



**LARAVEL TUTORIAL**  
**FOR**  
**SMK NEGERI 4 BANDUNG**

Upload File

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# Upload File

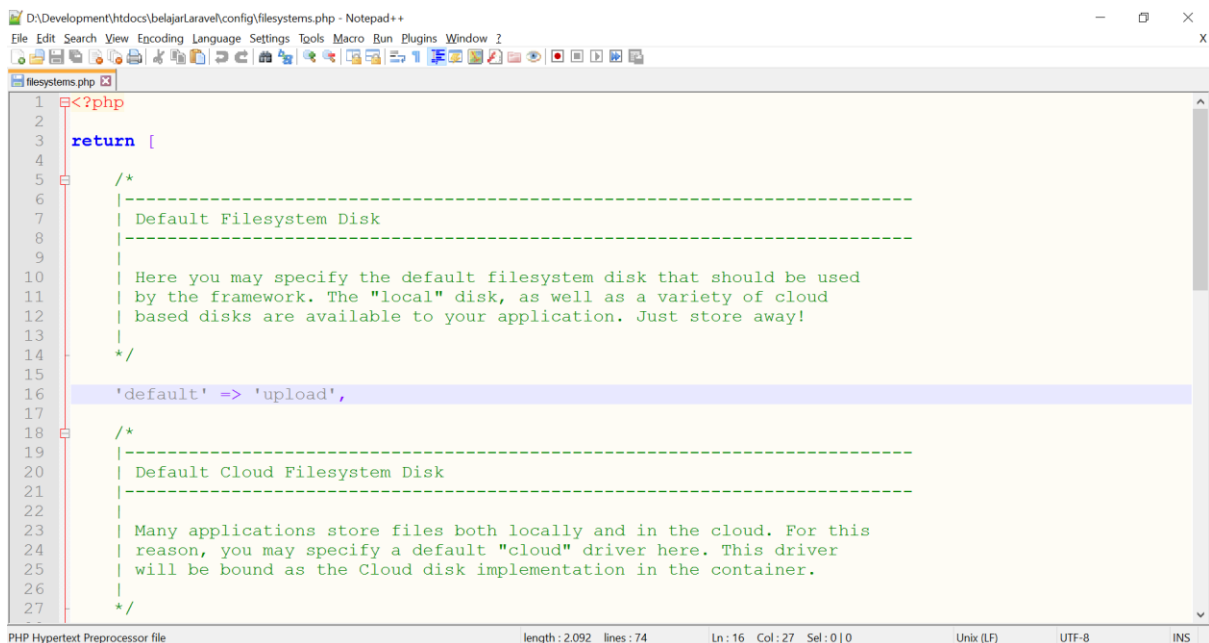
Bagaimana perkembangan memahami Laravel? Cukup menarik dan menantang bukan? Sebenarnya masih banyak sekali fitur-fitur yang disediakan oleh Laravel yang bisa kita explor.

Pada tutorial ini saya akan menjelaskan bagaimana caranya mengupload file di Laravel. Sangat mudah sekali, tidak se-ribet yang kita bayangkan. Yuk kita mulai saja, ikuti langkah-langkah berikut dengan teliti dan semangat ya. Bismillahirrahmanirrahim ☺

## Konfigurasi Storage

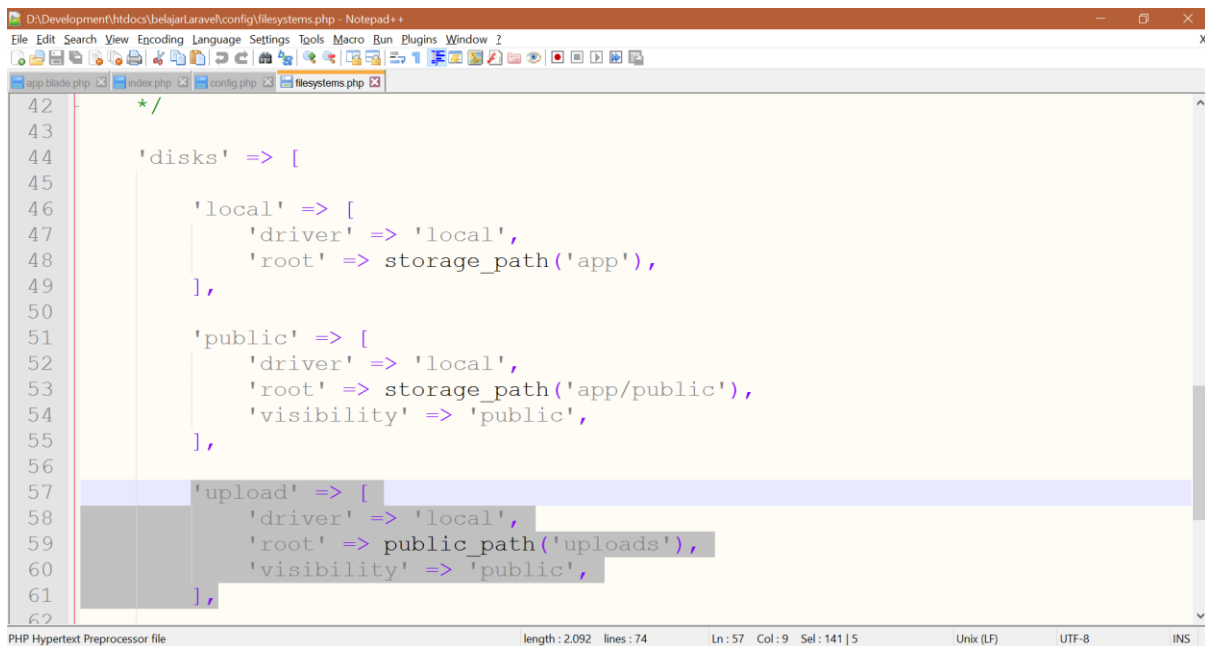
Nah, di Laravel ada istilahnya Storage. Kita setting dulu tempat penyimpanan file-file yang akan kita upload itu akan disimpan di storage yang mana.

