div class="modal-body">
                    <form role="form" method="POST" autocomplete="off" action="{{ route('save') }}" enctype="multipart/form-data">
                        {{ csrf_field() }}

                        <div class="form-group-attached">
                            <div class="row">
                                <div class="col-sm-12">
                                    <div class="form-group form-group-default">
                                        <label>Name of Album</label>
                                        <input type="text" class="form-control" name="name" required="">
                                    </div>
                                </div>
                            </div>
                            <div class="row">
                                <div class="col-sm-8">
                                    <div class="form-group form-group-default">
                                        <label>Artist</label>
                                        <input type="text" class="form-control" name="artist">
```

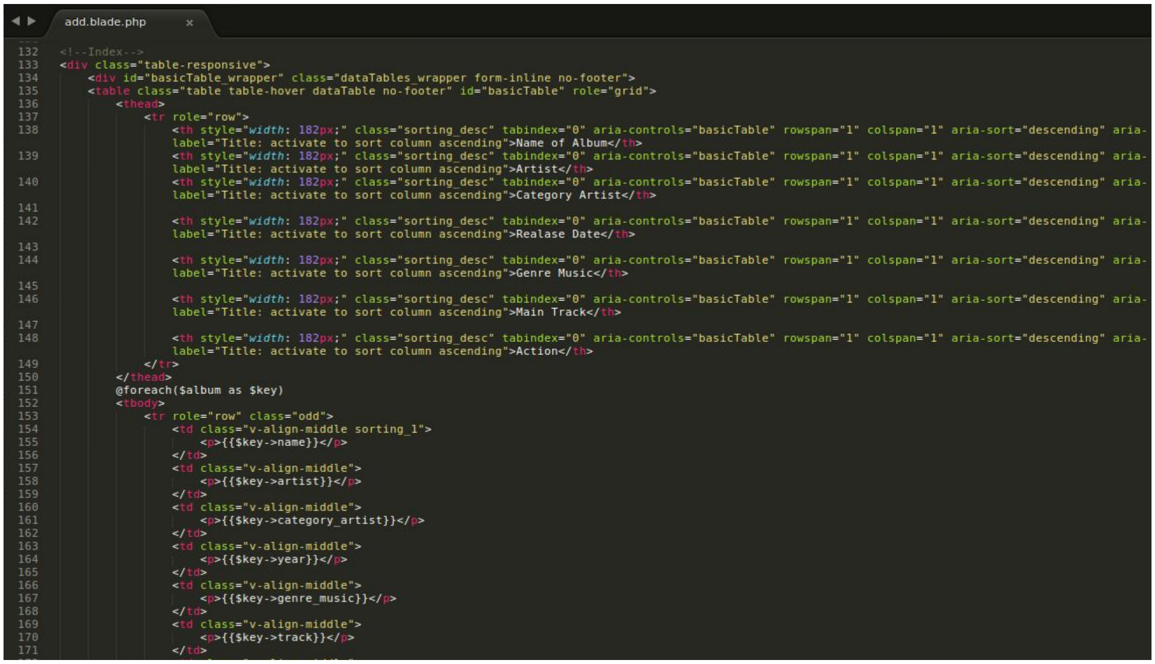


```
                                        <input type="text" class="form-control" name="artist">
                                    </div>
                                </div>
                                <div class="col-sm-4">
                                    <div class="form-group form-group-default form-group-default-select2">
                                        <label>Category Artist</label>
                                        <select class="full-width select2-offscreen" placeholder-data="" data-init-plugin="select2" tabindex="-1" title="" name="category_artist">
                                            <option value="boyband">Boyband</option>
                                            <option value="girlband">Girlband</option>
                                            <option value="solo">Solo</option>
                                        </select>
                                    </div>
                                </div>
                            </div>
                            <div class="row">
                                <div class="col-sm-5">
                                    <div class="form-group form-group-default input-group col-sm-10">
                                        <label>Release Date</label>
                                        <input type="date" class="form-control" id="datepicker-component2" name="year">
                                    </div>
                                </div>
                                <div class="col-sm-7">
                                    <div class="form-group form-group-default form-group-default-select2">
                                        <label>Genre Music</label>
                                        <select class="full-width select2-offscreen" placeholder-data="" data-init-plugin="select2" tabindex="-1" title="" name="genre_music">
                                            <option>Pop</option>
                                            <option>Hip Hop</option>
                                            <option>Rock</option>
                                            <option>RnB</option>
                                            <option>Jazz</option>
                                            <option>Other</option>
                                        </select>
                                    </div>
                                </div>
                            </div>
                            <div class="row">
                                <div class="col-sm-12">
                                    <div class="form-group form-group-default input-group col-sm-10">
                                        <label>Main Track</label>
                                        <input type="text" class="form-control" name="track"></input>
                                        <span class="input-group-addon">
                                            <i class="fa fa-add"></i>
                                        </span>
                                    </div>
                                </div>
                            </div>
                            <div class="row">
```

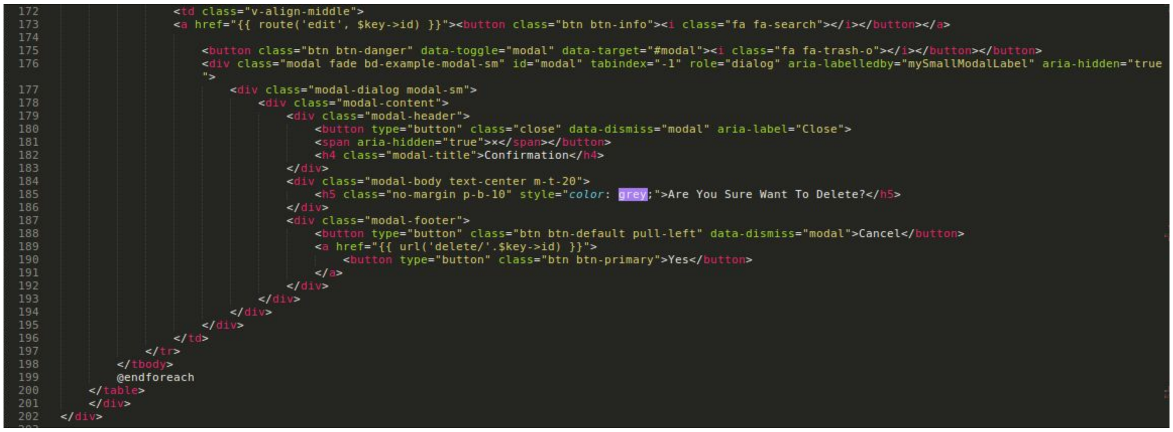


