



BUKU KERJA PRAKTIK MAHASISWA (BKPM)

WORKSHOP SISTEM INFORMASI WEB FRAMEWORK
TIF140706
SEMESTER 4

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**PROGRAM STUDI D4 TEKNIK INFORMATIKA
JURUSAN TEKNOLOGI INFORMASI
POLITEKNIK NEGERI JEMBER
TAHUN 2022**

**KEMENTERIAN PENDIDIKAN, KEBUDAYAAN, RISET, DAN TEKNOLOGI
POLITEKNIK NEGERI JEMBER**

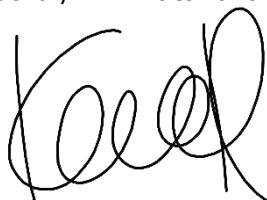
LEMBAR PENGESAHAN
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WORKSHOP SISTEM INFORMASI WEB FRAMEWORK
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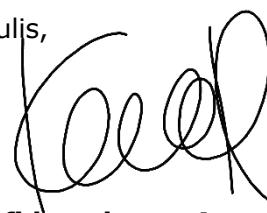
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KATA PENGANTAR

Puji Syukur kehadirat Tuhan Yang Maha Esa karena atas limpahan rahmat-Nya sehingga kami dapat menyelesaikan Rencana Pembelajaran Semester BKPM Workshop Sistem Informasi Web Framework. Matakuliah ini mengajarkan kepada mahasiswa tentang proses pengembangan aplikasi berbasis Web Framework dengan bahasa pemrograman PHP. Pemilihan Framework berbasis bahasa pemrograman PHP ini didasarkan pada masih tingginya penggunaan bahasa PHP untuk pengembangan WEB, sehingga lulusan diharapkan memiliki kemampuan bekerja di industri pengembangan aplikasi berbasis WEB. Matakuliah ini juga mengajarkan proses pengembangan dengan pendekatan OOP, proses pengembangan yang dimaksud didasarkan pada penggunaan aplikasi *version control*. *Version control* adalah sebuah sistem yang mencatat setiap perubahan terhadap sebuah berkas atau kumpulan berkas sehingga pada suatu saat anda dapat kembali kepada salah satu versi dari berkas tersebut. Tujuan akhir dari matakuliah ini adalah mahasiswa yang mampu bersaing dalam industri pengembangan aplikasi berbasis WEB. BKPM ini disusun berdasarkan metode Project Base Learning yaitu pendekatan pengajaran yang dibangun di atas kegiatan pembelajaran dan tugas nyata yang memberikan tantangan bagi peserta didik yang terkait dengan kehidupan sehari-hari untuk dipecahkan secara berkelompok Kami menyadari masih banyak kekurangan dalam penyusunan BKPM ini. Oleh karena itu, kami sangat mengharapkan kritik dan saran demi perbaikan dan kesempurnaan modul ini. Kami mengucapkan terima kasih kepada berbagai pihak yang telah membantu proses penyelesaian RPS ini. Semoga BKPM ini dapat bermanfaat bagi kita semua.

Jember, 15 November 2022

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**PENILAIAN PRAKTIK WORKSHOP SISTEM INFORMASI WEB
FRAMEWORK**

- Presensi Perkuliahan/Attitude
- Jumlah Commit Masing-Masing Contributor
- Melihat Kontrobusi dari Masing-Masing Anggota Kelompok
- Kesesuaian Perencaan dengan Produk Akhir
 - TIF140701 Literasi Digital
 - TIF140702 Kewirausahaan
 - TIF140703 Manajemen Kualitas Perangkat Lunak
 - TIF140704 Perawatan Perangkat Lunak
 - TIF140705 Pengujian Perangkat Lunak
 - TIF140707 Workshop Mobile Applications Framework
- Penilaian Demo Aplikasi di Akhir Semester
- Penguasaan Masing-Masing Anggota

**KELENGKAPAN PRAKTIK WORKSHOP SISTEM INFORMASI WEB
FRAMEWORK**

- GitHub Desktop
- Visual Studio Code (Disarankan), atau Bisa Menggunakan Aplikasi Sejenis
- XAMPP
- Composer
- FrameWork Laravel 6.*
- Rest API

ACARA 1. Instalasi Composer

Pokok Bahasan : Instalasi Composer

Acara Praktikum/Praktik : Minggu 1/1

Tempat : Daring/Luring Politeknik Negeri Jember

Alokasi Waktu : 100 menit

a. Capaian Pembelajaran Mata Kuliah (CPMK)

1. Mahasiswa mampu memahami dan mengimplementasikan instalasi Composer
2. Mahasiswa mampu memahami dan mengimplementasikan instalasi Laravel menggunakan Composer
3. Mahasiswa mampu memahami dan mengimplementasikan GitHub sebagai repositori
4. Mahasiswa mampu memahami dan mengimplementasikan aplikasi version control Git

b. Penilaian Bertahap BNSP (*Skill Passport*)

Nama Skema Sertifikasi: Pengembang Web/Web Developer (SKM-496-028)

No	Kode Unit	Nama Unit Kompetensi	Elemen Kompetensi
1	J.620100.001.01	Menganalisis Tools	<ul style="list-style-type: none">• Mengidentifikasi tools yang akan digunakan• Menggunakan tools perangkat lunak
2	J.620100.002.01	Menganalisis Skalabilitas Perangkat Lunak	<ul style="list-style-type: none">• Menggunakan tools perangkat lunak• Menganalisis kebutuhan skalabilitas

c. Indikator Penilaian

1. Mahasiswa memahami dan mengimplementasikan instalasi Composer
2. Mahasiswa memahami dan mengimplementasikan instalasi Laravel menggunakan Composer
3. Mahasiswa memahami dan mengimplementasikan GitHub sebagai repositori
4. Mahasiswa memahami dan mengimplementasikan aplikasi version control Git

d. Dasar Teori

Sebelum melakukan instalasi Laravel Anda harus menginstall Composer terlebih dahulu. Composer berfungsi untuk menghubungkan project aplikasi dengan library dari packagist.org. Packagist merupakan situs yang menyimpan banyak library PHP yang bisa digunakan melalui Composer.

Selain menghubungkan dengan Packagist, Composer punya banyak manfaat untuk Anda. Beberapa di antaranya adalah:

- Membuat programming dengan PHP jadi lebih terstruktur dengan konsep MVC.
- Composer punya fitur autoload sehingga Anda tidak perlu memasukkan semua class PHP yang dibutuhkan.
- Anda tidak perlu memasukkan package secara manual karena semua package sudah tersedia otomatis di Composer.

e. Alat dan Bahan

1. Client Server: Xampp
2. Text Editor: Visual Code/Sublime Text 3
3. Management Storage: Git dan Github
4. Tools Dependency Manager Multiplatform: Composer
5. Kertas A4 / Folio Bergaris
6. Pulpen

f. Prosedur Kerja

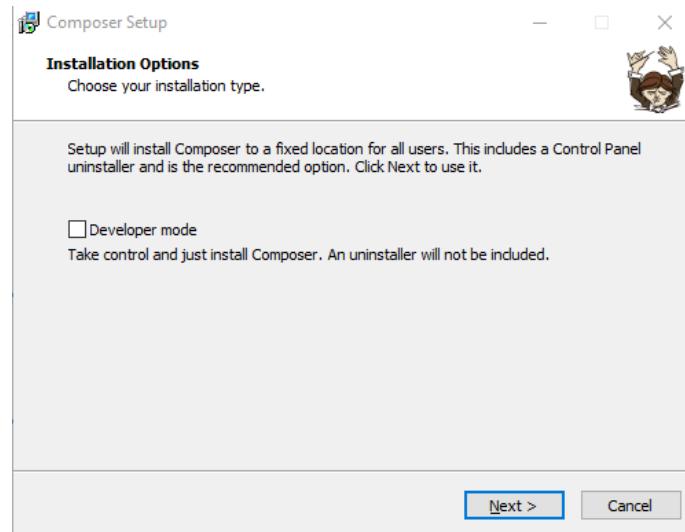
1. Download File Composer

Sebelum melakukan instalasi, hal pertama yang harus dilakukan adalah mengunduh file Composer. Buka link <https://getcomposer.org/> untuk mengunduh file tersebut.



2. Install Composer

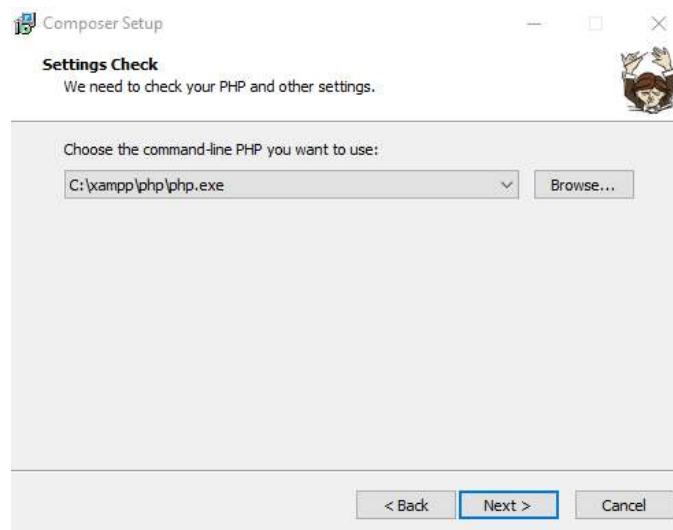
Pertama akan muncul halaman seperti pada gambar dibawah ini. Klik **Next** untuk melanjutkan ke proses instalasi.



3. Tentukan Lokasi File Instalasi

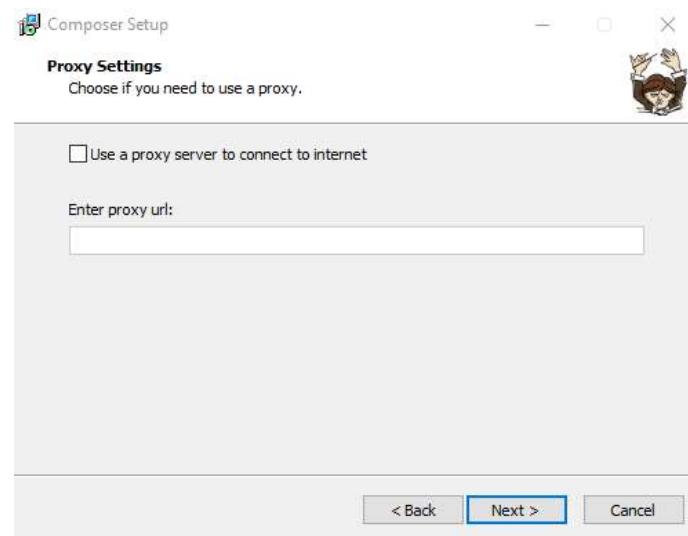
Selanjutnya Anda akan diminta untuk menentukan lokasi file php (php.exe) yang akan digunakan pada command line (PHP CLI- Command Line Interface).

File tersebut biasanya berada di dalam folder php. Jika Anda menggunakan XAMPP, lokasi file ini akan berada di C:\xampp\php. Pastikan pilih lokasi instalasi Composer berjalan di C:\xampp\php\php.exe. Klik Next apabila lokasi file php sudah benar.



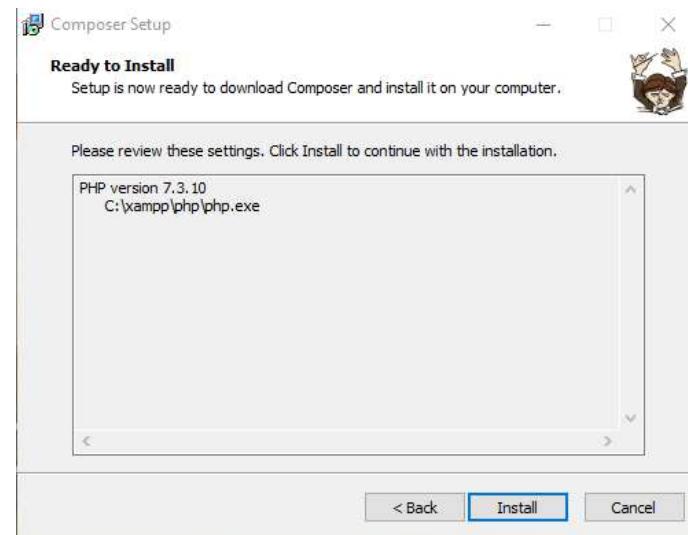
4. Pilih Penggunaan Proxy

Kemudian Anda akan diminta untuk memilih, apakah Anda akan menggunakan proxy atau tidak. Jika Anda ingin menggunakan proxy, klik centang dan masukkan URL proxy Anda. Apabila Anda tidak ingin menggunakan proxy, langsung klik Next untuk melanjutkan instalasi.



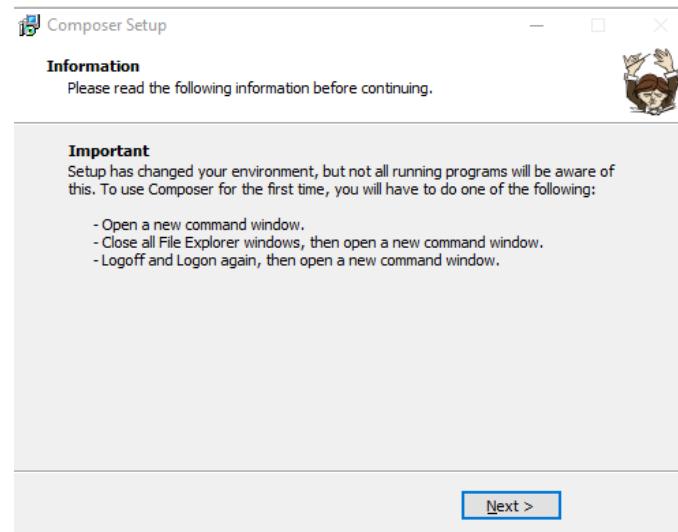
5. Review Lokasi Instalasi

Selanjutnya pastikan kalau proses instalasi berjalan di lokasi file yang seharusnya, yaitu C:\xampp\php\php.exe. Jika sudah benar, klik Install.



6. Review Perubahan Instalasi

Berikutnya adalah tampilan pemberitahuan bahwa telah terjadi perubahan pada Windows environment. Perubahan ini dimaksudkan agar Composer dapat dijalankan pada Command Prompt.



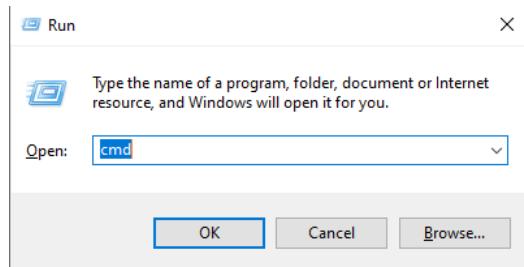
7. Instalasi Selesai

Proses instalasi selesai, klik **Finish** untuk menutup jendela instalasi Composer.



8. Cek Instalasi Composer

Setelah proses instalasi Composer selesai, langkah selanjutnya adalah cek instalasi Composer menggunakan Command Prompt. Caranya adalah Tekan Win+R lalu ketik cmd dan klik Ok.



Maka Anda akan diarahkan ke jendela Command Prompt masukkan perintah seperti dibawah ini untuk mengecek instalasi sukses atau tidak.

```
on C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Version 10.0.18362.418]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\dafit>composer

Composer version 1.9.0 2019-08-02 20:55:32

Usage:
  command [options] [arguments]

Options:
  -h, --help          Display this help message
  -q, --quiet         Do not output any message
  -V, --version       Display this application version
  --ansi             Force ANSI output
  --no-ansi          Disable ANSI output
  -n, --no-interaction  Do not ask any interactive question
  --profile          Display timing and memory usage information
  --no-plugins        Whether to disable plugins.
  -d, --working-dir=WORKING-DIR If specified, use the given directory as working directory.
  --no-cache          Prevent use of the cache
  -v|vv|vvv, --verbose Increase the verbosity of messages: 1 for normal output, 2 for more verbose output and
  3 for debug
```

Apabila muncul seperti gambar di atas, instalasi Anda berhasil.

g. Hasil dan Pembahasan

Format Laporan

Kertas A4

Kontakt Format *.pdf

Struktur Laporan: Cover, Pendahuluan, Hasil Praktik, Kesimpulan dan Daftar Pustaka

Berikan Identitas Diri: NIM, Nama, Golongan, Tugas Minggu Ke-X

Penamaan File: ACARA-X GOL NIM NAMA.pdf

**Contoh: **ACARA-1 A E1234356 KHAID.pdf

Kumpulkan pada <http://iti.polje.ac.id/elearning/>

h. Kesimpulan

BKPM - WORKSHOP SISTEM INFORMASI WEB FRAMEWORK

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4. Mahasiswa memahami dan mengimplementasikan aplikasi version control Git

i. Rubrik Penilaian

No	Indikator Penilaian	Nilai			
		1	2	3	4
1	Ketepatan waktu dan ketepatan Langkah kerja dalam mengerjakan				V
2	Ketepatan waktu dan Langkah kerja kurang tepat dalam mengerjakan			V	
3	Keterlambatan waktu dan Langkah kerja yang dilakukan kurang tepat		V		
4	Keterlambatan waktu pengumpulan dan Langkah kerja tidak seusai	V			
	Total Skor*	Skor x 25			

ACARA 2. Instalasi Laravel dengan Composer

Pokok Bahasan : Instalasi Laravel dengan Composer

Acara Praktikum/Praktik : Minggu 1/2

Tempat : Daring/Luring Politeknik Negeri Jember

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d. Dasar Teori

Laravel adalah framework yang akan membantu Anda memaksimalkan penggunaan PHP dalam proses pengembangan website. Lengkapnya package yang dimiliki Laravel akan membuat PHP menjadi lebih powerful, cepat, aman, dan mudah digunakan. Berikut ini adalah cara install Laravel dengan Composer di Windows, dalam penjelasan ini akan digunakan **Laravel 6**.

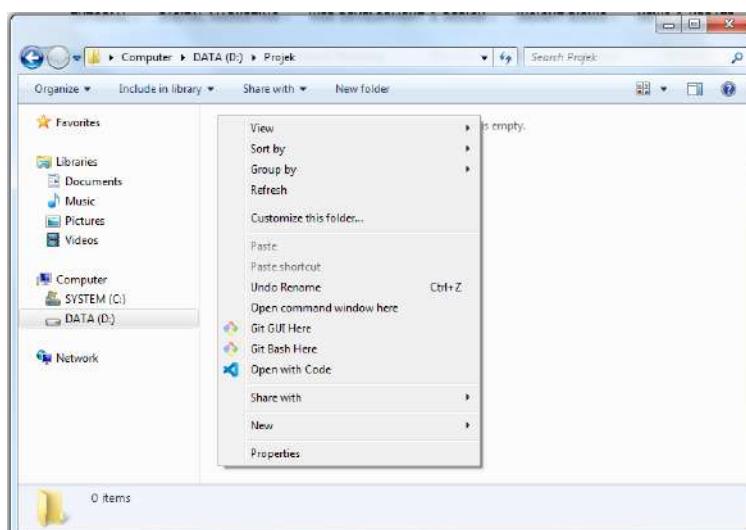
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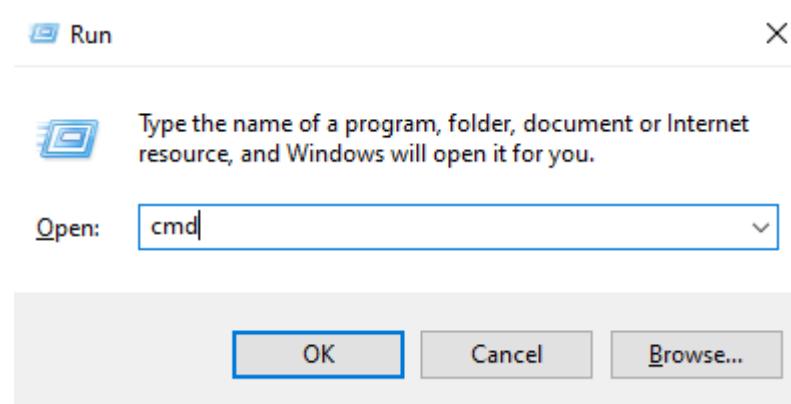
f. Prosedur Kerja

1. Masuk Command Prompt

Buat folder baru dengan nama Projek di Drive D, lalu buka folder tersebut. Tekan **Shift + Klik Kanan** untuk menampilkan menu command prompt. Klik **Open command window here**.



Atau masuk Command Prompt melalui **Run**. Caranya adalah klik **Win+R** lalu ketik **cmd** dan klik **OK**. Ubah direktori ke lokasi folder Projek.



cd D:/Projek

```
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\DJULIAR>D:
D:>>cd D:/Projek
D:\Projek>_
```

2. Mulai Proses Install Laravel

Selanjutnya jika sudah masuk direktori Projek, Anda harus membuat request untuk mengambil (serta menginstall) file Laravel yang telah disediakan dalam repositori Github. Gunakan perintah ini untuk melakukan request:

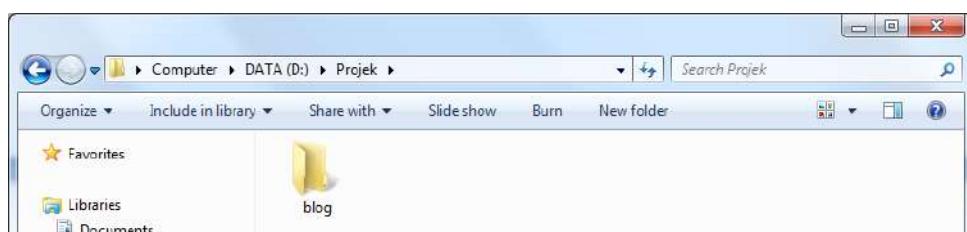
```
composer create-project --prefer-dist laravel/laravel nama_projectmu "6.*"
```

Jika perintah telah berhasil dimasukkan, Composer akan mulai melakukan proses pengambilan data serta instalasi Laravel ke dalam direktori yang telah Anda tentukan. Pastikan bahwa koneksi internet dalam keadaan stabil agar tidak terjadi gangguan pada saat proses pengambilan data Laravel.

```
C:\xampp\htdocs>composer create-project --prefer-dist laravel/laravel icrowdblog
Installing laravel/laravel (v6.2.0)
- Installing laravel/laravel (v6.2.0): Loading from cache
Created project in icrowdblog
> @php -r "file_exists('.env') || copy('.env.example', '.env');"
Loading composer repositories with package information
Updating dependencies (including require-dev)
Package operations: 84 installs, 0 updates, 0 removals
- Installing symfony/polyfill-ctype (v1.12.0): Downloading (100%)
- Installing phpoftion/phpoftion (1.5.0): Downloading (100%)
- Installing vlucas/phpdotenv (v3.6.0): Downloading (100%)
- Installing symfony/css-selector (v4.3.5): Downloading (100%)
- Installing tijsverkoyen/css-to-inline-styles (2.2.1): Downloading (100%)
- Installing symfony/polyfill-php72 (v1.12.0): Downloading (100%)
- Installing symfony/polyfill-mbstring (v1.12.0): Downloading (100%)
- Installing symfony/var-dumper (v4.3.5): Downloading (100%)
- Installing symfony/routing (v4.3.5): Downloading (100%)
- Installing symfony/process (v4.3.5): Downloading (100%)
- Installing symfony/polyfill-php73 (v1.12.0): Downloading (100%)
- Installing symfony/polyfill-intl-idn (v1.12.0): Downloading (100%)
```

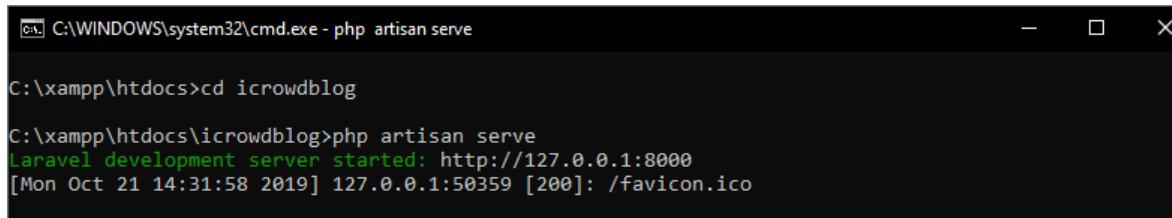
3. Cek Instalasi Laravel di Web Browser

Setelah proses download file Laravel selesai, nantinya akan ada folder baru pada direktori file server dengan nama sesuai nama project yang telah Anda tentukan sebelumnya pada folder Projek.



Untuk memastikan bahwa Laravel sukses terinstall dan siap untuk digunakan, arahkan Command Prompt atau Terminal menuju direktori yang telah Anda buat sebelumnya. Lalu, masukkan perintah berikut ke dalam Command Prompt atau Terminal:

php artisan serve



```
C:\WINDOWS\system32\cmd.exe - php artisan serve
C:\xampp\htdocs>cd icrowdblog
C:\xampp\htdocs\icrowdblog>php artisan serve
Laravel development server started: http://127.0.0.1:8000
[Mon Oct 21 14:31:58 2019] 127.0.0.1:50359 [200]: /favicon.ico
```

Jika muncul tulisan Laravel development server started pada Command Prompt atau Terminal, langkah selanjutnya adalah membuka link yang telah disediakan oleh Laravel. Secara default, Anda akan diarahkan menuju alamat server,yaitu 127.0.0.1:8000. Nantinya, akan muncul tampilan homepage dengan tulisan Laravel di bagian tengah seperti pada gambar di bawah ini:



Jika muncul seperti pada tampilan di atas, proses instalasi **Laravel** Anda telah berhasil.

g. Hasil dan Pembahasan

Format Laporan

Kertas A4

Format *.pdf

Struktur Laporan: Cover, Pendahuluan, Hasil Praktik, Kesimpulan dan Daftar Pustaka

Berikan Identitas Diri: NIM, Nama, Golongan, Tugas Minggu Ke-X

Penamaan File: ACARA-X_GOL_NIM_NAMA.pdf

**Contoh: **ACARA-1_A_E1234356_KHAFID.pdf

Kumpulkan pada <http://iti.polije.ac.id/elearning/>

h. Kesimpulan

1. Mahasiswa memahami dan mengimplementasikan instalasi Composer
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1	Ketepatan waktu dan ketepatan Langkah kerja dalam mengerjakan				V
2	Ketepatan waktu dan Langkah kerja kurang tepat dalam mengerjakan			V	
3	Keterlambatan waktu dan Langkah kerja yang dilakukan kurang tepat		V		
4	Keterlambatan waktu pengumpulan dan Langkah kerja tidak selesai	V			
		Total Skor*		Skor x 25	

ACARA 3. Membuat Akun Github

Pokok Bahasan : Membuat Akun Github

Acara Praktikum/Praktik : Minggu 1/3

Tempat : Daring/Luring Politeknik Negeri Jember

Alokasi Waktu : 100 menit

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3. Mahasiswa mampu memahami dan mengimplementasikan GitHub sebagai repositori
4. Mahasiswa mampu memahami dan mengimplementasikan aplikasi version control Git

b. Penilaian Bertahap BNSP (*Skill Passport*)

Nama Skema Sertifikasi: Pengembang Web/Web Developer (SKM-496-028)

No	Kode Unit	Nama Unit Kompetensi	Elemen Kompetensi
1	J.620100.003.01	Melakukan Identifikasi Library, Komponen atau Framework yang Diperlukan	<ul style="list-style-type: none">• Menganalisis library, komponen, atau framework yang sesuai dengan konteks• Membuat proof of concept library, komponen atau framework berdasarkan konteks kebutuhan• Merancang integrasi dan batasan penggunaan library, komponen atau framework
2	J.620100.006.01	Merancang User Experience	<ul style="list-style-type: none">• Menganalisis kebutuhan dan skenario penggunaan• Merancang layout tampilan dan skenario penggunaan

c. Indikator Penilaian

1. Mahasiswa memahami dan mengimplementasikan instalasi Composer
2. Mahasiswa memahami dan mengimplementasikan instalasi Laravel menggunakan Composer
3. Mahasiswa memahami dan mengimplementasikan GitHub sebagai repositori
4. Mahasiswa memahami dan mengimplementasikan aplikasi version control Git

d. Dasar Teori

Github merupakan salah satu aplikasi VCS (Version Control System) yang populer, yaitu git. Git yang akan saya bahas ini memerlukan server repository untuk menyimpan kode-kode program (berbagai versi), dan saya akan menggunakan server github sebagai tempat untuk menyimpan. Kenapa github? karena github adalah salah satu repository yang populer di kalangan developer, serta dapat digunakan secara gratis.

e. Alat dan Bahan

1. Client Server: Xampp
2. Text Editor: Visual Code/Sublime Text 3
3. Management Storage: Git dan Github
4. Tools Dependency Manager Multiplatform: Composer
5. Kertas A4 / Folio Bergaris
6. Pulpen

f. Prosedur Kerja

Sebelum kita dapat memulai penjelasan git ini, saya akan menuliskan cara membuat akun git di github. Silakan buka browser dan masukkan alamat github yang ber URL: <https://github.com>. Apabila berhasil, anda akan ditampilkan halaman depan github sebagai berikut:



klik tombol **Sign Up** untuk mendaftar akun ke github siapkan nama user yang akan anda daftarkan sebagai akun github anda seperti berikut ini:

Join GitHub

Create your account

Username *

Email address *

Password *

Make sure it's at least 13 characters. Or at least 8 characters including a number and a lowercase letter.

Learn more

Email preferences

Send me occasional product updates, announcements, and offers.

Verify your account

[Create account](#)

By creating an account, you agree to the [Terms of Service](#). For more information about GitHub's privacy practices, see the [GitHub Privacy Statement](#). We'll occasionally send you account-related emails.

masukkan username yang akan digunakan dan masukkan email yang aktif, kemudian masukkan password yang akan saya gunakan untuk login di github dan klik tombol Create Account. Setelah di klik anda akan diarahkan ke halaman selamat datang berikut:

The screenshot shows the GitHub welcome page. At the top, there's a navigation bar with links for 'Search or jump to...', 'Pull requests', 'Issues', 'Marketplace', and 'Explore'. Below the navigation, it says 'Selected plan: Free'. The main heading is 'Welcome to GitHub' with the subtext 'Woohoo! You've joined millions of developers who are doing their best work on GitHub. Tell us what you're interested in. We'll help you get there.' A section titled 'What kind of work do you do, mainly?' contains eight categories: 'Software Engineer' (I write code), 'Student' (I go to school), 'Product Manager' (I write spec), 'UX & Design' (I know interfaces), 'Data & Analytics' (I write queries), 'Marketing & Sales' (I knock at doors), 'Teacher' (I educate people), and 'Other' (I do my own thing). Another section titled 'How much programming experience do you have?' has two options: 'None' (I don't program at all) and 'A little' (I'm new to programming).

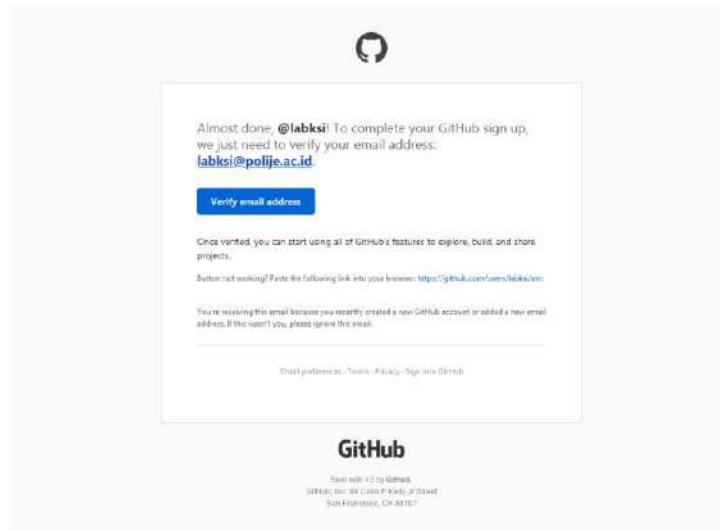
Pada halaman tersebut meminta anda untuk memilih rencana penggunaan repository di github, pilih pengaturan sesuai kebutuhan yang anda perlukan. Karena kita akan menggunakan repository ini untuk belajar di github, pilih **student** dan pilih pengaturan lain sesuai kebutuhan. kemudian saya klik **Complete setup** untuk melanjutkan

BKPM - WORKSHOP SISTEM INFORMASI WEB FRAMEWORK

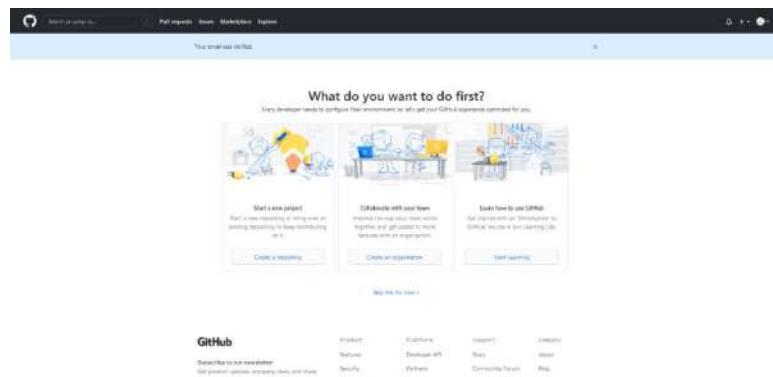
pembuatan akun github tersebut. Setelah di klik, maka akan diarahkan ke halaman berikut ini:



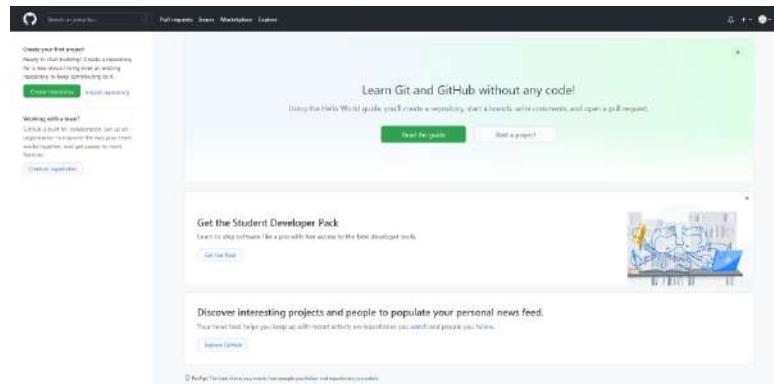
Buka akun email anda dan klik tombol Verify email address



Setelah akun github di verifikasi melalui link di email, kita akan diarahkan ke halaman awal berikut. Sampai pada halaman ini anda telah berhasil mendaftarkan akun github.



