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Kelas : D4 TI - 2H
No. Urut : 04
Mata Kuliah : Pemrograman Web Lanjut Jobsheet 12 (File Upload)

A. Persiapan Awal

1. Membuat beberapa file yang diperlukan, yang pertama controller :

`php artisan make:controller FileUploadController`

```
PS C:\laragon\www\PHL_POS> php artisan make:controller FileUploadController  
  
INFO Controller [C:\laragon\www\PHL_POS\app\Http\Controllers\FileUploadController.php] created successfully.  
  
PS C:\laragon\www\PHL_POS> |
```

2. Buat 2 buah method yaitu method `fileUpload()` dan `prosesFileUpload`. Method `fileUpload()` berisi kode program yang akan memanggil file view `file-upload.blade.php`. File blade inilah yang berisi kode HTML dan CSS untuk membuat form (akan kita buat sesaat lagi). Sedangkan method `prosesFileUpload()` untuk memproses hasil submit form. kita akan banyak membuat kode program, diantaranya validasi form dan serta proses pemindahan file yang sudah di upload. Sebagai argument terdapat variabel `$request` yang akan berisi Request object.

```
app > Http > Controllers > FileUploadController.php > ...  
7  class FileUploadController extends Controller  
8  {  
9      public function fileUpload()  
10     {  
11         return view('file-upload');  
12     }  
13  
14     public function prosesFileUpload(Request $request)  
15     {  
16         return "Pemrosesan file upload di sini";  
17     }  
18 }
```

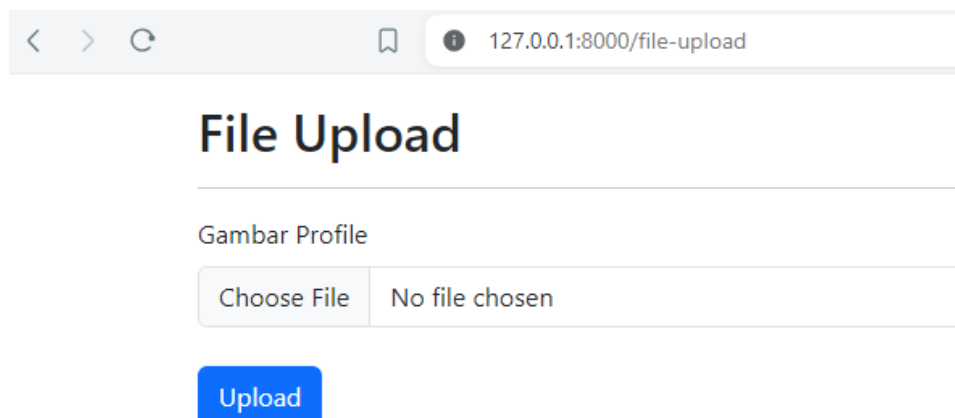
3. Membuat route pada `web.php`

```
routes > web.php > ...  
33 Route::get('/file-upload', [FileUploadController::class, 'fileUpload']);  
34 Route::post('/file-upload', [FileUploadController::class, 'prosesFileUpload']);  
35
```

4. Membuat File View file-upload.blade.php dengan kode sebagai berikut

```
resources > views > @ file-upload.blade.php > ...
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <meta http-equiv="X-UA-Compatible" content="ie=edge">
7   <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css" rel="stylesheet"
  integrity="sha384-QwTKZyjpPEjISv5WaRU90FeRpok6YctnYmDr5pNlyT2bRjXh0JMhYV6hW+ALEwIH" crossorigin="anonymous">
8   <title>File Upload</title>
9 </head>
10
11 <body>
12   <div class="container mt-3">
13     <h2>File Upload</h2>
14     <hr>
15
16     <form action="{{ url('/file-upload') }}" method="POST" enctype="multipart/form-data">
17       @csrf
18       <div class="mb-3">
19         <label for="berkas" class="form-label">Gambar Profile</label>
20         <input type="file" class="form-control" id="berkas" name="berkas">
21         @error('berkas')
22           <div class="text-danger"> {{ $message }} </div>
23         @enderror
24       </div>
25
26       <button type="submit" class="btn btn-primary my-2">Upload</button>
27     </form>
28   </div>
29 </body>
30 </html>
```