```
                            <div class="row">
                                <input type="file" name="img"></input>
                            </div>
                        </div>
                        <div class="row">
                            <div class="col-sm-4 m-t-10 sm-m-t-10 pull-right">
                                <button type="submit" class="btn btn-primary btn-block m-t-5">Submit</button>
                            </div>
                        </div>
                    </form>
                </div>
            </div>
            <!-- /.modal-content -->
        </div>
        <!-- /.modal-dialog -->
    </div>
    <!-- END MODAL STICK UP  -->
```

(Tampilan untuk Read)

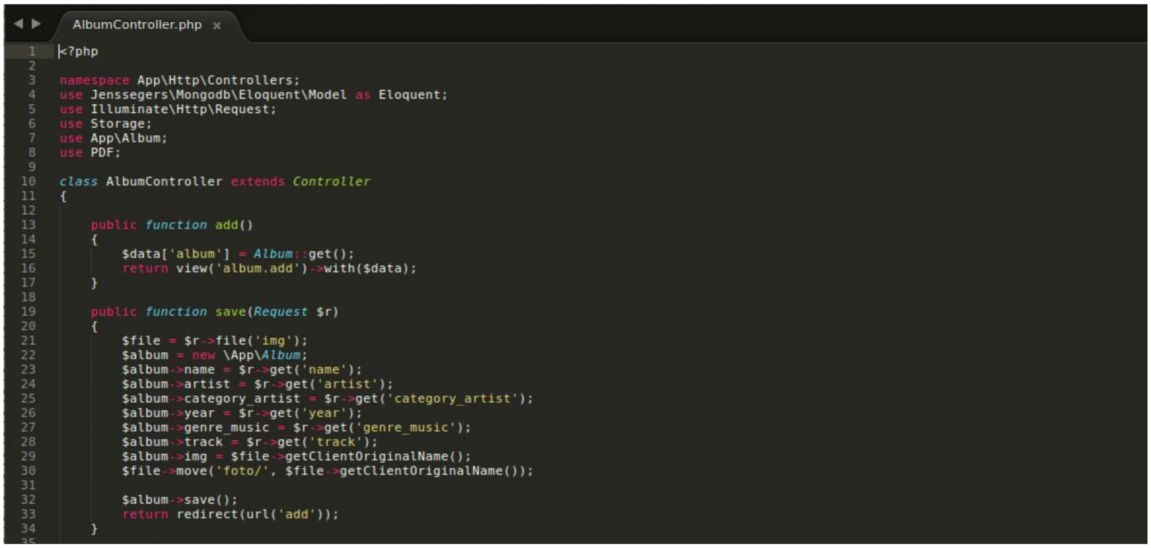


```
<!--Index-->
<div class="table-responsive">
    <div id="basicTable_wrapper" class="dataTables_wrapper form-inline no-footer">
    <table class="table table-hover dataTable no-footer" id="basicTable" role="grid">
        <thead>
            <tr role="row">
                <th style="width: 182px;" class="sorting_desc" tabindex="0" aria-controls="basicTable" rowspan="1" colspan="1" aria-sort="descending" aria-label="Title: activate to sort column ascending">Name of Album</th>
                <th style="width: 182px;" class="sorting_desc" tabindex="0" aria-controls="basicTable" rowspan="1" colspan="1" aria-sort="descending" aria-label="Title: activate to sort column ascending">Artist</th>
                <th style="width: 182px;" class="sorting_desc" tabindex="0" aria-controls="basicTable" rowspan="1" colspan="1" aria-sort="descending" aria-label="Title: activate to sort column ascending">Category Artist</th>

                <th style="width: 182px;" class="sorting_desc" tabindex="0" aria-controls="basicTable" rowspan="1" colspan="1" aria-sort="descending" aria-label="Title: activate to sort column ascending">Realase Date</th>

                <th style="width: 182px;" class="sorting_desc" tabindex="0" aria-controls="basicTable" rowspan="1" colspan="1" aria-sort="descending" aria-label="Title: activate to sort column ascending">Genre Music</th>

                <th style="width: 182px;" class="sorting_desc" tabindex="0" aria-controls="basicTable" rowspan="1" colspan="1" aria-sort="descending" aria-label="Title: activate to sort column ascending">Main Track</th>

                <th style="width: 182px;" class="sorting_desc" tabindex="0" aria-controls="basicTable" rowspan="1" colspan="1" aria-sort="descending" aria-label="Title: activate to sort column ascending">Action</th>
            </tr>
        </thead>
        @foreach($album as $key)
        <tbody>
            <tr role="row" class="odd">
                <td class="v-align-middle sorting_1">
                    <p>{{$key->name}}</p>
                </td>
                <td class="v-align-middle">
                    <p>{{$key->artist}}</p>
                </td>
                <td class="v-align-middle">
                    <p>{{$key->category_artist}}</p>
                </td>
                <td class="v-align-middle">
                    <p>{{$key->year}}</p>
                </td>
                <td class="v-align-middle">
                    <p>{{$key->genre_music}}</p>
                </td>
                <td class="v-align-middle">
                    <p>{{$key->track}}</p>
                </td>
```



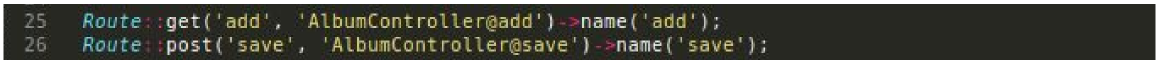
```
                <td class="v-align-middle">
                <a href="{{ route('edit', $key->id) }}"><button class="btn btn-info"><i class="fa fa-search"></i></button></a>