BKPM - WORKSHOP SISTEM INFORMASI WEB FRAMEWORK



g. Hasil dan Pembahasan

Format Laporan

Kertas A4

Format *.pdf

Struktur Laporan: Cover, Pendahuluan, Hasil Praktik, Kesimpulan dan Daftar Pustaka

Berikan Identitas Diri: NIM, Nama, Golongan, Tugas Minggu Ke-X

Penamaan File: ACARA-X_GOL_NIM_NAMA.pdf

**Contoh: **ACARA-1_A_E1234356_KHAFID.pdf

Kumpulkan pada <http://iti.polje.ac.id/elearning/>

h. Kesimpulan

1. Mahasiswa memahami dan mengimplementasikan instalasi Composer
2. Mahasiswa memahami dan mengimplementasikan instalasi Laravel menggunakan Composer
3. Mahasiswa memahami dan mengimplementasikan GitHub sebagai repositori
4. Mahasiswa memahami dan mengimplementasikan aplikasi version control Git

i. Rubrik Penilaian

No	Indikator Penilaian	Nilai			
		1	2	3	4
1	Ketepatan waktu dan ketepatan Langkah kerja dalam mengerjakan				V
2	Ketepatan waktu dan Langkah kerja kurang tepat dalam mengerjakan			V	
3	Keterlambatan waktu dan Langkah kerja yang dilakukan kurang tepat	V			
4	Keterlambatan waktu pengumpulan dan Langkah kerja tidak seusai	V			
		Total Skor*		Skor x 25	

ACARA 4. Membuat Repository dan Upload Projek Ke Github

Pokok Bahasan	: Membuat Repository dan Upload Projek Ke Github
Acara Praktikum/Praktik	: Minggu 1/4
Tempat	: Daring/Luring Politeknik Negeri Jember
Alokasi Waktu	: 100 menit

a. Capaian Pembelajaran Mata Kuliah (CPMK)

1. Mahasiswa mampu memahami dan mengimplementasikan instalasi Composer
2. Mahasiswa mampu memahami dan mengimplementasikan instalasi Laravel menggunakan Composer
3. Mahasiswa mampu memahami dan mengimplementasikan GitHub sebagai repositori
4. Mahasiswa mampu memahami dan mengimplementasikan aplikasi version control Git

b. Penilaian Bertahap BNSP (*Skill Passport*)

Nama Skema Sertifikasi: Pengembang Web/Web Developer (SKM-496-028)

No	Kode Unit	Nama Unit Kompetensi	Elemen Kompetensi
1	J.620100.003.01	Melakukan Identifikasi Library, Komponen atau Framework yang Diperlukan	<ul style="list-style-type: none">• Menganalisis library, komponen, atau framework yang sesuai dengan konteks• Membuat proof of concept library, komponen atau framework berdasarkan konteks kebutuhan• Merancang integrasi dan batasan penggunaan library, komponen atau framework
2	J.620100.006.01	Merancang User Experience	<ul style="list-style-type: none">• Menganalisis kebutuhan dan skenario penggunaan• Merancang layout tampilan dan skenario penggunaan

c. Indikator Penilaian

1. Mahasiswa memahami dan mengimplementasikan instalasi Composer
2. Mahasiswa memahami dan mengimplementasikan instalasi Laravel menggunakan Composer
3. Mahasiswa memahami dan mengimplementasikan GitHub sebagai repositori
4. Mahasiswa memahami dan mengimplementasikan aplikasi version control Git

d. Dasar Teori

Sebelum kita membuat repository di github lebih baiknya kita mengetahui perintah-perintah dasar github, yaitu :

- git init** : untuk membuat repositori lokal di dalam folder project.
- git clone** : meng-clone atau meng-copy projek dari repositori
- git status** : untuk menampilkan status pada repositori lokal.
- git add** : menambah file baru pada repositori yang dipilih.
- git commit** : menyimpan perubahan, dan setiap perubahan ini wajib memberikan keterangan pada setiap perubahan.
- git push** : mengirimkan perubahan file setelah di commit ke repositori.
- git pull** : mengambil file yang sudah di ubah dan di upload.
- git branch** : melihat branch yang tersedia pada repositori.
- git merge** : menggabungkan semua branch yang ada pada repositori.

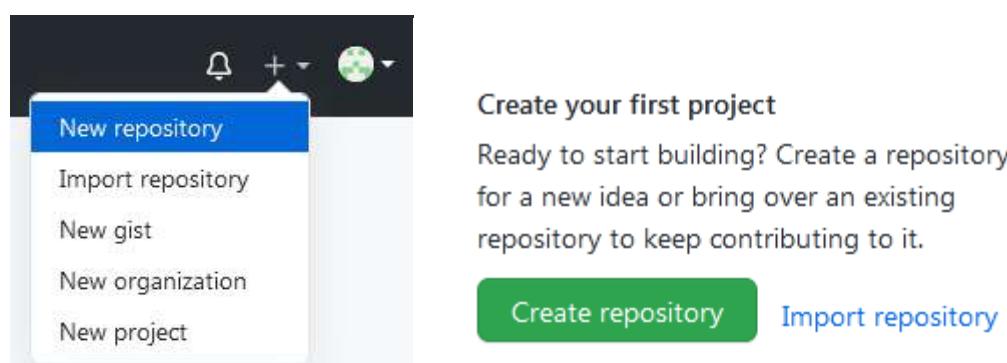
e. Alat dan Bahannya

1. Client Server: Xampp
2. Text Editor: Visual Code/Sublime Text 3
3. Management Storage: Git dan Github
4. Tools Dependency Manager Multiplatform: Composer
5. Kertas A4 / Folio Bergaris
6. Pulpen

f. Prosedur Kerja

Langkah - langkah membuat repository:

1. Login ke github.com dan buatlah sebuah repository baru dengan mengeklik tombol yang terletak pada kanan atas atau pada sidebar karena pertama kita membuat repository seperti gambar berikut:



2. Buat repository baru, misalnya dengan nama "produktif" kemudian klik tombol

[Create repository](#)

berikut tampilan Create a new repository :

A repository contains all project files, including the revision history. Already have a project repository elsewhere?
[Import a repository.](#)

Create a new repository

Owner * Repository name *

 labksi

/ produktif



Great repository names are short and memorable. Need inspiration? How about [legendary-guacamole](#)?

Description (optional)

Website Pameran Program Studi Teknik Informatika

 Public

Anyone on the internet can see this repository. You choose who can commit.

 Private

You choose who can see and commit to this repository.

Initialize this repository with:

Skip this step if you're importing an existing repository.

Add a README file

This is where you can write a long description for your project. [Learn more.](#)

Add .gitignore

Choose which files not to track from a list of templates. [Learn more.](#)

Choose a license

A license tells others what they can and can't do with your code. [Learn more.](#)

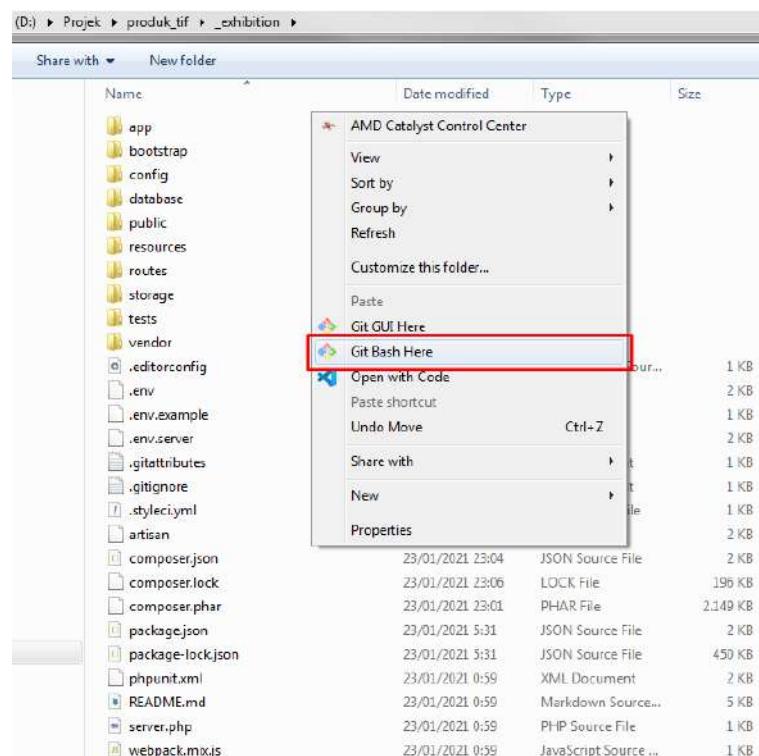
[Create repository](#)

3. Sekarang kita bisa mengakses remote repository dengan url

<https://github.com/labksi/produktif.git>

The screenshot shows a GitHub repository page for 'labksi/produktif'. The top navigation bar includes links for 'Pull requests', 'Issues', 'Marketplace', and 'Explore'. Below the header, there are tabs for 'Code', 'Issues', 'Pull requests', 'Actions', 'Projects', 'Wiki', 'Security', 'Insights', and 'Settings'. A search bar at the top left says 'Search or jump to...'. On the right, there are buttons for 'Unwatch', 'Star' (0), and 'Fork' (0). The main content area contains sections for 'Quick setup — if you've done this kind of thing before', '...or create a new repository on the command line', '...or push an existing repository from the command line', and '...or import code from another repository'. Each section provides a command-line example and a copy button.

4. Arahkan pada direktori tempat project akan diupload ke repository di Github.
5. Untuk pengguna Windows klik kanan folder project dan pilih Git Bash. Berikut gambarnya:



6. Jika baru pertama kali menggunakan software Git, sebaiknya konfigurasi username dan email dulu :

BKPM - WORKSHOP SISTEM INFORMASI WEB FRAMEWORK

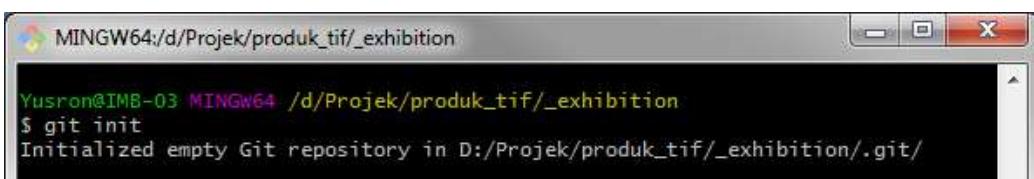
```
git config --global user.name "username anda"  
git config --global user.email "email anda"
```



A screenshot of a terminal window titled 'MINGW64:/d/Projek/produk_tif/_exhibition'. The window shows the command \$ git config --global user.name "labksi" followed by \$ git config --global user.email "labksi@polije.ac.id". The text is in green and yellow.

- Setelah melakukan konfigurasi username dan email, kemudian lakukan inisiasi dengan menulis perintah berikut

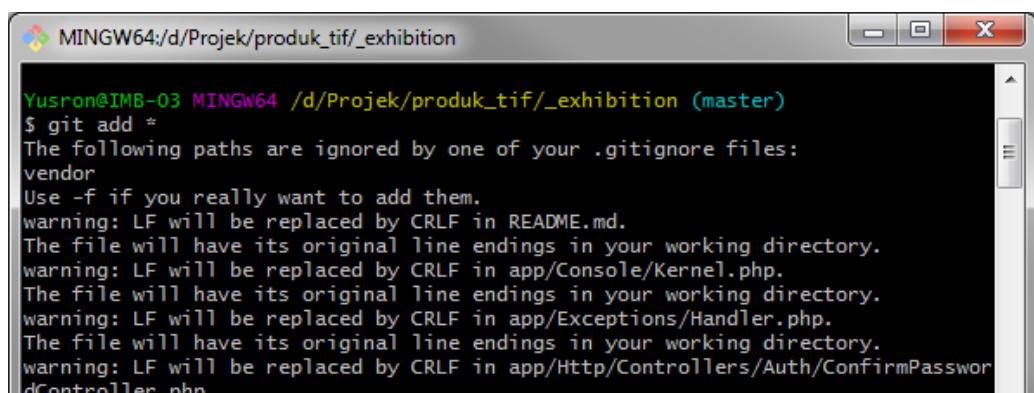
```
git init
```



A screenshot of a terminal window titled 'MINGW64:/d/Projek/produk_tif/_exhibition'. The window shows the command \$ git init followed by 'Initialized empty Git repository in D:/Projek/produk_tif/_exhibition/.git/'. The text is in green and yellow.

- Kemudian tambahkan semua file yang ada dalam folder project kita, ketikan

```
git add *
```



A screenshot of a terminal window titled 'MINGW64:/d/Projek/produk_tif/_exhibition'. The window shows the command \$ git add *. It lists several warnings about line endings being replaced by CRLF in various files like README.md, app\Console\Kernel.php, and app\Exceptions\Handler.php. The text is in green and yellow.

- Kemudian commit projectnya, sebagai contoh disini commit message "First Upload"

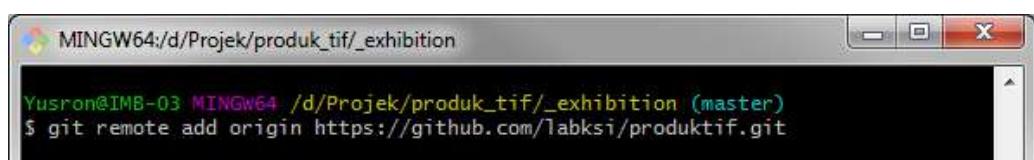
```
git commit -m "First Upload"
```



A screenshot of a terminal window titled 'MINGW64:/d/Projek/produk_tif/_exhibition'. The window shows the command \$ git commit -m "First Upload". The text is in green and yellow.

- Setelah kita buat commit untuk projectnya, remote repository yang telah dibuat tadi

```
git remote add origin https://github.com/labksi/produktif.git
```



A screenshot of a terminal window titled 'MINGW64:/d/Projek/produk_tif/_exhibition'. The window shows the command \$ git remote add origin https://github.com/labksi/produktif.git. The text is in green and yellow.

- Buatlah cabang repository master

```
git branch -M master
```



```
MINGW64:/d/Projek/produk_tif/_exhibition
Yusron@IMB-03 MINGW64 /d/Projek/produk_tif/_exhibition (master)
$ git branch -M master
```

12. Setelah meremote repository, kemudian kita pull projectnya dengan perintah

```
git pull origin master
```

13. Kirim project ke repository kita.

```
git push origin master
```

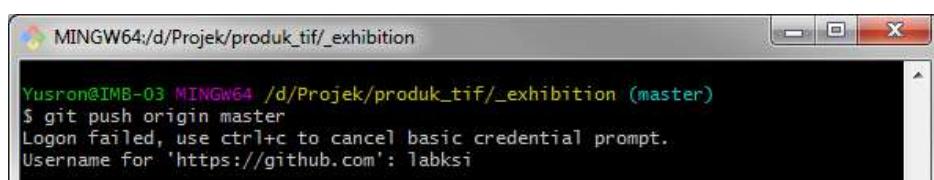


```
MINGW64:/d/Projek/produk_tif/_exhibition
Yusron@IMB-03 MINGW64 /d/Projek/produk_tif/_exhibition (master)
$ git push origin master
```

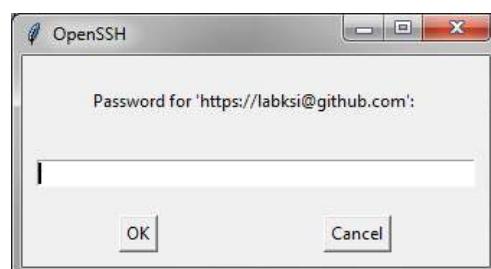
14. Terakhir, kita akan diminta username dan password kita. Untuk password mungkin kita tidak akan melihat password yang kita ketikan



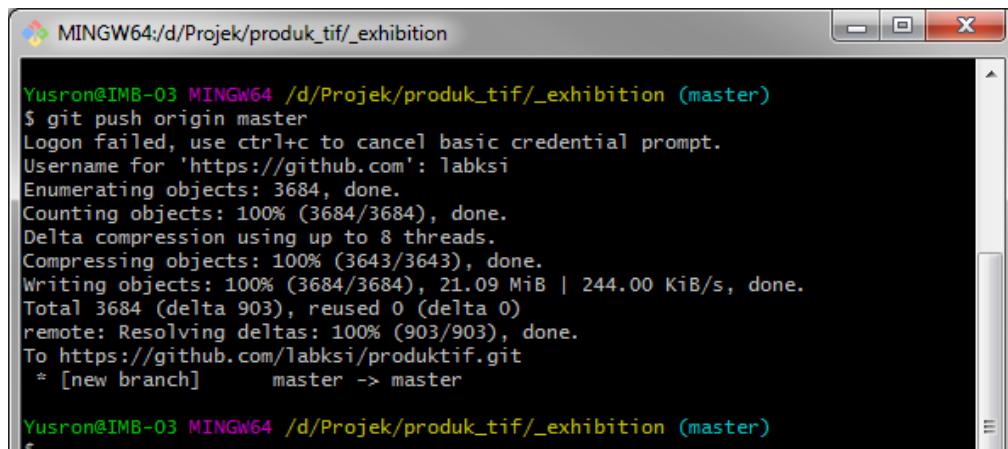
atau jika gagal login tampil seperti berikut :



```
MINGW64:/d/Projek/produk_tif/_exhibition
Yusron@IMB-03 MINGW64 /d/Projek/produk_tif/_exhibition (master)
$ git push origin master
Logon failed, use ctrl+c to cancel basic credential prompt.
Username for 'https://github.com': labksi
```



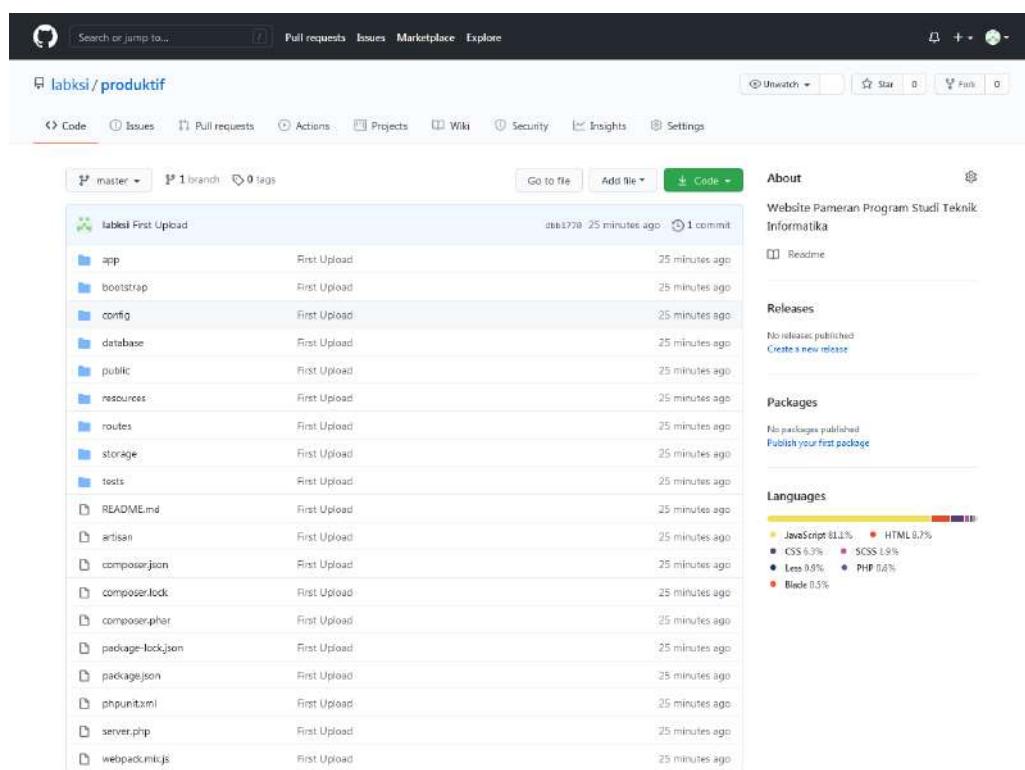
15. Tunggu sampai project selesai di upload



```
MINGW64:/d/Projek/produk_tif/_exhibition
Yusron@IMB-03 MINGW64 /d/Projek/produk_tif/_exhibition (master)
$ git push origin master
Logon failed, use ctrl+c to cancel basic credential prompt.
Username for 'https://github.com': labksi
Enumerating objects: 3684, done.
Counting objects: 100% (3684/3684), done.
Delta compression using up to 8 threads.
Compressing objects: 100% (3643/3643), done.
Writing objects: 100% (3684/3684), 21.09 MiB | 244.00 KiB/s, done.
Total 3684 (delta 903), reused 0 (delta 0)
remote: Resolving deltas: 100% (903/903), done.
To https://github.com/labksi/produktif.git
 * [new branch]      master -> master

Yusron@IMB-03 MINGW64 /d/Projek/produk_tif/_exhibition (master)
```

16. Jika proses upload selesai, cek pada Github lalu refresh repository, maka file kita sudah terupload disana



The screenshot shows a GitHub repository page for 'labksi/produktif'. The repository has 1 branch and 0 tags. The 'Code' tab is selected, showing a list of files under the 'master' branch. All files were uploaded 25 minutes ago. The files listed include: app, bootstrap, config, database, public, resources, routes, storage, tests, README.md, artisan, composer.json, composer.lock, composer.php, package-lock.json, package.json, phpunit.xml, server.php, and webpack.mix.js.

g. Hasil dan Pembahasan

Format Laporan

Kertas A4

Format *.pdf

Struktur Laporan: Cover, Pendahuluan, Hasil Praktik, Kesimpulan dan Daftar Pustaka

Berikan Identitas Diri: NIM, Nama, Golongan, Tugas Minggu Ke-X

Penamaan File: ACARA-X_GOL_NIM_NAMA.pdf

**Contoh: **ACARA-1_A_E1234356_KHAFID.pdf

Kumpulkan pada <http://iti.polije.ac.id/elearning/>

h. Kesimpulan

1. Mahasiswa memahami dan mengimplementasikan instalasi Composer
2. Mahasiswa memahami dan mengimplementasikan instalasi Laravel menggunakan Composer
3. Mahasiswa memahami dan mengimplementasikan GitHub sebagai repositori
4. Mahasiswa memahami dan mengimplementasikan aplikasi version control Git

i. Rubrik Penilaian

No	Indikator Penilaian	Nilai			
		1	2	3	4
1	Ketepatan waktu dan ketepatan Langkah kerja dalam mengerjakan				V
2	Ketepatan waktu dan Langkah kerja kurang tepat dalam mengerjakan			V	
3	Keterlambatan waktu dan Langkah kerja yang dilakukan kurang tepat		V		
4	Keterlambatan waktu pengumpulan dan Langkah kerja tidak selesai	V			
		Total Skor*		Skor x 25	

ACARA 5. Dasar Routing

Pokok Bahasan	: Dasar Routing
Acara Praktikum/Praktik	: Minggu 2/1
Tempat	: Daring/Luring Politeknik Negeri Jember
Alokasi Waktu	: 100 menit

a. Capaian Pembelajaran Mata Kuliah (CPMK)

1. Mahasiswa mampu memahami dan mengimplementasikan dasar Routing
2. Mahasiswa mampu memahami dan mengimplementasikan dasar Routing Parameter
3. Mahasiswa mampu memahami dan mengimplementasikan Named Routing
4. Mahasiswa mampu memahami dan mengimplementasikan Named Routing
5. Mahasiswa mampu memahami dan mengimplementasikan Group Routing

b. Penilaian Bertahap BNSP (*Skill Passport*)

Nama Skema Sertifikasi: Pengembang Web/Web Developer (SKM-496-028)

No	Kode Unit	Nama Unit Kompetensi	Elemen Kompetensi
1	J.620100.003.01	Melakukan Identifikasi Library, Komponen atau Framework yang Diperlukan	<ul style="list-style-type: none">• Menganalisis library, komponen, atau framework yang sesuai dengan konteks• Membuat proof of concept library, komponen atau framework berdasarkan konteks kebutuhan• Merancang integrasi dan batasan penggunaan library, komponen atau framework
2	J.620100.006.01	Merancang User Experience	<ul style="list-style-type: none">• Menganalisis kebutuhan dan skenario penggunaan• Merancang layout tampilan dan skenario penggunaan

c. Indikator Penilaian

1. Mahasiswa memahami dan mengimplementasikan dasar Routing
2. Mahasiswa memahami dan mengimplementasikan dasar Routing Parameter
3. Mahasiswa memahami dan mengimplementasikan Named Routing
4. Mahasiswa memahami dan mengimplementasikan Named Routing
5. Mahasiswa memahami dan mengimplementasikan Group Routing

d. Dasar Teori

Secara dasar Route Laravel adalah metode yang sangat sederhana dan ekspresif untuk menentukan rute dari URI dan Closure contoh rute dasar :

```
Route::get('foo', function () {
    return 'Hello World';
});
```

e. Alat dan Bahan

1. Client Server: Xampp
2. Text Editor: Visual Code/Sublime Text 3
3. Management Storage: Git dan Github
4. Tools Dependency Manager Multiplatform: Composer
5. Kertas A4 / Folio Bergaris
6. Pulpen

f. Prosedur Kerja

1. File Route Default

Route Laravel terletak di dalam file yang terletak pada folder atau direktori routes. File-file ini secara otomatis ada pada struktur direktori framework Laravel. File routes/web.php mendefinisikan rute untuk antarmuka web yang kita develop. Rute ini dikelompokkan di web middleware, yang menyediakan fitur seperti status session dan CSRF protection. Sedangkan routes/api.php dikelompokkan ke api middleware.

Dalam menentukan rute di file routes/web.php. Misalnya, kita akan mengakses URL berikut <http://127.0.0.0:8000/user> di browser, route yang harus dituliskan yaitu :

```
Route::get('/user', 'UserController@index');
```

Sedangkan dalam file routes/api.php, prefix /api secara otomatis diterapkan dalam URL sehingga kita tidak perlu menerapkannya secara manual ke setiap rute di file routes/api.php. Kita dapat mengubah prefix dan option lainnya dengan mengubahnya di file RouteServiceProvider Class.

Pada Laravel terbaru, default route tersebut adalah :

```
Route::get('/user', [UserController::class, 'index']);
```

2. Metode Router yang Tersedia

Router memungkinkan Kita mendaftarkan rute yang merespons kata kerja HTTP apa pun:

```
Route::get($uri, $callback);
Route::post($uri, $callback);
Route::put($uri, $callback);
Route::patch($uri, $callback);
Route::delete($uri, $callback);
Route::options($uri, $callback);
```

Kadang kali kita menulis route yang akan merespons dengan beberapa kata kerja HTTP. Kita dapat menggunakan metode match. Atau, kita dapat mendaftarkan route yang merespons semua kata kerja HTTP menggunakan metode any :

```
Route::match(['get', 'post'], '/', function () {
    //
});

Route::any('/', function () {
    //
});
```

3. CSRF Protection

Setiap form HTML dengan metode route POST, PUT atau DELETE yang ditentukan dalam route file web harus menyertakan CSRF token field. Jika tidak, request akan ditolak.

```
<form method="POST" action="/profile">
    @csrf
    ...
</form>
```

4. Redirect Route

Jika kita menentukan route yang mengalihkan ke URL lain, Kita dapat menggunakan metode Route::redirect. Metode ini menyediakan shortcut yang mudah sehingga kita tidak perlu menentukan route secara lengkap atau menjadi pengontrol untuk melakukan pengalihan sederhana:

```
Route::redirect('/here', '/there');
```

Secara default, Route::redirect memberikan feedback code status 302. Kita dapat menyesuaikan kode status menggunakan parameter opsional ketiga :

```
Route::redirect('/here', '/there', 301);
```

Kita dapat menggunakan metode Route::permanentRedirect untuk memberikan feedback code status 301 :

```
Route::permanentRedirect('/here', '/there');
```

5. Route View

Jika route yang kita buat akan memberikan return sebuah view, Kita dapat menggunakan metode Route::view. Pada argument kedua kita bisa masukkan nama file viewnya dan argument ke tiga kita isi dengan data yang bisa berupa variable dan array :

```
Route::view('/welcome', 'welcome');

Route::view('/welcome', 'welcome', ['name' => 'Taylor']);
```

g. Hasil dan Pembahasan

Format Laporan

Kertas A4

Format *.pdf

Struktur Laporan: Cover, Pendahuluan, Hasil Praktik, Kesimpulan dan Daftar Pustaka

Berikan Identitas Diri: NIM, Nama, Golongan, Tugas Minggu Ke-X

Penamaan File: ACARA-X_GOL_NIM_NAMA.pdf

**Contoh: **ACARA-1_A_E1234356_KHAFID.pdf

Kumpulkan pada <http://jti.polije.ac.id/elearning/>

h. Kesimpulan

1. Mahasiswa memahami dan mengimplementasikan dasar Routing
2. Mahasiswa memahami dan mengimplementasikan dasar Routing Parameter
3. Mahasiswa memahami dan mengimplementasikan Named Routing
4. Mahasiswa memahami dan mengimplementasikan Named Routing
5. Mahasiswa memahami dan mengimplementasikan Group Routing

i. Rubrik Penilaian

BKPM - WORKSHOP SISTEM INFORMASI WEB FRAMEWORK

No	Indikator Penilaian	Nilai			
		1	2	3	4
1	Ketepatan waktu dan ketepatan Langkah kerja dalam mengerjakan				V
2	Ketepatan waktu dan Langkah kerja kurang tepat dalam mengerjakan			V	
3	Keterlambatan waktu dan Langkah kerja yang dilakukan kurang tepat		V		
4	Keterlambatan waktu pengumpulan dan Langkah kerja tidak seusai	V			
	Total Skor*	Skor x 25			

ACARA 6. Route Parameter**Pokok Bahasan : Route Parameter****Acara Praktikum/Praktik : Minggu 2/2****Tempat : Daring/Luring Politeknik Negeri Jember****Alokasi Waktu : 100 menit****a. Capaian Pembelajaran Mata Kuliah (CPMK)**

1. Mahasiswa mampu memahami dan mengimplementasikan dasar Routing
2. Mahasiswa mampu memahami dan mengimplementasikan dasar Routing Parameter
3. Mahasiswa mampu memahami dan mengimplementasikan Named Routing
4. Mahasiswa mampu memahami dan mengimplementasikan Named Routing
5. Mahasiswa mampu memahami dan mengimplementasikan Group Routing

b. Penilaian Bertahap BNSP (*Skill Passport*)

Nama Skema Sertifikasi: Pengembang Web/Web Developer (SKM-496-028)

No	Kode Unit	Nama Unit Kompetensi	Elemen Kompetensi
1	J.620100.017.02	Mengimplementasikan Pemrograman Terstruktur	<ul style="list-style-type: none">• Menggunakan tipe data dan control program• Membuat program untuk akses file• Membuat program untuk akses file
2	J.620100.018.02	Mengimplementasikan Pemrograman Berorientasi Objek	<ul style="list-style-type: none">• Membuat program berorientasi objek dengan memanfaatkan class• Menggunakan tipe data dan control program pada metode atau operasi dari suatu kelas• Membuat program dengan konsep berbasis objek• Membuat program object oriented dengan interface dan paket• Mengkompilasi Program

c. Indikator Penilaian

1. Mahasiswa memahami dan mengimplementasikan dasar Routing
2. Mahasiswa memahami dan mengimplementasikan dasar Routing Parameter
3. Mahasiswa memahami dan mengimplementasikan Named Routing
4. Mahasiswa memahami dan mengimplementasikan Named Routing
5. Mahasiswa memahami dan mengimplementasikan Group Routing

d. Dasar Teori

Suatu ketika, kita perlu mendapatkan segmen dari URI dalam rute kita. Misalnya, kita mungkin perlu mengambil ID pengguna dari URL. Kita dapat melakukannya parameter pada route :

```
Route::get('user/{id}', function ($id) {  
    return 'User ' . $id;  
});
```

Kita dapat menentukan parameter route sebanyak yang diperlukan seperti :

```
Route::get('posts/{post}/comments/{comment}', function ($postId, $commentId) {  
    //  
});
```