Untuk membuat tampilan form, menggunakan sedikit class CSS bawaan Bootstrap (Gunakan CDN Bootstrap). Karena kita akan mengupload file, maka di dalam tag `<form>` harus ditambah atribut `enctype="multipart/form-data"` seperti di baris 20. Form ini dikirim menggunakan method POST ke url `(/file-upload)`. Seperti biasa, form yang dikirim menggunakan method post juga harus menyertakan perintah `@csrf`. Kode ini ada di baris 21. Form ini hanya terdiri dari 1 inputan, `<input type="file" name="berkas">`. Kemudian terdapat blok `@error('berkas')` untuk menampilkan pesan error validasi di baris 25-26. Terakhir, tombol submit isi dengan nama "Upload". Langsung saja kita coba test. Silahkan upload sembarang file, lalu klik tombol "Upload":



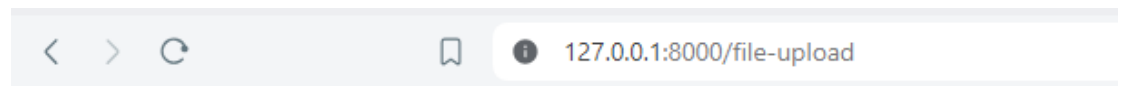
127.0.0.1:8000/file-upload

File Upload

Gambar Profile

Choose File No file chosen

Upload



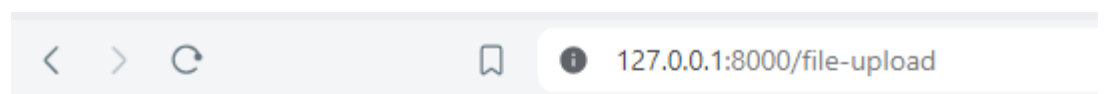
File Upload

Gambar Profile

Choose File

RT - Mengelola Pendataan Keluarga.jpg

Upload



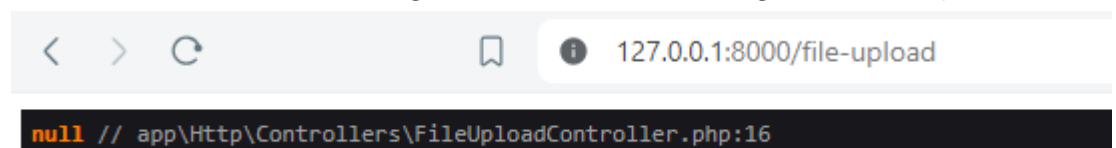
Pemrosesan file upload di sini

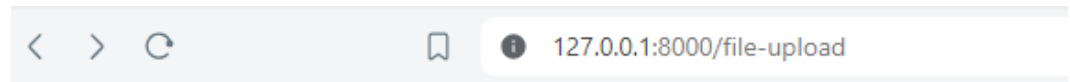
B. Informasi File Upload

1. Informasi seputar file yang sudah di upload bisa kita akses melalui Request object, yakni variabel `$request`. Silahkan isi kode berikut ke dalam method `prosesFileUpload()` di `FileUploadController`:

```
app > Http > Controllers > FileUploadController.php > ...
7  class FileUploadController extends Controller
8  {
9      public function fileUpload()
10     {
11         return view('file-upload');
12     }
13
14     public function prosesFileUpload(Request $request)
15     {
16         dump($request->berkas);
17         // dump($request->file('file'));
18         // return "Pemrosesan file upload di sini";
19     }
20 }
```

2. lakukan 2 percobaan, pertama langsung submit form tanpa mengisi file apapun. Dan kedua, upload file sembarang dan submit. Screenshot bagaimana hasilnya?





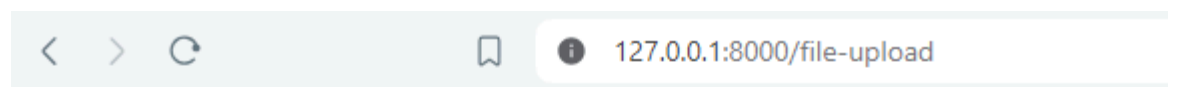
File Upload

Gambar Profile

Choose File

RT - Mengelola Pendataan Penduduk.jpg

Upload



```
Illuminate\Http\UploadedFile {#1425 ▾ // app\Http\Controllers\FileUploadController.php
  -test: false
  -originalName: "RT - Mengelola Pendataan Penduduk.jpg"
  -mimeType: "image/jpeg"
  -error: 0
  #hashName: null
  path: "C:\Users\AnaB\AppData\Local\Temp"
  filename: "phpDA47.tmp"
  basename: "phpDA47.tmp"
  pathname: "C:\Users\AnaB\AppData\Local\Temp\phpDA47.tmp"
  extension: "tmp"
  realPath: "C:\Users\AnaB\AppData\Local\Temp\phpDA47.tmp"
  aTime: 2024-06-04 17:10:01
  mTime: 2024-06-04 17:10:01
  cTime: 2024-06-04 17:10:01
  inode: 2533274790761272
  size: 150970
  perms: 0100666
  owner: 0
  group: 0
  type: "file"
  writable: true
  readable: true
  executable: false
  file: true
  dir: false
  link: false
  linkTarget: "C:\Users\AnaB\AppData\Local\Temp\phpDA47.tmp"
}
```