1. Buka file **config/filesystems.php**. Ganti default **storage** nya ke 'upload'



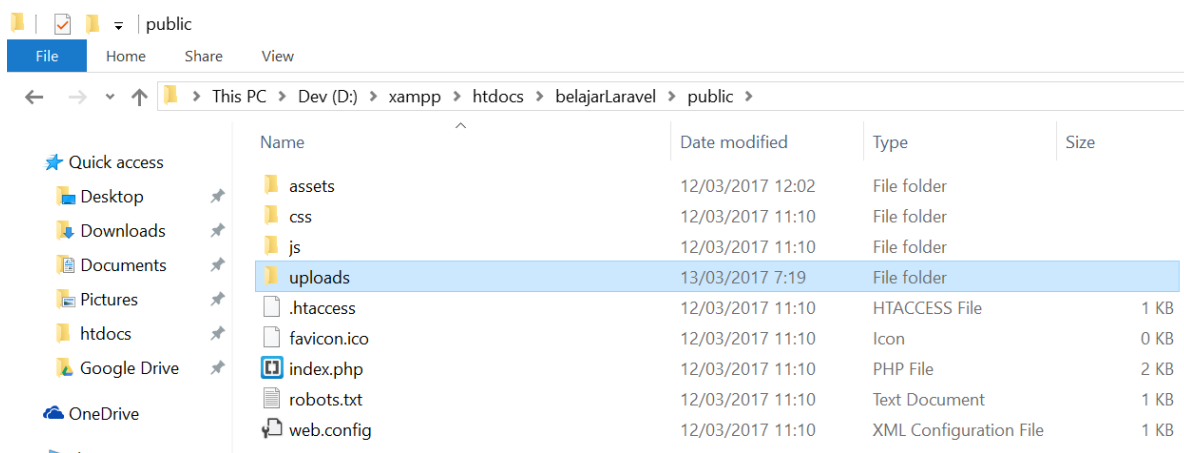
```
1 <?php
2
3 return [
4
5     /*
6     |-----
7     | Default Filesystem Disk
8     |-----
9     |
10    | Here you may specify the default filesystem disk that should be used
11    | by the framework. The "local" disk, as well as a variety of cloud
12    | based disks are available to your application. Just store away!
13    |
14    */
15
16    'default' => 'upload',
17
18    /*
19    |-----
20    | Default Cloud Filesystem Disk
21    |-----
22    |
23    | Many applications store files both locally and in the cloud. For this
24    | reason, you may specify a default "cloud" driver here. This driver
25    | will be bound as the Cloud disk implementation in the container.
26    |
27    */
28 ]
```

Pada baris berikutnya tambahkan blok **'disk'** dengan nama **'upload'**, seperti pada gambar dibawah ini:



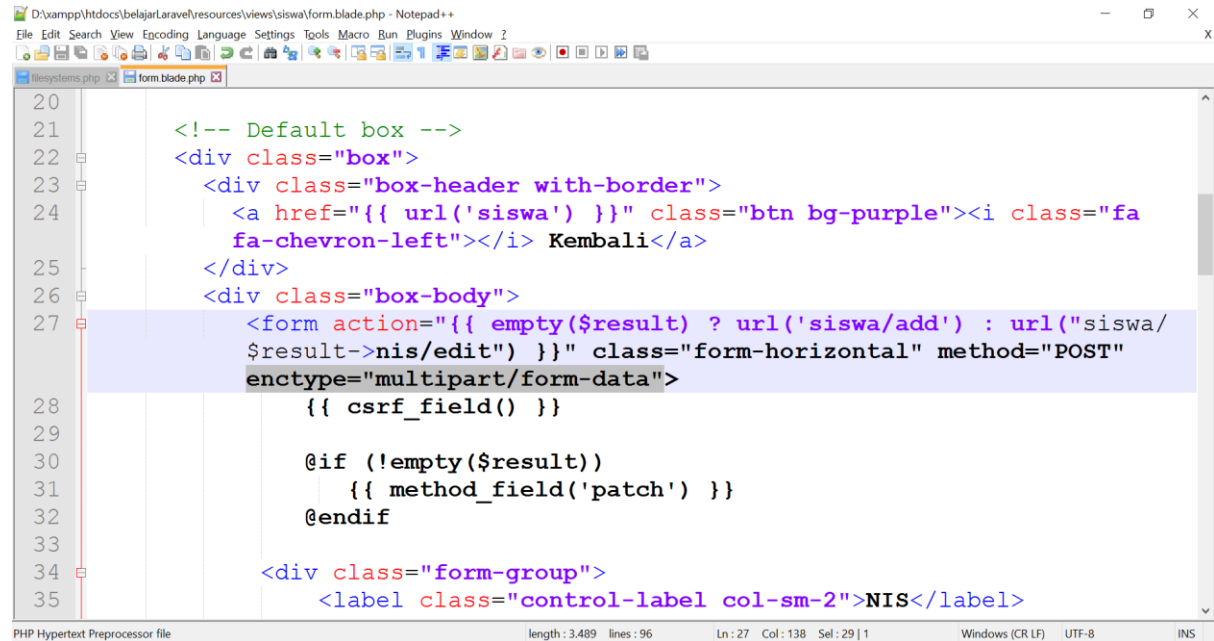
```
42  */
43
44  'disks' => [
45
46      'local' => [
47          'driver' => 'local',
48          'root' => storage_path('app'),
49      ],
50
51      'public' => [
52          'driver' => 'local',
53          'root' => storage_path('app/public'),
54          'visibility' => 'public',
55      ],
56
57      'upload' => [
58          'driver' => 'local',
59          'root' => public_path('uploads'),
60          'visibility' => 'public',
61      ],
62  ],
```

## 2. Buat folder baru dengan nama **uploads** di folder **public**



## Tambah Form Upload

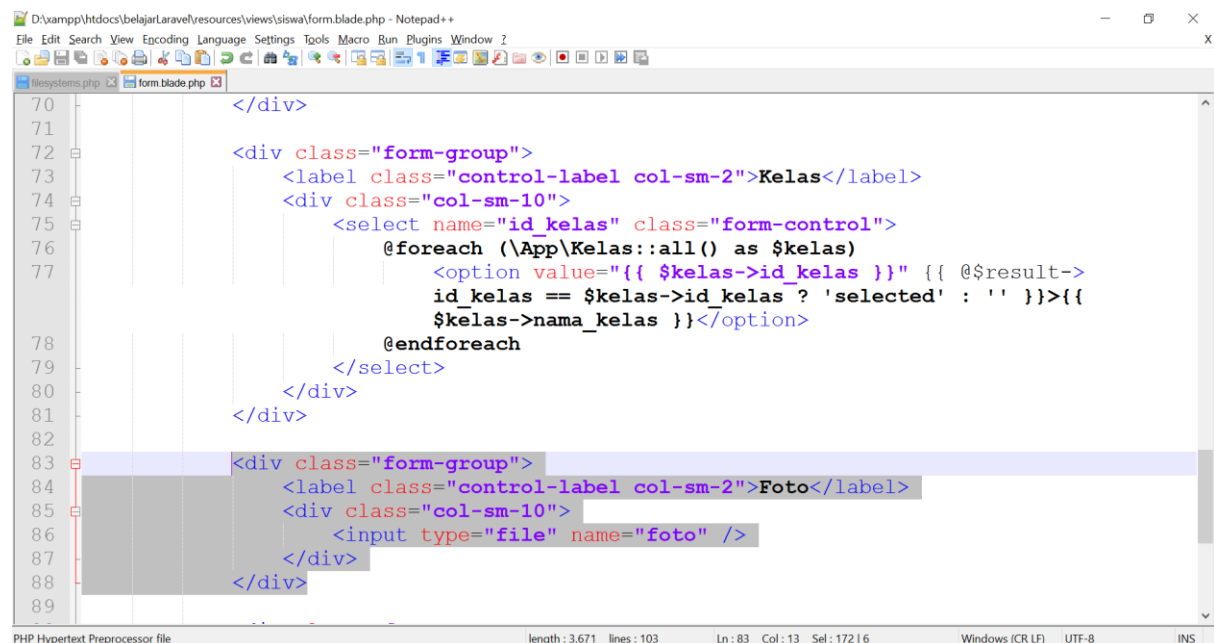
1. Tambahkan **enctype="multipart/form-data"** pada file **resources/views/siswa/form.blade.php**