Route parameter selalu terbungkus dalam tanda {} kurung kurawal dan harus terdiri dari karakter alfabet, dan tidak boleh berisi karakter -. Gunakan underscore / garis bawah (_) sebagai pemisah kata.

e. Alat dan Bahan

1. Client Server: Xampp
2. Text Editor: Visual Code/Sublime Text 3
3. Management Storage: Git dan Github
4. Tools Dependency Manager Multiplatform: Composer
5. Kertas A4 / Folio Bergaris
6. Pulpen

f. Prosedur Kerja

1. Parameter Opsional

Terkadang kita mungkin perlu menentukan route parameter, tetapi menjadikan keberadaan route parameter itu opsional atau bisa jadi tidak digunakan. Kita dapat melakukannya dengan memberi tanda ? setelah nama parameter. Pastikan untuk memberikan nilai default pada variabel rute yang sesuai:

```
Route::get('user/{name?}', function ($name = null) {
    return $name;
});

Route::get('user/{name?}', function ($name = 'John') {
    return $name;
});
```

2. Regular Expression Constraints

Kita dapat membatasi format parameter rute kita menggunakan metode where pada route instance. Metode where menerima nama parameter dan ekspresi reguler mendefinisikan bagaimana parameter harus dibatasi:

```
Route::get('user/{name}', function ($name) {
    //
})->where('name', '[A-Za-z]+');

Route::get('user/{id}', function ($id) {
    //
})->where('id', '[0-9]+');

Route::get('user/{id}/{name}', function ($id, $name) {
    //
})->where(['id' => '[0-9]+', 'name' => '[a-z]+']);
```

3. Global Constraints

Jika kita ingin route parameter selalu dibatasi oleh reguler expression tertentu, Kita dapat menggunakan metode pattern. Kita harus menentukan pola-pola ini dalam metode boot di RouteServiceProvider:

```
/**
 * Define your route model bindings, pattern filters, etc.
 *
 * @return void
 */
public function boot()
{
    Route::pattern('id', '[0-9]+');

    parent::boot();
}
```

Setelah pola ditentukan, secara otomatis akan diterapkan ke semua route menggunakan nama parameter itu:

```
Route::get('user/{id}', function ($id) {
    // Only executed if {id} is numeric...
});
```

4. Encoded Forward Slashes

Komponen pada routing Laravel memungkinkan semua karakter bisa dimasukkan kecuali /. Secara eksplisit mengizinkan / untuk menjadi bagian dari placeholder kita menggunakan kondisi expression reguler where:

```
Route::get('search/{search}', function ($search) {
    return $search;
})->where('search', '.+');
```

g. Hasil dan Pembahasan

Format Laporan

Kertas A4

Format *.pdf

Struktur Laporan: Cover, Pendahuluan, Hasil Praktik, Kesimpulan dan Daftar Pustaka

Berikan Identitas Diri: NIM, Nama, Golongan, Tugas Minggu Ke-X

Penamaan File: ACARA-X_GOL_NIM_NAMA.pdf

**Contoh: **ACARA-1_A_E1234356_KHAFID.pdf

Kumpulkan pada <http://iti.polije.ac.id/elearning/>

h. Kesimpulan

1. Mahasiswa memahami dan mengimplementasikan dasar Routing
2. Mahasiswa memahami dan mengimplementasikan dasar Routing Parameter
3. Mahasiswa memahami dan mengimplementasikan Named Routing
4. Mahasiswa memahami dan mengimplementasikan Named Routing
5. Mahasiswa memahami dan mengimplementasikan Group Routing

i. Rubrik Penilaian

No	Indikator Penilaian	Nilai			
		1	2	3	4
1	Ketepatan waktu dan ketepatan Langkah kerja dalam mengerjakan				V
2	Ketepatan waktu dan Langkah kerja kurang tepat dalam mengerjakan			V	
3	Keterlambatan waktu dan Langkah kerja yang dilakukan kurang tepat	V			
4	Keterlambatan waktu pengumpulan dan Langkah kerja tidak selesai	V			
	Total Skor*	Skor x 25			

ACARA 7. Named Route / Route Bernama**Pokok Bahasan : Named Route / Route Bernama****Acara Praktikum/Praktik : Minggu 2/3****Tempat : Daring/Luring Politeknik Negeri Jember****Alokasi Waktu : 100 menit****a. Capaian Pembelajaran Mata Kuliah (CPMK)**

1. Mahasiswa mampu memahami dan mengimplementasikan dasar Routing
2. Mahasiswa mampu memahami dan mengimplementasikan dasar Routing Parameter
3. Mahasiswa mampu memahami dan mengimplementasikan Named Routing
4. Mahasiswa mampu memahami dan mengimplementasikan Named Routing
5. Mahasiswa mampu memahami dan mengimplementasikan Group Routing

b. Penilaian Bertahap BNSP (*Skill Passport*)

Nama Skema Sertifikasi: Pengembang Web/Web Developer (SKM-496-028)

No	Kode Unit	Nama Unit Kompetensi	Elemen Kompetensi
1	J.620100.017.02	Mengimplementasikan Pemrograman Terstruktur	<ul style="list-style-type: none">• Menggunakan tipe data dan control program• Membuat program untuk akses file• Membuat program untuk akses file
2	J.620100.018.02	Mengimplementasikan Pemrograman Berorientasi Objek	<ul style="list-style-type: none">• Membuat program berorientasi objek dengan memanfaatkan class• Menggunakan tipe data dan control program pada metode atau operasi dari suatu kelas• Membuat program dengan konsep berbasis objek• Membuat program object oriented dengan interface dan paket• Mengkompilasi Program

c. Indikator Penilaian

1. Mahasiswa memahami dan mengimplementasikan dasar Routing
2. Mahasiswa memahami dan mengimplementasikan dasar Routing Parameter

3. Mahasiswa memahami dan mengimplementasikan Named Routing
4. Mahasiswa memahami dan mengimplementasikan Named Routing
5. Mahasiswa memahami dan mengimplementasikan Group Routing

d. Dasar Teori

Route bernama memungkinkan pembuatan URL atau pengalihan yang mudah untuk route tertentu. Anda dapat menentukan nama untuk route dengan merangkai metode name ke definisi route:

```
Route::get('user/profile', function () {  
    //  
});->name('profile');
```

Anda juga dapat menentukan nama route untuk controller:

```
Route::get('user/profile', 'UserProfileController@show')->name('profile');
```

Pada Laravel terbaru, penggunaan tanda “/” sebelum user/profile diharuskan untuk ditulis

e. Alat dan Bahan

1. Client Server: Xampp
2. Text Editor: Visual Code/Sublime Text 3
3. Management Storage: Git dan Github
4. Tools Dependency Manager Multiplatform: Composer
5. Kertas A4 / Folio Bergaris
6. Pulpen

f. Prosedur Kerja

1. Generate URL ke Route Bernama

Setelah Anda menetapkan nama untuk route tertentu, Kita dapat menggunakan nama route tersebut saat membuat URL atau redirect URL melalui global fungsi route:

```
// Generating URLs...
$url = route('profile');

// Generating Redirects...
return redirect()->route('profile');
```

Pada Laravel terbaru, penggunaan tanda “/” sebelum user/id/profile diharuskan untuk ditulis

Jika route bernama terdapat sebuah parameter, kita dapat menggunakan parameter sebagai argumen kedua ke fungsi route tersebut. Parameter yang diberikan secara otomatis akan dimasukkan ke dalam URL pada posisi yang benar:

```
Route::get('user/{id}/profile', function ($id) {
    //
})->name('profile');

$url = route('profile', ['id' => 1]);
```

Jika kita menggunakan parameter tambahan dalam array, key / value tersebut secara otomatis akan ditambahkan ke string kueri URL yang dihasilkan:

```
Route::get('user/{id}/profile', function ($id) {
    //
})->name('profile');

$url = route('profile', ['id' => 1, 'photos' => 'yes']);

// /user/1/profile?photos=yes
```

2. Memeriksa Rute Saat Ini

Jika kita ingin menentukan apakah permintaan saat ini dirutekan ke route bernama tertentu, kita dapat menggunakan metode named pada Route instance. Misalnya, kita dapat memeriksa nama rute saat ini dari route middleware:

```
/**
 * Handle an incoming request.
 *
 * @param \Illuminate\Http\Request $request
 * @param \Closure $next
 * @return mixed
 */
public function handle($request, Closure $next)
{
    if ($request->route()->named('profile')) {
        //
    }

    return $next($request);
}
```

g. Hasil dan Pembahasan

Format Laporan

Kertas A4

Format *.pdf

Struktur Laporan: Cover, Pendahuluan, Hasil Praktik, Kesimpulan dan Daftar Pustaka

Berikan Identitas Diri: NIM, Nama, Golongan, Tugas Minggu Ke-X

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h. Kesimpulan

1. Mahasiswa memahami dan mengimplementasikan dasar Routing
2. Mahasiswa memahami dan mengimplementasikan dasar Routing Parameter
3. Mahasiswa memahami dan mengimplementasikan Named Routing
4. Mahasiswa memahami dan mengimplementasikan Named Routing
5. Mahasiswa memahami dan mengimplementasikan Group Routing

i. Rubrik Penilaian

No	Indikator Penilaian	Nilai			
		1	2	3	4
1	Ketepatan waktu dan ketepatan Langkah kerja dalam mengerjakan				V
2	Ketepatan waktu dan Langkah kerja kurang tepat dalam mengerjakan			V	
3	Keterlambatan waktu dan Langkah kerja yang dilakukan kurang tepat		V		
4	Keterlambatan waktu pengumpulan dan Langkah kerja tidak selesai	V			
		Total Skor*		Skor x 25	

ACARA 8. Group Routing**Pokok Bahasan : Group Routing****Acara Praktikum/Praktik : Minggu 2/4****Tempat : Daring/Luring Politeknik Negeri Jember****Alokasi Waktu : 100 menit****a. Capaian Pembelajaran Mata Kuliah (CPMK)**

1. Mahasiswa mampu memahami dan mengimplementasikan dasar Routing
2. Mahasiswa mampu memahami dan mengimplementasikan dasar Routing Parameter
3. Mahasiswa mampu memahami dan mengimplementasikan Named Routing
4. Mahasiswa mampu memahami dan mengimplementasikan Named Routing
5. Mahasiswa mampu memahami dan mengimplementasikan Group Routing

b. Penilaian Bertahap BNSP (Skill Passport)

Nama Skema Sertifikasi: Pengembang Web/Web Developer (SKM-496-028)

No	Kode Unit	Nama Unit Kompetensi	Elemen Kompetensi
1	J.620100.017.02	Mengimplementasikan Pemrograman Terstruktur	<ul style="list-style-type: none">• Menggunakan tipe data dan control program• Membuat program untuk akses file• Membuat program untuk akses file
2	J.620100.018.02	Mengimplementasikan Pemrograman Berorientasi Objek	<ul style="list-style-type: none">• Membuat program berorientasi objek dengan memanfaatkan class• Menggunakan tipe data dan control program pada metode atau operasi dari suatu kelas• Membuat program dengan konsep berbasis objek• Membuat program object oriented dengan interface dan paket• Mengkompilasi Program

c. Indikator Penilaian

1. Mahasiswa memahami dan mengimplementasikan dasar Routing
2. Mahasiswa memahami dan mengimplementasikan dasar Routing Parameter
3. Mahasiswa memahami dan mengimplementasikan Named Routing
4. Mahasiswa memahami dan mengimplementasikan Named Routing
5. Mahasiswa memahami dan mengimplementasikan Group Routing

d. Dasar Teori

Route group memungkinkan kita untuk menggabungkan atribut route, seperti middleware, namespace atau prefix pada sebagian besar route tanpa perlu menentukan atribut di setiap route. Atribut bersama ditentukan dalam format array sebagai parameter pertama untuk metode Route::group.

e. Alat dan Bahan

1. Client Server: Xampp
2. Text Editor: Visual Code/Sublime Text 3
3. Management Storage: Git dan Github
4. Tools Dependency Manager Multiplatform: Composer
5. Kertas A4 / Folio Bergaris
6. Pulpen

f. Prosedur Kerja

1. Middleware

Untuk menerapkan middleware ke semua route dalam grup, kita dapat menggunakan metode middleware sebelum menentukan grup. Middleware dijalankan sesuai urutan yang tercantum dalam array:

```
Route::middleware(['first', 'second'])->group(function () {
    Route::get('/', function () {
        // Uses first & second Middleware
    });

    Route::get('user/profile', function () {
        // Uses first & second Middleware
    });
});
```

Pada Laravel terbaru, penggunaan tanda “/” sebelum user/profile diharuskan untuk ditulis

2. Namespaces

Kasus penggunaan umum lainnya pada group route adalah menerapkan namespace PHP yang sama ke grup pengontrol menggunakan metode namespace:

```
Route::namespace('Admin')->group(function () {
    // Controllers Within The "App\Http\Controllers\Admin" Namespace
});
```

3. Subdomain Routing

Route Group juga dapat digunakan untuk menangani subdomain routing. Subdomain dapat diberi parameter route seperti URI route, memungkinkan Anda menangkap sebagian subdomain untuk digunakan di rute atau pengontrol Anda. Subdomain dapat ditentukan dengan memanggil metode domain sebelum menentukan grup:

```
Route::domain('{account}.myapp.com')->group(function () {
    Route::get('user/{id}', function ($account, $id) {
        //
    });
});
```

4. Route Prefixes

Metode prefix dapat digunakan untuk awalan setiap route dalam group dengan URI yang diberikan. Misalnya, kita mungkin ingin memberi awalan semua URI rute dalam grup dengan admin:

```
Route::prefix('admin')->group(function () {
    Route::get('users', function () {
        // Matches The "/admin/users" URL
    });
});
```

Pada Laravel terbaru, penggunaan tanda “/” sebelum users diharuskan untuk ditulis

5. Route Name Prefixes

Metode name dapat digunakan untuk awalan setiap nama route dalam group dengan string yang diberikan. Misalnya, kita mungkin ingin memberi awalan pada semua nama route yang dikelompokkan dengan admin. String yang diberikan diawali dengan nama route persis seperti yang ditentukan, jadi kami pasti akan memberikan tambahan karakter titik(.) di awalan:

```
Route::name('admin.')->group(function () {
    Route::get('users', function () {
        // Route assigned name "admin.users"...
    })->name('users');
});
```

g. Hasil dan Pembahasan

Format Laporan

Kertas A4

Format *.pdf

Struktur Laporan: Cover, Pendahuluan, Hasil Praktik, Kesimpulan dan Daftar Pustaka

Berikan Identitas Diri: NIM, Nama, Golongan, Tugas Minggu Ke-X

Penamaan File: ACARA-X_GOL_NIM_NAMA.pdf

**Contoh: **ACARA-1_A_E1234356_KHAFID.pdf

Kumpulkan pada <http://iti.polije.ac.id/elearning/>

h. Kesimpulan

1. Mahasiswa memahami dan mengimplementasikan dasar Routing
2. Mahasiswa memahami dan mengimplementasikan dasar Routing Parameter
3. Mahasiswa memahami dan mengimplementasikan Named Routing
4. Mahasiswa memahami dan mengimplementasikan Named Routing
5. Mahasiswa memahami dan mengimplementasikan Group Routing

i. Rubrik Penilaian

No	Indikator Penilaian	Nilai			
		1	2	3	4
1	Ketepatan waktu dan ketepatan Langkah kerja dalam mengerjakan				V
2	Ketepatan waktu dan Langkah kerja kurang tepat dalam mengerjakan			V	
3	Keterlambatan waktu dan Langkah kerja yang dilakukan kurang tepat		V		
4	Keterlambatan waktu pengumpulan dan Langkah kerja tidak seusai	V			
		Total Skor*		Skor x 25	

ACARA 9. Membuat Model View Controller Pada Laravel (1)**Pokok Bahasan : Membuat Model View Controller Pada Laravel****Acara Praktikum/Praktik : Minggu 3/1****Tempat : Daring/Luring Politeknik Negeri Jember****Alokasi Waktu : 100 menit****a. Capaian Pembelajaran Mata Kuliah (CPMK)**

1. Mahasiswa mampu memahami Struktur Folder atau letak Model, View, dan Controller pada Laravel
2. Mahasiswa mampu memahami Model, View dan Controller pada Laravel
3. Mahasiswa mampu membuat Model, View dan Controller pada Laravel

b. Penilaian Bertahap BNSP (*Skill Passport*)

Nama Skema Sertifikasi: Pengembang Web/Web Developer (SKM-496-028)

No	Kode Unit	Nama Unit Kompetensi	Elemen Kompetensi
1	J.620100.017.02	Mengimplementasikan Pemrograman Terstruktur	<ul style="list-style-type: none">• Menggunakan tipe data dan control program• Membuat program untuk akses file• Membuat program untuk akses file
2	J.620100.018.02	Mengimplementasikan Pemrograman Berorientasi Objek	<ul style="list-style-type: none">• Membuat program berorientasi objek dengan memanfaatkan class• Menggunakan tipe data dan control program pada metode atau operasi dari suatu kelas• Membuat program dengan konsep berbasis objek• Membuat program object oriented dengan interface dan paket• Mengkompilasi Program

c. Indikator Penilaian

1. Kemampuan mahasiswa dalam mengimplementasikan Model, View dan Controller pada Laravel

d. Dasar Teori

Model, View dan Controller atau biasa disingkat dengan MVC. MVC merupakan salah satu konsep pemrograman yang membagi aplikasi menjadi tiga bagian, yaitu model yang mengurus interaksi antara aplikasi dan database, view yang mengurus tampilan dan controller yang mengatur interaksi antara view dan model.

e. Alat dan Bahan

1. Client Server: Xampp
2. Text Editor: Visual Code/Sublime Text 3
3. Management Storage: Git dan Github
4. Tools Dependency Manager Multiplatform: Composer
5. Kertas A4 / Folio Bergaris
6. Pulpen

f. Prosedur Kerja

1. Jelaskan apa yang anda ketahui tentang MVC pada Laravel?
2. Apakah manfaat yang diperoleh jika aplikasi dibuat dengan menfaatkan MVC pada Laravel?
3. Jelaskan yang anda ketahui tentang framework dan sebutkan framework apa saja yang menerapkan MVC?
4. Jelaskan beberapa komponen pada Laravel yang mendukung konsep MVC?
5. Gambarkan dan jelaskan alur proses aplikasi jika menggunakan konsep MVC?

g. Hasil dan Pembahasan

Format Laporan

Kertas A4

Format *.pdf

Struktur Laporan: Cover, Pendahuluan, Hasil Praktik, Kesimpulan dan Daftar Pustaka

Berikan Identitas Diri: NIM, Nama, Golongan, Tugas Minggu Ke-X

Penamaan File: ACARA-X_GOL_NIM_NAMA.pdf

**Contoh: **ACARA-1_A_E1234356_KHAFID.pdf

Kumpulkan pada <http://iti.polije.ac.id/elearning/>

h. Kesimpulan

1. Mahasiswa mampu memahami konsep beserta komponen yang mendukung MVC pada Laravel.

i. Rubrik Penilaian

No	Indikator Penilaian	Skor*			
		1	2	3	4
1	Ketepatan waktu dan ketepatan pengerjaan tugas disertai referensi				V
2	Ketepatan waktu dan ketepatan pengerjaan tanpa disertai referensi			V	
3	Keterlambatan waktu dan ketepatan pengerjaan disertai referensi		V		
4	Keterlambatan waktu pengumpulan dan kesalahan pengerjaan	V			
	Total Skor*	Skor x 25			

ACARA 10. Membuat Model View Controller Pada Laravel (2)

Pokok Bahasan : Membuat Model View Controller Pada Laravel

Acara Praktikum/Praktik : Minggu 3/2

Tempat : Daring/Luring Politeknik Negeri Jember

Alokasi Waktu : 100 menit

a. Capaian Pembelajaran Mata Kuliah (CPMK)

1. Mahasiswa mampu memahami Struktur Folder atau letak Model, View, dan Controller pada Laravel
2. Mahasiswa mampu memahami Model, View dan Controller pada Laravel
3. Mahasiswa mampu membuat Model, View dan Controller pada Laravel

b. Penilaian Bertahap BNSP (*Skill Passport*)

Nama Skema Sertifikasi: Pengembang Web/Web Developer (SKM-496-028)

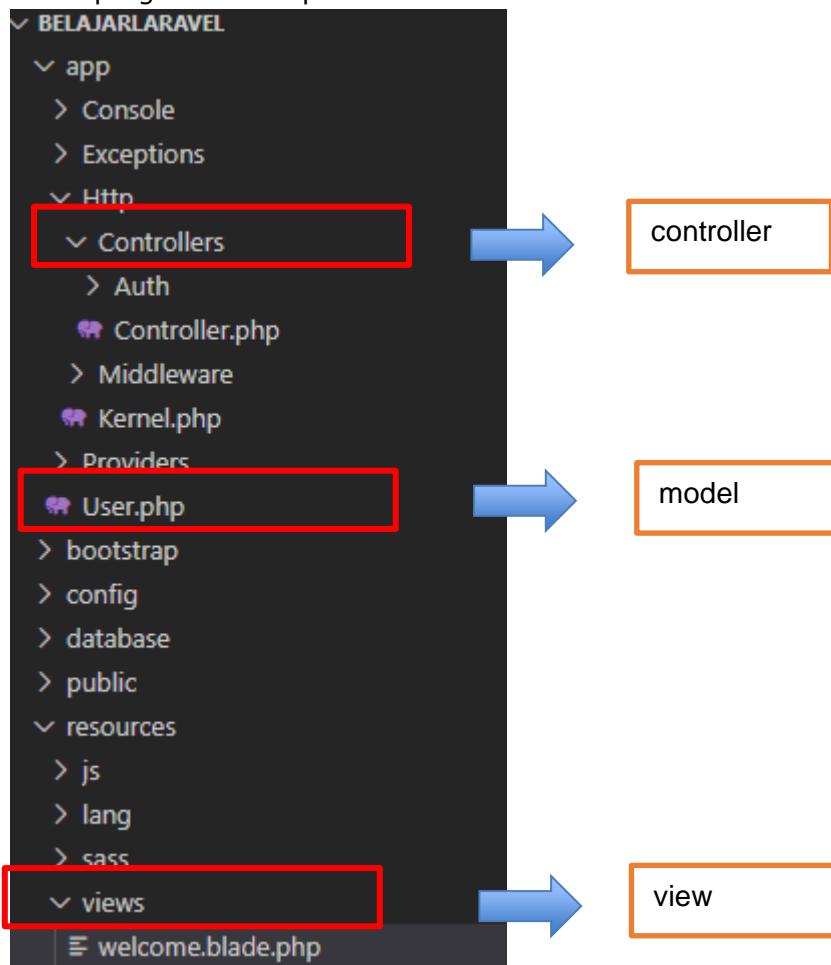
No	Kode Unit	Nama Unit Kompetensi	Elemen Kompetensi
1	J.620100.017.02	Mengimplementasikan Pemrograman Terstruktur	<ul style="list-style-type: none">• Menggunakan tipe data dan control program• Membuat program untuk akses file• Membuat program untuk akses file
2	J.620100.018.02	Mengimplementasikan Pemrograman Berorientasi Objek	<ul style="list-style-type: none">• Membuat program berorientasi objek dengan memanfaatkan class• Menggunakan tipe data dan control program pada metode atau operasi dari suatu kelas• Membuat program dengan konsep berbasis objek• Membuat program object oriented dengan interface dan paket• Mengkompilasi Program

c. Indikator Penilaian

1. Kemampuan mahasiswa dalam mengimplementasikan Model, View dan Controller pada Laravel

d. Dasar Teori

Model MVC memisahkan pengelolaan database, logika dan antarmuka dalam sebuah aplikasi, sehingga memudahkan developer yang satu dengan yang lain untuk merawat suatu program atau aplikasi.



Berikut penjelasan singkat MVC:

- Controller laravel berada di folder `app/Http/Controllers`. Fungsi dari Controller yaitu Controller akan melakukan pemanggilan ke Model untuk mendapatkan data yang relevan, dan kemudian mempersiapkan data tersebut untuk ditampilkan. Controller juga memberikan data yang diperlukan kepada view.
- View Laravel berada di folder `resources/views`. Fungsi dari View yaitu untuk menaruh kode tampilan ke pengguna atau User. Di file view ini lah kita letakkan kode html, css dan javascript bukan di controller, route atau model. File view bisa mengakses variabel yang dilempar dari controller action seperti pada bahasan Controller.Pada aplikasi Laravel baru, tersedia satu file view yaitu `welcome.blade.php`, silahkan dibuka pada

resources/views/welcome.blade.php. File tersebut berisi kode html, css, javascript dan beberapa sintaks blade.

- Khusus untuk Model tidak memiliki folder khusus, tetapi kita bisa meletakannya di folder app, atau di folder lainnya sesuai kebutuhan kita.

e. Alat dan Bahan

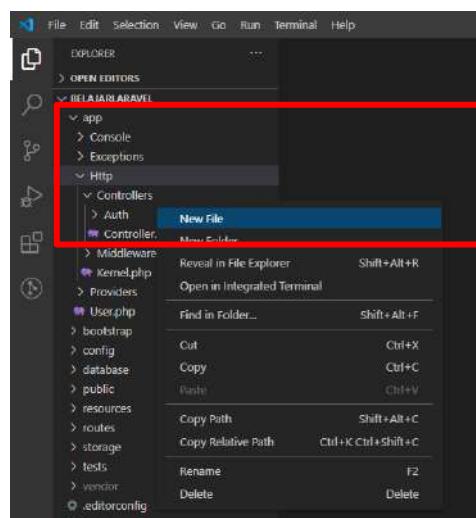
1. Client Server: Xampp
2. Text Editor: Visual Code/Sublime Text 3
3. Management Storage: Git dan Github
4. Tools Dependency Manager Multiplatform: Composer
5. Kertas A4 / Folio Bergaris
6. Pulpen

f. Prosedur Kerja

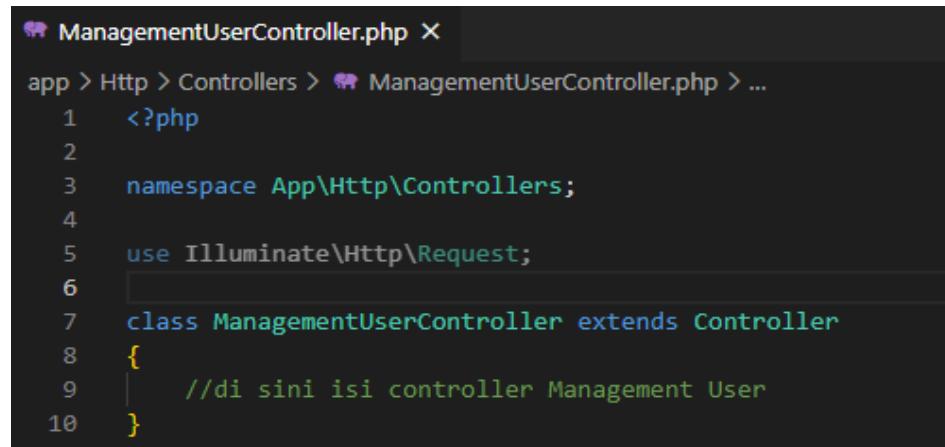
1. Membuat Controller

a) Cara manual

- Klik kanan pada folder **app** □ **Http** □ **Controllers**, pilih **New File** beri nama **ManagementUserController.php**



- Kemudian isi file ManagementUserController.php seperti sintak berikut:



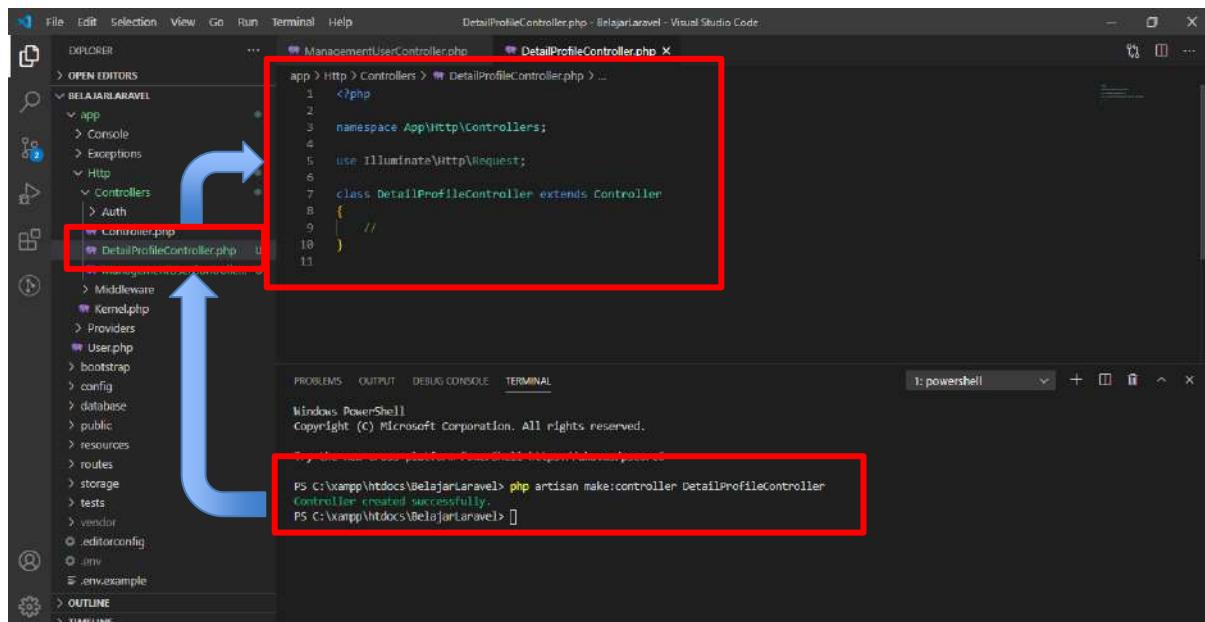
```
ManagementUserController.php X
app > Http > Controllers > ManagementUserController.php > ...
1 <?php
2
3 namespace App\Http\Controllers;
4
5 use Illuminate\Http\Request;
6
7 class ManagementUserController extends Controller
8 {
9     //di sini isi controller Management User
10 }
```

Pada Laravel terbaru, anda diharuskan menyesuaikan dengan syntax sebagai berikut

```
namespace App\Http\Controllers;
use App\Http\Controllers\Controller;
use App\Models\User;
use Illuminate\Http\Request;
```

b) Melalui Artisan

- Tekan Terminal □ New Terminal kemudian ketikan sintak berikut: **php artisan make:controller DetailProfileController**



The screenshot shows a Visual Studio Code interface. On the left, the Explorer sidebar displays a project structure under 'BELAJARLARAVEL'. A red box highlights the 'Controllers' folder, which contains 'Controller.php' and 'DetailProfileController.php'. A blue arrow points from the terminal area up towards the controllers folder. In the center, the code editor shows 'DetailProfileController.php' with some initial code. A red box highlights the terminal at the bottom, showing the command 'php artisan make:controller DetailProfileController' being run and the response 'Controller created successfully.' A large blue arrow points from the terminal area up towards the code editor.

c) Membuat Controller

- Buka folder **resources** □ **web.php** untuk menambahkan alamat url baru yang menghubungkan dengan ManagementUserController.php. Tambahkan sintak berikut:

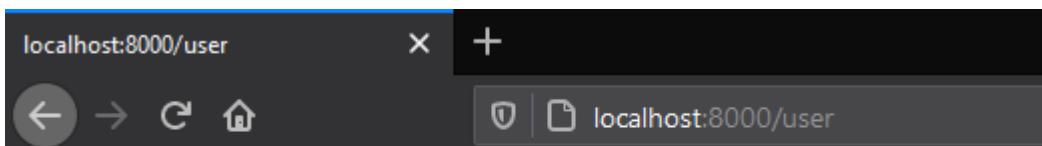
```
31 | Route::get('user', 'ManagementUserController@index');
```

Perlu diperhatikan, untuk penggunaan Laravel terbaru, harus ditambahkan tanda “ / ” sebelum kata user

- Buka folder **app □ Http □ ManagementUserController.php** untuk sintak berikut:

```
app > Http > Controllers > ManagementUserController.php > ...
1  <?php
2
3  namespace App\Http\Controllers;
4
5  use Illuminate\Http\Request;
6
7  class ManagementUserController extends Controller
8  {
9      public function index(){
10         return "Halo ini adalah method index, dalam controller ManagementUser.";
11     }
12 }
```

- Kemudian buka web browser dan ketikkan **localhost:8000/user** setelah mengaktifkan cmd php artisan serve sehingga akan muncul tampilan seperti berikut:



Halo ini adalah method index, dalam controller ManagementUser.