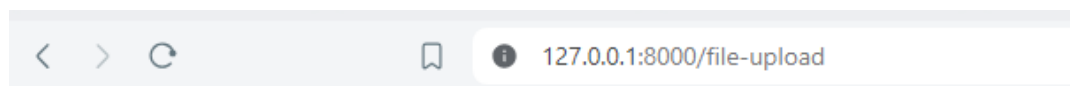
3. Berikut cara mengambil beberapa info dari file yang di upload:
(app/Http/Controllers/FileUploadController.php)

```

app > Http > Controllers > FileUploadController.php > PHP Intelephense > FileUploadController > prosesFileUpload
14 public function prosesFileUpload(Request $request)
15 {
16     // dump($request->berkas);
17     // dump($request->file('file'));
18     // return "Pemrosesan file upload di sini";
19
20     if ($request->hasFile('berkas')) {
21         echo "path(): " . $request->berkas->path();
22         echo "<br>";
23         echo "extension(): " . $request->berkas->extension();
24         echo "<br>";
25         echo "getClientOriginalExtension(): " . $request->berkas->getClientOriginalExtension();
26         echo "<br>";
27         echo "gettimeType(): " . $request->berkas->getMimeType();
28         echo "<br>";
29         echo "getClientOriginalName(): " . $request->berkas->getClientOriginalName();
30         echo "<br>";
31         echo "getSize(): " . $request->berkas->getSize();
32     } else {
33         echo "Tidak ada berkas yang diupload";
34     }
35 }
36 }

```

4. Lakukan percobaan upload file sehingga akan muncul keterangan sbb



File Upload

Gambar Profile

Choose File

RW - Mengelola RT.jpg

Upload



```

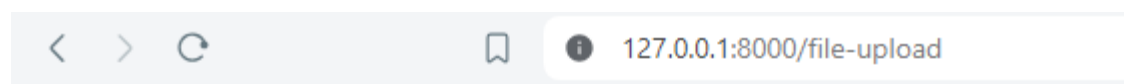
path(): C:\Users\AnaB\AppData\Local\Temp\php1A7F.tmp
extension(): jpg
getClientOriginalExtension(): jpg
gettimeType(): image/jpeg
getClientOriginalName():RW - Mengelola RT.jpg
getSize(): 121040

```

C. Validasi File Upload

1. Membuat validasi file upload mirip seperti cara membuat validasi inputan form biasa, yakni menggunakan method `$request->validate()`. Berikut contoh penggunaannya: (`app/Http/Controllers/FileUploadController.php`)

```
app > Http > Controllers > FileUploadController.php > PHP Intelephense > FileUploadController > prosesFileUpload
7  class FileUploadController extends Controller
8  {
9      public function fileUpload()
10     {
11         return view('file-upload');
12     }
13
14     public function prosesFileUpload(Request $request)
15     {
16         // dump($request->berkas);
17         // dump($request->file('file'));
18         // return "Pemrosesan file upload di sini";
19
20         $request->validate([
21             'berkas' => 'required',
22         ]);
23         echo $request->berkas->getClientOriginalName() . " lolos validasi";
24     }
25 }
```