                    <button class="btn btn-danger" data-toggle="modal" data-target="#modal"><i class="fa fa-trash-o"></i></button></button>
                    <div class="modal fade bd-example-modal-sm" id="modal" tabindex="-1" role="dialog" aria-labelledby="mySmallModalLabel" aria-hidden="true
                    ">
                        <div class="modal-dialog modal-sm">
                            <div class="modal-content">
                                <div class="modal-header">
                                    <button type="button" class="close" data-dismiss="modal" aria-label="Close">
                                    <span aria-hidden="true">×</span></button>
                                    <h4 class="modal-title">Confirmation</h4>
                                </div>
                                <div class="modal-body text-center m-t-20">
                                    <h5 class="no-margin p-b-10" style="color: grey;">Are You Sure Want To Delete?</h5>
                                </div>
                                <div class="modal-footer">
                                    <button type="button" class="btn btn-default pull-left" data-dismiss="modal">Cancel</button>
                                    <a href="{{ url('delete/'.$key->id) }}">
                                        <button type="button" class="btn btn-primary">Yes</button>
                                    </a>
                                </div>
                            </div>
                        </div>
                    </div>
                </td>
            </tr>
        </tbody>
        @endforeach
    </table>
    </div>
</div>
```

2. Buka **AlbumController.php**



```php
<?php

namespace App\Http\Controllers;
use Jenssegers\Mongodb\Eloquent\Model as Eloquent;
use Illuminate\Http\Request;
use Storage;
use App\Album;
use PDF;

class AlbumController extends Controller
{

    public function add()
    {
        $data['album'] = Album::get();
        return view('album.add')->with($data);
    }

    public function save(Request $r)
    {
        $file = $r->file('img');
        $album = new \App\Album;
        $album->name = $r->get('name');
        $album->artist = $r->get('artist');
        $album->category_artist = $r->get('category_artist');
        $album->year = $r->get('year');
        $album->genre_music = $r->get('genre_music');
        $album->track = $r->get('track');
        $album->img = $file->getClientOriginalName();
        $file->move('foto/', $file->getClientOriginalName());