- Buka folder **resources □ web.php** untuk menambahkan alamat-alamat url baru yang menghubungkan dengan method-method **ManagementUserController.php** tanpa mendeklarasikan banyak url. Tambahkan sintak berikut:

```
31 | // Route::get('user', 'ManagementUserController@index');
32 | Route::resource('user', 'ManagementUserController');
```

Perlu diperhatikan, untuk penggunaan Laravel terbaru, harus ditambahkan tanda "/" sebelum kata user

- Fungsi resource diatas akan mengenerate route default yang dimiliki oleh sebuah fungsi seperti *index*, *edit*, *create*, *store*, *update*, *show*, dan *destroy*. Tekan **Terminal** **New Terminal** kemudian ketikan sintak berikut:

php artisan route:list

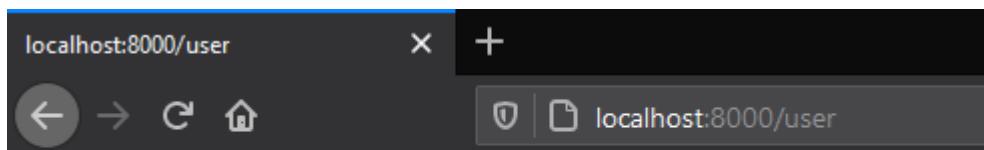
Domain	Method	URI	Name	Action	Middleware
	GET HEAD	/		Closure	web
	GET HEAD	api/user		Closure	api,auth:api
	GET HEAD	belajar		Closure	web
	GET HEAD	hello		Closure	web
	GET HEAD	page/{number}		Closure	web
	GET HEAD	user	user.index	App\Http\Controllers\ManagementUserController@index	web
	POST	user	user.store	App\Http\Controllers\ManagementUserController@store	web
	GET HEAD	user/create	user.create	App\Http\Controllers\ManagementUserController@create	web
	GET HEAD	user/{user}	user.show	App\Http\Controllers\ManagementUserController@show	web
	PUT PATCH	user/{user}	user.update	App\Http\Controllers\ManagementUserController@update	web
	DELETE	user/{user}	user.destroy	App\Http\Controllers\ManagementUserController@destroy	web
	GET HEAD	user/{user}/edit	user.edit	App\Http\Controllers\ManagementUserController@edit	web

- Buka folder **app** **Http** **ManagementUserController.php** untuk menambahkan sintak berikut ini.

BKPM - WORKSHOP SISTEM INFORMASI WEB FRAMEWORK

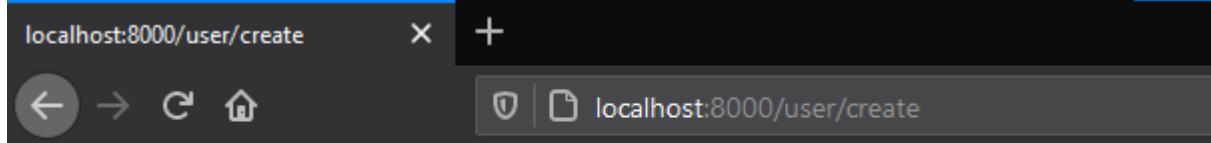
```
app > Http > Controllers > ManagementUserController.php > ManagementUserController
1  <?php
2
3  namespace App\Http\Controllers;
4
5  use Illuminate\Http\Request;
6
7  class ManagementUserController extends Controller
8  {
9      public function index()
10     {
11         // return "Halo ini adalah method index, dalam controller ManagementUser.";
12         return "Method ini nantinya akan digunakan untuk mengambil semua data user";
13     }
14
15    public function create()
16    {
17        return "Method ini nantinya akan digunakan untuk menampilkan form untuk menambah data user";
18    }
19
20    public function store(Request $request)
21    {
22        return "Method ini nantinya akan digunakan untuk menciptakan data user yang baru";
23    }
24
25    public function show($id)
26    {
27        return "Method ini nantinya akan digunakan untuk mengambil satu data user dengan id=" . $id;
28    }
29
30    public function edit($id)
31    {
32        return "Method ini nantinya akan digunakan untuk menampilkan form untuk mengubah data edit dengan id=" . $id;
33    }
34
35    public function update(Request $request, $id)
36    {
37        return "Method ini nantinya akan digunakan untuk mengubah data user dengan id=" . $id;
38    }
39
40    public function destroy($id)
41    {
42        return "Method ini nantinya digunakan untuk menghapus data user dengan id=" . $id;
43    }
44 }
```

- Kemudian buka web browser dan ketikkan **localhost:8000/user** setelah mengaktifkan cmd php artisan serve sehingga akan muncul tampilan seperti berikut:



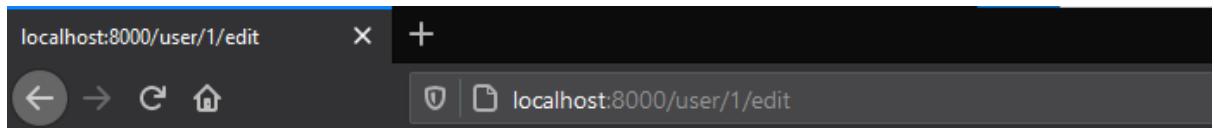
Method ini nantinya akan digunakan untuk mengambil semua data user

- Kemudian buka web browser dan ketikkan **localhost:8000/user/create** setelah mengaktifkan cmd **php artisan serve** sehingga akan muncul tampilan seperti berikut



Method ini nantinya akan digunakan untuk menampilkan form untuk menambah data user

- Kemudian buka web browser dan ketikkan **localhost:8000/user/1/edit** setelah mengaktifkan cmd php artisan serve sehingga akan muncul tampilan seperti berikut:



Method ini nantinya akan digunakan untuk menampilkan form untuk mengubah data edit dengan id=1

g. Hasil dan Pembahasan

Format Laporan

Kertas A4

Format *.pdf

Struktur Laporan: Cover, Pendahuluan, Hasil Praktik, Kesimpulan dan Daftar Pustaka

Berikan Identitas Diri: NIM, Nama, Golongan, Tugas Minggu Ke-X

Penamaan File: ACARA-X_GOL_NIM_NAMA.pdf

**Contoh: **ACARA-1_A_E1234356_KHAFID.pdf

Kumpulkan pada <http://jti.polje.ac.id/elearning/>

h. Kesimpulan

1. Mahasiswa memahami dan mengimplementasikan Model View Controller (MVC) Pada Laravel

i. Rubrik Penilaian

BKPM - WORKSHOP SISTEM INFORMASI WEB FRAMEWORK

No	Indikator Penilaian	Nilai			
		1	2	3	4
1	Ketepatan waktu dan ketepatan Langkah kerja dalam mengerjakan				V
2	Ketepatan waktu dan Langkah kerja kurang tepat dalam mengerjakan			V	
3	Keterlambatan waktu dan Langkah kerja yang dilakukan kurang tepat		V		
4	Keterlambatan waktu pengumpulan dan Langkah kerja tidak selesai	V			
	Total Skor*	Skor x 25			

ACARA 11. Membuat Model View Controller Pada Laravel (3)

Pokok Bahasan : Membuat Model View Controller Pada Laravel

Acara Praktikum/Praktik : Minggu 3/3

Tempat : Daring/Luring Politeknik Negeri Jember

Alokasi Waktu : 100 menit

a. Capaian Pembelajaran Mata Kuliah (CPMK)

1. Mahasiswa mampu memahami Struktur Folder atau letak Model, View, dan Controller pada Laravel
2. Mahasiswa mampu memahami Model, View dan Controller pada Laravel
3. Mahasiswa mampu membuat Model, View dan Controller pada Laravel

b. Penilaian Bertahap BNSP (*Skill Passport*)

Nama Skema Sertifikasi: Pengembang Web/Web Developer (SKM-496-028)

No	Kode Unit	Nama Unit Kompetensi	Elemen Kompetensi
1	J.620100.017.02	Mengimplementasikan Pemrograman Terstruktur	<ul style="list-style-type: none">• Menggunakan tipe data dan control program• Membuat program untuk akses file• Membuat program untuk akses file
2	J.620100.018.02	Mengimplementasikan Pemrograman Berorientasi Objek	<ul style="list-style-type: none">• Membuat program berorientasi objek dengan memanfaatkan class• Menggunakan tipe data dan control program pada metode atau operasi dari suatu kelas• Membuat program dengan konsep berbasis objek• Membuat program object oriented dengan interface dan paket• Mengkompilasi Program

c. Indikator Penilaian

1. Kemampuan mahasiswa dalam mengimplementasikan Model, View dan Controller pada Laravel

d. Dasar Teori

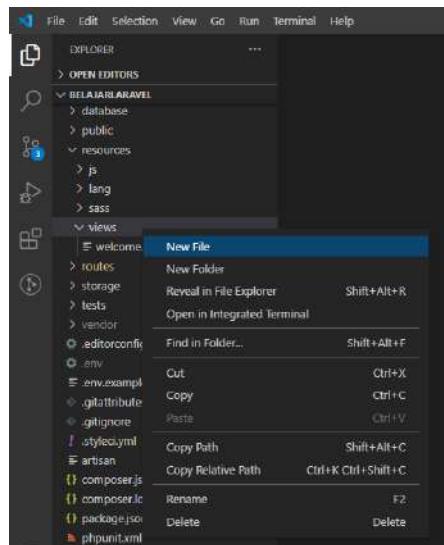
e. Alat dan Bahan

1. Client Server: Xampp
2. Text Editor: Visual Code
3. Management Storage: Git dan Github
4. Tools Dependency Manager Multiplatform: Composer

f. Prosedur Kerja

1. Membuat View Sederhana

- Klik kanan pada folder **resources** □ **views**, pilih **New File** beri nama **home.blade.php**



- Kemudian isi file home.blade.php seperti sintak berikut:

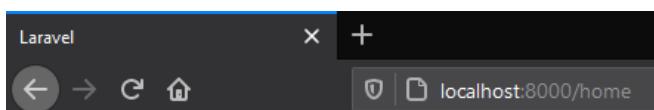


```
resources > views > home.blade.php > html
1  <!DOCTYPE html>
2  <html lang="{{ str_replace('_', '-', app()->getLocale())}}>
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <meta http-equiv="X-UA-Compatible" content="ie=edge">
7      <title>{{ config('app.name') }}</title>
8  </head>
9  <body>
10     <div class="jumbotron jumbotron-fluid">
11         <div class="container">
12             <h1 class="display-4">Halaman Home</h1>
13             <p class="lead">Halaman ini merupakan halaman Home</p>
14         </div>
15     </div>
16 </body>
17 </html>
```

- Buka folder **resources** □ **web.php** untuk menambahkan alamat url baru yang menghubungkan dengan **home.blade.php**. Tambahkan sintak berikut:

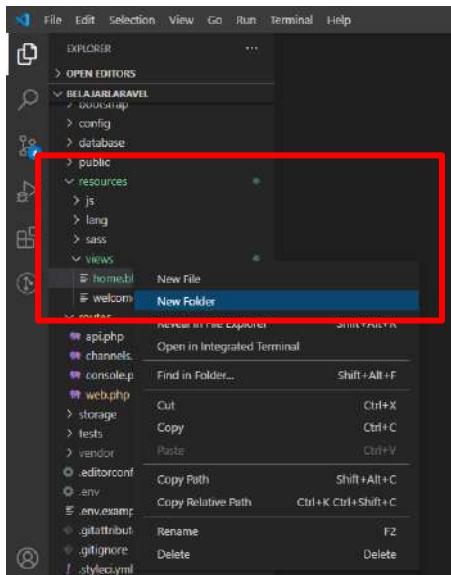
```
34 | Route::get("/home", function(){
35 |     return view("home");
36 | });
You, a minute ago • Uncommitted changes
```

- Kemudian buka web browser dan ketikkan **localhost:8000/home** setelah mengaktifkan cmd **php artisan serve** sehingga akan muncul tampilan seperti berikut:



2. Membuat View Blade

- Buat folder baru pada **resources** □ **views**, pilih **New Folder** beri nama **layouts** kemudian tambahkan file baru dengan nama **app.blade.php**



- Kemudian isi file **app.blade.php** seperti sintak berikut:

```
resources > views > layouts > app.blade.php > html
1  <!DOCTYPE html>
2  <html lang="{{ str_replace('_', '-', app()>getLocale())}}>
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      <title>{{ config('app.name') }}</title>
8  </head>
9  <body>
10     <div class="jumbotron jumbotron-fluid">
11         <div class="container">
12             @yield('content')
13         </div>
14     </div>
15  </body>
16 </html>
```

- Kemudian buka file **home.blade.php** sebelumnya rubah menjadi seperti sintak berikut:

```
resources > views > home.blade.php > ...
1  @extends('layouts.app')
2
3  @section('content')
4      <div class="jumbotron jumbotron-fluid">
5          <div class="container">
6              <h1 class="display-4">Home Page</h1>
7              <p class="lead"> This is the Home Page</p>
8          </div>
9      </div>
10     @endsection
```

Penjelasan:

- Directive **@extends** menghubungkan view ke view master.
- Directive **@section** mendefinisikan sebuah bagian (section) dari isi halaman web,

- Directive **@yield** digunakan untuk menampilkan isi dari bagian tersebut

```

resources > views > layouts > app.blade.php > html
1  <!DOCTYPE html>
2  <html lang="{{ str_replace('_', '-', app()->getLocale())}}>
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      <title>{{ config('app.name') }}</title>
8  </head>
9  <body>
10     <div class="jumbotron jumbotron-fluid">
11         <div class="container">
12             @yield('content')
13         </div>
14     </div>
15 </body>
16 </html>

```

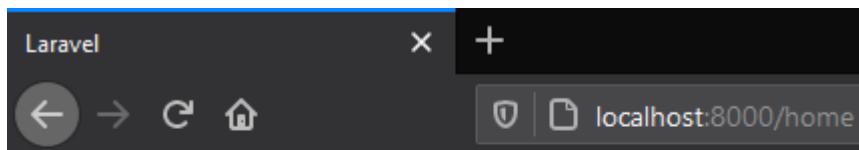


```

resources > views > home.blade.php > ...
1  @extends('layouts.app')
2
3  @section('content')
4      <div class="jumbotron jumbotron-fluid">
5          <div class="container">
6              <h1 class="display-4">Home Page</h1>
7              <p class="lead"> This is the Home Page</p>
8          </div>
9      </div>
10     @endsection

```

- Kemudian buka web browser dan ketikkan **localhost:8000/home** setelah mengaktifkan cmd **php artisan serve** sehingga akan muncul tampilan seperti berikut:



Home Page

This is the Home Page

3. Membuat View dengan Parameter

- Buka file **ManagementUserController.php** yang telah dibikin sebelumnya dan rubah method **index** sebelumnya menjadi seperti berikut:

```

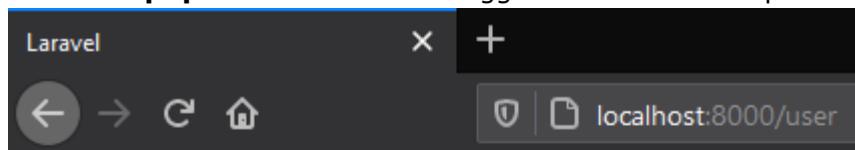
9   public function index()
10  {
11      // return "Halo ini adalah method index, dalam controller ManagementUser.";
12      // return "Method ini nantinya akan digunakan untuk mengambil semua data user";
13      $nama = "Arvita Agus Kurniasari";
14
15      $pelajaran = ["Algoritma & Pemrograman", "Kalkulus", "Pemrograman Web"];
16
17      return view('home', compact('nama', 'pelajaran'));
18  }
19

```

- Kemudian buka file **home.blade.php** sebelumnya tambahkan sintak menjadi seperti sintak berikut:

```
resources > views > home.blade.php > ...
1  @extends('layouts.app')
2
3  @section('content')
4  <div class="jumbotron jumbotron-fluid">
5      <div class="container">
6          <h1 class="display-4">Home Page</h1>
7          <p class="lead"> This is the Home Page</p>
8      </div>
9      <p>Nama : {{ $nama }}</p>
10     <p>Mata Pelajaran</p>
11     <ul>
12         @foreach($pelajaran as $p)
13             <li>{{ $p }}</li>
14         @endforeach
15     </div>
16     @endsection
```

- Kemudian buka web browser dan ketikkan **localhost:8000/user** setelah mengaktifkan **cmd php artisan serve** sehingga akan muncul tampilan seperti berikut:



Home Page

This is the Home Page

Nama : Arvita Agus Kurniasari

Mata Pelajaran

- Algoritma & Pemrograman
- Kalkulus
- Pemrograman Web

g. Hasil dan Pembahasan

Format Laporan

Kertas A4

Format *.pdf

Struktur Laporan: Cover, Pendahuluan, Hasil Praktik, Kesimpulan dan Daftar Pustaka

Berikan Identitas Diri: NIM, Nama, Golongan, Tugas Minggu Ke-X

Penamaan File: ACARA-X_GOL_NIM_NAMA.pdf

**Contoh: **ACARA-1_A_E1234356_KHAFID.pdf

Kumpulkan pada <http://jti.polije.ac.id/elearning/>

h. Kesimpulan

1. Mahasiswa memahami dan mengimplementasikan Model View Controller (MVC) Pada Laravel

i. Rubrik Penilaian

No	Indikator Penilaian	Nilai			
		1	2	3	4
1	Ketepatan waktu dan ketepatan Langkah kerja dalam mengerjakan				V
2	Ketepatan waktu dan Langkah kerja kurang tepat dalam mengerjakan			V	
3	Keterlambatan waktu dan Langkah kerja yang dilakukan kurang tepat		V		
4	Keterlambatan waktu pengumpulan dan Langkah kerja tidak selesai	V			
	Total Skor*	Skor x 25			

ACARA 12. Membuat Model View Controller Pada Laravel (4)

Pokok Bahasan : Membuat Model View Controller Pada Laravel

Acara Praktikum/Praktik : Minggu 3/4

Tempat : Daring/Luring Politeknik Negeri Jember

Alokasi Waktu : 100 menit

a. Capaian Pembelajaran Mata Kuliah (CPMK)

1. Mahasiswa mampu memahami Struktur Folder atau letak Model, View, dan Controller pada Laravel
2. Mahasiswa mampu memahami Model, View dan Controller pada Laravel
3. Mahasiswa mampu membuat Model, View dan Controller pada Laravel

b. Penilaian Bertahap BNSP (*Skill Passport*)

Nama Skema Sertifikasi: Pengembang Web/Web Developer (SKM-496-028)

No	Kode Unit	Nama Unit Kompetensi	Elemen Kompetensi
1	J.620100.017.02	Mengimplementasikan Pemrograman Terstruktur	<ul style="list-style-type: none">• Menggunakan tipe data dan control program• Membuat program untuk akses file• Membuat program untuk akses file
2	J.620100.018.02	Mengimplementasikan Pemrograman Berorientasi Objek	<ul style="list-style-type: none">• Membuat program berorientasi objek dengan memanfaatkan class• Menggunakan tipe data dan control program pada metode atau operasi dari suatu kelas• Membuat program dengan konsep berbasis objek• Membuat program object oriented dengan interface dan paket• Mengkompilasi Program

c. Indikator Penilaian

1. Kemampuan mahasiswa dalam mengimplementasikan Model, View dan Controller pada Laravel

d. Dasar Teori

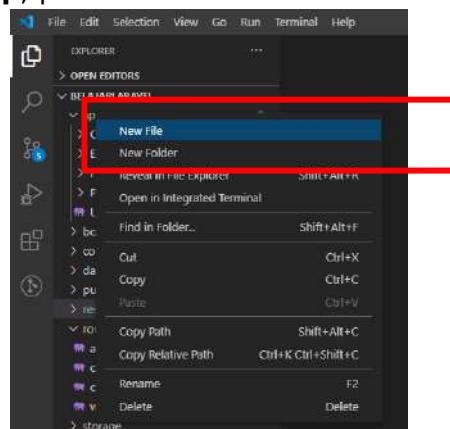
e. Alat dan Bahan

1. Client Server: Xampp
2. Text Editor: Visual Code
3. Management Storage: Git dan Github
4. Tools Dependency Manager Multiplatform: Composer

f. Prosedur Kerja

1. Membuat Model Secara Manual

- Klik kanan pada folder **app**, pilih **New File** beri nama **ManagementUser.php**



- Kemudian isi file ManagementUser.php seperti sintak berikut:

```
app > 🐾 ManagementUser.php > 📄 ManagementUser
 1  <?php
 2
 3  namespace App;
 4
 5  use Illuminate\Database\Eloquent\Model;
 6
 7  class ManagementUser extends Model
 8  {
 9  |
10  }
```

2. Membuat Model Melalui Artisan

- Tekan **Terminal** □ **New Terminal** kemudian ketikan sintak berikut.

php artisan make:model DetailProfile

```
<?php  
namespace App;  
use Illuminate\Database\Eloquent\Model;  
class DetailProfile extends Model  
{  
}  
Windows PowerShell  
Copyright (C) Microsoft Corporation. All rights reserved.  
Try the new cross-platform PowerShell https://aka.ms/pscore6  
PS C:\xampp\htdocs\BelajarLaravel> php artisan make:model DetailProfile  
Model created successfully.  
PS C:\xampp\htdocs\BelajarLaravel> [ ]
```

g. Hasil dan Pembahasan

Format Laporan

Kertas A4

Format *.pdf

Struktur Laporan: Cover, Pendahuluan, Hasil Praktik, Kesimpulan dan Daftar Pustaka

Berikan Identitas Diri: NIM, Nama, Golongan, Tugas Minggu Ke-X

Penamaan File: ACARA-X_GOL_NIM_NAMA.pdf

**Contoh: **ACARA-1_A_E1234356_KHAFID.pdf

Kumpulkan pada <http://iti.polje.ac.id/elearning/>

h. Kesimpulan

1. Mahasiswa memahami dan mengimplementasikan Model View Controller (MVC) Pada Laravel

i. Rubrik Penilaian

BKPM - WORKSHOP SISTEM INFORMASI WEB FRAMEWORK

No	Indikator Penilaian	Nilai			
		1	2	3	4
1	Ketepatan waktu dan ketepatan Langkah kerja dalam mengerjakan				V
2	Ketepatan waktu dan Langkah kerja kurang tepat dalam mengerjakan			V	
3	Keterlambatan waktu dan Langkah kerja yang dilakukan kurang tepat		V		
4	Keterlambatan waktu pengumpulan dan Langkah kerja tidak selesai	V			
	Total Skor*	Skor x 25			

ACARA 13 DAN 14. Menambahkan Template dengan Blade Laravel (Bootstrap)

Pokok Bahasan : Menambahkan Template dengan Blade Laravel (Bootstrap)

Acara Praktikum/Praktik : Minggu 4/1 dan 2

Tempat : Daring/Luring Politeknik Negeri Jember

Alokasi Waktu : 100 menit

a. Capaian Pembelajaran Mata Kuliah (CPMK)

1. Mahasiswa mampu memahami dan mengimplementasikan Menambahkan Template dengan Blade Laravel (Bootstrap)

b. Penilaian Bertahap BNSP (*Skill Passport*)

Nama Skema Sertifikasi: Pengembang Web/Web Developer (SKM-496-028)

No	Kode Unit	Nama Unit Kompetensi	Elemen Kompetensi
1	J.620100.017.02	Mengimplementasikan Pemrograman Terstruktur	<ul style="list-style-type: none">• Menggunakan tipe data dan control program• Membuat program untuk akses file• Membuat program untuk akses file
2	J.620100.018.02	Mengimplementasikan Pemrograman Berorientasi Objek	<ul style="list-style-type: none">• Membuat program berorientasi objek dengan memanfaatkan class• Menggunakan tipe data dan control program pada metode atau operasi dari suatu kelas• Membuat program dengan konsep berbasis objek• Membuat program object oriented dengan interface dan paket• Mengkompilasi Program

c. Indikator Penilaian

1. Mahasiswa memahami dan mengimplementasikan Menambahkan Template dengan Blade Laravel (Bootstrap)

d. Dasar Teori

e. Alat dan Bahan

1. Client Server: Xampp
2. Text Editor: Visual Code
3. Management Storage: Git dan Github
4. Tools Dependency Manager Multiplatform: Composer

f. Prosedur Kerja

1. Download template:

<https://bootstrapmade.com/content/templatefiles/Butterfly/Butterfly-bootstrap-4.zip>

2. Buka file Butterfly-bootstrap-4.zip hasil download

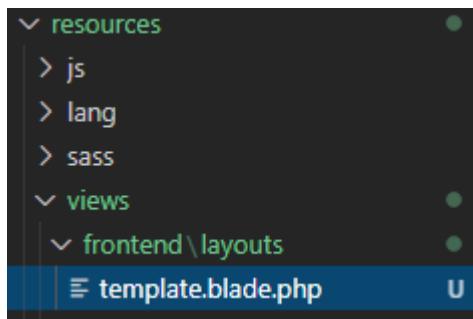
Name	Date modified	Type	Size
[www.gigapurbalingga.net]_pSublimeText... 1/14/2021 10:01 AM	WinRAR archive	6 KB	
Butterfly-bootstrap-4.zip 1/27/2021 12:31 PM	WinRAR ZIP archive	7,269 KB	
final_theme_20210117T110756Z-001.zip 1/17/2021 6:17 PM	WinRAR ZIP archive	632,319 KB	
mobile_p...ting-20210117T102542Z-001.... 1/17/2021 5:37 PM	WinRAR ZIP archive	438,285 KB	
sblmtx32...in.rar 1/14/2021 9:48 AM	WinRAR archive	20,630 KB	
SmartGes...re_Win10_64_VER4012.zip 1/11/2021 11:20 AM	WinRAR ZIP archive	55,044 KB	
themefor...t-ebiKXkaD-unice-app-landin... 1/13/2021 10:28 AM	WinRAR ZIP archive	67,771 KB	
 File folder			
assets 14,114,879	7,404,823	File folder	1/25/2021 4:29 ...
forms 1,514	730	File folder	1/25/2021 4:29 ...
changelog.txt 992	387	Text Document	1/25/2021 4:29 ... 92D4724D
index.html 37,805	6,000	Firefox Document	1/25/2021 4:10 ... 8CD39B08
inner-page.html 8,295	2,137	Firefox Document	1/25/2021 4:10 ... 8A9E622D
portfolio-details... 9,744	2,506	Firefox Document	1/25/2021 4:10 ... CCB9CC13
Readme.txt 212	134	Text Document	1/25/2021 4:29 ... 15901380

3. Ekstrak folder assets ke folder BelajarLaravel Project ke dalam folder **public/frontend** (tambahkan folder baru dengan nama **frontend**)

Name	Date modified	Type
assets 1/25/2021 4:29 PM	File folder	

4. Buat folder baru pada BelajarLaravel Project di folder **resources->view** folder dengan nama **frontend** dan didalamnya dibuat folder baru lagi dengan nama **layouts**. Kemudian ekstrak file **index.html** yang ada pada Butterfly-bootstrap-4.zip ke folder

yang tadi telah dibuat tadi dan diubah extensi filenya menjadi **template.blade.php**. Maka seperti berikut susunannya.



- Ubah file template.blade.php sehingga seperti berikut.(berikut hanya contoh, untuk detailnya lakukan sendiri sesuai instruksi)

```

1 <!DOCTYPE html>
2 <html lang="en">
3
4 <head>
5   <meta charset="utf-8">
6   <meta content="width=device-width, initial-scale=1.0" name="viewport">
7
8   <title>Butterfly Bootstrap Template - Index</title>
9   <meta content="" name="description">
10  <meta content="" name="keywords">
11
12  <!-- Favicons -->
13  <link href="assets/img/favicon.png" rel="icon">
14  <link href="assets/img/apple-touch-icon.png" rel="apple-touch-icon">
15
16  <!-- Google Fonts -->
17  <link href="https://fonts.googleapis.com/css?family=Open+Sans:300,300i,400,400i,600,600i,700,700i|Dosis:300,400,500,,600,700,700i|Lato:300,300i
18
19  <!-- Vendor CSS Files -->
20  <link href="assets/vendor/bootstrap/css/bootstrap.min.css" rel="stylesheet">
21  <link href="assets/vendor/icofont/icofont.min.css" rel="stylesheet">
22  <link href="assets/vendor/boxicons/css/boxicons.min.css" rel="stylesheet">
23  <link href="assets/vendor/venobox/venobox.css" rel="stylesheet">
24  <link href="assets/vendor/line-awesome/css/line-awesome.min.css" rel="stylesheet">
25  <link href="assets/vendor/owl.carousel/assets/owl.carousel.min.css" rel="stylesheet">
26
27  <!-- Template Main CSS File -->
28  <link href="assets/css/style.css" rel="stylesheet">
29
30  <!-- ====== -->

```

resources > views > frontend > layouts > template.blade.php > ...

```

1 <!DOCTYPE html>
2 <html lang="en">
3
4 <head>
5   <meta charset="utf-8">
6   <meta content="width=device-width, initial-scale=1.0" name="viewport">
7
8   <title>{{ config('app.name') }}</title>
9   <meta content="" name="description">
10  <meta content="" name="keywords">
11
12  <!-- Favicons -->
13  <link href="{{ asset('frontend/assets/img/favicon.png') }}" rel="icon">
14  <link href="{{ asset('frontend/assets/img/apple-touch-icon.png') }}" rel="apple-touch-icon">
15
16  <!-- Google Fonts -->
17  <link href="https://fonts.googleapis.com/css?family=Open+Sans:300,300i,400,400i,600,600i,700,700i|Dosis:300,400,500,,600,700,700i|Lato:300,300i
18
19  <!-- Vendor CSS Files -->
20  <link href="{{ asset('frontend/assets/vendor/bootstrap/css/bootstrap.min.css') }}" rel="stylesheet">
21  <link href="{{ asset('frontend/assets/vendor/icofont/icofont.min.css') }}" rel="stylesheet">
22  <link href="{{ asset('frontend/assets/vendor/boxicons/css/boxicons.min.css') }}" rel="stylesheet">
23  <link href="{{ asset('frontend/assets/vendor/venobox/venobox.css') }}" rel="stylesheet">
24  <link href="{{ asset('frontend/assets/vendor/line-awesome/css/line-awesome.min.css') }}" rel="stylesheet">
25  <link href="{{ asset('frontend/assets/vendor/owl.carousel/assets/owl.carousel.min.css') }}" rel="stylesheet">
26
27  <!-- Template Main CSS File -->
28  <link href="{{ asset('frontend/assets/css/style.css') }}" rel="stylesheet">
29

```

6. Perubahan yang dilakukan yaitu menambahkan path url sesuai dengan struktur Laravel `{{ asset('...') }}` . Perubahan yang wajib dilakukan yaitu untuk **gambar/video (jpg,png,svg,ico,... dll), CSS, JavaScript(js)**.
7. Tambah file pada **resource □ view □ frontend** baru dengan nama **navbar.blade.php**, kemudian pindahkan sintak yang ada pada file **template.blade.php** bagian **header line 40-78** ke file **navbar.blade.php**. Sehingga dihasilkan seperti berikut.

```
resources > views > frontend > layouts > navbar.blade.php > ...
1  <!-- ===== Header ===== -->
2  <header id="header" class="fixed-top">
3      <div class="container d-flex align-items-center">
4
5          <a href="index.html" class="logo mr-auto"></a>
6          <!-- Uncomment below if you prefer to use text as a logo -->
7          <!-- <hi class="logo mr-auto"><a href="index.html">Butterfly</a></hi> -->
8
9          <nav class="nav-menu d-none d-lg-block">
10             <ul>
11                 <li class="active"><a href="index.html">Home</a></li>
12                 <li><a href="#about">About</a></li>
13                 <li><a href="#services">Services</a></li>
14                 <li><a href="#portfolio">Portfolio</a></li>
15                 <li><a href="#team">Team</a></li>
16                 <li class="drop-down"><a href="#">Drop Down</a>
17                     <ul>
18                         <li><a href="#">Drop Down 1</a></li>
19                         <li class="drop-down"><a href="#">Deep Drop Down</a>
20                             <ul>
21                                 <li><a href="#">Deep Drop Down 1</a></li>
22                                 <li><a href="#">Deep Drop Down 2</a></li>
23                                 <li><a href="#">Deep Drop Down 3</a></li>
24                                 <li><a href="#">Deep Drop Down 4</a></li>
25                                 <li><a href="#">Deep Drop Down 5</a></li>
26                             </ul>
27                         </li>
28                         <li><a href="#">Drop Down 2</a></li>
29                         <li><a href="#">Drop Down 3</a></li>
30                         <li><a href="#">Drop Down 4</a></li>
31                     </ul>
32                 </li>
33             </ul>
34         </nav>
```

8. Tambah sintak **template.blade.php** pada bagian **header line 40** yang telah dipindahkan tadi. Sehingga dihasilkan seperti berikut.

```
38 <body>
39
40     @include(['frontend/layouts.navbar'])
41
42     <!-- ===== Hero Section ===== -->
43     <section id="hero" class="d-flex align-items-center">
```

9. Tambah file pada **resource □ view □ frontend** baru dengan nama **home.blade.php**, kemudian pindahkan sintak yang ada pada file **template.blade.php** bagian **section** dan **main line 40-78** ke file **home.blade.php**. Tambahkan beberapa sintak blade sehingga dihasilkan seperti berikut.