File Upload

Gambar Profile

Choose File

No file chosen

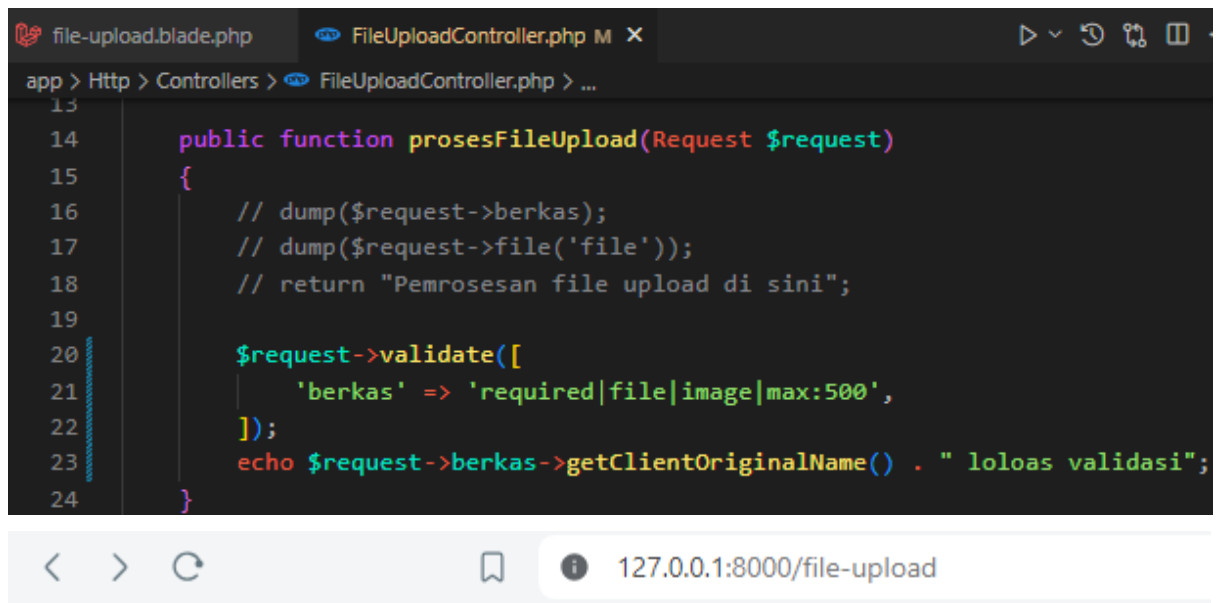
The berkas field is required.

Upload



RW - Mengelola Laporan Keuangan.drawio.png lolos validasi

2. Syarat validasi selanjutnya adalah membatasi jenis file dan maksimal ukuran file : (tambahkan code pada line 20)

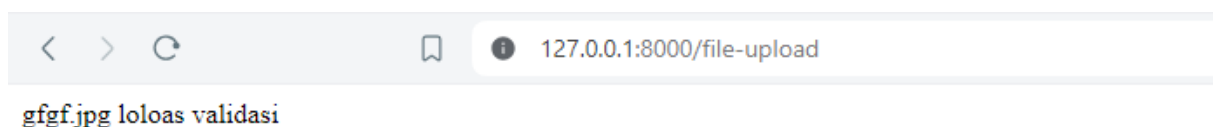


File Upload

Gambar Profile

Choose File gfgf.jpg

Upload



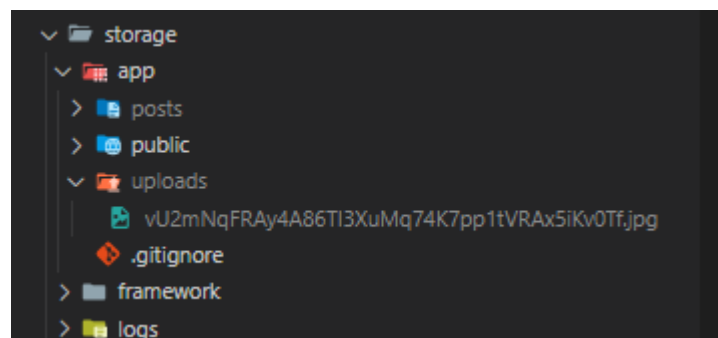
D. Memindahkan File Upload

1. Cara pertama adalah menggunakan method `store()` yang bisa diakses dari Request object. Berikut contoh penggunaannya:

```
app > Http > Controllers > FileUploadController.php > ...
13
14 public function prosesFileUpload(Request $request)
15 {
16     // dump($request->berkas);
17     // dump($request->file('file'));
18     // return "Pemrosesan file upload di sini";
19
20     $request->validate([
21         'berkas' => 'required|file|image|max:500',
22     ]);
23     $path = $request->berkas->store('uploads');
24     echo " proses upload berhasil, file berada di: $path";
25     // echo $request->berkas->getClientOriginalName() . " lolos
    validasi";
26 }
```

127.0.0.1:8000/file-upload

proses upload berhasil, file berada di: uploads/vU2mNqFRay4A86TI3XuMq74K7pp1tVRax5iKv0Tf.jpg



```
app > Http > Controllers > FileUploadController.php > PHP Intelephense > FileUploadController > prosesFile
13
14 public function prosesFileUpload(Request $request)
15 {
16     // dump($request->berkas);
17     // dump($request->file('file'));
18     // return "Pemrosesan file upload di sini";
19
20     $request->validate([
21         'berkas' => 'required|file|image|max:500',]);
22     $path = $request->berkas->storeAs('uploads', 'berkas');
23     echo "Proses upload berhasil, file berada di " . $path;
24     // echo $request->berkas->getClientOriginalName() . " lolos
    validasi";
25 }
```