        $album->save();
        return redirect(url('add'));
    }
```

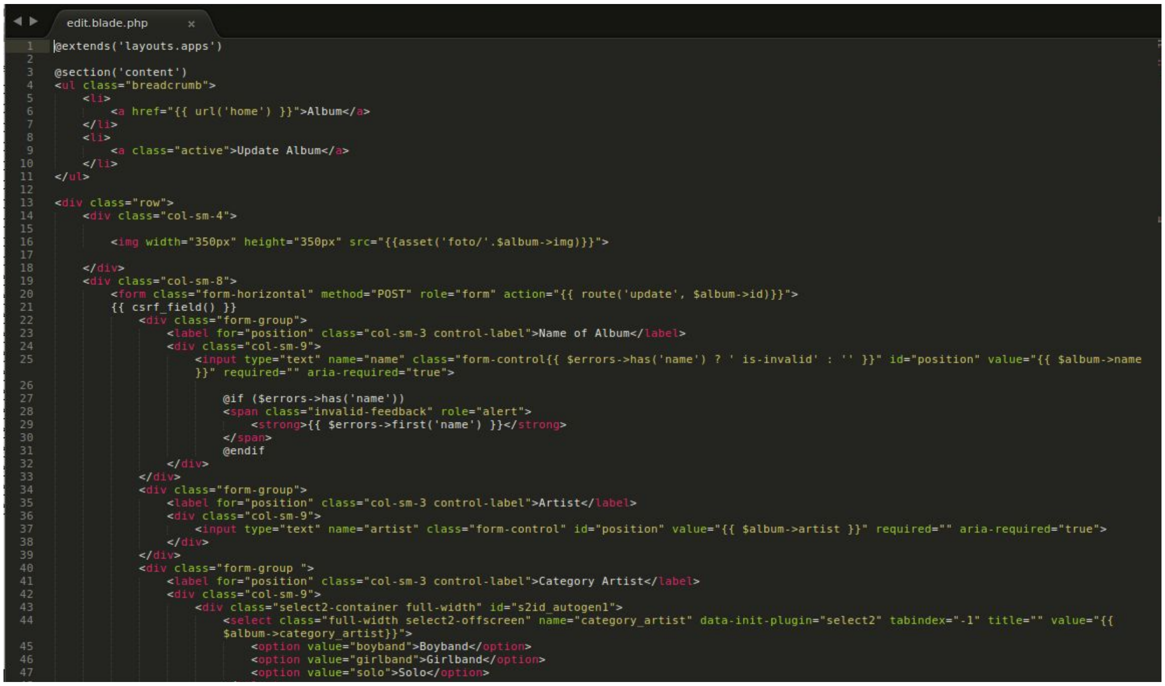
3. Buka **route => web.php**



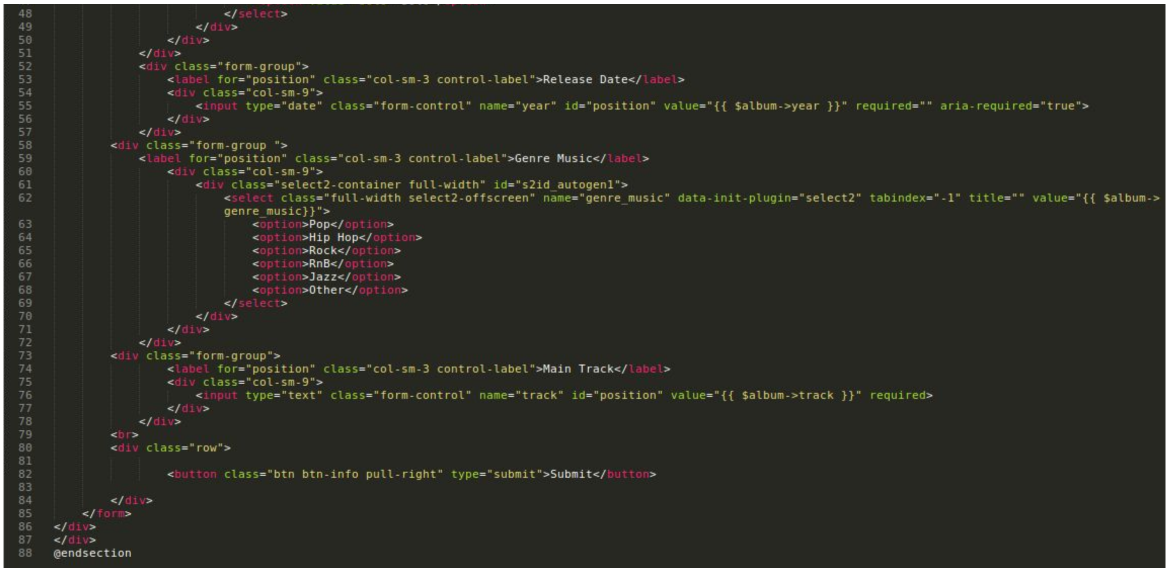
```php
Route::get('add', 'AlbumController@add')->name('add');
Route::post('save', 'AlbumController@save')->name('save');
```

Membuat UPDATE (edit)

1. Buat file di folder **Album** dengan nama **edit.blade.php**

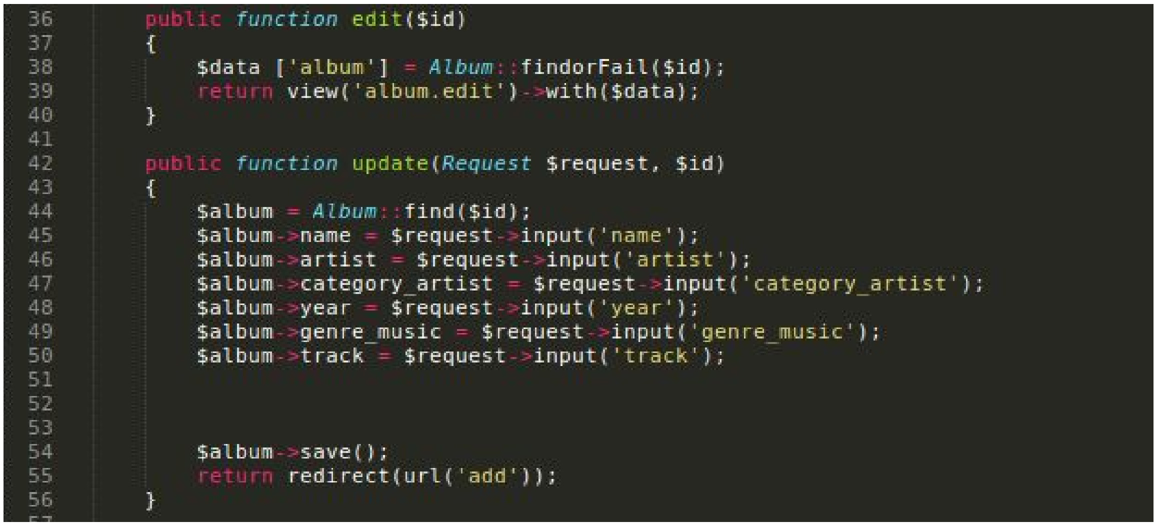


```
@extends('layouts.apps')

@section('content')
<ul class="breadcrumb">
    <li>
        <a href="{{ url('home') }}">Album</a>
    </li>
    <li>
        <a class="active">Update Album</a>
    </li>
</ul>

<div class="row">
    <div class="col-sm-4">

        <img width="350px" height="350px" src="{{asset('foto/'.$album->img)}}">

    </div>
    <div class="col-sm-8">
        <form class="form-horizontal" method="POST" role="form" action="{{ route('update', $album->id)}}">
        {{ csrf_field() }}
            <div class="form-group">
                <label for="position" class="col-sm-3 control-label">Name of Album</label>
                <div class="col-sm-9">
                    <input type="text" name="name" class="form-control{{ $errors->has('name') ? ' is-invalid' : '' }}" id="position" value="{{ $album->name }}" required="" aria-required="true">