The screenshot shows a Notepad++ window editing the file `D:\xampp\htdocs\belajar\laravel\resources\views\siswa\form.blade.php`. The code is a Blade template for a student form. A light blue selection box highlights the `<form>` tag on line 27, where the attribute `enctype="multipart/form-data"` has been added. The status bar at the bottom indicates the file is a "PHP Hypertext Preprocessor file" with a length of 3,489 and 96 lines.

```
20
21 <!-- Default box -->
22 <div class="box">
23     <div class="box-header with-border">
24         <a href="{{ url('siswa') }}" class="btn bg-purple"><i class="fa fa-chevron-left"></i> Kembali</a>
25     </div>
26     <div class="box-body">
27         <form action="{{ empty($result) ? url('siswa/add') : url('siswa/' . $result->nis . '/edit') }}" class="form-horizontal" method="POST"
28             enctype="multipart/form-data">
29             {{ csrf_field() }}
30
31             @if (!empty($result))
32                 {{ method_field('patch') }}
33             @endif
34
35     <div class="form-group">
36         <label class="control-label col-sm-2">NIS</label>
```

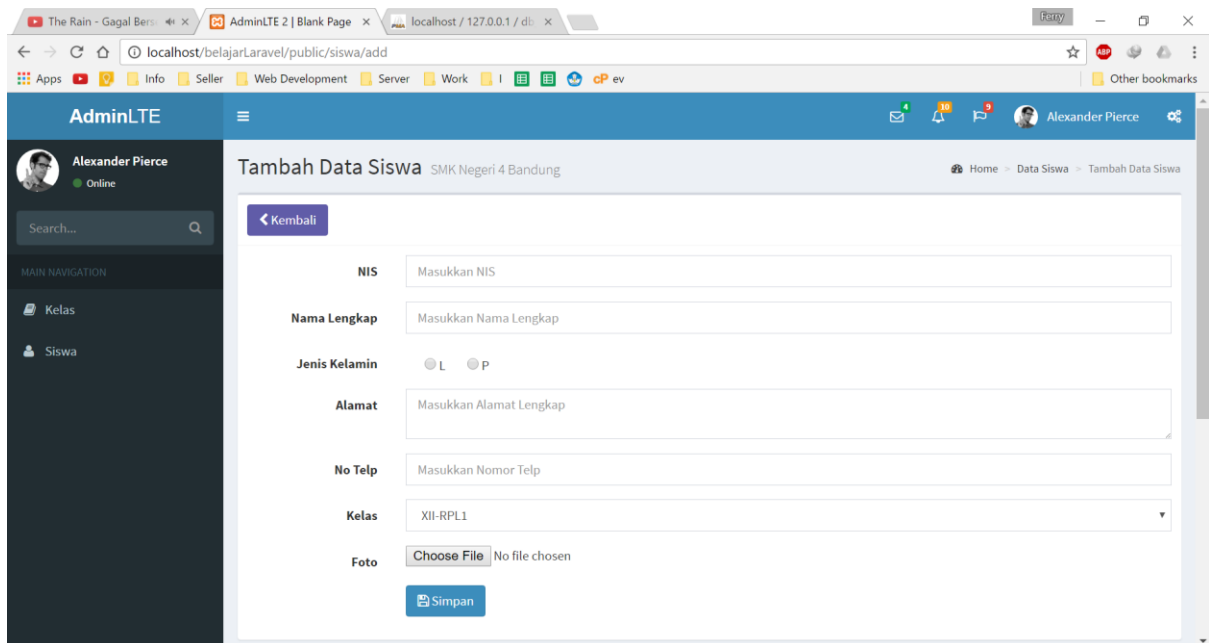
2. Tambahkan juga form upload dengan nama **foto**



The screenshot shows the same Notepad++ window, now at line 83. A light blue selection box highlights the new `<div class="form-group">` block being added. This block contains a label for "Foto" and an `<input type="file" name="foto" />` tag. The status bar at the bottom shows the file length as 3,671 and 103 lines.

```
70
71 </div>
72
73 <div class="form-group">
74     <label class="control-label col-sm-2">Kelas</label>
75     <div class="col-sm-10">
76         <select name="id_kelas" class="form-control">
77             @foreach (\App\Kelas::all() as $kelas)
78                 <option value="{{ $kelas->id_kelas }}" {{ @$result->id_kelas == $kelas->id_kelas ? 'selected' : '' }}>{{ $kelas->nama_kelas }}</option>
79             @endforeach
80         </select>
81     </div>
82 </div>
83 <div class="form-group">
84     <label class="control-label col-sm-2">Foto</label>
85     <div class="col-sm-10">
86         <input type="file" name="foto" />
87     </div>
88 </div>
89
```