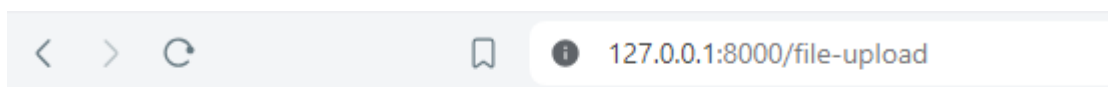

Proses upload berhasil, file berada di uploads/berkas

2. mengambil nama file dari fungsi getClientOriginalName() seperti contoh berikut: (app/Http/Controllers/FileUploadController.php)

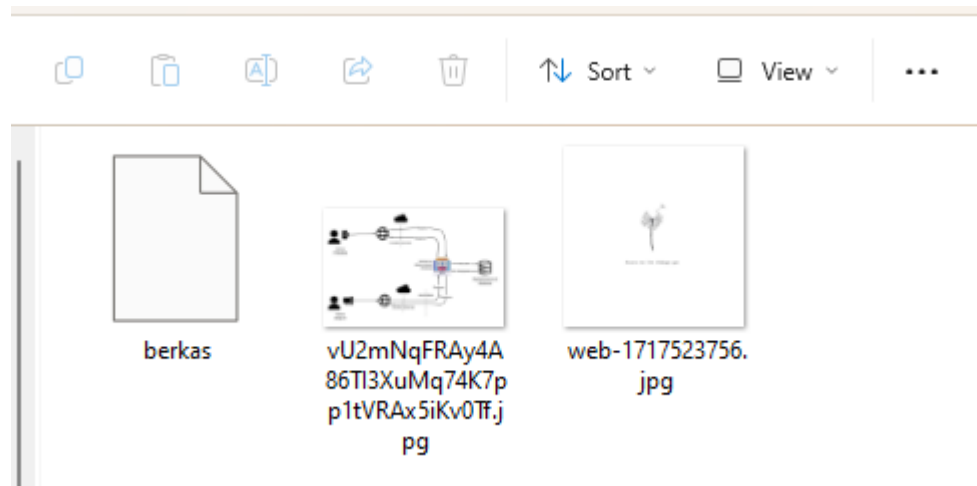
```
app > Http > Controllers > FileUploadController.php > ...
13
14 public function prosesFileUpload(Request $request)
15 {
16     $request->validate([
17         'berkas' => 'required|file|image|max:500',
18     ]);
19     $namaFile = $request->berkas->getClientOriginalName();
20     $path = $request->berkas->storeAs('uploads', $namaFile);
21     echo "Proses upload berhasil, file berada di " . $path;
22 }
```

3. Cara lain adalah dengan meng-generate nama acak sendiri. Sebagai contoh, membuat nama file upload berdasarkan nama user, ditambah dengan digit acak dari fungsi time(). Berikut kode programnya: (app/Http/Controllers/FileUploadController.php)

```
app > Http > Controllers > FileUploadController.php > ...
13
14 public function prosesFileUpload(Request $request)
15 {
16     $request->validate([
17         'berkas' => 'required|file|image|max:500',
18     ]);
19     $extfile = $request->berkas->getClientOriginalExtension();
20     $namaFile = 'web-' . time() . "." . $extfile;
21     $path = $request->berkas->storeAs('uploads', $namaFile);
22     echo "Proses upload berhasil, file berada di " . $path;
23 }
```