                        @if ($errors->has('name'))
                        <span class="invalid-feedback" role="alert">
                            <strong>{{ $errors->first('name') }}</strong>
                        </span>
                        @endif
                </div>
            </div>
            <div class="form-group">
                <label for="position" class="col-sm-3 control-label">Artist</label>
                <div class="col-sm-9">
                    <input type="text" name="artist" class="form-control" id="position" value="{{ $album->artist }}" required="" aria-required="true">
                </div>
            </div>
            <div class="form-group ">
                <label for="position" class="col-sm-3 control-label">Category Artist</label>
                <div class="col-sm-9">
                    <div class="select2-container full-width" id="s2id_autogen1">
                        <select class="full-width select2-offscreen" name="category_artist" data-init-plugin="select2" tabindex="-1" title="" value="{{ $album->category_artist}}">
                            <option value="boyband">Boyband</option>
                            <option value="girlband">Girlband</option>
                            <option value="solo">Solo</option>
```



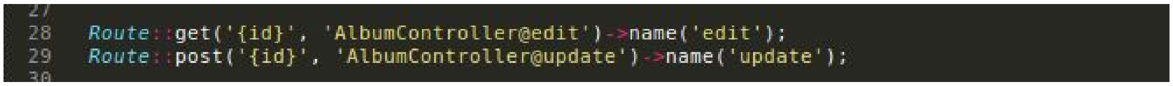
```
                        </select>
                    </div>
                </div>
            </div>
            <div class="form-group">
                <label for="position" class="col-sm-3 control-label">Release Date</label>
                <div class="col-sm-9">
                    <input type="date" class="form-control" name="year" id="position" value="{{ $album->year }}" required="" aria-required="true">
                </div>
            </div>
        <div class="form-group ">
            <label for="position" class="col-sm-3 control-label">Genre Music</label>
                <div class="col-sm-9">
                    <div class="select2-container full-width" id="s2id_autogen1">
                        <select class="full-width select2-offscreen" name="genre_music" data-init-plugin="select2" tabindex="-1" title="" value="{{ $album->genre_music}}">
                            <option>Pop</option>
                            <option>Hip Hop</option>
                            <option>Rock</option>
                            <option>RnB</option>
                            <option>Jazz</option>
                            <option>Other</option>
                        </select>
                    </div>
                </div>
            </div>
        <div class="form-group">
                <label for="position" class="col-sm-3 control-label">Main Track</label>
                <div class="col-sm-9">
                    <input type="text" class="form-control" name="track" id="position" value="{{ $album->track }}" required>
                </div>
            </div>
        <br>
        <div class="row">

                <button class="btn btn-info pull-right" type="submit">Submit</button>

        </div>
    </form>
</div>
</div>
@endsection
```

2. Buka **AlbumController**



```php
    public function edit($id)
    {
        $data ['album'] = Album::findorFail($id);
        return view('album.edit')->with($data);
    }

    public function update(Request $request, $id)
    {
        $album = Album::find($id);
        $album->name = $request->input('name');
        $album->artist = $request->input('artist');
        $album->category_artist = $request->input('category_artist');
        $album->year = $request->input('year');
        $album->genre_music = $request->input('genre_music');
        $album->track = $request->input('track');



        $album->save();
        return redirect(url('add'));
    }
```

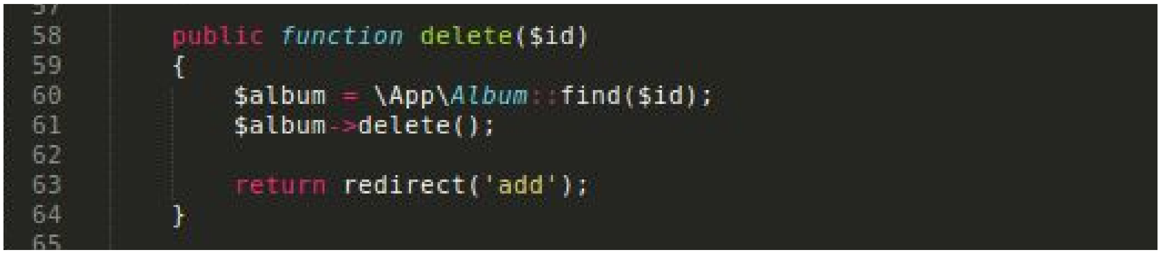
3. Buka web.php



```php
Route::get('{id}', 'AlbumController@edit')->name('edit');
Route::post('{id}', 'AlbumController@update')->name('update');
```

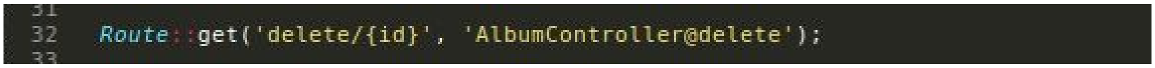
Membuat DELETE

1. Buka AlbumController



```php
    public function delete($id)
    {
        $album = \App\Album::find($id);
        $album->delete();