3. Buka di web browser hasilnya akan seperti ini



The screenshot shows a web browser window with the URL `localhost/belajarLaravel/public/siswa/add`. The page is titled 'Tambah Data Siswa' for 'SMK Negeri 4 Bandung'. It features a sidebar with 'AdminLTE' branding and a user profile for 'Alexander Pierce'. The main content area contains a form with the following fields:

- NIS**: Text input with placeholder 'Masukkan NIS'.
- Nama Lengkap**: Text input with placeholder 'Masukkan Nama Lengkap'.
- Jenis Kelamin**: Radio buttons for 'L' and 'P'.
- Alamat**: Text input with placeholder 'Masukkan Alamat Lengkap'.
- No Telp**: Text input with placeholder 'Masukkan Nomor Telp'.
- Kelas**: Dropdown menu with 'XII-RPL1' selected.
- Foto**: File upload button labeled 'Choose File' with the text 'No file chosen'.

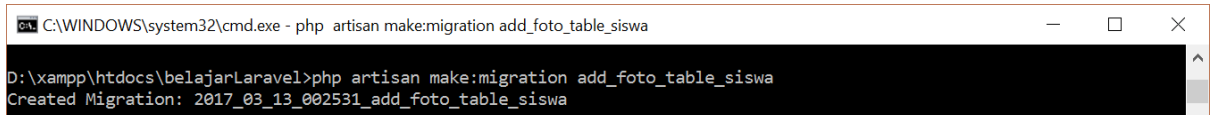
A blue 'Simpan' button is located at the bottom of the form. A 'Kembali' button is also visible at the top left of the form area.

## Buat Field Foto pada Database

Nah, kita harus melakukan alter tabel **t\_siswa** untuk menambahkan field **foto**. Caranya kita bisa memanfaatkan **migration** nih. Ikuti langkah-langkah berikut:

1. Buka command prompt, ketik perintah berikut

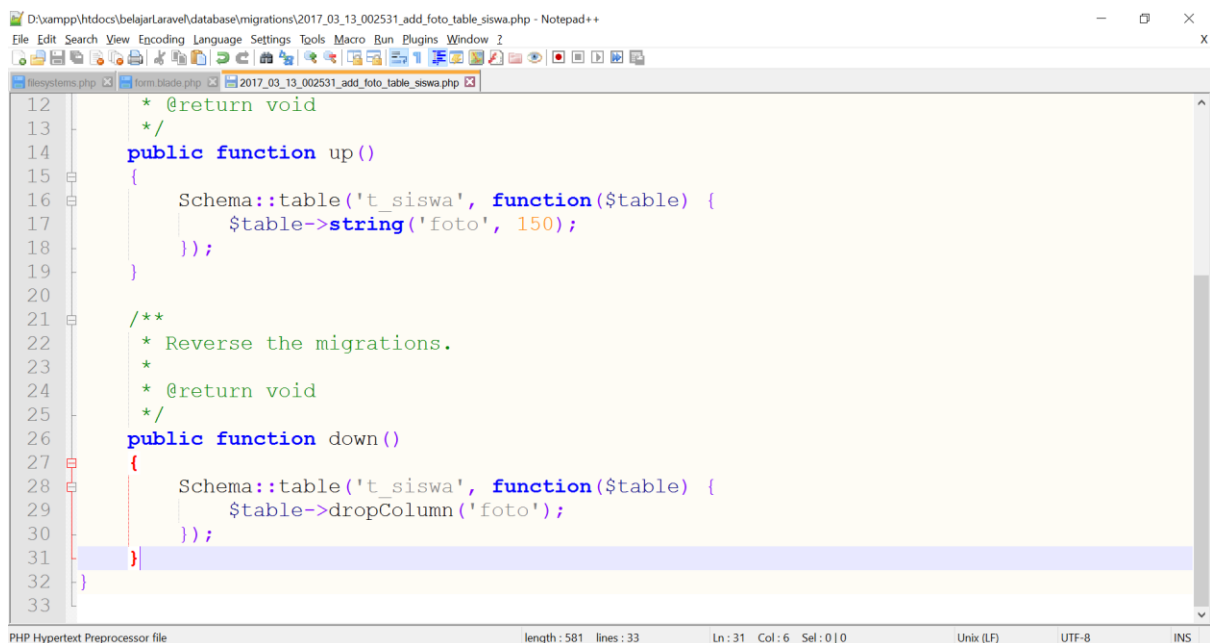
```
> php artisan make:migration add_foto_table_siswa
```



```
C:\WINDOWS\system32\cmd.exe - php artisan make:migration add_foto_table_siswa

D:\xampp\htdocs\belajarLaravel>php artisan make:migration add_foto_table_siswa
Created Migration: 2017_03_13_002531_add_foto_table_siswa
```