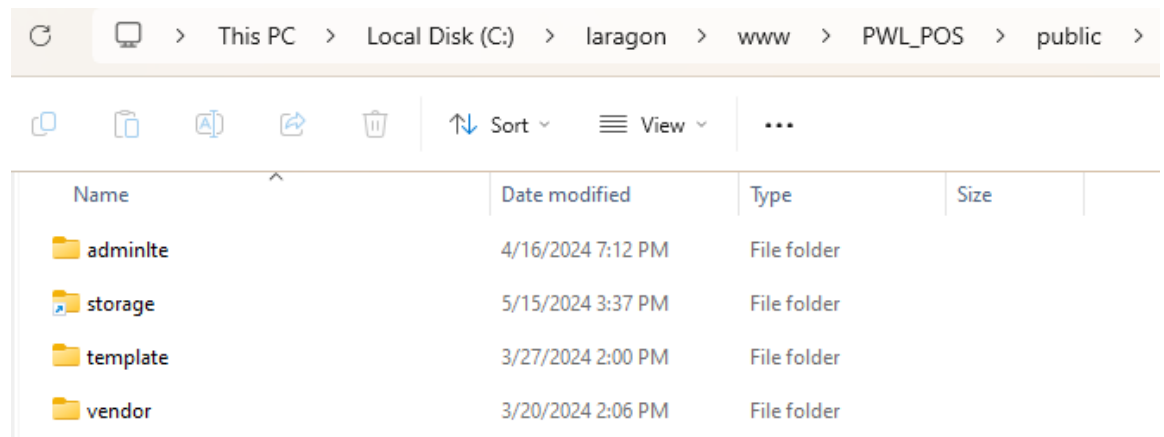


Proses upload berhasil, file berada di uploads/web-1717523756.jpg



E. Membuat Symlink

1. Membuat symlink yang menghubungkan folder storage\app dengan folder public\php artisan storage:link



2. Modifikasi dari method prosesFileUpload():

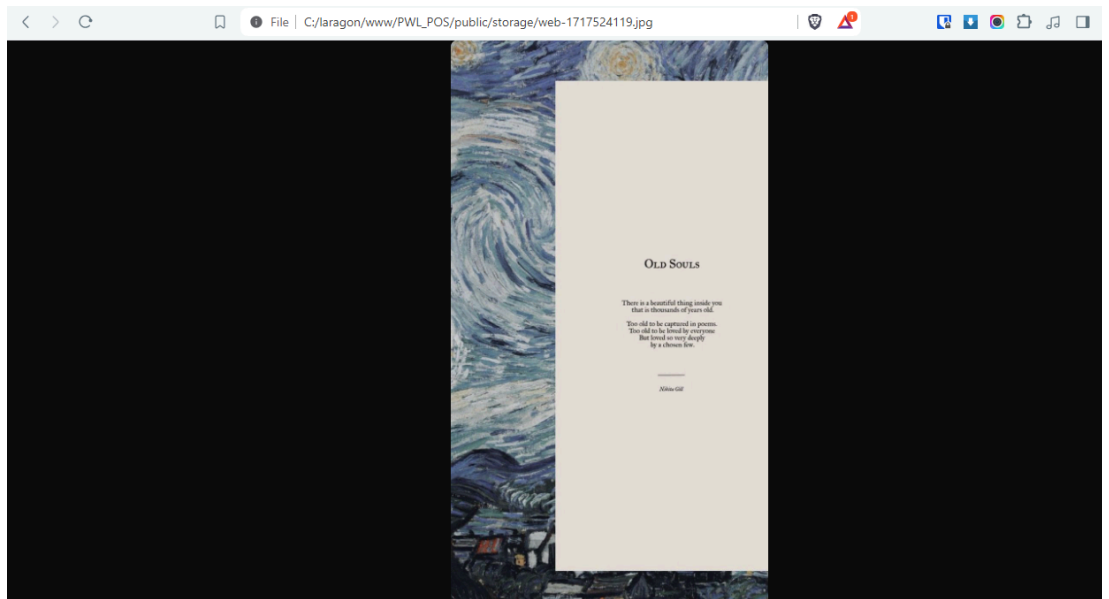
```

app > Http > Controllers > FileUploadController.php > ...
13
14     public function prosesFileUpload(Request $request)
15     {
16         $request->validate([
17             'berkas' => 'required|file|image|max:500',
18         ]);
19         $extfile = $request->berkas->getClientOriginalExtension();
20         $namaFile = 'web-' . time() . '.' . $extfile;
21         $path = $request->berkas->storeAs('public', $namaFile);
22         echo "Proses upload berhasil, file berada di " . $path;
23     }

```



Proses upload berhasil, file berada di public/web-1717524119.jpg



3. Menambahkan link agar gambar dapat diakses, tambahkan kode pada method prosesFileUpload:

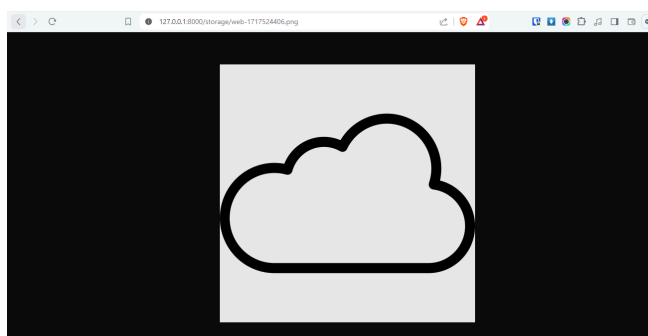
```

app > Http > Controllers > FileUploadController.php > ...
13
14 public function prosesFileUpload(Request $request)
15 {
16     $request->validate([
17         'berkas' => 'required|file|image|max:500',
18     ]);
19     $extfile = $request->berkas->getClientOriginalExtension();
20     $namaFile = 'web-' . time() . '.' . $extfile;
21     $path = $request->berkas->storeAs('public', $namaFile);
22
23     $pathBaru = asset('storage/' . $namaFile);
24     echo "Proses upload berhasil, file berada di " . $path;
25     echo "<br>";
26     echo "Tampilkan link:<a href='$pathBaru'$>$pathBaru</a>";
27 }