        return redirect('add');
    }
```

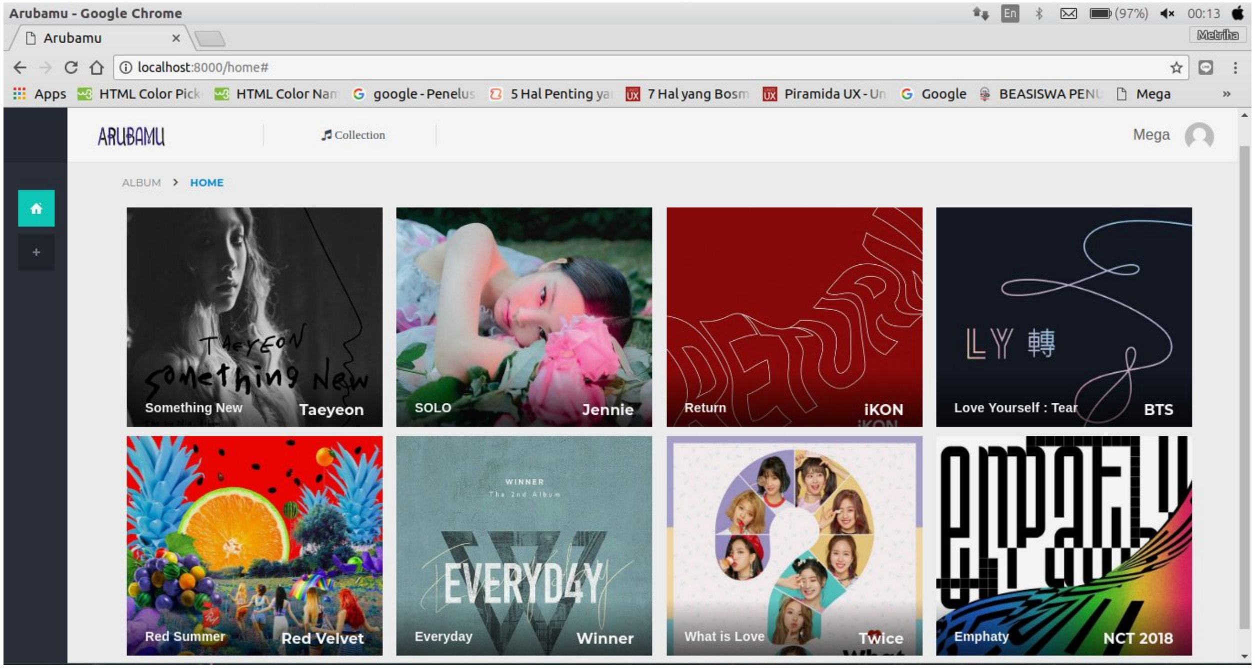
2. Buka web.php



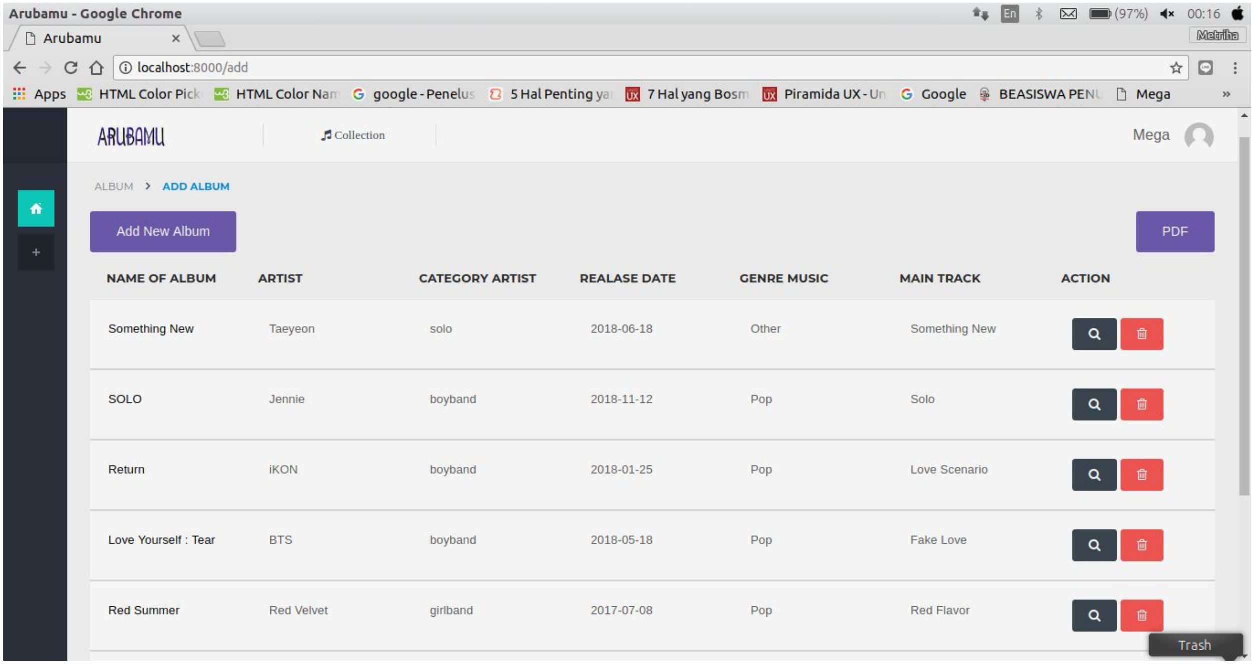
```php
 Route::get('delete/{id}', 'AlbumController@delete');
```

Application

Home

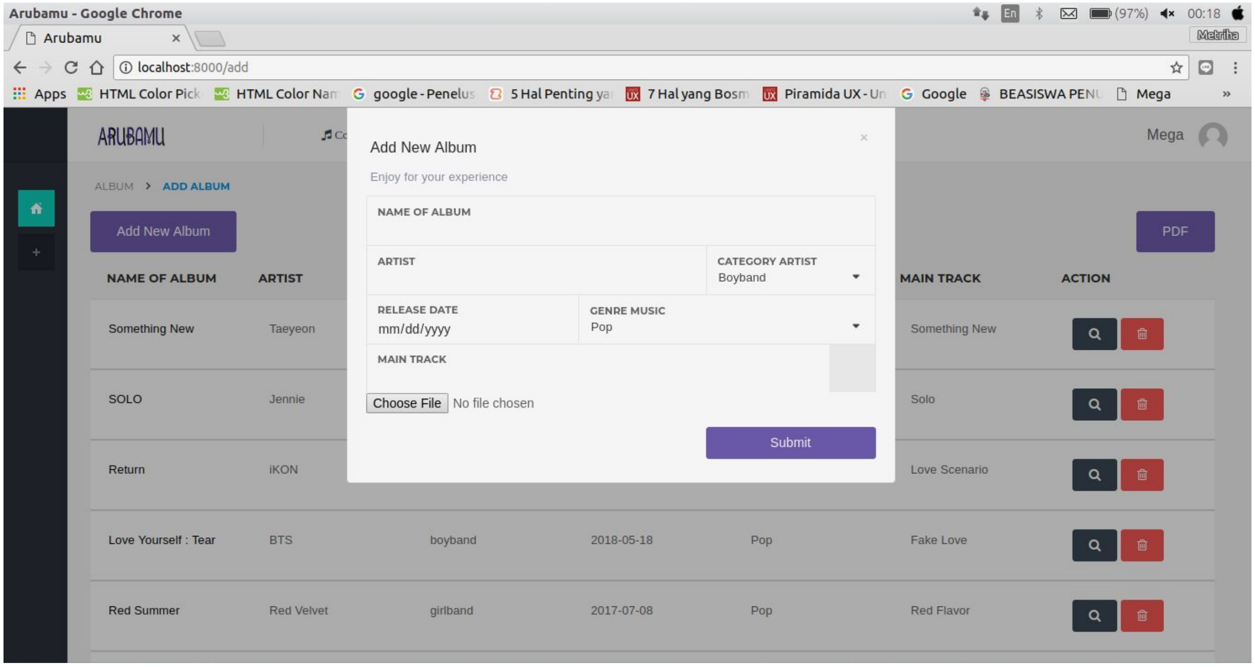


Index (READ)



NAME OF ALBUM	ARTIST	CATEGORY ARTIST	REALASE DATE	GENRE MUSIC	MAIN TRACK	ACTION
Something New	Taeyeon	solo	2018-06-18	Other	Something New	
SOLO	Jennie	boyband	2018-11-12	Pop	Solo	
Return	iKON	boyband	2018-01-25	Pop	Love Scenario	
Love Yourself : Tear	BTS	boyband	2018-05-18	Pop	Fake Love	
Red Summer	Red Velvet	girlband	2017-07-08	Pop	Red Flavor	

CREATE



Arubamu - Google Chrome

localhost:8000/add

ARUBAMU

Mega

ALBUM > ADD ALBUM

Add New Album

PDF

Add New Album

Enjoy for your experience

NAME OF ALBUM

ARTIST

CATEGORY ARTIST: Boyband

RELEASE DATE: mm/dd/yyyy

GENRE MUSIC: Pop

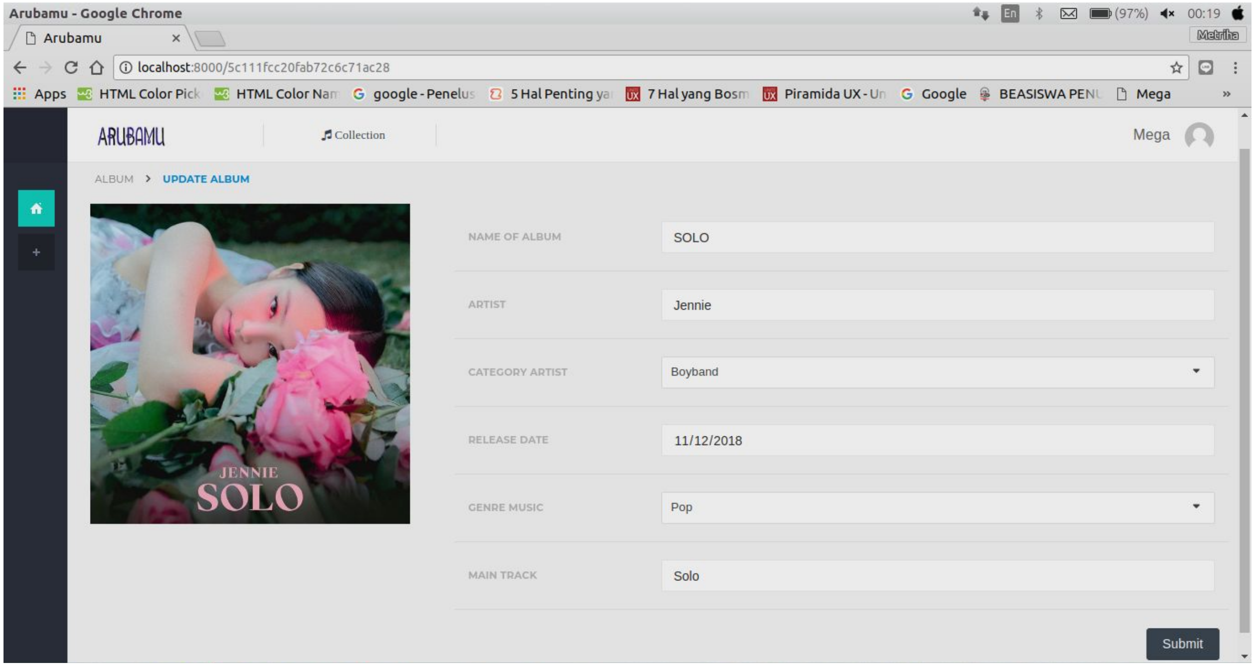
MAIN TRACK

Choose File No file chosen