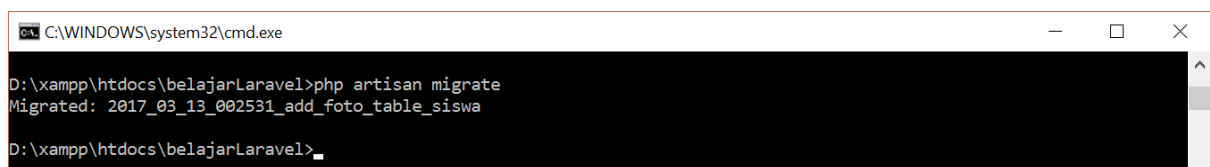
## 2. Edit file `add_foto_table_siswa`



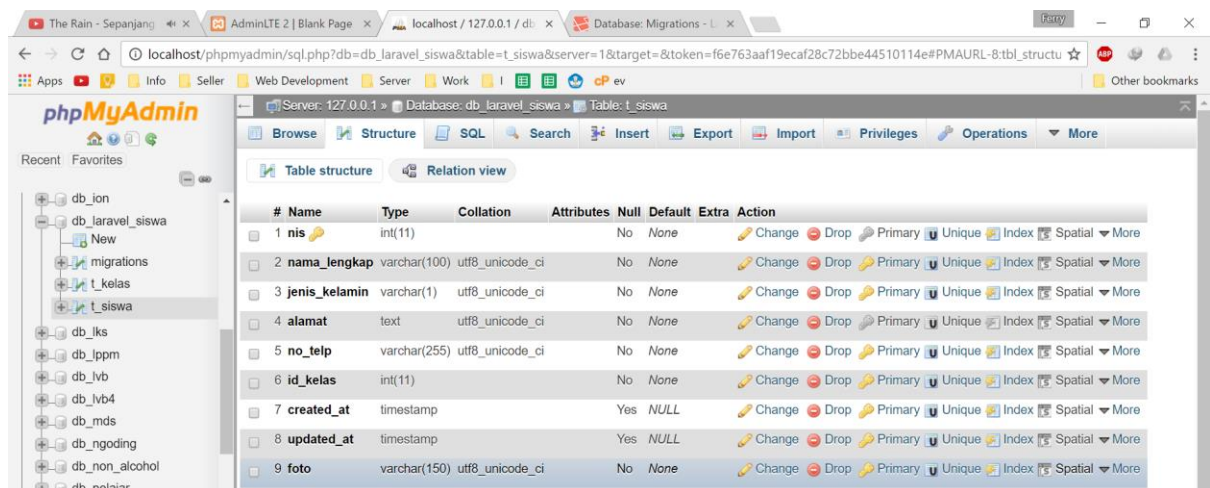
```
12      * @return void
13      */
14      public function up()
15      {
16          Schema::table('t_siswa', function($table) {
17              $table->string('foto', 150);
18          });
19      }
20
21      /**
22       * Reverse the migrations.
23       *
24       * @return void
25       */
26      public function down()
27      {
28          Schema::table('t_siswa', function($table) {
29              $table->dropColumn('foto');
30          });
31      }
32  }
33  }
```

## 3. Buka command prompt lagi, jalankan perintah migrate

```
> php artisan migrate
```



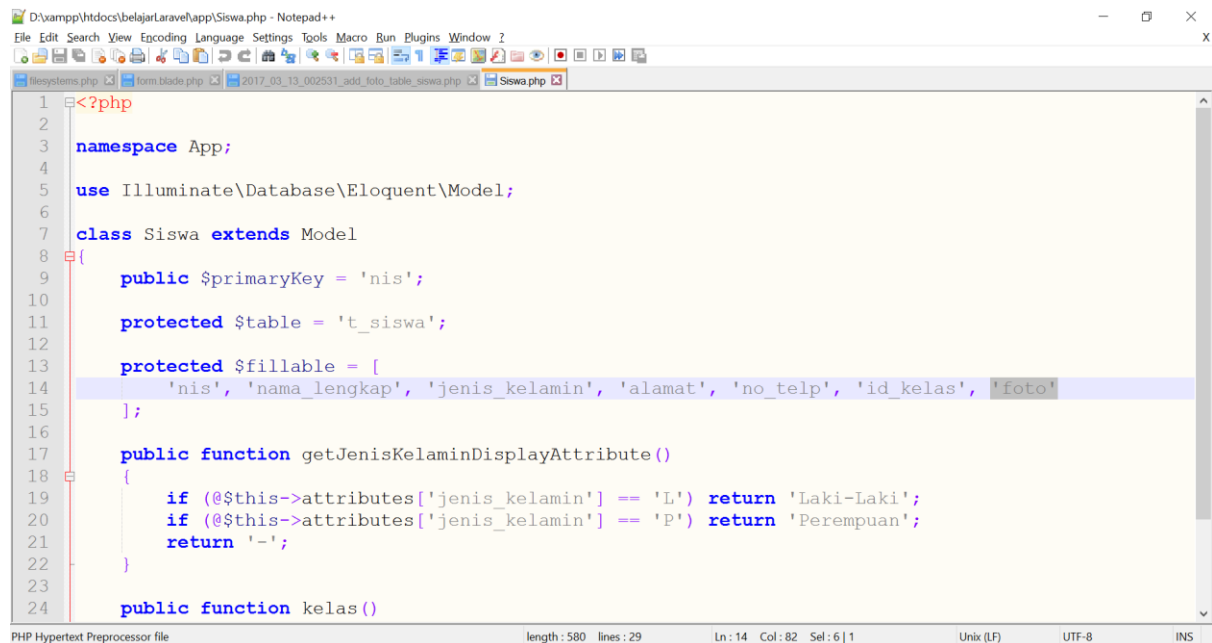
```
C:\WINDOWS\system32\cmd.exe
D:\xampp\htdocs\belajarLaravel>php artisan migrate
Migrated: 2017_03_13_002531_add_foto_table_siswa
D:\xampp\htdocs\belajarLaravel>
```