```

127.0.0.1:8000/file-upload

Proses upload berhasil, file berada di public/web-1717524406.png
 Tampilkan link:<http://127.0.0.1:8000/storage/web-1717524406.png>



F. Method Move

1. Modifikasi controller FileUploadController.php

```
app > Http > Controllers > FileUploadController.php > ...
13
14     public function prosesFileUpload(Request $request)
15     {
16         $request->validate([
17             'berkas' => 'required|file|image|max:500',
18         ]);
19         $extfile = $request->berkas->getClientOriginalExtension();
20         $namaFile = 'web-' . time() . '.' . $extfile;
21
22         $path = $request->berkas->move('gambar', $namaFile);
23         $path = str_replace("\\", "/", $path);
24         echo "Variabel path berisi: $path <br>";
25
26         $pathBaru = asset('gambar/' . $namaFile);
27         echo "Proses upload berhasil, file berada di " . $path;
28         echo "<br>";
29         echo "Tampilkan link:<a href='$pathBaru'$>$pathBaru</a>";
30     }
```

Variabel path berisi: gambar//web-1717524750.png

Proses upload berhasil, file berada di gambar//web-1717524750.png

Tampilkan link:<http://127.0.0.1:8000/gambar/web-1717524750.png>

Tugas

1. buat form file upload dimana kita bisa menentukan sendiri nama file akhir. Nama file ini diambil dari inputan text box yang juga ada di dalam form tersebut. Setelah di submit, langsung tampilkan file tersebut di web browser menggunakan tag .

```
app > Http > Controllers > FileUploadController.php > PHP Intelephense > FileUploadController > prosesFileUpload
7     class FileUploadController extends Controller
8     {
9         public function fileUpload()
10         {
11             return view('file-upload');
12         }
13
14         public function prosesFileUpload(Request $request)
15         {
16             $request->validate([
17                 'berkas' => 'required|file|image|max:500',
18                 'nama_berkas' => 'required|string',
19             ]);
20             $extfile = $request->berkas->getClientOriginalExtension();
21             // $namaFile = 'web-' . time() . '.' . $extfile;
22             $namaFile = $request->nama_berkas . '.' . $extfile;
23
24             $path = $request->berkas->move('gambar', $namaFile);
25             $path = str_replace("\\", "/", $path);
26             echo "Variabel path berisi: $path <br>";
27
28             // $pathBaru = asset('gambar/' . $namaFile);
29             $pathBaru = asset('gambar/' . $request->nama_berkas);
30             echo "Proses upload berhasil, file berada di " . $path;
31             echo "<br>";
32             // echo "Tampilkan link:<a href='$pathBaru'$>$pathBaru</a>";
33             echo "<img src='$pathBaru'$>";
34         }
35     }
```

```
resources > views > file-upload.blade.php > ...
16 <form action="{{ url('/file-upload') }}" method="POST" enctype="multipart/form-data">
17 @csrf
18 <div class="mb-3">
19 <label for="berkas" class="form-label">Gambar Profile</label>
20 <input type="text" class="form-control" id="nama_berkas" name="nama_berkas" placeholder="Isi Nama File">
21 <br>
```

< > ↻ 127.0.0.1:8000/file-upload

File Upload

Gambar Profile

meong

Choose File 30766a18-353f-4df5-8bb4-033bf9cfd893.jpeg

Upload

< > ↻ 127.0.0.1:8000/file-upload

Variabel path berisi: gambar/meong
Proses upload berhasil, file berada di gambar/meong