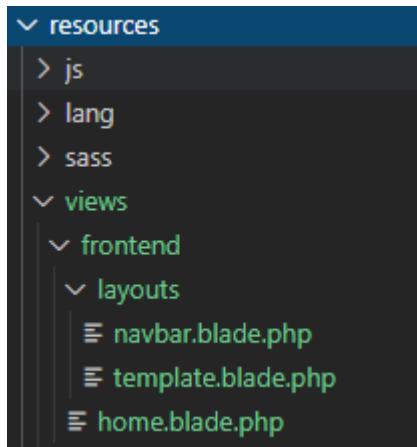
BKPM - WORKSHOP SISTEM INFORMASI WEB FRAMEWORK

```
resources > views > frontend > home.blade.php > ...
1  @extends('frontend/layouts.template')
2
3  @section('content')
4
5  <section id="hero" class="d-flex align-items-center">
6
7      <div class="container">
8          <div class="row">
9              <div class="col-lg-6 pt-4 pt-lg-0 order-2 order-lg-1 d-flex flex-column justify-content-center">
10                 <h1>Creating websites that make you stop & stare</h1>
11                 <h2>Accusantium quam, aliquam ultricies eget tempor id, aliquam eget nibh et. Maecen aliquam, risus at semper. Proin iaculis purus cons
12                     <div><a href="#" class="btn-get-started scrollto">Get Started</a></div>
13                 </div>
14                 <div class="col-lg-6 order-1 order-lg-2 hero-img">
15                     
16                 </div>
17             </div>
18         </div>
19
20     </section><!-- End Hero -->
21
22     <main id="main">
23
24         <!-- ===== About Section ===== -->
25         <section id="about" class="about">
26             <div class="container">
27
28                 <div class="row">
29                     <div class="col-xl-5 col-lg-6 d-flex justify-content-center video-box align-items-stretch">
30                         <a href="https://www.youtube.com/watch?v=jUBaplaOz7Q" class="venobox play-btn mb-4" data-vbtype="video" data-autoplay="true"></a>
31                     </div>
32
33                     <div class="sent-message">Your message has been sent. Thank you!</div>
34                 </div>
35                 <div class="text-center"><button type="submit">Send Message</button></div>
36             </form>
37
38         </div>
39     </section><!-- End Contact Section -->
40
41     </main><!-- End #main -->
42
43     @endsection
```

10. Tambah sintak **template.blade.php** pada bagian **content line 41** yang telah dipindahkan tadi. Sehingga dihasilkan seperti berikut:

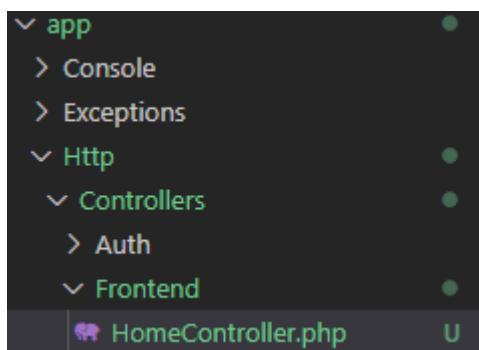
```
38  <body>
39
40      @include('frontend/layouts.navbar')
41
42      @yield('content')
43
44      <!-- ===== Footer ===== -->
45      <footer id="footer">
46
```

11. Sehingga dihasilkan susunan folder seperti berikut.



12. Buat folder baru pada BelajarLaravel Project di folder **App->http->controllers** folder dengan nama **frontend**. Tekan **Terminal->New Terminal** kemudian ketikan sintak berikut:

```
php artisan make:controller HomeController
```



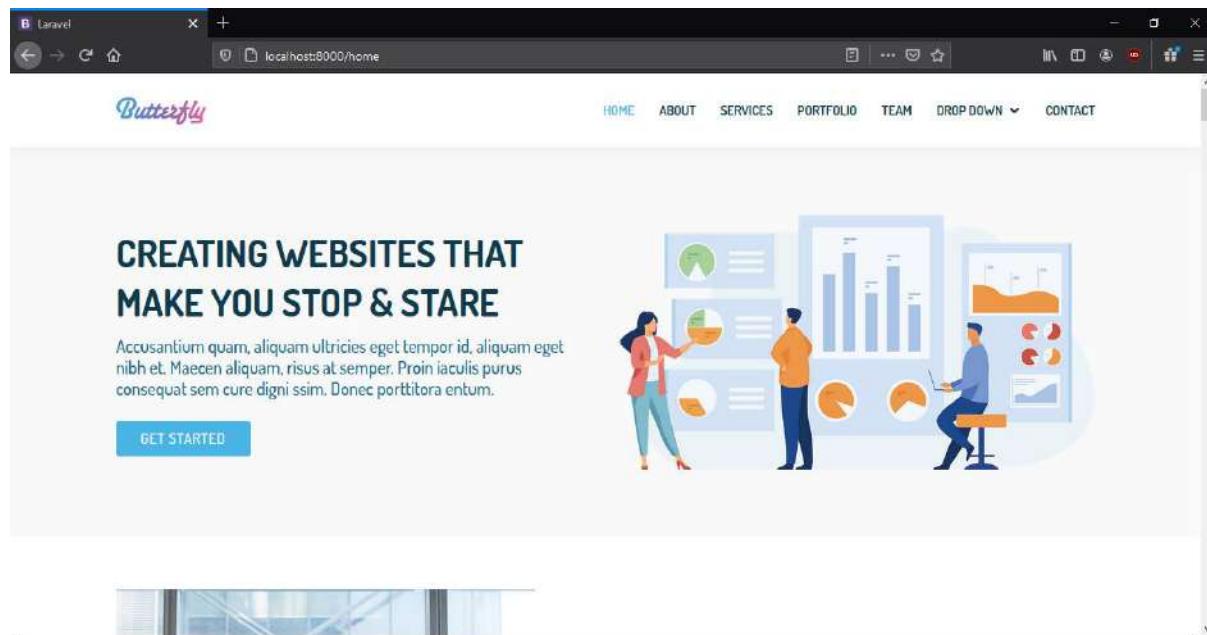
13. Buka folder **resources** □ **web.php** untuk menambahkan alamat url baru yang menghubungkan dengan **HomeController.php**. Tambahkan sintak berikut:

```
38 | Route::group(['namespace' => 'Frontend'], function()
39 | {
40 |     Route::resource('home', 'HomeController');
41 | });
42 |
```

14. Buka folder **app** □ **Http** □ **HomeController.php** untuk sintak berikut:

```
app > Http > Controllers > FrontEnd > HomeController.php > ...
1  <?php
2
3  namespace App\Http\Controllers\Frontend;
4
5  use Illuminate\Http\Request,
6  App\Http\Controllers\Controller;
7
8  class HomeController extends Controller
9  {
10     public function index()
11     {
12         return view('frontend.home');
13     }
14 }
```

15. Kemudian buka web browser dan ketikkan **localhost:8000/home** setelah mengaktifkan cmd **php artisan serve** sehingga akan muncul tampilan seperti berikut:



g. Hasil dan Pembahasan

Format Laporan

Kertas A4

Format *.pdf

Struktur Laporan: Cover, Pendahuluan, Hasil Praktik, Kesimpulan dan Daftar Pustaka

Berikan Identitas Diri: NIM, Nama, Golongan, Tugas Minggu Ke-X

Penamaan File: ACARA-X_GOL_NIM_NAMA.pdf

**Contoh: **ACARA-1_A_E1234356_KHAFID.pdf

Kumpulkan pada <http://jti.polije.ac.id/elearning/>

h. Kesimpulan

1. Mahasiswa memahami dan mengimplementasikan Menambahkan Template dengan Blade Laravel (Bootstrap)

i. Rubrik Penilaian

No	Indikator Penilaian	Nilai			
		1	2	3	4
1	Ketepatan waktu dan ketepatan Langkah kerja dalam mengerjakan				V
2	Ketepatan waktu dan Langkah kerja kurang tepat dalam mengerjakan			V	
3	Keterlambatan waktu dan Langkah kerja yang dilakukan kurang tepat		V		
4	Keterlambatan waktu pengumpulan dan Langkah kerja tidak selesai	V			
	Total Skor*	Skor x 25			

ACARA 15 DAN 16. Menambahkan Template dengan Blade Laravel (Bootstrap)

Pokok Bahasan	: Menambahkan Template dengan Blade Laravel (Bootstrap)
Acara Praktikum/Praktik	: Minggu 4/3 dan 4
Tempat	: Daring/Luring Politeknik Negeri Jember
Alokasi Waktu	: 100 menit

a. Capaian Pembelajaran Mata Kuliah (CPMK)

1. Mahasiswa mampu memahami dan mengimplementasikan Menambahkan Template dengan Blade Laravel (Bootstrap)

b. Penilaian Bertahap BNSP (*Skill Passport*)

Nama Skema Sertifikasi: Pengembang Web/Web Developer (SKM-496-028)

No	Kode Unit	Nama Unit Kompetensi	Elemen Kompetensi
1	J.620100.017.02	Mengimplementasikan Pemrograman Terstruktur	<ul style="list-style-type: none">• Menggunakan tipe data dan control program• Membuat program untuk akses file• Membuat program untuk akses file
2	J.620100.018.02	Mengimplementasikan Pemrograman Berorientasi Objek	<ul style="list-style-type: none">• Membuat program berorientasi objek dengan memanfaatkan class• Menggunakan tipe data dan control program pada metode atau operasi dari suatu kelas• Membuat program dengan konsep berbasis objek• Membuat program object oriented dengan interface dan paket• Mengkompilasi Program

c. Indikator Penilaian

1. Mahasiswa memahami dan mengimplementasikan Menambahkan Template dengan Blade Laravel (Bootstrap)

d. Dasar Teori

e. Alat dan Bahan

1. Client Server: Xampp
2. Text Editor: Visual Code
3. Management Storage: Git dan Github
4. Tools Dependency Manager Multiplatform: Composer

f. Prosedur Kerja

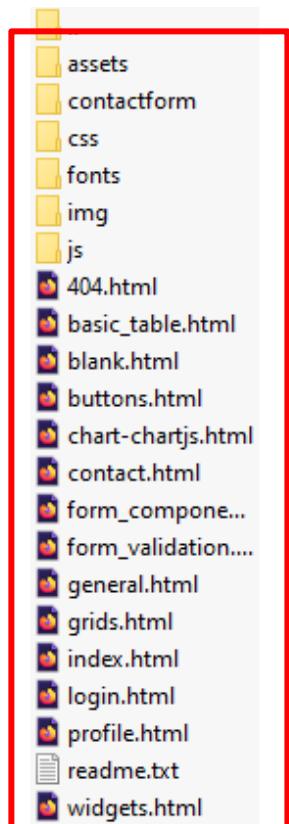
1. Download template:

<https://bootstrapmade.com/content/templatefiles/NiceAdmin/NiceAdmin.zip>

2. Buka file NiceAdmin.zip hasil download

PC > Downloads > Compressed			
Name	Date modified	Type	Size
[www.gigapurbalingga.net]_pSubImTxt3...	1/14/2021 10:01 AM	WinRAR archive	6 KB
Butterfly-bootstrap-4.zip	1/27/2021 12:31 PM	WinRAR ZIP archive	7,269 KB
final_thesis-20210117T110756Z-001.zip	1/17/2021 6:17 PM	WinRAR ZIP archive	632,319 KB
mobile_painting_20210117T102542Z-001....	1/17/2021 5:37 PM	WinRAR ZIP archive	438,285 KB
NiceAdmin.zip	1/29/2021 11:05 AM	WinRAR ZIP archive	3,561 KB
soimtx32win.rar	1/14/2021 9:48 AM	WinRAR archive	20,630 KB
SmartGesture_Win10_64_VER4012.zip	1/11/2021 11:20 AM	WinRAR ZIP archive	55,044 KB
themefest-ebiKXkaD-unice-app-landin...	1/13/2021 10:28 AM	WinRAR ZIP archive	67,771 KB

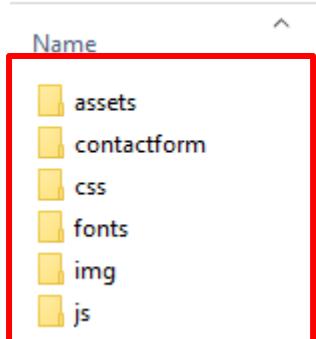




			File folder		
assets	4,799,477	1,660,440	File folder	1/28/2019 12:0...	
contactform	3,535	959	File folder	1/28/2019 12:0...	
css	497,707	87,944	File folder	1/28/2019 12:0...	
fonts	1,209,565	629,984	File folder	1/28/2019 12:0...	
img	590,693	532,230	File folder	1/28/2019 12:0...	
js	2,109,466	571,375	File folder	1/28/2019 12:0...	
404.html	2,227	870	Firefox HTML Doc...	5/31/2018 2:42 ...	CD399376
basic_table.html	35,898	4,386	Firefox HTML Doc...	5/31/2018 2:42 ...	08B48D70
blank.html	18,306	3,034	Firefox HTML Doc...	5/31/2018 2:42 ...	E439A56E
buttons.html	42,679	4,552	Firefox HTML Doc...	5/31/2018 2:42 ...	AF9EB891
chart-chartjs.html	22,866	3,367	Firefox HTML Doc...	5/31/2018 2:42 ...	90CB8483
contact.html	20,764	3,631	Firefox HTML Doc...	5/31/2018 2:42 ...	E5B570D0
form_compon...	50,347	6,109	Firefox HTML Doc...	5/31/2018 2:42 ...	E3D7D108
form_validation....	24,813	3,683	Firefox HTML Doc...	5/31/2018 2:42 ...	DEF8FE6E
general.html	48,780	6,397	Firefox HTML Doc...	5/31/2018 2:42 ...	8224F989
grids.html	23,808	3,265	Firefox HTML Doc...	5/31/2018 2:42 ...	00BB03CA
index.html	47,768	6,458	Firefox HTML Doc...	5/31/2018 2:42 ...	77558401
login.html	3,107	1,083	Firefox HTML Doc...	5/31/2018 2:42 ...	A15C8B53
profile.html	36,155	5,070	Firefox HTML Doc...	5/31/2018 2:42 ...	84D5F2DB
readme.txt	201	129	Text Document	10/11/2016 3:0...	57DF66E7
widgets.html	21,243	3,370	Firefox HTML Doc...	5/31/2018 2:42 ...	CB3209EC

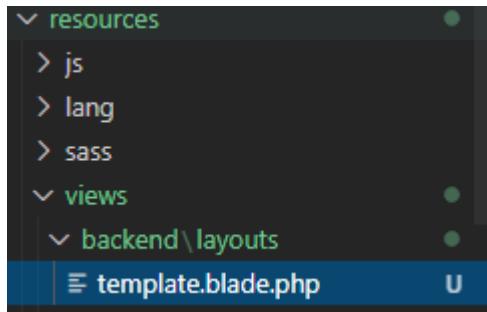
3. Ekstrak folder **assets**, **contactform**, **css**, **fonts**, **img** dan **js** ke folder BelajarLaravel Project ke dalam folder public/backend (tambahkan folder baru dengan nama **backend**)

: PC > Local Disk (C:) > xampp > htdocs > BelajarLaravel > public > backend >



Name	Date modified	Type
assets	1/28/2019 12:04 PM	File folder
contactform	1/28/2019 12:04 PM	File folder
css	1/28/2019 12:04 PM	File folder
fonts	1/28/2019 12:04 PM	File folder
img	1/28/2019 12:04 PM	File folder
js	1/28/2019 12:04 PM	File folder

4. Buat folder baru pada BelajarLaravel Project di folder **resources** **view** folder dengan nama **backend** dan didalamnya dibuat folder baru lagi dengan nama **layouts**. Kemudian ekstrak file **index.html** yang ada pada NiceAdmin.zip ke folder yang tadi telah dibuat tadi dan diubah extensi filenya menjadi **template.blade.php**. Maka serperti berikut susunannya.



5. Ubah file template.blade.php sehingga seperti berikut.(**berikut hanya contoh, untuk detailnya lakukan sendiri sesuai instruksi**)

```

1 <!DOCTYPE html>
2 <html lang="en">
3
4   <head>
5     <meta charset="utf-8">
6     <meta name="viewport" content="width=device-width, initial-scale=1.0">
7     <meta name="description" content="Creative - Bootstrap 3 Responsive Admin Template">
8     <meta name="author" content="GeeksLabs">
9     <meta name="keyword" content="Creative, Dashboard, Admin, Template, Theme, Bootstrap, Responsive, Retina, Minimal">
10    <link rel="shortcut icon" href="img/favicon.png">
11
12    <title>Creative - Bootstrap Admin Template</title>
13
14    <!-- Bootstrap CSS -->
15    <link href="css/bootstrap.min.css" rel="stylesheet">
16    <!-- bootstrap theme -->
17    <link href="css/bootstrap-theme.css" rel="stylesheet">
18    <!-- external css-->
19    <!-- font icon -->
20    <link href="css/elegant-icons-style.css" rel="stylesheet" />
21    <link href="css/font-awesome.min.css" rel="stylesheet" />
22    <!-- full calendar css-->
23    <link href="assets/fullcalendar/fullcalendar/bootstrap-fullcalendar.css" rel="stylesheet" />
24    <link href="assets/fullcalendar/fullcalendar/fullcalendar.css" rel="stylesheet" />
25    <!-- easy pie chart-->
26    <link href="assets/jquery-easy-pie-chart/jquery.easy-pie-chart.css" rel="stylesheet" type="text/css" media="screen" />
27    <!-- owl carousel -->
28    <link rel="stylesheet" href="css/owl.carousel.css" type="text/css">
29    <link href="css/jquery-jvectormap-1.2.2.css" rel="stylesheet">
30    <!-- Custom styles -->
31    <link rel="stylesheet" href="css/fullcalendar.css">
32    <link href="css/widgets.css" rel="stylesheet">
33
34  </head>
35  <body>
36
37    <div id="app">
38      <div>
39        <div>
40          <div>
41            <div>
42              <div>
43                <div>
44                  <div>
45                    <div>
46                      <div>
47                        <div>
48                          <div>
49                            <div>
50                              <div>
51                                <div>
52                                  <div>
53                                    <div>
54                                      <div>
55                                        <div>
56                                          <div>
57                                            <div>
58                                              <div>
59                                                <div>
60                                                  <div>
61                                                    <div>
62                                                      <div>
63                                                        <div>
64                                                          <div>
65                                                            <div>
66                                                              <div>
67                                                                <div>
68                                                                  <div>
69                                                                    <div>
70                                                                      <div>
71                                                                        <div>
72                                                                          <div>
73                                                                            <div>
74                                                                              <div>
75                                                                                <div>
76                                                                                  <div>
77                                                                                    <div>
78                                                                 <div>
79
80          </div>
81        </div>
82      </div>
83    </div>
84
85    <script>
86      <!-- app.js -->
87      <script src="js/app.js" type="text/javascript">
88    </script>
89
90  </body>
91
92  </html>

```

The code block shows two versions of the template.blade.php file. The top version is the original template, and the bottom version is the modified one. The modifications are highlighted with red boxes:

- The title tag is changed from `<title>Creative - Bootstrap Admin Template</title>` to `<title>{{ config('app.name') }}</title>`.
- The link to the favicon is removed: `<link rel="shortcut icon" href="img/favicon.png">`.
- The link to the CSS file is replaced with a Laravel asset call: `<link href="{{ asset('backend/css/bootstrap.min.css') }}" rel="stylesheet">`.
- The link to the bootstrap-theme.css file is replaced with a Laravel asset call: `<link href="{{ asset('backend/css/bootstrap-theme.css') }}" rel="stylesheet">`.
- The link to the elegant-icons-style.css file is replaced with a Laravel asset call: `<link href="{{ asset('backend/css/elegant-icons-style.css') }}" rel="stylesheet" />`.
- The link to the font-awesome.min.css file is replaced with a Laravel asset call: `<link href="{{ asset('backend/css/font-awesome.min.css') }}" rel="stylesheet" />`.
- The link to the fullcalendar.css file is replaced with a Laravel asset call: `<link href="{{ asset('backend/assets/fullcalendar/fullcalendar/bootstrap-fullcalendar.css') }}" rel="stylesheet" />`.
- The link to the fullcalendar.fullcalendar.css file is replaced with a Laravel asset call: `<link href="{{ asset('backend/assets/fullcalendar/fullcalendar/fullcalendar.css') }}" rel="stylesheet" />`.
- The link to the jquery-easy-pie-chart.jquery.easy-pie-chart.css file is replaced with a Laravel asset call: `<link href="{{ asset('backend/assets/jquery-easy-pie-chart/jquery.easy-pie-chart.css') }}" rel="stylesheet" type="text/css" media="screen" />`.
- The link to the owl.carousel.css file is replaced with a Laravel asset call: `<link rel="stylesheet" href="{{ asset('backend/css/owl.carousel.css') }}" type="text/css">`.
- The link to the jquery-jvectormap-1.2.2.css file is replaced with a Laravel asset call: `<link href="{{ asset('backend/css/jquery-jvectormap-1.2.2.css') }}" rel="stylesheet">`.
- The link to the fullcalendar.css file is replaced with a Laravel asset call: `<link rel="stylesheet" href="{{ asset('backend/css/fullcalendar.css') }}">`.
- The link to the widgets.css file is replaced with a Laravel asset call: `<link href="{{ asset('backend/css/widgets.css') }}" rel="stylesheet">`.

A large blue arrow points from the original template at the top to the modified template at the bottom, indicating the transformation process.

Perubahan yang dilakukan yaitu menambahkan path url sesuai dengan struktur Laravel `{{ asset('...') }}`. Perubahan yang wajib dilakukan yaitu untuk **gambar/video (jpg,png,svg,ico,... dll), CSS, JavaScript(js)**.

6. Tambah file pada **resource □ view □ backend** baru dengan nama **sidebar.blade.php**, kemudian pindahkan sintak yang ada pada file **template.blade.php** bagian **sidebar line 312-390** ke file **sidebar.blade.php**. Sehingga dihasilkan seperti berikut.

```
1  <!--sidebar start-->
2  <aside>
3  |   <div id="sidebar" class="nav-collapse ">
4  |   |   <!-- sidebar menu start-->
5  |   |   <ul class="sidebar-menu">
6  |   |   |   <li class="active">
7  |   |   |   |   <a class="" href="index.html">
8  |   |   |   |   |   <i class="icon_house_alt"></i>
9  |   |   |   |   |   <span>Dashboard</span>
10 |   |   |   |   </a>
11 |   |   |   </li>
12 |   |   <li class="sub-menu">
13 |   |   |   <a href="javascript:;" class="">
14 |   |   |   |   <i class="icon_document_alt"></i>
15 |   |   |   |   <span>Forms</span>
16 |   |   |   |   <span class="menu-arrow arrow_carrot-right"></span>
17 |   |   |   </a>
18 |   |   |   <ul class="sub">
19 |   |   |   |   <li><a class="" href="form_component.html">Form Elements</a></li>
20 |   |   |   |   <li><a class="" href="form_validation.html">Form Validation</a></li>
21 |   |   |   </ul>
22 |   |   </li>
23 |   <li class="sub-menu">
24 |   |   <a href="javascript:;" class="">
25 |   |   |   <i class="icon_desktop"></i>
26 |   |   |   <span>UI Fitures</span>
27 |   |   |   <span class="menu-arrow arrow_carrot-right"></span>
28 |   |   </a>
29 |   |   <ul class="sub">
30 |   |   |   <li><a class="" href="general.html">Elements</a></li>
31 |   |   |   <li><a class="" href="buttons.html">Buttons</a></li>
32 |   |   |   <li><a class="" href="grids.html">Grids</a></li>
```

7. Tambah sintak **template.blade.php** pada bagian **sidebar line 312** yang telah dipindahkan tadi. Sehingga dihasilkan seperti berikut.

```
310  |   <!--header end-->
311  |
312  |   @include('backend/layouts.sidebar')
313  |
314  |   <!--main content start-->
```

8. Tambah file pada **resource □ view □ backend** baru dengan nama **dashboard.blade.php**, kemudian pindahkan sintak yang ada pada file

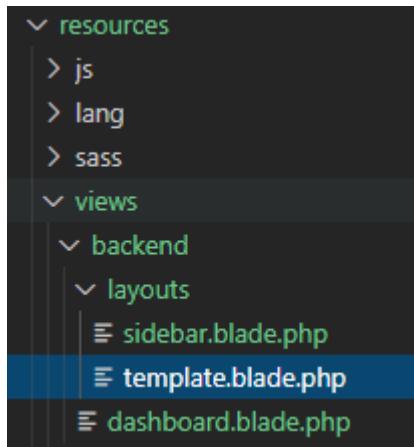
template.blade.php bagian **main line 314-980** ke file **dashboard.blade.php**.
Tambahkan beberapa sintak blade sehingga dihasilkan seperti berikut.

```
1 @extends('backend/layouts.template')
2
3 @section('content')
4
5     <!--Main content start-->
6     <section id="main-content">
7         <section class="wrapper">
8             <!--overview start-->
9             <div class="row">
10                <div class="col-lg-12">
11                    <h3 class="page-header"><i class="fa fa-laptop"></i> Dashboard</h3>
12                    <ol class="breadcrumb">
13                        <li><i class="fa fa-home"></i><a href="index.html">Home</a></li>
14                        <li><i class="fa fa-laptop"></i>Dashboard</li>
15                    </ol>
16                </div>
17            </div>
18
19            <div class="row">
20                <div class="col-lg-3 col-md-3 col-sm-12 col-xs-12">
21                    <div class="info-box blue-bg">
22                        <i class="fa fa-cloud-download"></i>
23                        <div class="count">6.674</div>
24                        <div class="title">Download</div>
25                    </div>
26                    <!--/.info-box-->
27                </div>
28            <!--/.col-->
29
30            <div class="col-lg-3 col-md-3 col-sm-12 col-xs-12">
31                <div class="info-box brown-bg">
32                    <i class="fa fa-shopping-cart"></i>
33
34                    Licensing information: https://bootstrapmade.com/license/
35                    Purchase the pro version form: https://bootstrapmade.com/buy/?theme=NiceAdmin
36
37                    -->
38                    Designed by <a href="https://bootstrapmade.com/">BootstrapMade</a>
39                </div>
40            </div>
41        </section>
42        <!--main content end-->
43
44    @endsection
```

9. Tambah sintak **template.blade.php** pada bagian **content line 314** yang telah dipindahkan tadi. Sehingga dihasilkan seperti berikut.

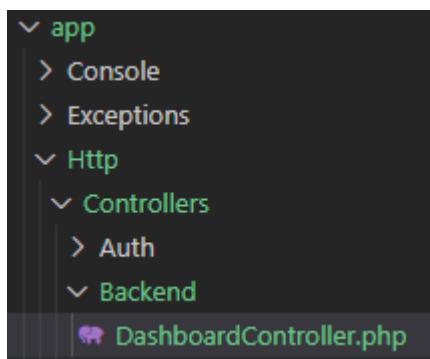
```
311
312     @include('backend/layouts.sidebar')
313
314     @yield('content')
315
316     </section>
317     <!-- container section start -->
```

10. Sehingga dihasilkan susunan folder seperti berikut.



11. Buat folder baru pada BelajarLaravel Project di folder **App->http->controllers** folder dengan nama **backend**. Tekan **Terminal->New Terminal** kemudian ketikan sintak berikut:

```
php artisan make:controller DashboardController
```



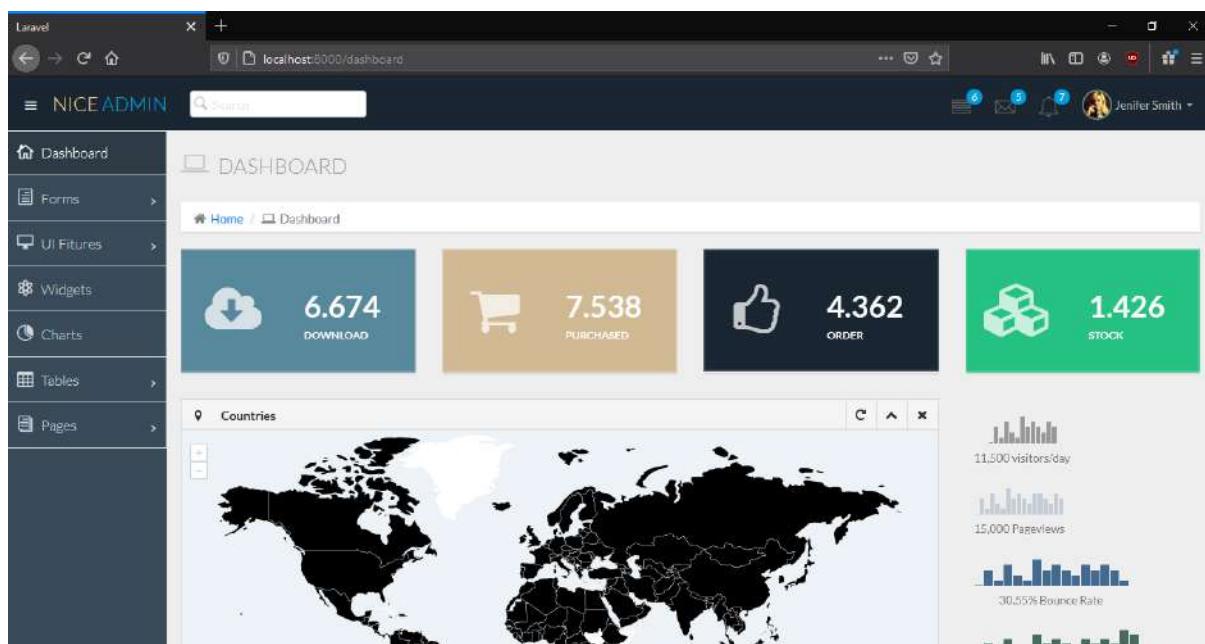
12. Buka folder **resources** □ **web.php** untuk menambahkan alamat url baru yang menghubungkan dengan **DashboardController.php**. Tambahkan sintak berikut:

```
43 | Route::group(['namespace' => 'Backend'], function()
44 | {
45 |     Route::resource('dashboard', 'DashboardController');
46 | });
|
```

13. Buka folder **app** □ **Http** □ **DashboardController.php** untuk sintak berikut:

```
app > Http > Controllers > Backend > DashboardController.php > ...
1  <?php
2
3  namespace App\Http\Controllers\Backend;
4
5  use Illuminate\Http\Request,
6  App\Http\Controllers\Controller;
7
8  class DashboardController extends Controller
9  {
10     public function index()
11     {
12         return view('backend.dashboard');
13     }
14 }
15
```

14. Kemudian buka web browser dan ketikkan **localhost:8000/dashboard** setelah mengaktifkan cmd **php artisan serve** sehingga akan muncul tampilan seperti berikut:



g. Hasil dan Pembahasan

Format Laporan

Kertas A4

Format *.pdf

Struktur Laporan: Cover, Pendahuluan, Hasil Praktik, Kesimpulan dan Daftar Pustaka

Berikan Identitas Diri: NIM, Nama, Golongan, Tugas Minggu Ke-X

Penamaan File: ACARA-X_GOL_NIM_NAMA.pdf

**Contoh: **ACARA-1_A_E1234356_KHAFID.pdf

Kumpulkan pada <http://jti.polije.ac.id/elearning/>

h. Kesimpulan

1. Mahasiswa memahami dan mengimplementasikan Menambahkan Template dengan Blade Laravel (Bootstrap)

i. Rubrik Penilaian

No	Indikator Penilaian	Nilai			
		1	2	3	4
1	Ketepatan waktu dan ketepatan Langkah kerja dalam mengerjakan				V
2	Ketepatan waktu dan Langkah kerja kurang tepat dalam mengerjakan			V	
3	Keterlambatan waktu dan Langkah kerja yang dilakukan kurang tepat		V		
4	Keterlambatan waktu pengumpulan dan Langkah kerja tidak selesai	V			
	Total Skor*	Skor x 25			

ACARA 17. Membuat Database dan Migration pada Laravel (1)

Pokok Bahasan	: Membuat Database dan Migration pada Laravel
Acara Praktikum/Praktik	: Minggu 5/1
Tempat	: Daring/Luring Politeknik Negeri Jember
Alokasi Waktu	: 100 menit

a. Capaian Pembelajaran Mata Kuliah (CPMK)

1. Mahasiswa mampu memahami database, migration dan seeder pada Laravel
2. Mahasiswa mampu membuat database, migration dan seeder pada Laravel

b. Penilaian Bertahap BNSP (*Skill Passport*)

Nama Skema Sertifikasi: Pengembang Web/Web Developer (SKM-496-028)

No	Kode Unit	Nama Unit Kompetensi	Elemen Kompetensi
1	J.620100.017.02	Mengimplementasikan Pemrograman Terstruktur	<ul style="list-style-type: none">• Menggunakan tipe data dan control program• Membuat program untuk akses file• Membuat program untuk akses file
2	J.620100.018.02	Mengimplementasikan Pemrograman Berorientasi Objek	<ul style="list-style-type: none">• Membuat program berorientasi objek dengan memanfaatkan class• Menggunakan tipe data dan control program pada metode atau operasi dari suatu kelas• Membuat program dengan konsep berbasis objek• Membuat program object oriented dengan interface dan paket• Mengkompilasi Program

c. Indikator Penilaian

1. Kemampuan mahasiswa dalam mengimplementasikan pembuatan database, migration dan seeder pada Laravel

d. Dasar Teori

Migration adalah suatu cara yang digunakan untuk membuat database secara langsung dengan mengeksekusi kode program, bukan melalui eksekusi SQL. Dengan menggunakan migration, dapat menggantikan kode SQL dengan kode program untuk membuat database. Seeder adalah fitur yang dapat digunakan untuk meinputkan data pada database.

e. Alat dan Bahan

1. Client Server: Xampp
2. Text Editor: Visual Code
3. Management Storage: Git dan Github
4. Tools Dependency Manager Multiplatform: Composer
5. Kertas A4 / Folio
6. Pulpen

f. Prosedur Kerja

1. Jelaskan apa yang anda ketahui tentang database, migration dan seeder?
2. Apakah fungsi dari migration pada Laravel?
3. Bagaimana langkah yang digunakan untuk membuat migration pada Laravel?
4. Apakah fungsi seeder pada Laravel?
5. Bagaimana Langkah yang digunakan untuk membuat seeder pada Laravel?

g. Hasil dan Pembahasan

Format Laporan

Kertas A4

Format *.pdf

Struktur Laporan: Cover, Pendahuluan, Hasil Praktik, Kesimpulan dan Daftar Pustaka

Berikan Identitas Diri: NIM, Nama, Golongan, Tugas Minggu Ke-X

Penamaan File: ACARA-X_GOL_NIM_NAMA.pdf

**Contoh: **ACARA-1_A_E1234356_KHAFID.pdf

Kumpulkan pada <http://iti.polije.ac.id/elearning/>

h. Kesimpulan

1. Mahasiswa mampu memahami konsep database, migration dan seeder pada Laravel

i. Rubrik Penilaian

No	Indikator Penilaian	Skor*			
		1	2	3	4
1	Ketepatan waktu dan ketepatan penggerjaan tugas disertai referensi				V
2	Ketepatan waktu dan ketepatan penggerjaan tanpa disertai referensi			V	
3	Keterlambatan waktu dan ketepatan penggerjaan disertai referensi	V			
4	Keterlambatan waktu pengumpulan dan kesalahan penggerjaan	V			
	Total Skor*	Skor x 25			

ACARA 18. Membuat Database dan Migration pada Laravel (2)

Pokok Bahasan : Membuat Database dan Migration pada Laravel

Acara Praktikum/Praktik : Minggu 5/2

Tempat : Daring/Luring Politeknik Negeri Jember

Alokasi Waktu : 100 menit

a. Capaian Pembelajaran Mata Kuliah (CPMK)

1. Mahasiswa mampu memahami database, migration dan seeder pada Laravel
2. Mahasiswa mampu membuat database, migration dan seeder pada Laravel

b. Penilaian Bertahap BNSP (*Skill Passport*)

Nama Skema Sertifikasi: Pengembang Web/Web Developer (SKM-496-028)

No	Kode Unit	Nama Unit Kompetensi	Elemen Kompetensi
1	J.620100.017.02	Mengimplementasikan Pemrograman Terstruktur	<ul style="list-style-type: none">• Menggunakan tipe data dan control program• Membuat program untuk akses file• Membuat program untuk akses file
2	J.620100.018.02	Mengimplementasikan Pemrograman Berorientasi Objek	<ul style="list-style-type: none">• Membuat program berorientasi objek dengan memanfaatkan class• Menggunakan tipe data dan control program pada metode atau operasi dari suatu kelas• Membuat program dengan konsep berbasis objek• Membuat program object oriented dengan interface dan paket• Mengkompilasi Program

c. Indikator Penilaian

1. Kemampuan mahasiswa dalam mengimplementasikan pembuatan database, migration dan seeder pada Laravel

d. Dasar Teori

e. Alat dan Bahan

1. Client Server: Xampp
2. Text Editor: Visual Code
3. Management Storage: Git dan Github
4. Tools Dependency Manager Multiplatform: Composer

f. Prosedur Kerja

1. Membuat database baru dengan nama db_belajarlaravel

Databases

The screenshot shows the phpMyAdmin interface under the 'Databases' tab. A red box highlights the 'Create' button. The 'Database' input field contains 'db_belajarlaravel' and the 'Collation' dropdown is set to 'utf8mb4_general_ci'. Below the table, it says 'Total: 6'.