#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	nis	int(11)			No	None	Primary Unique Index Spatial	Change Drop
2	nama_lengkap	varchar(100)	utf8_unicode_ci		No	None	Primary Unique Index Spatial	Change Drop
3	jenis_kelamin	varchar(1)	utf8_unicode_ci		No	None	Primary Unique Index Spatial	Change Drop
4	alamat	text	utf8_unicode_ci		No	None	Primary Unique Index Spatial	Change Drop
5	no_telp	varchar(255)	utf8_unicode_ci		No	None	Primary Unique Index Spatial	Change Drop
6	id_kelas	int(11)			No	None	Primary Unique Index Spatial	Change Drop
7	created_at	timestamp			Yes	NULL	Primary Unique Index Spatial	Change Drop
8	updated_at	timestamp			Yes	NULL	Primary Unique Index Spatial	Change Drop
9	foto	varchar(150)	utf8_unicode_ci		No	None	Primary Unique Index Spatial	Change Drop

## Edit Model Siswa

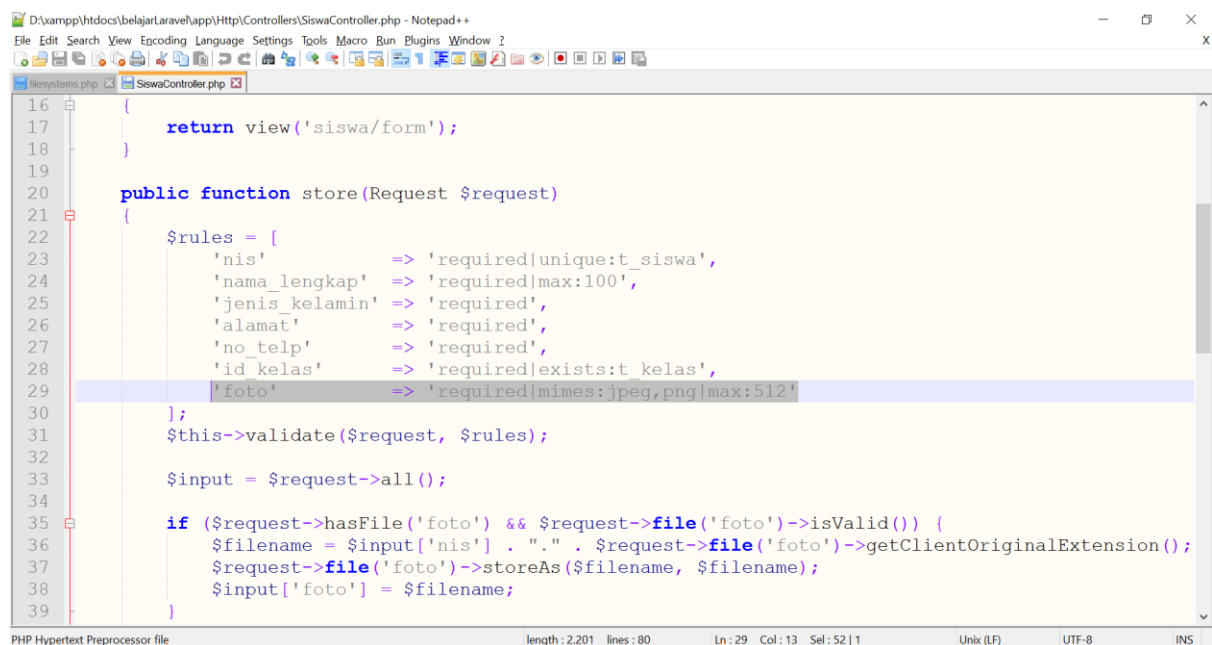
Langkah selanjutnya adalah edit model Siswa. Tambahkan **foto** pada variable **\$fillable**.



```
1 <?php
2
3 namespace App;
4
5 use Illuminate\Database\Eloquent\Model;
6
7 class Siswa extends Model
8 {
9     public $primaryKey = 'nis';
10
11     protected $table = 't_siswa';
12
13     protected $fillable = [
14         'nis', 'nama_lengkap', 'jenis_kelamin', 'alamat', 'no_telp', 'id_kelas', 'foto'
15     ];
16
17     public function getJenisKelaminDisplayAttribute()
18     {
19         if (@$this->attributes['jenis_kelamin'] == 'L') return 'Laki-Laki';
20         if (@$this->attributes['jenis_kelamin'] == 'P') return 'Perempuan';
21         return '-';
22     }
23
24     public function kelas()
```