2. Tambahkan proses upload image dan application pada starter code

```
app > Http > Controllers > BarangController.php > ...
34
35 public function list(Request $request)
36 {
37     $barang = BarangModel::select('barang_id', 'barang_kode', 'barang_nama', 'harga_beli', 'harga_jual', 'kategori_id', 'image')
38     ->with('kategori');
```

app > Http > Controllers > BarangController.php > ...

```
78 public function store(Request $request)
79 {
80     // dd($request->all());
81     $request->validate([
82         'barang_kode' => 'required|string|min:3|unique:m_barang,barang_kode',
83         'barang_nama' => 'required|string|max:100',
84         'harga_beli' => 'required|integer',
85         'harga_jual' => 'required|integer',
86         'kategori_id' => 'required|integer',
87         'nama_foto' => 'required|string',
88         'image' => 'required|file|image|max:2048'
89     ]);
90
91     $extfile = $request->image->getClientOriginalExtension();
92     $namaFile = $request->nama_foto.'.'.$extfile;
93
94     $path = $request->image->move('foto', $namaFile);
95     $path = str_replace("\\", "/", $path);
96     $pathBaru = asset('foto/'.$namaFile);
97
98     BarangModel::create([
99         'barang_kode' => $request->barang_kode,
100        'barang_nama' => $request->barang_nama,
101        'harga_beli' => $request->harga_beli,
102        'harga_jual' => $request->harga_jual,
103        'kategori_id' => $request->kategori_id,
104        'image' => $pathBaru
105    ]);
```

app > Http > Controllers > BarangController.php > ...

```
158 public function update(Request $request, string $id)
159 {
160     $request->validate([
161         'barang_kode' => 'required|string|min:3|unique:m_barang,barang_kode,' . $id . ',barang_id',
162         'barang_nama' => 'required|string|max:100',
163         'harga_beli' => 'required|integer',
164         'harga_jual' => 'required|integer',
165         'kategori_id' => 'required|integer',
166         'image' => 'required|file|image|max:2048'
167     ]);
168
169     $extfile = $request->image->getClientOriginalExtension();
170     $namaFile = $request->nama_foto.'.'.$extfile;
171
172     $path = $request->image->move('foto', $namaFile);
173     $path = str_replace("\\", "/", $path);
174     $pathBaru = asset('foto/'.$namaFile);
175
176     BarangModel::find($id)->update([
177         'barang_kode' => $request->barang_kode,
178         'barang_nama' => $request->barang_nama,
179         'harga_beli' => $request->harga_beli,
180         'harga_jual' => $request->harga_jual,
181         'kategori_id' => $request->kategori_id,
182         'image' => $pathBaru
183     ]);
```

resources > views > layouts > template.blade.php > html > head > link

```
24 <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css" rel="stylesheet"
    integrity="sha384-QWTKZyjpPEjISv5WaRU90FeRpok6YctnYmDr5pNlyT2bRjXh0JMhY6hW+ALEwIH" crossorigin="anonymous">
25
```

resources > views > barang > create.blade.php > ...

```
66 <div class="form-group row">
67     <label for="image" class="col-1 control-label col-form-label">Foto Barang</label>
68     <div class="col-11">
69         <input type="text" class="form-control" id="nama_foto" name="nama_foto"
70             placeholder="Isi Nama Foto">
71         <input type="file" class="form-control mt-2" id="image" name="image">
72         @error('image')
73             <div class="text-danger"> {{ $message }} </div>
74         @enderror
75     </div>
76 </div>
```

```
resources > views > barang > edit.blade.php > ...
76         <div class="form-group row">
77             <label for="image" class="col-1 control-label col-form-label">Foto Barang</label>
78             <div class="col-11">
79                 <input type="file" class="form-control mt-2" id="image" name="image">
80                 @error('image')
81                     <div class="text-danger"> {{ $message }} </div>
82                 @enderror
83             </div>
84         </div>
```

```
resources > views > barang > show.blade.php > ...
42         <th>Gambar</th>
43         <td>
44             
45         </td>
46     </tr>
```

127.0.0.1:8000/barang/create

Tambah Barang

Home / Barang / Tambah

Tambah barang baru


Kategori	<input type="text" value="Minuman"/>
Barang Kode	<input type="text" value="MNM004"/>
Barang Nama	<input type="text" value="Floridina"/>
Harga Beli	<input type="text" value="2000"/>
Harga Jual	<input type="text" value="4000"/>
Foto Barang	<input type="text" value="floridina"/>
	<input type="button" value="Choose File"/> <input type="text" value="20043877_1.jpg"/>
<input type="button" value="Simpan"/> <input type="button" value="Kembali"/>	

127.0.0.1:8000/barang/35/

Detail Barang

Home / Barang / Detail

Detail barang

ID	35
Kategori	Minuman
Kode Barang	MNM004
Nama Barang	Floridina
Harga Beli	2000
Harga Jual	4000
Gambar	

Kembali