Database	Collation	Action
db_en_web	utf8mb4_general_ci	<input type="button"/> Check privileges
information_schema	utf8_general_ci	<input type="button"/> Check privileges
mysql	utf8mb4_general_ci	<input type="button"/> Check privileges
performance_schema	utf8_general_ci	<input type="button"/> Check privileges
phpmyadmin	utf8_bin	<input type="button"/> Check privileges
test	latin1_swedish_ci	<input type="button"/> Check privileges

Total: 6

2. Membuka file **.env** pada BelajarLaravel project, ubah sintak sebagai berikut:

```
9  DB_CONNECTION=mysql
10 DB_HOST=127.0.0.1
11 DB_PORT=3306
12 DB_DATABASE=db_belajarlaravel
13 DB_USERNAME=root
14 DB_PASSWORD=
```

DB_DATABASE isi dengan nama database yang telah di buat

DB_USERNAME isi dengan username mysql/phpmyadmin defaultnya "**root**"

DB_PASSWORD isi dengan password mysql/phpMyAdmin defaultnya **kosong**

g. Tekan **Terminal->New Terminal** kemudian ketikan sintak berikut.

php artisan make:migration create_detail_profile_table

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** On the left, it shows the project structure under "BELAJARLARVEL". The "migrations" folder contains several migration files, including "2014_10_12_000001_create_users_table.php", "2014_10_12_100000_create_password_resets_table.php", "2019_08_19_000420_create_sessions_table.php", and "2021_01_31_032440_create_detail_profile_table.php".
- Code Editor:** The main editor area displays the code for the "2021_01_31_032440_create_detail_profile_table.php" migration. The code defines a class "CreateDetailProfileTable" that extends "Migration". It uses the "Blueprint" facade to create a table named "detail_profile" with an auto-incrementing "id" column and timestamps.
- Terminal:** At the bottom, the terminal window shows the command "php artisan make:migration create_detail_profile_table" being run, followed by the output "Created Migration: 2021_01_31_032440_create_detail_profile_table".

3. Buka folder **database** □ **Migration** □
2021_01_31_032440_create_detail_profile_table.php kemudian tambahkan sehingga sintak menjadi seperti berikut:

```
14     public function up()
15     {
16         Schema::create('detail_profile', function (Blueprint $table) {
17             $table->bigIncrements('id');
18             $table->string('address');
19             $table->string('nomor_tlp');
20             $table->date('ttl');
21             $table->string('foto');
22             $table->timestamps();
23         });
24     }
```

h. Hasil dan Pembahasan

Format Laporan

Kertas A4

Format *.pdf

Struktur Laporan: Cover, Pendahuluan, Hasil Praktik, Kesimpulan dan Daftar Pustaka

Berikan Identitas Diri: NIM, Nama, Golongan, Tugas Minggu Ke-X

Penamaan File: ACARA-X_GOL_NIM_NAMA.pdf

**Contoh: **ACARA-1_A_E1234356_KHAFID.pdf

Kumpulkan pada <http://jti.polije.ac.id/elearning/>

i. Kesimpulan

1. Mahasiswa memahami dan mengimplementasikan Membuat Database dan Migration pada Laravel

j. Rubrik Penilaian

No	Indikator Penilaian	Nilai			
		1	2	3	4
1	Ketepatan waktu dan ketepatan Langkah kerja dalam mengerjakan				V
2	Ketepatan waktu dan Langkah kerja kurang tepat dalam mengerjakan			V	
3	Keterlambatan waktu dan Langkah kerja yang dilakukan kurang tepat		V		
4	Keterlambatan waktu pengumpulan dan Langkah kerja tidak selesai	V			
	Total Skor*	Skor x 25			

ACARA 19. Membuat Database dan Migration pada Laravel (3)

Pokok Bahasan : Membuat Database dan Migration pada Laravel

Acara Praktikum/Praktik : Minggu 5/3

Tempat : Daring/Luring Politeknik Negeri Jember

Alokasi Waktu : 100 menit

a. Capaian Pembelajaran Mata Kuliah (CPMK)

1. Mahasiswa mampu memahami database, migration dan seeder pada Laravel
2. Mahasiswa mampu membuat database, migration dan seeder pada Laravel

b. Penilaian Bertahap BNSP (*Skill Passport*)

Nama Skema Sertifikasi: Pengembang Web/Web Developer (SKM-496-028)

No	Kode Unit	Nama Unit Kompetensi	Elemen Kompetensi
1	J.620100.017.02	Mengimplementasikan Pemrograman Terstruktur	<ul style="list-style-type: none">• Menggunakan tipe data dan control program• Membuat program untuk akses file• Membuat program untuk akses file
2	J.620100.018.02	Mengimplementasikan Pemrograman Berorientasi Objek	<ul style="list-style-type: none">• Membuat program berorientasi objek dengan memanfaatkan class• Menggunakan tipe data dan control program pada metode atau operasi dari suatu kelas• Membuat program dengan konsep berbasis objek• Membuat program object oriented dengan interface dan paket• Mengkompilasi Program

c. Indikator Penilaian

1. Mahasiswa mampu mengimplementasikan pembuatan database, migration dan seeder pada Laravel

d. Dasar Teori

e. Alat dan Bahan

1. Client Server: Xampp
2. Text Editor: Visual Code
3. Management Storage: Git dan Github
4. Tools Dependency Manager Multiplatform: Composer

f. Prosedur Kerja

1. Tekan **Terminal** □ **New Terminal** kemudian ketikan sintak berikut.

```
php artisan migrate
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\xampp\htdocs\BelajarLaravel> php artisan migrate
Migration table created successfully.
Migrating: 2014_10_12_000000_create_users_table
Migrated: 2014_10_12_000000_create_users_table (0.12 seconds)
Migrating: 2014_10_12_100000_create_password_resets_table
Migrated: 2014_10_12_100000_create_password_resets_table (0.09 seconds)
Migrating: 2019_08_19_000000_create_failed_jobs_table
Migrated: 2019_08_19_000000_create_failed_jobs_table (0.09 seconds)
Migrating: 2021_01_31_032440_create_detail_profile_table
Migrated: 2021_01_31_032440_create_detail_profile_table (0.04 seconds)
PS C:\xampp\htdocs\BelajarLaravel>
```

2. Setelah mengeksekusi migration yang telah dibuat maka bisa dilihat bahwa isi dari database db_belajarlaravel telah terisi table-table baru.

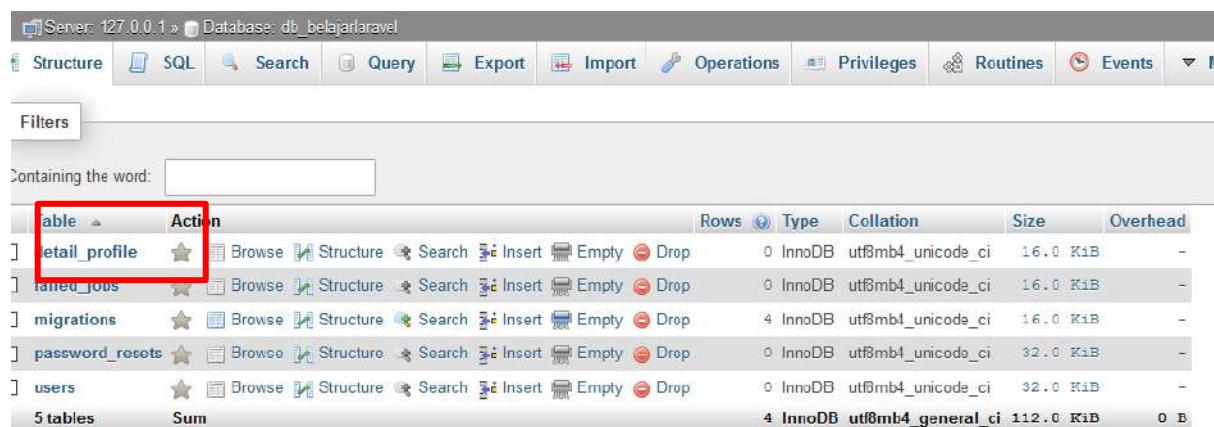


Table	Action	Rows	Type	Collation	Size	Overhead
detail_profile	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_unicode_ci	16.0 KiB	-
failed_jobs	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_unicode_ci	16.0 KiB	-
migrations	★ Browse Structure Search Insert Empty Drop	4	InnoDB	utf8mb4_unicode_ci	16.0 KiB	-
password_resets	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_unicode_ci	32.0 KiB	-
users	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_unicode_ci	32.0 KiB	-
5 tables	Sum	4	InnoDB	utf8mb4_general_ci	112.0 KiB	0 B

3. Berikut detail dari table detail_profile yang telah dibuat melalui migration.

BKPM - WORKSHOP SISTEM INFORMASI WEB FRAMEWORK

Server: 127.0.0.1 » Database: db_belajarlaravel » Table: detail_profile											
Browse		Structure		SQL		Search		Insert		Operations	
										T	
		Table structure					Relation view				
#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action		
1	<code>id</code>	bigint(20)		UNSIGNED	No	None		AUTO_INCREMENT	Change Drop More		
2	<code>address</code>	varchar(255)	utf8mb4_unicode_ci		No	None			Change Drop More		
3	<code>nomor_tlp</code>	varchar(255)	utf8mb4_unicode_ci		No	None			Change Drop More		
4	<code>ttl</code>	date			No	None			Change Drop More		
5	<code>foto</code>	varchar(255)	utf8mb4_unicode_ci		No	None			Change Drop More		
6	<code>created_at</code>	timestamp			Yes	NULL			Change Drop More		
7	<code>updated_at</code>	timestamp			Yes	NULL			Change Drop More		

g. Hasil dan Pembahasan

Format Laporan

Kertas A4

Format *.pdf

Struktur Laporan: Cover, Pendahuluan, Hasil Praktik, Kesimpulan dan Daftar Pustaka

Berikan Identitas Diri: NIM, Nama, Golongan, Tugas Minggu Ke-X

Penamaan File: ACARA-X_GOL_NIM_NAMA.pdf

**Contoh: **ACARA-1_A_E1234356_KHAFID.pdf

Kumpulkan pada <http://jti.polje.ac.id/elearning/>

h. Kesimpulan

1. Mahasiswa memahami dan mengimplementasikan Membuat Database dan Migration pada Laravel

i. Rubrik Penilaian

No	Indikator Penilaian	Nilai			
		1	2	3	4
1	Ketepatan waktu dan ketepatan Langkah kerja dalam mengerjakan				V
2	Ketepatan waktu dan Langkah kerja kurang tepat dalam mengerjakan			V	
3	Keterlambatan waktu dan Langkah kerja yang dilakukan kurang tepat		V		
4	Keterlambatan waktu pengumpulan dan Langkah kerja tidak seusai	V			
		Total Skor*		Skor x 25	

ACARA 20. Membuat Database dan Migration pada Laravel (4)

Pokok Bahasan	: Membuat Database dan Migration pada Laravel
Acara Praktikum/Praktik	: Minggu 5/4
Tempat	: Daring/Luring Politeknik Negeri Jember
Alokasi Waktu	: 100 menit

a. Capaian Pembelajaran Mata Kuliah (CPMK)

1. Mahasiswa mampu memahami database, migration dan seeder pada Laravel
2. Mahasiswa mampu membuat database, migration dan seeder pada Laravel

b. Penilaian Bertahap BNSP (*Skill Passport*)

Nama Skema Sertifikasi: Pengembang Web/Web Developer (SKM-496-028)

No	Kode Unit	Nama Unit Kompetensi	Elemen Kompetensi
1	J.620100.017.02	Mengimplementasikan Pemrograman Terstruktur	<ul style="list-style-type: none">• Menggunakan tipe data dan control program• Membuat program untuk akses file• Membuat program untuk akses file
2	J.620100.018.02	Mengimplementasikan Pemrograman Berorientasi Objek	<ul style="list-style-type: none">• Membuat program berorientasi objek dengan memanfaatkan class• Menggunakan tipe data dan control program pada metode atau operasi dari suatu kelas• Membuat program dengan konsep berbasis objek• Membuat program object oriented dengan interface dan paket• Mengkompilasi Program

c. Indikator Penilaian

1. Mahasiswa mampu mengimplementasikan pembuatan database, migration dan seeder pada Laravel

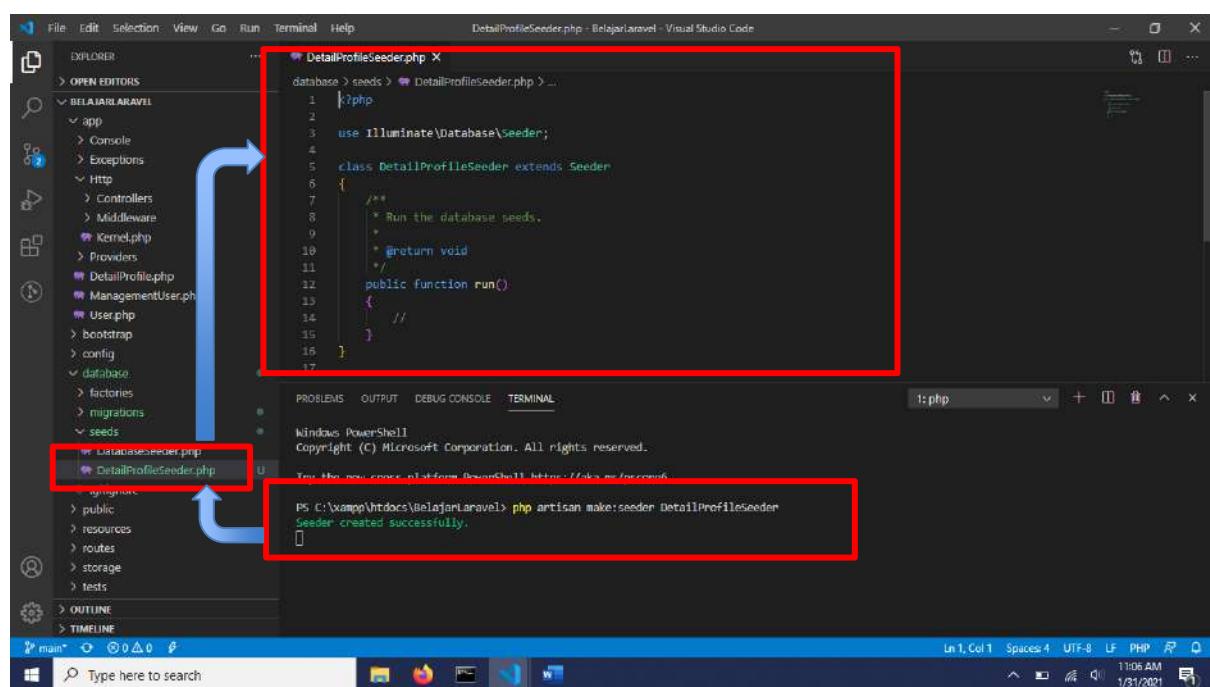
d. Dasar Teori

e. Alat dan Bahan

1. Client Server: Xampp
2. Text Editor: Visual Code
3. Management Storage: Git dan Github
4. Tools Dependency Manager Multiplatform: Composer

f. Prosedur Kerja

1. Tekan **Terminal** □ **New Terminal** kemudian ketikan sintak berikut:
php artisan make:seeder DetailProfileSeeder



The screenshot shows the Visual Studio Code interface. On the left is the Explorer sidebar with project files like 'BELAJARLARAVEL', 'app', 'database', and 'seeds'. In the center, a code editor window displays 'DetailProfileSeeder.php' with the following code:

```
database > seeds > DetailProfileSeeder.php > ...
1  * @return void
2  */
3  public function run()
4  {
5      // ...
6  }
```

The file path 'DetailProfileSeeder.php' is highlighted with a red box. Below the code editor is the terminal window showing the command: **PS C:\xampp\htdocs\BelajarLaravel> php artisan make:seeder DetailProfileSeeder**. The output shows: **seeder created successfully.**

2. Buka folder **database** □ **seeds** □ **DetailProfileSeeder.php** kemudian tambahkan sehingga sintak menjadi seperti berikut:

```
12     public function run()
13     {
14         // insert data ke table pegawai
15         DB::table('detail_profile')->insert([
16             'address' => 'Jember',
17             'nomor_tlp' => '08xxxxxxxx',
18             'ttl' => '2000-11-26',
19             'foto' => 'picture.png'
20         ]);
21     }
22 }
```

3. Tekan **Terminal** **New Terminal** kemudian ketikan sintak berikut:
php artisan db:seed

```
PS C:\xampp\htdocs\BelajarLaravel> php artisan db:seed --class=DetailProfileSeeder
Database seeding completed successfully.
PS C:\xampp\htdocs\BelajarLaravel>
```

4. Setelah mengeksekusi seeder yang telah dibuat maka bisa dilihat bahwa isi dari database db_belajarlaravel telah terisi dari table detail_profile.

| Server: 127.0.0.1 » Database: db_belajarlaravel » Table: detail_profile

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| <div style="background-color: #90EE90; padding: 5px;">✓ Showing rows 0 - 0 (1 total, Query took 0.0011 seconds.)</div>

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i. Rubrik Penilaian

No	Indikator Penilaian	Nilai			
		1	2	3	4
1	Ketepatan waktu dan ketepatan Langkah kerja dalam mengerjakan			V	
2	Ketepatan waktu dan Langkah kerja kurang tepat dalam mengerjakan		V		
3	Keterlambatan waktu dan Langkah kerja yang dilakukan kurang tepat	V			
4	Keterlambatan waktu pengumpulan dan Langkah kerja tidak selesai	V			
	Total Skor*	Skor x 25			

ACARA 21. Membuat Auth Login Username Pada Laravel

Pokok Bahasan	: Membuat Auth Login Username Pada Laravel
Acara Praktikum/Praktik	: Minggu 6/1
Tempat	: Daring/Luring Politeknik Negeri Jember
Alokasi Waktu	: 100 menit

a. Capaian Pembelajaran Mata Kuliah (CPMK)

1. Mahasiswa mampu memahami dan mengimplementasikan Membuat Auth Login Username Pada Laravel
2. Mahasiswa mampu memahami dan mengimplementasikan Pengenalan Middleware
3. Mahasiswa mampu memahami dan mengimplementasikan Middleware Lanjutan

b. Penilaian Bertahap BNSP (*Skill Passport*)

Nama Skema Sertifikasi: Pengembang Web/Web Developer (SKM-496-028)

No	Kode Unit	Nama Unit Kompetensi	Elemen Kompetensi
1	J.620100.017.02	Mengimplementasikan Pemrograman Terstruktur	<ul style="list-style-type: none">• Menggunakan tipe data dan control program• Membuat program untuk akses file• Membuat program untuk akses file
2	J.620100.022.02	Mengimplementasikan Algoritma Pemrograman	<ul style="list-style-type: none">• Menjelaskan varian dan invariant• Membuat alur logika pemrograman• Menerapkan teknik dasar algoritma umum• Menggunakan prosedur dan fungsi• Mengidentifikasi kompleksitas algoritma

c. Indikator Penilaian

1. Mahasiswa memahami dan mengimplementasikan Membuat Auth Login Username Pada Laravel
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3. Mahasiswa memahami dan mengimplementasikan Middleware Lanjutan

d. Dasar Teori

Sejak Laravel 6, *command* untuk men-generate *authentication* tidak lagi bisa ditemukan secara *default*, maka kita perlu melakukan beberapa tahap konfigurasi untuk membawa kembali fitur ini. Pada *command line*, jalankan perintah ini per baris perintah.

```
composer require laravel/ui  
php artisan ui bootstrap --auth  
npm install && npm run dev
```

Fitur Authentication Username/Email

Tiba saatnya bagi kita untuk membuat fitur sesuai dengan deskripsi yang sudah dijelaskan diawal, adapun *migration*-nya akan kita tambahkan kolom username pada *table* users. Laravel sejak awal sudah memiliki 3 buah *migration* dan salah satunya adalah untuk *table* users. Buka migration tersebut dan modifikasi menjadi

```
public function up()  
{  
    Schema::create('users', function (Blueprint $table) {  
        $table->bigIncrements('id');  
        $table->string('name');  
        $table->string('username')->unique(); //TAMBAHKAN KOLOM INI  
        $table->string('email')->unique();  
        $table->timestamp('email_verified_at')->nullable();  
        $table->string('password');  
        $table->rememberToken();  
        $table->timestamps();  
    });  
}
```

- Izinkan Eloquent untuk melakukan *mass assignment* dengan cara, buka *file* app/User.php dan modifikasi *\$fillable* menjadi

```
protected $fillable = [  
    'name', 'username', 'email', 'password',  
];
```

- Generate struktur *database*-nya dengan cara menjalankan *command* php artisan migrate. Kemudian selanjutnya kita akan melakukan sedikit modifikasi pada bagian *form login* dan *register*.
- Buka *file* resources/views/auth/login.blade.php dan ganti *input email* jadi *username*.

```
{{{-- TAMPILKAN NOTIF JIKA GAGAL LOGIN --}}}
@if (session('error'))
<div class="alert alert-danger">{{ session('error') }}</div>
@endif

<div class="form-group row">
    <label for="username" class="col-md-4 col-form-label text-md-right">Username/Email</label>

    {{-- MODIFIKASI BAGIAN EMAIL MENJADI FIELD USERNAME --}}
    <div class="col-md-6">
        <input id="username" type="text" class="form-control @error('username') is-invalid @enderror"
name="username" value="{{ old('username') }}" required autocomplete="username" autofocus>

        @error('username')
            <span class="invalid-feedback" role="alert">
                <strong>{{ $message }}</strong>
            </span>
        @enderror
    </div>
</div>
```

- Adapun untuk proses *login* atau *authentication*, kita akan men-override fungsi *login* dari Laravel. Buka file LoginController.php dan tambahkan method login()

```
public function login(Request $request)
{
    $this->validate($request, [
        'username' => 'required|string', //VALIDASI KOLOM USERNAME
        //TAPI KOLOM INI BISA BERISI EMAIL ATAU USERNAME
        'password' => 'required|string|min:6',
    ]);

    //LAKUKAN PENECEKAN, JIKA INPUTAN DARI USERNAME FORMATNYA ADALAH EMAIL,
    //MAKA KITA AKAN MELAKUKAN PROSES AUTHENTICATION MENGGUNAKAN EMAIL, SELAIN ITU,
    //AKAN MENGGUNAKAN USERNAME
    $loginType = filter_var($request->username, FILTER_VALIDATE_EMAIL) ? 'email' : 'username';

    //TAMPUNG INFORMASI LOGINNYA, DIMANA KOLOM TYPE PERTAMA BERSIFAT DINAMIS
    //BERDASARKAN VALUE DARI PENECEKAN DIATAS
    $login = [
        $loginType => $request->username,
        'password' => $request->password
    ];

    //LAKUKAN LOGIN
    if (auth()->attempt($login)) {
        //JIKA BERHASIL, MAKA REDIRECT KE HALAMAN HOME
        return redirect()->route('home');
    }
    //JIKA SALAH, MAKA KEMBALI KE LOGIN DAN TAMPILKAN NOTIFIKASI
    return redirect()->route('login')->with(['error' => 'Email/Password salah!']);
}
```

- Tampilan yang akan kita dapatkan untuk halaman *login* akan terlihat seperti gambar berikut:

The image shows a clean, modern login interface. At the top left is the word "Login". Below it are two input fields: one for "Username/Email" and another for "Password", which contains several asterisks. There is also a small checkbox labeled "Remember Me". At the bottom are two buttons: a blue "Login" button on the left and a smaller "Forgot Your Password?" link on the right.

e. Alat dan Bahan

1. Client Server: Xampp
2. Text Editor: Visual Code/Sublime Text 3
3. Management Storage: Git dan Github
4. Tools Dependency Manager Multiplatform: Composer
5. Kertas A4 / Folio Bergaris
6. Pulpen

f. Prosedur Kerja

g. Hasil dan Pembahasan

Format Laporan

Kertas A4

Format *.pdf

Struktur Laporan: Cover, Pendahuluan, Hasil Praktik, Kesimpulan dan Daftar Pustaka

Berikan Identitas Diri: NIM, Nama, Golongan, Tugas Minggu Ke-X

Penamaan File: ACARA-X_GOL_NIM_NAMA.pdf

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h. Kesimpulan

1. Mahasiswa memahami dan mengimplementasikan Membuat Auth Login Username Pada Laravel
2. Mahasiswa memahami dan mengimplementasikan Pengenalan Middleware
3. Mahasiswa memahami dan mengimplementasikan Middleware Lanjutan

i. Rubrik Penilaian

BKPM - WORKSHOP SISTEM INFORMASI WEB FRAMEWORK

No	Indikator Penilaian	Nilai			
		1	2	3	4
1	Ketepatan waktu dan ketepatan Langkah kerja dalam mengerjakan				V
2	Ketepatan waktu dan Langkah kerja kurang tepat dalam mengerjakan			V	
3	Keterlambatan waktu dan Langkah kerja yang dilakukan kurang tepat		V		
4	Keterlambatan waktu pengumpulan dan Langkah kerja tidak selesai	V			
	Total Skor*	Skor x 25			

ACARA 22. Membuat Auth Register Username Pada Laravel

Pokok Bahasan : Membuat Auth Register Username Pada Laravel

Acara Praktikum/Praktik : Minggu 6/2

Tempat : Daring/Luring Politeknik Negeri Jember

Alokasi Waktu : 100 menit

a. Capaian Pembelajaran Mata Kuliah (CPMK)

1. Mahasiswa mampu memahami dan mengimplementasikan Membuat Auth Login Username Pada Laravel
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3. Mahasiswa mampu memahami dan mengimplementasikan Middleware Lanjutan

b. Penilaian Bertahap BNSP (*Skill Passport*)

Nama Skema Sertifikasi: Pengembang Web/Web Developer (SKM-496-028)

No	Kode Unit	Nama Unit Kompetensi	Elemen Kompetensi
1	J.620100.020.02	Menggunakan SQL	<ul style="list-style-type: none">• Mempersiapkan perangkat lunak aplikasi data deskripsi/SQL• Menggunakan fitur aplikasi SQL• Mengisi table• Melakukan operasi relasional• Membuat stored procedure• Membuat function• Membuat trigger• Melakukan perintah commit dan rollback
2	J.620100.021.02	Menerapkan Akses Basis Data	<ul style="list-style-type: none">• Membuat berbagai operasi terhadap basis data• Membuat prosedur akses terhadap basis data• Membuat prosedur akses terhadap basis data• Menguji program basis data

c. Indikator Penilaian

1. Mahasiswa memahami dan mengimplementasikan Membuat Auth Login Username Pada Laravel

2. Mahasiswa memahami dan mengimplementasikan Pengenalan Middleware
3. Mahasiswa memahami dan mengimplementasikan Middleware Lanjutan

d. Dasar Teori

Setelah *Form Login* perlu adanya *From Registrasi*, Adapun registrasinya akan mengizinkan dua *field*, yakni **email** dan **username**, sehingga pengguna bisa memasukkan informasi mengenai *email*-nya dan *username*-nya secara bersamaan. Lalu pada proses *login* nantinya, pengguna bisa memilih akan menggunakan *email* atau *username*. Buka file register.blade.php dan tambahkan kolom ini tepat diatas kolom *input-an* data *email*.

```
<div class="form-group row">
    <label for="username" class="col-md-4 col-form-label text-md-right">Username</label>

    <div class="col-md-6">
        <input id="username" type="text" class="form-control @error('username') is-invalid @enderror"
name="username" value="{{ old('username') }}" required autocomplete="username">

        @error('username')
            <span class="invalid-feedback" role="alert">
                <strong>{{ $message }}</strong>
            </span>
        @enderror
    </div>
</div>
```

Saatnya untuk meng-*handle* setiap *request* baik dari *register* maupun *login*. Langkah pertama, kita akan meng-*handle* *request* *register* dari *user*. Buka file RegisterController.php dan modifikasi kedua *method* ini dengan menambahkan *username*.

```
protected function validator(array $data)
{
    return Validator::make($data, [
        'name' => ['required', 'string', 'max:255'],
        'username' => ['required', 'string', 'max:255', 'unique:users'], //TAMBAHKAN VALIDASI USERNAME
        'email' => ['required', 'string', 'email', 'max:255', 'unique:users'],
        'password' => ['required', 'string', 'min:8', 'confirmed'],
    ]);
}

/**
 * Create a new user instance after a valid registration.
 *
 * @param array $data
 * @return \App\User
 */

```

```
protected function create(array $data)
{
    return User::create([
        'name' => $data['name'],
        'username' => $data['username'], //SIMPAN INFORMASI USERNAME KE DATABASE
        'email' => $data['email'],
        'password' => Hash::make($data['password']),
    ]);
}
```

Adapun tampilan yang akan kita dapatkan untuk halaman *register* akan terlihat seperti gambar berikut:

The screenshot shows a registration form titled "Register". It contains five input fields: "Name", "Username", "E-Mail Address", "Password", and "Confirm Password". Each field is accompanied by a label and a corresponding input box. Below the input fields is a blue rectangular button labeled "Register".

e. Alat dan Bahan

1. Client Server: Xampp
2. Text Editor: Visual Code/Sublime Text 3
3. Management Storage: Git dan Github
4. Tools Dependency Manager Multiplatform: Composer
5. Kertas A4 / Folio Bergaris
6. Pulpen

f. Prosedur Kerja

g. Hasil dan Pembahasan

Format Laporan

Kertas A4

Format *.pdf

Struktur Laporan: Cover, Pendahuluan, Hasil Praktik, Kesimpulan dan Daftar Pustaka

Berikan Identitas Diri: NIM, Nama, Golongan, Tugas Minggu Ke-X

Penamaan File: ACARA-X_GOL_NIM_NAMA.pdf

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h. Kesimpulan

1. Mahasiswa memahami dan mengimplementasikan Membuat Auth Login Username Pada Laravel
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3. Mahasiswa memahami dan mengimplementasikan Middleware Lanjutan

i. Rubrik Penilaian

No	Indikator Penilaian	Nilai			
		1	2	3	4
1	Ketepatan waktu dan ketepatan Langkah kerja dalam mengerjakan				V
2	Ketepatan waktu dan Langkah kerja kurang tepat dalam mengerjakan			V	
3	Keterlambatan waktu dan Langkah kerja yang dilakukan kurang tepat		V		
4	Keterlambatan waktu pengumpulan dan Langkah kerja tidak selesai	V			
	Total Skor*	Skor x 25			

ACARA 23. Pengenalan Middleware**Pokok Bahasan : Pengenalan Middleware****Acara Praktikum/Praktik : Minggu 6/3****Tempat : Daring/Luring Politeknik Negeri Jember****Alokasi Waktu : 100 menit****a. Capaian Pembelajaran Mata Kuliah (CPMK)**

1. Mahasiswa mampu memahami dan mengimplementasikan Membuat Auth Login Username Pada Laravel
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3. Mahasiswa mampu memahami dan mengimplementasikan Middleware Lanjutan

b. Penilaian Bertahap BNSP (*Skill Passport*)

Nama Skema Sertifikasi: Pengembang Web/Web Developer (SKM-496-028)

No	Kode Unit	Nama Unit Kompetensi	Elemen Kompetensi
1	J.620100.020.02	Menggunakan SQL	<ul style="list-style-type: none">• Mempersiapkan perangkat lunak aplikasi data deskripsi/SQL• Menggunakan fitur aplikasi SQL• Mengisi table• Melakukan operasi relasional• Membuat stored procedure• Membuat function• Membuat trigger• Melakukan perintah commit dan rollback
2	J.620100.021.02	Menerapkan Akses Basis Data	<ul style="list-style-type: none">• Membuat berbagai operasi terhadap basis data• Membuat prosedur akses terhadap basis data• Membuat prosedur akses terhadap basis data• Menguji program basis data

c. Indikator Penilaian

1. Mahasiswa memahami dan mengimplementasikan Membuat Auth Login Username Pada Laravel

2. Mahasiswa memahami dan mengimplementasikan Pengenalan Middleware
3. Mahasiswa memahami dan mengimplementasikan Middleware Lanjutan

d. Dasar Teori

Apa itu middleware? Middleware merupakan penyedia mekanisme yang mudah untuk memfilter permintaan HTTP yang memasuki aplikasi Kita. Misalnya, Laravel menyertakan middleware yang memverifikasi bahwa pengguna aplikasi Kita telah diautentikasi. Jika pengguna tidak diautentikasi, middleware akan mengarahkan pengguna ke layar login. Namun, jika pengguna diautentikasi, middleware akan mengizinkan permintaan untuk melanjutkan lebih jauh ke dalam aplikasi.