Submit

NAME OF ALBUM	ARTIST				MAIN TRACK	ACTION
Something New	Taeyeon				Something New	
SOLO	Jennie				Solo	
Return	iKON				Love Scenario	
Love Yourself : Tear	BTS	boyband	2018-05-18	Pop	Fake Love	
Red Summer	Red Velvet	girlband	2017-07-08	Pop	Red Flavor	

Edit (UPDATE)



Arubamu - Google Chrome

localhost:8000/5c111fcc20fab72c6c71ac28

ARUBAMU

Collection

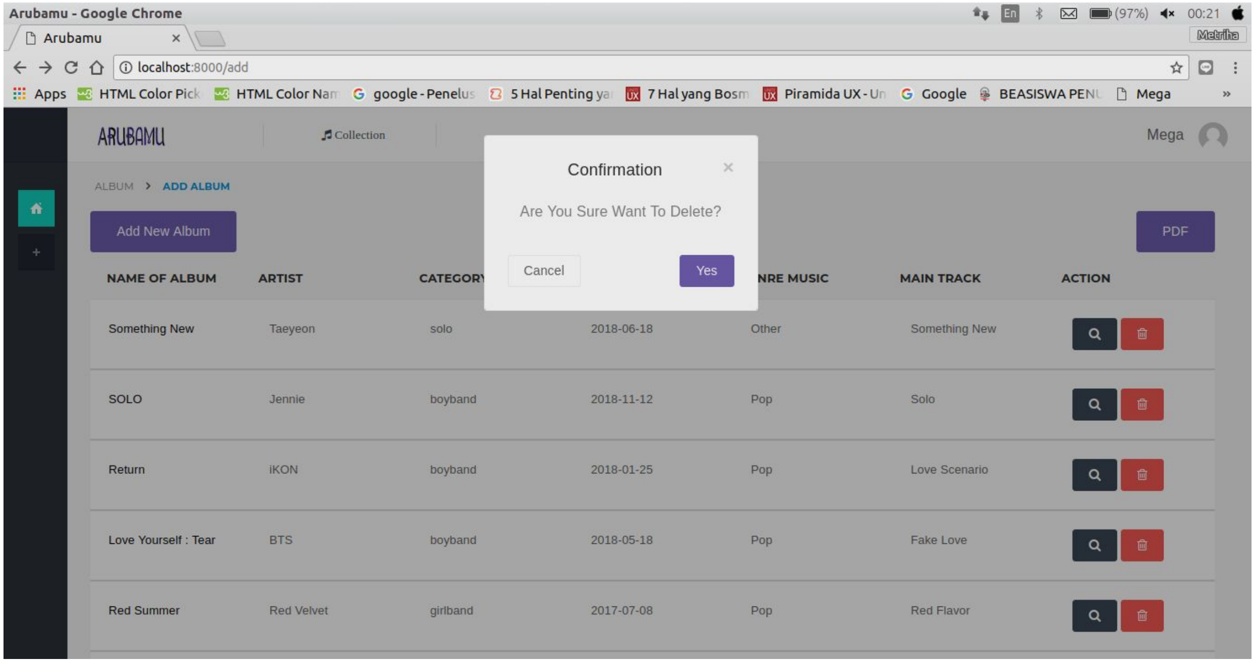
Mega

ALBUM > UPDATE ALBUM

NAME OF ALBUM	SOLO
ARTIST	Jennie
CATEGORY ARTIST	Boyband
RELEASE DATE	11/12/2018
GENRE MUSIC	Pop
MAIN TRACK	Solo

Submit

DELETE


Arubamu - Google Chrome
Arubamu
localhost:8000/add
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ARUBAMU
Collection
Mega
ALBUM > ADD ALBUM
Add New Album
PDF

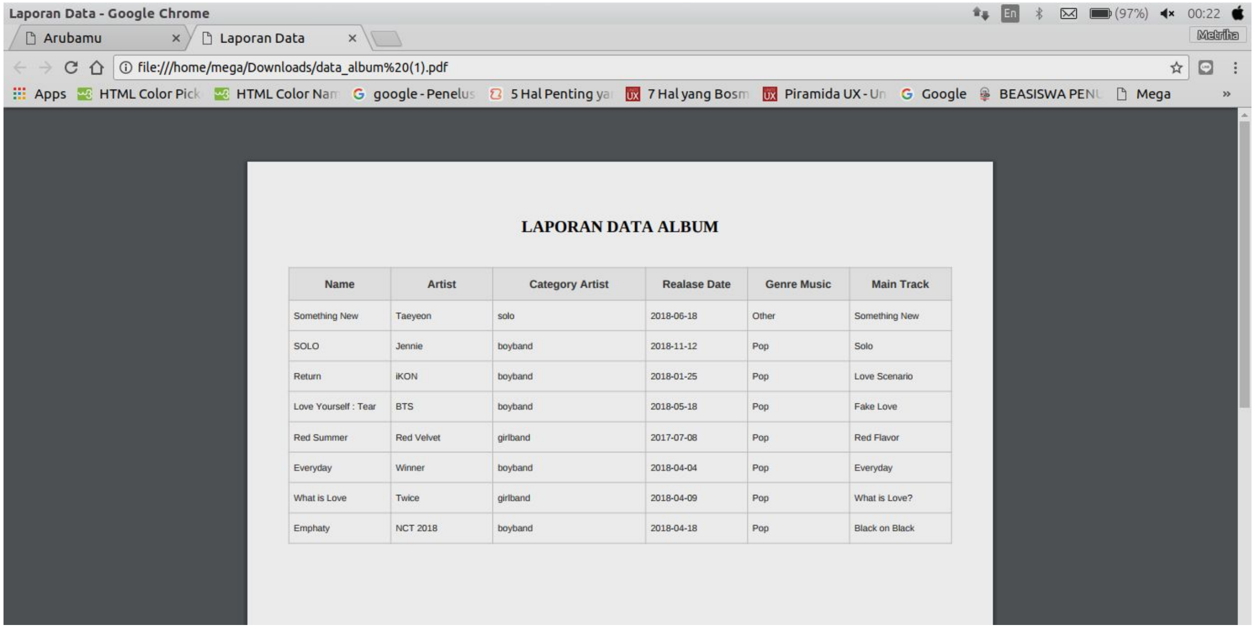
Confirmation

Are You Sure Want To Delete?

Cancel Yes

NAME OF ALBUM	ARTIST	CATEGORY		NRE MUSIC	MAIN TRACK	ACTION
Something New	Taeyeon	solo	2018-06-18	Other	Something New	