## Edit SiswaController

Langkah selanjutnya lakukan modifikasi pada **SiswaController**. Tambahkan rules validasi untuk tipe file yang boleh diupload dan ukuran maksimal file yang akan diupload.



```
16 {
17     return view('siswa/form');
18 }
19
20 public function store(Request $request)
21 {
22     $rules = [
23         'nis' => 'required|unique:t_siswa',
24         'nama_lengkap' => 'required|max:100',
25         'jenis_kelamin' => 'required',
26         'alamat' => 'required',
27         'no_telp' => 'required',
28         'id_kelas' => 'required|exists:t_kelas',
29         'foto' => 'required|mimes:jpeg,png|max:512'
30     ];
31     $this->validate($request, $rules);
32
33     $input = $request->all();
34
35     if ($request->hasFile('foto') && $request->file('foto')->isValid()) {
36         $filename = $input['nis'] . "." . $request->file('foto')->getClientOriginalExtension();
37         $request->file('foto')->storeAs($filename, $filename);
38         $input['foto'] = $filename;
39     }
```



Kemudian cek apakah ada file yang akan diupload dan file tersebut valid (Tidak error)

```
D:\xampp\htdocs\belajar_laravel\app\Http\Controllers\SiswaController.php - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

$rules = [
    'nis' => 'required|unique:t_siswa',
    'nama_lengkap' => 'required|max:100',
    'jenis_kelamin' => 'required',
    'alamat' => 'required',
    'no_telp' => 'required',
    'id_kelas' => 'required|exists:t_kelas',
    'foto' => 'required|mimes:jpeg,png|max:512'
];

$this->validate($request, $rules);

$input = $request->all();

if ($request->hasFile('foto') && $request->file('foto')->isValid()) {
    $filename = $input['nis'] . "." . $request->file('foto')->getClientOriginalExtension();
    $request->file('foto')->storeAs('', $filename);
    $input['foto'] = $filename;
}

$status = \App\Siswa::create($input);

if ($status) return redirect('siswa')->with('success', 'Data berhasil ditambahkan');
else return redirect('siswa')->with('error', 'Data gagal ditambahkan');
```

Lakukan hal yang sama untuk **edit**

```
D:\xampp\htdocs\belajar_laravel\app\Http\Controllers\SiswaController.php - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

}

public function update(Request $request, $id)
{
    $rules = [
        'nama_lengkap' => 'required|max:100',
        'jenis_kelamin' => 'required',
        'alamat' => 'required',
        'no_telp' => 'required',
        'id_kelas' => 'required|exists:t_kelas',
        'foto' => 'required|mimes:jpeg,png|max:512'
    ];

    $this->validate($request, $rules);

    $input = $request->all();
    $result = \App\Siswa::where('nis', $id)->first();

    if ($request->hasFile('foto') && $request->file('foto')->isValid()) {
        $filename = $input['nis'] . "." . $request->file('foto')->getClientOriginalExtension();
        $request->file('foto')->storeAs('', $filename);
        $input['foto'] = $filename;
    }

    $status = $result->update($input);
}
```


#### Notes:

- `$request->file('foto')` digunakan untuk mengambil object file upload dengan nama field foto
- `getClientOriginalExtension()` digunakan untuk mengambil ekstensi dari file yang diupload
- `storeAs()` digunakan untuk menyimpan file sesuai dengan lokasi storage yang sudah kita setting sebelumnya, parameter pertama untuk alamat file, parameter kedua untuk nama file. Alamat file kita kosongkan karena kita akan mengupload langsung ke folder **public/uploads**
- Contoh diatas nama file yang diupload otomatis akan diganti format \$filename nya dengan format NIS.jpg

## Edit Tampilan Index Siswa

Untuk melihat hasil nya, kita coba modifikasi tampilan index siswa, tambahkan kolom foto pada tabelnya (Line 29 & Line 43-45).

Coba lakukan edit pada datanya, lalu upload file pada form nya, hasilnya akan seperti ini:

 **Laravel**  
Tutorial by @superipey

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File nya akan tersimpan didalam folder **public/uploads**