Middleware tambahan dapat ditulis untuk melakukan berbagai tugas selain otentikasi. Middleware CORS mungkin bertanggung jawab untuk menambahkan header yang sesuai ke semua respons yang keluar dari aplikasi Kita. Middleware logging mungkin mencatat semua permintaan yang masuk ke aplikasi Kita.

Ada beberapa middleware yang disertakan dalam kerangka kerja Laravel, termasuk middleware untuk otentikasi dan perlindungan CSRF. Semua middleware ini terletak di direktori app/Http/Middleware

Mendefinisikan Middleware

Untuk membuat middleware baru, gunakan make:middleware artisan command:

```
php artisan make:middleware CheckAge
```

Perintah ini akan menempatkan Class CheckAge baru dalam direktori app/Http/Middleware. Di middleware ini, kami hanya akan mengizinkan akses ke route jika yang diberikan age lebih besar dari 200. Jika tidak, kami akan mengarahkan pengguna kembali ke home URI:

```
<?php

namespace App\Http\Middleware;

use Closure;

class CheckAge
{
    /**
     * Handle an incoming request.
     *
     * @param \Illuminate\Http\Request $request
     * @param Closure $next
     * @return mixed
     */
    public function handle($request, Closure $next)
    {
        if ($request->age <= 200) {
            return redirect('home');
        }

        return $next($request);
    }
}
```

Seperti yang kita lihat, jika yang diberikan age kurang dari atau sama dengan 200, middleware akan mengembalikan pengalihan HTTP ke klien; jika tidak, permintaan tersebut akan diteruskan lebih jauh ke dalam aplikasi. Untuk meneruskan permintaan lebih dalam ke dalam aplikasi (mengizinkan middleware untuk "meneruskan"), panggil \$next callback dengan \$request.

Itu hal yang terbaik untuk membayangkan middleware sebagai rangkaian "layers" HTTP request yang harus dilalui sebelum masuk ke aplikasi kita. Setiap lapisan dapat memeriksa setiap request dan bahkan menolak seluruhnya.

Before & After Middleware

Apakah middleware berjalan sebelum atau sesudah permintaan tergantung pada middleware itu sendiri. Misalnya, middleware berikut akan melakukan beberapa tugas **sebelum** permintaan ditangani oleh aplikasi:

```
<?php

namespace App\Http\Middleware;

use Closure;

class BeforeMiddleware
{
    public function handle($request, Closure $next)
    {
        // Perform action

        return $next($request);
    }
}
```

Namun, middleware ini akan menjalankan tugasnya **setelah** permintaan ditangani oleh aplikasi:

```
<?php

namespace App\Http\Middleware;

use Closure;

class AfterMiddleware
{
    public function handle($request, Closure $next)
    {
        $response = $next($request);

        // Perform action

        return $response;
    }
}
```

e. Alat dan Bahan

1. Client Server: Xampp
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3. Management Storage: Git dan Github
4. Tools Dependency Manager Multiplatform: Composer

5. Kertas A4 / Folio Bergaris
6. Pulpen

f. Prosedur Kerja

g. Hasil dan Pembahasan

Format Laporan

Kertas A4

Format *.pdf

Struktur Laporan: Cover, Pendahuluan, Hasil Praktik, Kesimpulan dan Daftar Pustaka

Berikan Identitas Diri: NIM, Nama, Golongan, Tugas Minggu Ke-X

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h. Kesimpulan

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i. Rubrik Penilaian

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		1	2	3	4
1	Ketepatan waktu dan ketepatan Langkah kerja dalam mengerjakan				V
2	Ketepatan waktu dan Langkah kerja kurang tepat dalam mengerjakan			V	
3	Keterlambatan waktu dan Langkah kerja yang dilakukan kurang tepat		V		
4	Keterlambatan waktu pengumpulan dan Langkah kerja tidak selesai	V			
		Total Skor*		Skor x 25	

ACARA 24. Middleware Lanjutan

Pokok Bahasan	: Middleware Lanjutan
Acara Praktikum/Praktik	: Minggu 6/4
Tempat	: Daring/Luring Politeknik Negeri Jember
Alokasi Waktu	: 100 menit

a. Capaian Pembelajaran Mata Kuliah (CPMK)

1. Mahasiswa mampu memahami dan mengimplementasikan Membuat Auth Login Username Pada Laravel
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b. Penilaian Bertahap BNSP (*Skill Passport*)

Nama Skema Sertifikasi: Pengembang Web/Web Developer (SKM-496-028)

No	Kode Unit	Nama Unit Kompetensi	Elemen Kompetensi
1	J.620100.020.02	Menggunakan SQL	<ul style="list-style-type: none">• Mempersiapkan perangkat lunak aplikasi data deskripsi/SQL• Menggunakan fitur aplikasi SQL• Mengisi table• Melakukan operasi relasional• Membuat stored procedure• Membuat function• Membuat trigger• Melakukan perintah commit dan rollback
2	J.620100.021.02	Menerapkan Akses Basis Data	<ul style="list-style-type: none">• Membuat berbagai operasi terhadap basis data• Membuat prosedur akses terhadap basis data• Membuat prosedur akses terhadap basis data• Menguji program basis data

c. Indikator Penilaian

1. Mahasiswa memahami dan mengimplementasikan Membuat Auth Login Username Pada Laravel

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3. Mahasiswa memahami dan mengimplementasikan Middleware Lanjutan

d. Dasar Teori

1. Registering Middleware

Middleware Global

Jika kita ingin middleware dijalankan pada setiap HTTP request ke aplikasi kita, daftarkan class middleware di properti \$middleware dari class app/Http/Kernel.php.

Menetapkan Middleware ke Route

- Jika kita ingin menetapkan middleware ke route tertentu, kita harus menetapkan middleware key terlebih dahulu di file app/Http/Kernel.php. Secara default, properti \$routeMiddleware class ini berisi entri untuk middleware yang disertakan dengan Laravel. Untuk menambahkan buatan kita sendiri, tambahkan ke daftar ini dan tetapkan sebagai key middleware kita:

```
// Within App\Http\Kernel Class...

protected $routeMiddleware = [
    'auth' => \App\Http\Middleware\Authenticate::class,
    'auth.basic' => \Illuminate\Auth\Middleware\AuthenticateWithBasicAuth::class,
    'bindings' => \Illuminate\Routing\Middleware\SubstituteBindings::class,
    'cache.headers' => \Illuminate\Http\Middleware\SetCacheHeaders::class,
    'can' => \Illuminate\Auth\Middleware\Authorize::class,
    'guest' => \App\Http\Middleware\RedirectIfAuthenticated::class,
    'signed' => \Illuminate\Routing\Middleware\ValidateSignature::class,
    'throttle' => \Illuminate\Routing\Middleware\ThrottleRequests::class,
    'verified' => \Illuminate\Auth\Middleware\EnsureEmailIsVerified::class,
];
```

- Setelah middleware didefinisikan di kernel HTTP, Kita dapat menggunakan metode middleware untuk menetapkan middleware ke route:

```
Route::get('admin/profile', function () {
    //
})->middleware('auth');
```

- Kita juga dapat menetapkan beberapa middleware ke route:

```
Route::get('/', function () {
    //
})->middleware('first', 'second');
```

- Saat menetapkan middleware, Kita juga dapat memberikan nama kelas yang memenuhi syarat:

```
use App\Http\Middleware\CheckAge;

Route::get('admin/profile', function () {
    //
})->middleware(CheckAge::class);
```

Grup Middleware

- Terkadang kita mungkin ingin mengelompokkan beberapa middleware di bawah satu kunci untuk membuatnya lebih mudah untuk ditetapkan ke route. Kita dapat melakukan ini menggunakan properti \$middlewareGroups HTTP kernel kita.
- Laravel hadir dengan web dan api grup middleware yang berisi middleware umum yang mungkin ingin kita terapkan ke UI web dan route API:

```
/**
 * The application's route middleware groups.
 *
 * @var array
 */
protected $middlewareGroups = [
    'web' => [
        \App\Http\Middleware\EncryptCookies::class,
        \Illuminate\Cookie\Middleware\AddQueuedCookiesToResponse::class,
        \Illuminate\Session\Middleware\StartSession::class,
        \Illuminate\View\Middleware\ShareErrorsFromSession::class,
        \App\Http\Middleware\VerifyCsrfToken::class,
        \Illuminate\Routing\Middleware\SubstituteBindings::class,
    ],
    'api' => [
        'throttle:60,1',
        'auth:api',
    ],
];
```

- Grup middleware dapat ditetapkan ke route dan controller actions menggunakan sintaks yang sama dengan middleware individual. Sekali lagi, grup middleware membuatnya lebih nyaman untuk menetapkan banyak middleware ke sebuah route sekaligus:

```
Route::get('/', function () {
    //
})->middleware('web');

Route::group(['middleware' => ['web']], function () {
    //
});

Route::middleware(['web', 'subscribed'])->group(function () {
    //
});
```

2. Menyortir Middleware

Kita mungkin memerlukan middleware untuk mengeksekusi dalam urutan tertentu tetapi tidak memiliki kendali atas urutannya saat ditetapkan ke route. Dalam kasus ini, Kita dapat menentukan prioritas middleware kita menggunakan properti `$middlewarePriority` file `app/Http/Kernel.php` :

```
/**
 * The priority-sorted list of middleware.
 *
 * This forces non-global middleware to always be in the given order.
 *
 * @var array
 */
protected $middlewarePriority = [
    \Illuminate\Session\Middleware\StartSession::class,
    \Illuminate\View\Middleware\ShareErrorsFromSession::class,
    \App\Http\Middleware\Authenticate::class,
    \Illuminate\Session\Middleware\AuthenticateSession::class,
    \Illuminate\Routing\Middleware\SubstituteBindings::class,
    \Illuminate\Auth\Middleware\Authorize::class,
];
```

- Parameter Middleware

Middleware juga dapat menerima parameter tambahan. Misalnya, jika aplikasi kita perlu memverifikasi bahwa pengguna yang diautentikasi memiliki "peran" tertentu sebelum melakukan tindakan tertentu, kita dapat membuat middleware `CheckRole` yang menerima nama peran sebagai argumen tambahan.

Parameter middleware tambahan akan diteruskan ke middleware setelah argumen \$next:

```
<?php
namespace App\Http\Middleware;
use Closure;

class CheckRole
{
    /**
     * Handle the incoming request.
     *
     * @param \Illuminate\Http\Request $request
     * @param \Closure $next
     * @param string $role
     * @return mixed
     */
    public function handle($request, Closure $next, $role)
    {
        if (! $request->user()->hasRole($role)) {
            // Redirect...
        }
        return $next($request);
    }
}
```

Parameter middleware dapat ditentukan saat menentukan route dengan memisahkan nama middleware dan parameter dengan a :. Beberapa parameter harus dipisahkan dengan koma:

```
Route::put('post/{id}', function ($id) {
    //
})->middleware('role:editor');
```

- Terminable Middleware

Terkadang middleware mungkin perlu melakukan beberapa pekerjaan setelah HTTP response dikirim ke browser. Jika kita menentukan metode terminate di middleware dan server web kita menggunakan FastCGI, metode terminate tersebut akan secara otomatis dipanggil setelah response dikirim ke browser:

```
<?php

namespace Illuminate\Session\Middleware;

use Closure;

class StartSession
{
    public function handle($request, Closure $next)
    {
        return $next($request);
    }

    public function terminate($request, $response)
    {
        // Store the session data...
    }
}
```

Metode terminate harus menerima baik request maupun response. Setelah kita menentukan middleware yang dapat diakhiri, kita harus menambahkannya ke daftar route atau middleware global dalam file app/Http/Kernel.php.

Saat memanggil metode terminate di middleware, Laravel akan menyelesaikan instance baru dari middleware dari service container. Jika Kita ingin menggunakan instance middleware yang sama saat metode handle dan terminate dipanggil, daftarkan middleware dengan container menggunakan metode container singleton. Biasanya ini harus dilakukan dengan metode register kita AppServiceProvider.php:

```
use App\Http\Middleware\TerminableMiddleware;

/**
 * Register any application services.
 *
 * @return void
 */
public function register()
{
    $this->app->singleton(TerminableMiddleware::class);
}
```

e. Alat dan Bahan

1. Client Server: Xampp
2. Text Editor: Visual Code/Sublime Text 3
3. Management Storage: Git dan Github

4. Tools Dependency Manager Multiplatform: Composer
5. Kertas A4 / Folio Bergaris
6. Pulpen

f. Prosedur Kerja**g. Hasil dan Pembahasan****Format Laporan**

Kertas A4

Format *.pdf

Struktur Laporan: Cover, Pendahuluan, Hasil Praktik, Kesimpulan dan Daftar Pustaka

Berikan Identitas Diri: NIM, Nama, Golongan, Tugas Minggu Ke-X

Penamaan File: ACARA-X_GOL_NIM_NAMA.pdf

**Contoh: **ACARA-1_A_E1234356_KHAFID.pdf

Kumpulkan pada <http://jti.polije.ac.id/elearning/>

h. Kesimpulan

1. Mahasiswa memahami dan mengimplementasikan Membuat Auth Login Username Pada Laravel
2. Mahasiswa memahami dan mengimplementasikan Pengenalan Middleware
3. Mahasiswa memahami dan mengimplementasikan Middleware Lanjutan

i. Rubrik Penilaian

No	Indikator Penilaian	Nilai			
		1	2	3	4
1	Ketepatan waktu dan ketepatan Langkah kerja dalam mengerjakan				V
2	Ketepatan waktu dan Langkah kerja kurang tepat dalam mengerjakan			V	
3	Keterlambatan waktu dan Langkah kerja yang dilakukan kurang tepat		V		
4	Keterlambatan waktu pengumpulan dan Langkah kerja tidak selesai	V			
	Total Skor*	Skor x 25			

ACARA 25. Membuat CRUD (Query Builder) (1)

Pokok Bahasan : Membuat CRUD (Query Builder)

Acara Praktikum/Praktik : Minggu 7/1

Tempat : Daring/Luring Politeknik Negeri Jember

Alokasi Waktu : 100 menit

a. Capaian Pembelajaran Mata Kuliah (CPMK)

1. Mahasiswa mampu memahami Create, Read, Update dan Delete pada Laravel
2. Mahasiswa mampu membuat Create, Read, Update dan Delete pada Laravel

b. Penilaian Bertahap BNSP (*Skill Passport*)

Nama Skema Sertifikasi: Pengembang Web/Web Developer (SKM-496-028)

No	Kode Unit	Nama Unit Kompetensi	Elemen Kompetensi
1	J.620100.020.02	Menggunakan SQL	<ul style="list-style-type: none">• Mempersiapkan perangkat lunak aplikasi data deskripsi/SQL• Menggunakan fitur aplikasi SQL• Mengisi table• Melakukan operasi relasional• Membuat stored procedure• Membuat function• Membuat trigger• Melakukan perintah commit dan rollback
2	J.620100.021.02	Menerapkan Akses Basis Data	<ul style="list-style-type: none">• Membuat berbagai operasi terhadap basis data• Membuat prosedur akses terhadap basis data• Membuat prosedur akses terhadap basis data• Menguji program basis data

c. Indikator Penilaian

1. Kemampuan mahasiswa dalam mengimplementasikan pembuatan Create, Read, Update dan Delete pada Laravel

d. Dasar Teori**e. Alat dan Bahan**

1. Client Server: Xampp
2. Text Editor: Visual Code
3. Management Storage: Git dan Github

4. Tools Dependency Manager Multiplatform: Composer
5. Kertas A4 / Folio
6. Pulpen

f. Prosedur Kerja

1. Persiapan Template

- Menghapus beberapa sintak pada file pada **resource** □ **view** □ **backend** □ **dashboard** bagian konten **line 62-656**. Kemudian setelah menghapus bagian konten, menghapus bagian credit **line 65-75**. Sehingga dihasilkan seperti berikut.

```
59
60      </div>
61      <!--/.row-->
62
63
64      </section>
65  </section>
66  <!--main content end-->
67
68  @endsection
```

- Merubah beberapa sintak pada file pada **resource** □ **view** □ **backend** □ **layout** □ **siderbar**. Sehingga dihasilkan seperti berikut.

```
1  <!--sidebar start-->
2  <aside>
3  |   <div id="sidebar" class="nav-collapse ">
4  |     <ul class="sidebar-menu">
5  |       <li class="active">
6  |         <a class="" href="index.html">
7  |           <i class="icon_house_alt"></i>
8  |           <span>Dashboard</span>
9  |         </a>
10 |       </li>
11 |       <li>
12 |         <a class="" href="index.html">
13 |           <i class="icon_profile"></i>
14 |           <span>Profile</span>
15 |         </a>
16 |       </li>
17 |       <li class="sub-menu">
18 |         <a href="javascript:;" class="">
19 |           <i class="icon_document_alt"></i>
20 |           <span>Riwayat Hidup</span>
21 |           <span class="menu-arrow arrow_carrot-right"></span>
22 |         </a>
23 |         <ul class="sub">
24 |           <li><a class="" href="{{url('pendidikan')}}">Pendidikan</a></li>
25 |           <li><a class="" href="{{url('pengalaman_kerja')}}">Pengalaman Kerja</a></li>
26 |         </ul>
27 |       </li>
28 |     </ul>
29 |   </div>
30 | </aside>
31 <!--sidebar end-->
```

- Menghapus beberapa sintak pada file pada **resource** □ **view** □ **backend** □ **layout** □ **template** bagian **navbar** **line 75-270**. Kemudian setelah menghapus bagian

konten, menghapus bagian **login line 89-97** dan **line 93-103**. Sehingga dihasilkan seperti berikut.

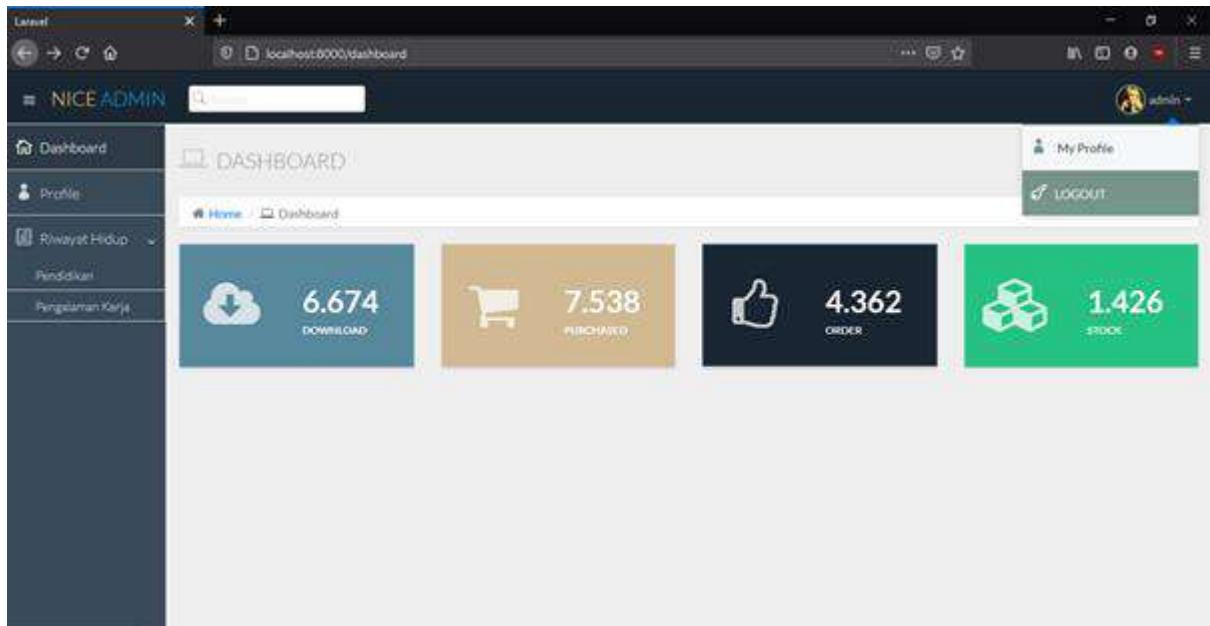
```
1<div class="top-nav notification-row">
2    <!-- notification dropdown start-->
3    <ul class="nav pull-right top-menu">
4        <!-- user login dropdown start-->
5        <li class="dropdown">
6            <a data-toggle="dropdown" class="dropdown-toggle" href="#">
7                <span class="profile-ava">
8                    
9                </span>
10               <span class="username">{{ Auth::user()->name }}</span>
11               <b class="caret"></b>
12            </a>
13            <ul class="dropdown-menu extended logout">
14                <div class="log-arrow-up"></div>
15                <li class="eborder-top">
16                    <a href="#"> My Profile</a>
17                </li>
18                <li>
19                    <a class="dropdown-item" href="{{ route('logout') }}" onclick="event.preventDefault();
20                                         document.getElementById('logout-form').submit();">
21                        <i class="icon_key_alt"></i>{{ __('Logout') }}
22                    </a>
23                    <form id="logout-form" action="{{ route('logout') }}" method="POST" style="display: none;">
24                        @csrf
25                    </form>
26                </li>
27                <li> You, 16 days ago > update:backend_layout
28            </ul>
29        </li>
30        <!-- user login dropdown end -->
```

- Menambahkan beberapa sintak pada file pada **resource** □ **view** □ **backend** □ **layout** □ **template** bagian **line 36** dan **line 156**. Sehingga dihasilkan seperti berikut.

```
155 <script src="{{ asset('backend/js/jquery.slimscroll.min.js') }}"></script>
156 @stack('content-js') You, 18 hours ago • crud
157 </script>
```

```
155 <script src= "{{ asset('backend/js/jquery.slimscroll.min.js') }}"></script>
156 @stack(['content-js']) You, 18 hours ago • crud
157 <script>
```

- Kemudian buka web browser dan ketikkan **localhost:8000/dashboard** setelah mengaktifkan cmd **php artisan serve** sehingga akan muncul tampilan seperti berikut:



2. Create

- Tekan **Terminal □ New Terminal** kemudian ketikan sintak berikut.

```
php artisan make:migration create_pengalaman_kerja_table
```

```
PS C:\xampp\htdocs\BelajarLaravel> php artisan make:migration create_pengalaman_kerja_table
Created Migration: 2021_03_02_070911_create_pengalaman_kerja_table
[]
```

- Buka folder **database** **->Migration->**
2021_03_02_070911_create_pengalaman_kerja_table.php kemudian tambahkan sehingga sintak menjadi seperti berikut ini.

```
14     public function up()
15     {
16         Schema::create('pengalaman_kerja', function (Blueprint $table) {
17             $table->bigIncrements('id');
18             $table->string('nama');
19             $table->string(['jabatan']);
20             $table->year('tahun_masuk');
21             $table->year('tahun_keluar');
22             $table->timestamps();
23         });
24     }
```

- Tekan **Terminal □ New Terminal** kemudian ketikan sintak berikut.

```
php artisan migrate
```

- Tekan **Terminal □ New Terminal** kemudian ketikan sintak berikut.

```
php artisan make:model PengalamanKerja
```

```
7  class PengalamanKerja extends Model
8  {
9      protected $table = 'pengalaman_kerja';
10     protected $primaryKey = 'id';
11     protected $fillable = [
12         'nama', 'jabatan', 'tahun_masuk', 'tahun_keluar',
13     ];
14 }
15
```

- Tekan **Terminal** □ **New Terminal** kemudian ketikan sintak berikut.

php artisan make:controller PendidikanController

- **Pindahkan** file **PengalamanKerjaController.php** ke dalam folder backend.
- **Kemudian** tambahkan sehingga sintak **PengalamanKerjaController.php** menjadi seperti berikut ini.

```
3  namespace App\Http\Controllers\Backend;
4
5  use Illuminate\Http\Request;
6  use Illuminate\Support\Facades\DB,
7      App\Http\Controllers\Controller;
8
9  class PengalamanKerjaController extends Controller
10 {
11     public function index()
12     {
13         return view('backend.pengalaman_kerja.index');
14     }
15     public function create()
16     {
17         $pengalaman_kerja = null;
18         return view('backend.pengalaman_kerja.create',compact('pengalaman_kerja'));
19     }
20     public function store(Request $request)
21     {
22         DB::table('pengalaman_kerja')->insert([
23             'nama' => $request->nama,
24             'jabatan' => $request->jabatan,
25             'tahun_masuk' => $request->tahun_masuk,
26             'tahun_keluar' => $request->tahun_keluar
27         ]);
28
29         return redirect()->route('pengalaman_kerja.index')
30             | | | | ->with('success','Data pengalaman_kerja baru telah berhasil disimpan.');
31     }
32 }
```

- Buka **folder resources** □ **web.php** untuk menambahkan alamat url baru yang menghubungkan dengan **PengalamanKerjaController.php**. Tambahkan sintak berikut ini.

```
Route::group(['namespace' => 'Backend'], function()
{
    Route::resource('dashboard', 'DashboardController');
    Route::resource('pendidikan', 'PendidikanController');
    Route::resource('pengalaman_kerja', 'PengalamanKerjaController');
});
```

- **Membuat** folder baru pada **resources** □ **views** □ **backend** dengan nama pengalaman_kerja, kemudian buat file blade baru dengan nama **index.blade.php** pada folder pengalaman_kerja yang telah dibuat sebelumnya. Tambahkan sintak berikut ini.

```
1 @extends('backend/layouts.template')
2
3 @section('content')
4 <section id="main-content">
5     <section class="wrapper">
6         <div class="row">
7             <div class="col-lg-12">
8                 <h3 class="page-header"><i class="icon_document_alt"></i> Riwayat Hidup</h3>
9                 <ol class="breadcrumb">
10                     <li><i class="fa fa-home"></i><a href="{{ url('dashboard') }}>Home</a></li>
11                     <li><i class="icon_document_alt"></i>Riwayat Hidup</li>
12                     <li><i class="fa fa-files-o"></i>Pengalaman Kerja</li>
13                 </ol>
14             </div>
15         </div>
16         <!-- Form validations -->
17         <div class="row">
18             <div class="col-lg-12">
19                 <section class="panel">
20                     <header class="panel-heading">
21                         Pengalaman Kerja
22                     </header>
23                     <div class="panel-body">
24                         @if ($message = Session::get('success'))
25                             <div class="alert alert-success">
26                                 <p>{{ $message }}</p>
27                             </div>
28                         @endif
29                         <a href="{{ route('pengalaman_kerja.create') }}><button class="btn btn-primary"
30                             type="button"><i class="fa fa-plus"> Tambah</i></button></a>
31                     </div>
32                 </section>
33             </div>
34         </div>
35         <!-- page end-->
36     </section>
37 </section>
38 @endsection
```

- **Membuat** file blade baru dengan nama **create.blade.php** pada folder pengalaman_kerja. Tambahkan sintak berikut ini.

```
1 @extends('backend/layouts.template')
2
3 @section('content')
4 <section id="main-content">
5     <section class="wrapper">
6         <div class="row">
7             <div class="col-lg-12">
8                 <h3 class="page-header"><i class="icon_document_alt"></i> Riwayat Hidup</h3>
9                 <ol class="breadcrumb">
10                     <li><i class="fa fa-home"></i><a href="{{ url('dashboard') }}>Home</a></li>
11                     <li><i class="icon_document_alt"></i>Riwayat Hidup</li>
12                     <li><i class="fa fa-files-o"></i>Pengalaman Kerja</li>
13                 </ol>
14             </div>
15         </div>
16         <!-- Form validations -->
17         <div class="row">
18             <div class="col-lg-12">
19                 <section class="panel">
20                     <header class="panel-heading">
21                         {{ isset($admin_lecturer) ? 'Mengubah' : 'Menambahkan' }} Pengalaman Kerja
22                     </header>
23                     @if ($errors->any())
24                         <div class="alert alert-danger">
25                             <strong>Whoops!</strong> There were some problems with your input.<br><br>
26                             <ul>
27                                 @foreach ($errors->all() as $error)
28                                     <li>{{ $error }}</li>
29                                 @endforeach
30                             </ul>
31                         </div>
32                     @endif
33
34             <div class="panel-body">
35                 <div class="form">
36                     <form class="form-validate form-horizontal" id="pengalaman_kerja_form" method="POST"
37                     action="{{ route('pengalaman_kerja.store') }}"
38                    >{!! csrf_field() !!}
39                     <div class="form-group ">
40                         <label for="cname" class="control-label col-lg-2">Nama Perusahaan <span
41                             class="required">*</span></label>
42                         <div class="col-lg-10">
43                             <input class="form-control" id="nama" name="nama" minlength="5" type="text"
44                             required />
45                         </div>
46                     </div>
47                     <div class="form-group ">
48                         <label for="cname" class="control-label col-lg-2">Jabatan <span
49                             class="required">*</span></label>
50                         <div class="col-lg-10">
51                             <input class="form-control" id="jabatan" name="jabatan" minlength="2" type="text"
52                             required />
53                         </div>
54                     </div>
55                     <div class="form-group ">
56                         <label for="curl" class="control-label col-lg-2">Tahun Masuk <span
57                             class="required">*</span></label>
58                         <div class="col-lg-10">
59                             <input id="tahun_masuk" type="text" name="tahun_masuk" class="form-control"
60                             required>
61                         </div>
```

```
61          </div>
62          <div class="form-group ">
63              <label for="curl" class="control-label col-lg-2">Tahun Selesai <span
64                  class="required">*</span></label>
65              <div class="col-lg-10">
66                  <input id="tahun_keluar" type="text" name="tahun_keluar" class="form-control"
67                      required>
68              </div>
69          </div>
70          <div class="form-group">
71              <div class="col-lg-offset-2 col-lg-10">
72                  <button class="btn btn-primary" type="submit">Save</button>
73                  <a href="{{route('pengalaman_kerja.index')}}"><button class="btn btn-default"
74                      type="button">Cancel</button></a>
75              </div>
76          </div>
77      </form>
78  </div>
79  </div>
80  </div>
81  </section>
82 </div>
83 <!-- page end-->
84
85      </section>
86  </section>
87  @endsection
88  @push('content-css')
89  <link href="{{ asset('backend/css/bootstrap-datepicker.css') }}" rel="stylesheet" />
90  @endpush
91  @push('content-js')
92  <script src="{{ asset('backend/js/bootstrap-datepicker.js') }}"></script>
93  <script type="text/javascript">
94      $('#tahun_masuk').datepicker({
95          format: "yyyy",
96          viewMode: "years",
97          minViewMode: "years"
98      });$('#tahun_keluar').datepicker({
99          format: "yyyy",
100         viewMode: "years",
101         minViewMode: "years"
102     });
103 </script>
104 @endpush
```

- Kemudian buka web browser dan ketikkan **localhost:8000/pengalaman_kerja** setelah mengaktifkan cmd **php artisan serve** sehingga akan muncul tampilan seperti berikut:

BKPM - WORKSHOP SISTEM INFORMASI WEB FRAMEWORK

Riwayat Hidup

Pengalaman Kerja

+ Tambah

Menambahkan Pengalaman Kerja

Nama Perusahaan * Castle Drum

Jabatan * King

Tahun Masuk * 2020

Tahun Selesai * 2022

Save Cancel

Data pengalaman_kerja baru telah berhasil disimpan.