SOLO	Jennie	boyband	2018-11-12	Pop	Solo	
Return	iKON	boyband	2018-01-25	Pop	Love Scenario	
Love Yourself : Tear	BTS	boyband	2018-05-18	Pop	Fake Love	
Red Summer	Red Velvet	girlband	2017-07-08	Pop	Red Flavor	

REPORT


Laporan Data - Google Chrome
Arubamu
Laporan Data
file:///home/mega/Downloads/data_album%20(1).pdf
Apps · HTML Color Pick · HTML Color Nam · google - Penelus · 5 Hal Penting ya · 7 Hal yang Bosm · Piramida UX - Un · Google · BEASISWA PENI · Mega

LAPORAN DATA ALBUM

Name	Artist	Category Artist	Realase Date	Genre Music	Main Track
Something New	Taeyeon	solo	2018-06-18	Other	Something New
SOLO	Jennie	boyband	2018-11-12	Pop	Solo
Return	iKON	boyband	2018-01-25	Pop	Love Scenario
Love Yourself : Tear	BTS	boyband	2018-05-18	Pop	Fake Love
Red Summer	Red Velvet	girlband	2017-07-08	Pop	Red Flavor
Everyday	Winner	boyband	2018-04-04	Pop	Everyday
What is Love	Twice	girlband	2018-04-09	Pop	What is Love?
Emphaty	NCT 2018	boyband	2018-04-18	Pop	Black on Black