+ Tambah

g. Hasil dan Pembahasan

Format Laporan

Kertas A4

Format *.pdf

Struktur Laporan: Cover, Pendahuluan, Hasil Praktik, Kesimpulan dan Daftar Pustaka

Berikan Identitas Diri: NIM, Nama, Golongan, Tugas Minggu Ke-X

Penamaan File: ACARA-X_GOL_NIM_NAMA.pdf

**Contoh: **ACARA-1_A_E1234356_KHAFID.pdf

Kumpulkan pada <http://iti.polje.ac.id/elearning/>

h. Kesimpulan

1. Kemampuan mahasiswa dalam mengimplementasikan pembuatan Create, Read, Update dan Delete pada Laravel

i. Rubrik Penilaian

No	Indikator Penilaian	Nilai			
		1	2	3	4
1	Ketepatan waktu dan ketepatan Langkah kerja dalam mengerjakan				V
2	Ketepatan waktu dan Langkah kerja kurang tepat dalam mengerjakan			V	
3	Keterlambatan waktu dan Langkah kerja yang dilakukan kurang tepat		V		
4	Keterlambatan waktu pengumpulan dan Langkah kerja tidak seusai	V			
	Total Skor*	Skor x 25			

ACARA 26. Membuat CRUD (Query Builder) (2)

Pokok Bahasan : Membuat CRUD (Query Builder)

Acara Praktikum/Praktik : Minggu 7/2

Tempat : Daring/Luring Politeknik Negeri Jember

Alokasi Waktu : 100 menit

a. Capaian Pembelajaran Mata Kuliah (CPMK)

1. Mahasiswa mampu memahami Create, Read, Update dan Delete pada Laravel
2. Mahasiswa mampu membuat Create, Read, Update dan Delete pada Laravel

b. Penilaian Bertahap BNSP (*Skill Passport*)

Nama Skema Sertifikasi: Pengembang Web/Web Developer (SKM-496-028)

No	Kode Unit	Nama Unit Kompetensi	Elemen Kompetensi
1	J.620100.024.02	Melakukan Migrasi Ke Teknologi Baru	<ul style="list-style-type: none">• Melakukan evaluasi teknologi terkini• Menggunakan fungsi-fungsi terkini
2	J.620100.025.02	Melakukan Debugging	<ul style="list-style-type: none">• Mempersiapkan kode program• Melakukan debugging• Memperbaiki program
3	J.620100.030.02	Menerapkan Pemrograman Multimedia	<ul style="list-style-type: none">• Menjelaskan kebutuhan platform• Mempersiapkan bahasa pengolahan multimedia• Menggunakan syntax khusus multimedia• Menggunakan statement• Menetapkan kompatibilitas dari hardware dan software
4	J.620100.032.01	Menerapkan Code Review	<ul style="list-style-type: none">• Mengevaluasi kesesuaian kode dengan spesifikasinya• Memperbaiki kode sesuai dengan coding-guidelines dan best-practices• Membuat pengecualian penulisan kode terhadap coding-guidelines

c. Indikator Penilaian

1. Kemampuan mahasiswa dalam mengimplementasikan pembuatan Create, Read, Update dan Delete pada Laravel

d. Dasar Teori

e. Alat dan Bahan

1. Client Server: Xampp
2. Text Editor: Visual Code
3. Management Storage: Git dan Github
4. Tools Dependency Manager Multiplatform: Composer
5. Kertas A4 / Folio
6. Pulpen

f. Prosedur Kerja

1. Read

- Menambahkan sintak pada **PengalamanKerjaController.php** menjadi seperti berikut:

```
11  public function index()
12  {
13      $pengalaman_kerja = DB::table('pengalaman_kerja')->get();
14      return view('backend.pengalaman_kerja.index',compact('pengalaman_kerja'));
15  }
```

- Kemudian menambahkan beberapa sintak di **index.blade.php line 31** pada folder Pengalaman Kerja. Tambahkan sintak berikut ini.

```

31 <br><br>
32 <table class="table table-striped table-advance table-hover">
33 <tbody>
34   <tr>
35     <th><i class="icon_bag"></i> Nama</th>
36     <th><i class="icon_document"></i> Jabatan</th>
37     <th><i class="icon_calendar"></i> Tahun Masuk</th>
38     <th><i class="icon_calendar"></i> Tahun Selesai</th>
39     <th><i class="icon_cogs"></i> Action</th>
40   </tr>
41   @foreach ($pengalaman_kerja as $item)
42   <tr>
43     <td>{{$item->nama}}</td>
44     <td>{{$item->jabatan}}</td>
45     <td>{{$item->tahun_masuk}}</td>
46     <td>{{$item->tahun_keluar}}</td>
47     <td>
48       <div class="btn-group">
49         <a class="btn btn-warning">
50           <i class="fa fa-edit"></i></a>
51         <button type="submit" class="btn btn-danger" >
52           <i class="fa fa-trash-o"></i></button>
53       </div>
54     </td>
55   </tr>
56 @endforeach
57 </tbody>
58 </table>
59 </div>
60 </section>
61 </div>
62 <!-- page end-->
63 </section>
64 </section>
65 @endsection
66

```

- Kemudian buka web browser dan ketikkan **localhost:8000/pengalaman_kerja** setelah mengaktifkan cmd **php artisan serve** sehingga akan muncul tampilan seperti berikut:

Nama	Jabatan	Tahun Masuk	Tahun Selesai	Action
Castle Drum	King	2020	2022	

g. Hasil dan Pembahasan

Format Laporan

Kertas A4

Format *.pdf

Struktur Laporan: Cover, Pendahuluan, Hasil Praktik, Kesimpulan dan Daftar Pustaka

Berikan Identitas Diri: NIM, Nama, Golongan, Tugas Minggu Ke-X

Penamaan File: ACARA-X_GOL_NIM_NAMA.pdf

**Contoh: **ACARA-1_A_E1234356_KHAFID.pdf

Kumpulkan pada <http://jti.polije.ac.id/elearning/>

h. Kesimpulan

1. Kemampuan mahasiswa dalam mengimplementasikan pembuatan Create, Read, Update dan Delete pada Laravel

i. Rubrik Penilaian

No	Indikator Penilaian	Nilai			
		1	2	3	4
1	Ketepatan waktu dan ketepatan Langkah kerja dalam mengerjakan				V
2	Ketepatan waktu dan Langkah kerja kurang tepat dalam mengerjakan			V	
3	Keterlambatan waktu dan Langkah kerja yang dilakukan kurang tepat		V		
4	Keterlambatan waktu pengumpulan dan Langkah kerja tidak selesai	V			
	Total Skor*	Skor x 25			

ACARA 27. Membuat CRUD (Query Builder) (3)

Pokok Bahasan : Membuat CRUD (Query Builder)

Acara Praktikum/Praktik : Minggu 7/3

Tempat : Daring/Luring Politeknik Negeri Jember

Alokasi Waktu : 100 menit

a. Capaian Pembelajaran Mata Kuliah (CPMK)

1. Mahasiswa mampu memahami Create, Read, Update dan Delete pada Laravel
2. Mahasiswa mampu membuat Create, Read, Update dan Delete pada Laravel

b. Penilaian Bertahap BNSP (*Skill Passport*)

Nama Skema Sertifikasi: Pengembang Web/Web Developer (SKM-496-028)

No	Kode Unit	Nama Unit Kompetensi	Elemen Kompetensi
1	J.620100.024.02	Melakukan Migrasi Ke Teknologi Baru	<ul style="list-style-type: none">• Melakukan evaluasi teknologi terkini• Menggunakan fungsi-fungsi terkini
2	J.620100.025.02	Melakukan Debugging	<ul style="list-style-type: none">• Mempersiapkan kode program• Melakukan debugging• Memperbaiki program
3	J.620100.030.02	Menerapkan Pemrograman Multimedia	<ul style="list-style-type: none">• Menjelaskan kebutuhan platform• Mempersiapkan bahasa pengolahan multimedia• Menggunakan syntax khusus multimedia• Menggunakan statement• Menetapkan kompatibilitas dari hardware dan software
4	J.620100.024.02	Melakukan Migrasi Ke Teknologi Baru	<ul style="list-style-type: none">• Mengevaluasi kesesuaian kode dengan spesifikasinya• Memperbaiki kode sesuai dengan coding-guidelines dan best-practices• Membuat pengecualian penulisan kode terhadap coding-guidelines

c. Indikator Penilaian

1. Kemampuan mahasiswa dalam mengimplementasikan pembuatan Create, Read, Update dan Delete pada Laravel

d. Dasar Teori

e. Alat dan Bahan

1. Client Server: Xampp
2. Text Editor: Visual Code
3. Management Storage: Git dan Github
4. Tools Dependency Manager Multiplatform: Composer
5. Kertas A4 / Folio
6. Pulpen

f. Prosedur Kerja

1. Update

- Menambahkan sintak pada **PengalamanKerjaController.php** menjadi seperti berikut ini.

```
33     public function edit($id)
34     {
35         $pengalaman_kerja = DB::table('pengalaman_kerja')->where('id',$id)->first();
36         return view('backend.pengalaman_kerja.create', compact('pengalaman_kerja'));
37     }
38
39     public function update(Request $request)
40     {
41         DB::table('pengalaman_kerja')->where('id',$request->id)->update([
42             'nama' => $request->nama,
43             'jabatan' => $request->jabatan,
44             'tahun_masuk' => $request->tahun_masuk,
45             'tahun_keluar' => $request->tahun_keluar
46         ]);
47
48         return redirect()->route('pengalaman_kerja.index')
49             ->with('success', 'Pengalaman Kerja berhasil diperbaharui.');
50     }
51 }
```

- Menambahkan beberapa sintak di **index.blade.php line 67** pada folder Pendidikan. Tambahkan sintak berikut ini

```
48     <div class="btn-group">
49         <a class="btn btn-warning" href="{{ route('pengalaman_kerja.edit',$item->id) }}>
50             <i class="fa fa-edit"></i></a>
51             <button type="submit" class="btn btn-danger" >
52                 <i class="fa fa-trash-o"></i></button>
53         </div>
```

- Menambahkan beberapa sintak di **create.blade.php** pada folder Pendidikan. Tambahkan sintak berikut ini

```

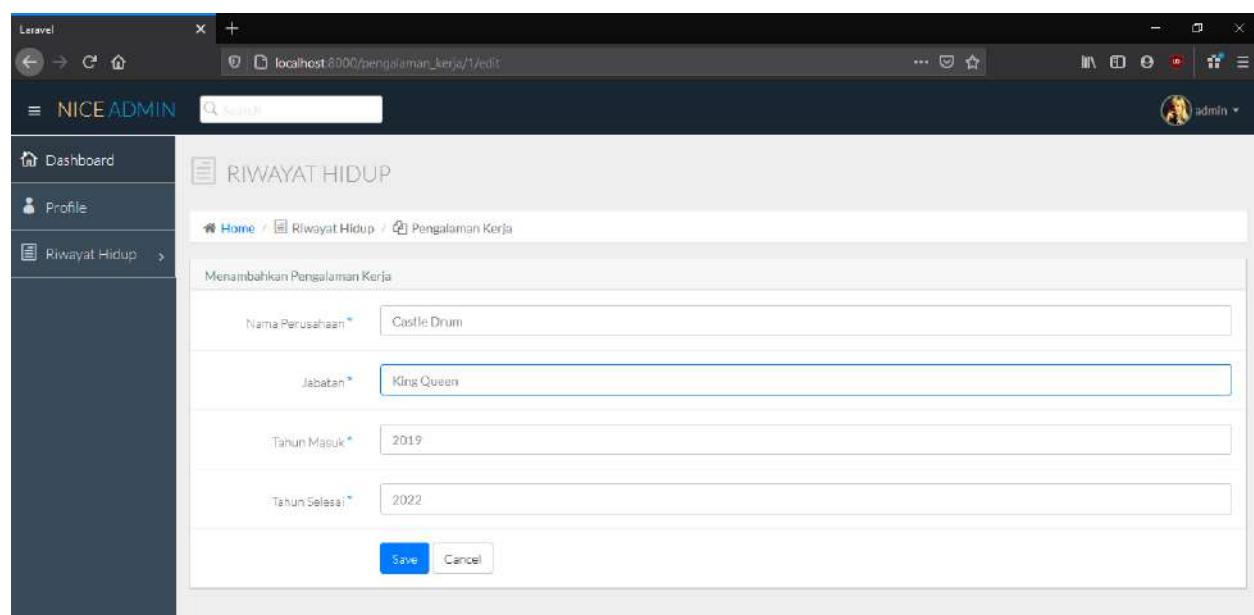
33     <div class="panel-body">
34         <div class="form">
35             <form class="form-validate form-horizontal" id="pengalaman_kerja_form" method="POST"
36                 action="{{ isset($pengalaman_kerja) ? route('pengalaman_kerja.update', $pengalaman_kerja->id) :
37                     route('pengalaman_kerja.store') }}"
38                     {!! csrf_field() !!}
39                     {!! isset($pengalaman_kerja) ? method_field('PUT') : '' !!}
40             <input type="hidden" name="id" value="{{ $pengalaman_kerja->id }}> <br/>
41             <div class="form-group ">
42                 <label for="cname" class="control-label col-lg-2">Nama Perusahaan <span
43                     class="required">*</span></label>
44                 <div class="col-lg-10">
45                     <input class="form-control" id="nama" name="nama" minlength="5" type="text"
46                     value="{{ isset($pengalaman_kerja) ? $pengalaman_kerja->nama : '' }}"
47                     required />
48                 </div>
49             </div>
50             <div class="form-group ">
51                 <label for="cjabatan" class="control-label col-lg-2">Jabatan <span
52                     class="required">*</span></label>
53                 <div class="col-lg-10">
54                     <input class="form-control" id="jabatan" name="jabatan" minlength="2" type="text"
55                     value="{{ isset($pengalaman_kerja) ? $pengalaman_kerja->jabatan : '' }}"
56                     required />
57                 </div>
58             </div>
59             <div class="form-group ">
60                 <label for="curl" class="control-label col-lg-2">Tahun Masuk <span
61                     class="required">*</span></label>
62                 <div class="col-lg-10">
63                     <input id="tahun_masuk" type="text" name="tahun_masuk" class="form-control"
64                     value="{{ isset($pengalaman_kerja) ? $pengalaman_kerja->tahun_masuk : '' }}"
65                     required>
66                 </div>
67             </div>
68             <div class="form-group ">
69                 <label for="curl" class="control-label col-lg-2">Tahun Selesai <span
70                     class="required">*</span></label>
71                 <div class="col-lg-10">
72                     <input id="tahun_keluar" type="text" name="tahun_keluar" class="form-control"
73                     value="{{ isset($pengalaman_kerja) ? $pengalaman_kerja->tahun_keluar : '' }}"
74                     required>
75                 </div>
76             </div>

```

- Kemudian buka web browser dan ketikkan **localhost:8000/pengalaman_kerja** setelah mengaktifkan cmd **php artisan serve** sehingga akan muncul tampilan seperti berikut:

Name	Position	Start Year	End Year	Action
Castle Drum	King	2020	2022	

BKPM - WORKSHOP SISTEM INFORMASI WEB FRAMEWORK



Menambahkan Pengalaman Kerja

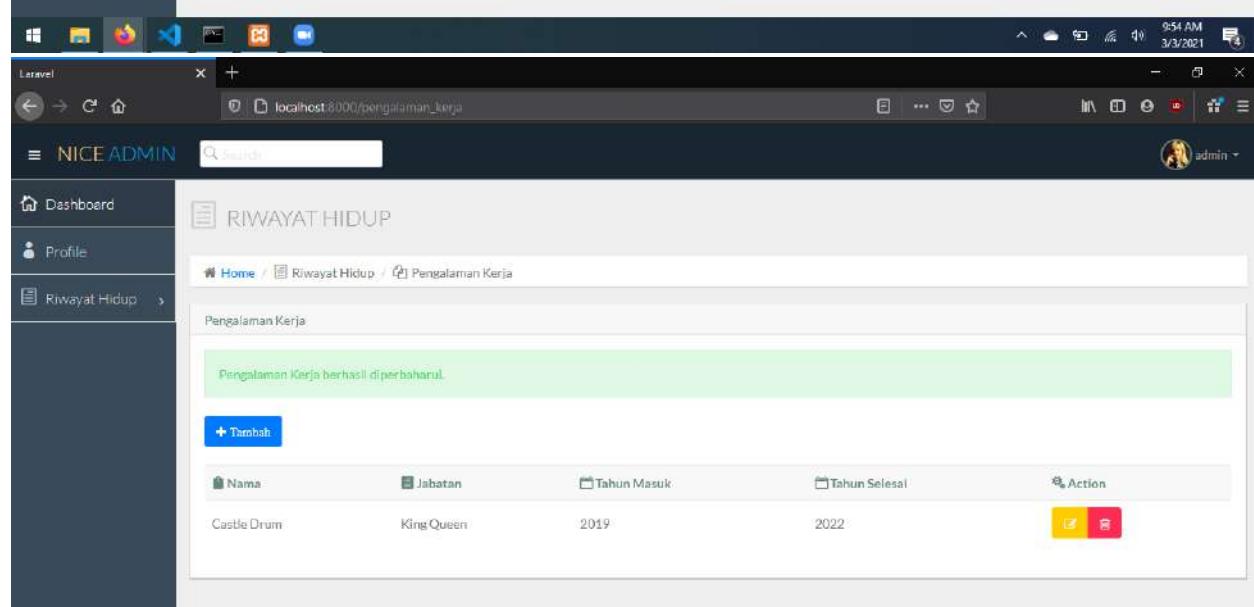
Nama Perusahaan* Castle Drum

Jabatan* King Queen

Tahun Masuk* 2019

Tahun Selesai* 2022

Save Cancel



Pengalaman Kerja

Pengalaman Kerja berhasil diperbarui.

Nama	Jabatan	Tahun Masuk	Tahun Selesai	Action
Castle Drum	King Queen	2019	2022	

g. Hasil dan Pembahasan

Format Laporan

Kertas A4

Format *.pdf

Struktur Laporan: Cover, Pendahuluan, Hasil Praktik, Kesimpulan dan Daftar Pustaka

Berikan Identitas Diri: NIM, Nama, Golongan, Tugas Minggu Ke-X

Penamaan File: ACARA-X_GOL_NIM_NAMA.pdf

**Contoh: **ACARA-1_A_E1234356_KHAFID.pdf

Kumpulkan pada <http://jti.polije.ac.id/elearning/>

h. Kesimpulan

1. Kemampuan mahasiswa dalam mengimplementasikan pembuatan Create, Read, Update dan Delete pada Laravel

i. Rubrik Penilaian

No	Indikator Penilaian	Nilai			
		1	2	3	4
1	Ketepatan waktu dan ketepatan Langkah kerja dalam mengerjakan				V
2	Ketepatan waktu dan Langkah kerja kurang tepat dalam mengerjakan			V	
3	Keterlambatan waktu dan Langkah kerja yang dilakukan kurang tepat		V		
4	Keterlambatan waktu pengumpulan dan Langkah kerja tidak selesai	V			
	Total Skor*	Skor x 25			

ACARA 28. Membuat CRUD (Query Builder) (4)

Pokok Bahasan : Membuat CRUD (Query Builder)

Acara Praktikum/Praktik : Minggu 7/4

Tempat : Daring/Luring Politeknik Negeri Jember

Alokasi Waktu : 100 menit

a. Capaian Pembelajaran Mata Kuliah (CPMK)

1. Mahasiswa mampu memahami Create, Read, Update dan Delete pada Laravel
2. Mahasiswa mampu membuat Create, Read, Update dan Delete pada Laravel

b. Penilaian Bertahap BNSP (*Skill Passport*)

Nama Skema Sertifikasi: Pengembang Web/Web Developer (SKM-496-028)

No	Kode Unit	Nama Unit Kompetensi	Elemen Kompetensi
1	J.620100.024.02	Melakukan Migrasi Ke Teknologi Baru	<ul style="list-style-type: none">• Melakukan evaluasi teknologi terkini• Menggunakan fungsi-fungsi terkini
2	J.620100.025.02	Melakukan Debugging	<ul style="list-style-type: none">• Mempersiapkan kode program• Melakukan debugging• Memperbaiki program
3	J.620100.030.02	Menerapkan Pemrograman Multimedia	<ul style="list-style-type: none">• Menjelaskan kebutuhan platform• Mempersiapkan bahasa pengolahan multimedia• Menggunakan syntax khusus multimedia• Menggunakan statement• Menetapkan kompatibilitas dari hardware dan software
4	J.620100.024.02	Melakukan Migrasi Ke Teknologi Baru	<ul style="list-style-type: none">• Mengevaluasi kesesuaian kode dengan spesifikasinya• Memperbaiki kode sesuai dengan coding-guidelines dan best-practices• Membuat pengecualian penulisan kode terhadap coding-guidelines

c. Indikator Penilaian

1. Kemampuan mahasiswa dalam mengimplementasikan pembuatan Create, Read, Update dan Delete pada Laravel

d. Dasar Teori

e. Alat dan Bahan

1. Client Server: Xampp
2. Text Editor: Visual Code
3. Management Storage: Git dan Github
4. Tools Dependency Manager Multiplatform: Composer
5. Kertas A4 / Folio
6. Pulpen

f. Prosedur Kerja

1. Delete

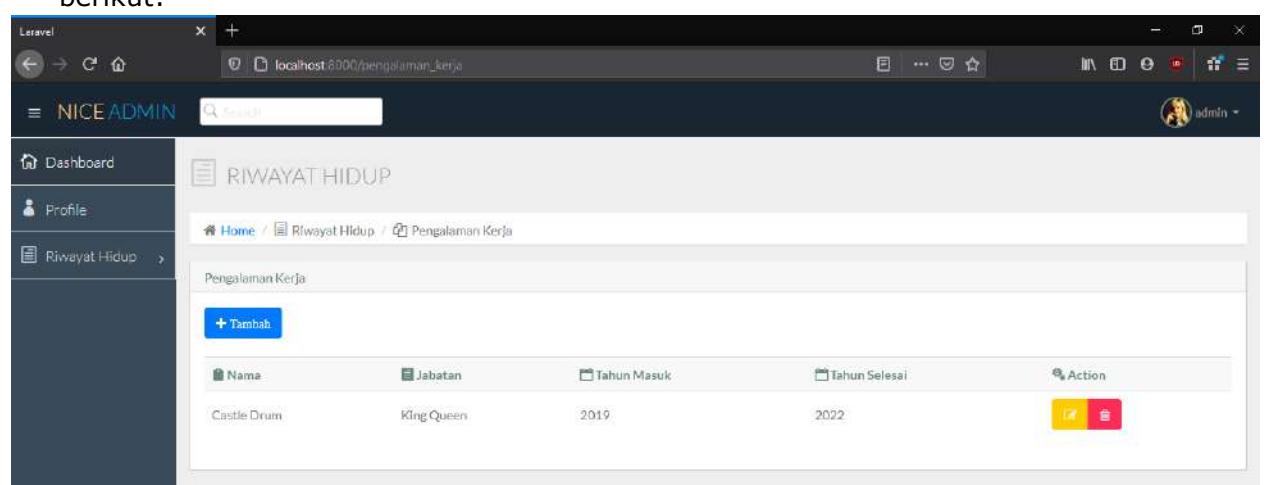
- Menambahkan sintak pada **PengalamanKerjaController.php** menjadi seperti berikut:

```
50     public function destroy($id)
51     {
52         DB::table('pengalaman_kerja')->where(['id'=>$id])->delete();
53         return redirect()->route('pengalaman_kerja.index')
54             ->with(['success','Data Pengalaman Kerja berhasil dihapus']);
55     }
```

- Menambahkan beberapa sintak di **index.blade.php** pada folder Pengalaman kerja. Tambahkan sintak berikut:

```
48     <div class="btn-group">
49         <form action="{{ route('pengalaman_kerja.destroy',$item->id) }}" method="POST">
50             <a class="btn btn-warning" href="{{ route('pengalaman_kerja.edit',$item->id) }}">
51                 <i class="fa fa-edit"></i></a>
52             @csrf
53             @method('DELETE')
54             <button type="submit" class="btn btn-danger"
55                 onclick="return confirm('Apakah Anda yakin ingin menghapus data ini?')">
56                 <i class="fa fa-trash-o"></i></button>
57         </form>
58     </div>
```

- Kemudian buka web browser dan ketikkan **localhost:8000/pengalaman_kerja** setelah mengaktifkan cmd **php artisan serve** sehingga akan muncul tampilan seperti berikut:



The image displays two screenshots of a Laravel-based web application interface. Both screenshots show a sidebar menu with 'Dashboard', 'Profile', and 'Riwayat Hidup'. The main content area is titled 'RIWAYAT HIDUP' and shows a table of work experience data:

Nama	Jabatan	Tahun Masuk	Tahun Selesai	Action
Castle Drum	King Queen	2019	2022	

In the top screenshot, a modal dialog box is open asking 'Apakah Anda ingin menghapus data ini?' (Do you want to delete this data?) with 'Oke' (OK) and 'Batal' (Cancel) buttons. In the bottom screenshot, a green success message at the top of the table area states 'Data Pengalaman Kerja berhasil dihapus' (Work experience data has been successfully deleted).

g. Hasil dan Pembahasan

Format Laporan

Kertas A4

Format *.pdf

Struktur Laporan: Cover, Pendahuluan, Hasil Praktik, Kesimpulan dan Daftar Pustaka

Berikan Identitas Diri: NIM, Nama, Golongan, Tugas Minggu Ke-X

Penamaan File: ACARA-X_GOL_NIM_NAMA.pdf

**Contoh: **ACARA-1_A_E1234356_KHAFID.pdf

Kumpulkan pada <http://jti.polije.ac.id/elearning/>

h. Kesimpulan

1. Kemampuan mahasiswa dalam mengimplementasikan pembuatan Create, Read, Update dan Delete pada Laravel

i. Rubrik Penilaian

No	Indikator Penilaian	Nilai			
		1	2	3	4
1	Ketepatan waktu dan ketepatan Langkah kerja dalam mengerjakan				V
2	Ketepatan waktu dan Langkah kerja kurang tepat dalam mengerjakan			V	
3	Keterlambatan waktu dan Langkah kerja yang dilakukan kurang tepat		V		
4	Keterlambatan waktu pengumpulan dan Langkah kerja tidak selesai	V			
	Total Skor*	Skor x 25			

ACARA 29. Membuat CRUD (Query Eloquent) (1)

Pokok Bahasan : Membuat CRUD (Query Eloquent)

Acara Praktikum/Praktik : Minggu 9/1

Tempat : Daring/Luring Politeknik Negeri Jember

Alokasi Waktu : 100 menit

a. Capaian Pembelajaran Mata Kuliah (CPMK)

1. Mahasiswa mampu memahami Create, Read, Update dan Delete pada Laravel menggunakan Query Eloquent
2. Mahasiswa mampu membuat Create, Read, Update dan Delete pada Laravel menggunakan Query Eloquent

b. Penilaian Bertahap BNSP (*Skill Passport*)

Nama Skema Sertifikasi: Pengembang Web/Web Developer (SKM-496-028)

No	Kode Unit	Nama Unit Kompetensi	Elemen Kompetensi
1	J.620100.024.02	Melakukan Migrasi Ke Teknologi Baru	<ul style="list-style-type: none">• Melakukan evaluasi teknologi terkini• Menggunakan fungsi-fungsi terkini
2	J.620100.025.02	Melakukan Debugging	<ul style="list-style-type: none">• Mempersiapkan kode program• Melakukan debugging• Memperbaiki program
3	J.620100.030.02	Menerapkan Pemrograman Multimedia	<ul style="list-style-type: none">• Menjelaskan kebutuhan platform• Mempersiapkan bahasa pengolahan multimedia• Menggunakan syntax khusus multimedia• Menggunakan statement• Menetapkan kompatibilitas dari hardware dan software
4	J.620100.024.02	Melakukan Migrasi Ke Teknologi Baru	<ul style="list-style-type: none">• Mengevaluasi kesesuaian kode dengan spesifikasinya• Memperbaiki kode sesuai dengan coding-guidelines dan best-practices• Membuat pengecualian penulisan kode terhadap coding-guidelines

c. Indikator Penilaian

1. Kemampuan mahasiswa dalam mengimplementasikan pembuatan Create, Read, Update dan Delete pada Laravel menggunakan Query Eloquent

d. Dasar Teori

e. Alat dan Bahan

1. Client Server: Xampp
2. Text Editor: Visual Code
3. Management Storage: Git dan Github
4. Tools Dependency Manager Multiplatform: Composer
5. Kertas A4 / Folio
6. Pulpen

f. Prosedur Kerja

1. Tekan **Terminal** □ **New Terminal** kemudian ketikan sintak berikut.

php artisan make:migration create_pendidikan_table

```
PS C:\xampp\htdocs\BelajarLaravel> php artisan make:migration create_pendidikan_table
Created Migration: 2021_02_14_044930_create_pendidikan_table
PS C:\xampp\htdocs\BelajarLaravel>
```

2. Buka folder **database** □ **Migration** □ **2021_02_14_044930_create_pendidikan_table.php** kemudian tambahkan sehingga sintak menjadi seperti berikut:

```
14     public function up()
15     {
16         Schema::create('pendidikan', function (Blueprint $table) {
17             $table->bigIncrements('id');
18             $table->string(['nama']);
19             $table->tinyInteger('tingkatan');
20             $table->year('tahun_masuk');
21             $table->year('tahun_keluar');
22             $table->timestamps();
23         });
24     }
```

3. Tekan Terminal □ **New Terminal** kemudian ketikan sintak berikut.

php artisan migrate

4. Tekan **Terminal** □ **New Terminal** kemudian ketikan sintak berikut.

php artisan make:model Pendidikan

```
7  class Pendidikan extends Model
8  {
9      protected $table = 'pendidikan';
10     protected $primaryKey = 'id';
11     protected $fillable = [
12         'nama', 'tingkatan', 'tahun_masuk', 'tahun_keluar',
13     ];
14 }
15
```

5. Tekan **Terminal** □ **New Terminal** kemudian ketikan sintak berikut.

```
php artisan make:controller PendidikanController
```

6. **Pindahkan** file **PengalamanKerjaController.php** ke dalam folder backend.
7. **Kemudian** tambahkan sehingga sintak **PendidikanController.php** menjadi seperti berikut ini.

```
3  namespace App\Http\Controllers\Backend;
```

```
11     public function index()
12     {
13         return view('backend.pendidikan.index');
14     }
15     public function create()
16     {
17         $pendidikan = null;
18         return view('backend.pendidikan.create',compact('pendidikan'));
19     }
20     public function store(Request $request)
21     {
22         Pendidikan::create($request->all());
23
24         return redirect()->route('pendidikan.index')
25             ->with('success','Data Pendidikan baru telah berhasil disimpan.');
26     }

```

8. Buka folder **resources** □ **web.php** untuk menambahkan alamat url baru yang menghubungkan dengan **PendidikanController.php**. Tambahkan sintak berikut ini.

```
48     Route::group(['namespace' => 'Backend'], function()
49     {
50         Route::resource('dashboard', 'DashboardController');
51         Route::resource('pendidikan', 'PendidikanController');
52     });

```

9. Membuat folder baru pada **resources** □ **views** □ **backend** dengan nama Pendidikan, kemudian buat file blade baru dengan nama **index.blade.php** pada folder Pendidikan yang yang telah dibuat sebelumnya. Tambahkan sintak berikut ini.

```
1 @extends('backend/layouts.template')
2
3 @section('content')
4 <section id="main-content">
5   <section class="wrapper">
6     <div class="row">
7       <div class="col-lg-12">
8         <h3 class="page-header"><i class="icon_document_alt"></i> Riwayat Hidup</h3>
9         <ol class="breadcrumb">
10           <li><i class="fa fa-home"></i><a href="{{ url('dashboard') }}>Home</a></li>
11           <li><i class="icon_document_alt"></i>Riwayat Hidup</li>
12           <li><i class="fa fa-files-o"></i>Pendidikan</li>
13         </ol>
14       </div>
15     </div>
16     <div class="row">
17       <div class="col-lg-12">
18         <section class="panel">
19           <header class="panel-heading">
20             Pendidikan
21           </header>
22           <div class="panel-body">
23             @if ($message = Session::get('success'))
24               <div class="alert alert-success">
25                 <p>{{ $message }}</p>
26               </div>
27             @endif
28             <a href="{{ route('pendidikan-create') }}"><button class="btn btn-primary" type="button"><i
29               class="fa fa-plus"> Tambah</i></button></a>
30           </div>
31         </section>
32       </div>
33     </div>
34   </section>
35 </section>
36 @endsection
```

10. Membuat file blade baru dengan nama **create.blade.php** pada folder Pendidikan. Tambahkan sintak berikut ini.

```
1 @extends('backend/layouts.template')
2
3 @section('content')
4 <section id="main-content">
5   <section class="wrapper">
6     <div class="row">
7       <div class="col-lg-12">
8         <h3 class="page-header"><i class="icon_document_alt"></i> Riwayat Hidup</h3>
9         <ol class="breadcrumb">
10           <li><i class="fa fa-home"></i><a href="{{ url('dashboard') }}">Home</a></li>
11           <li><i class="icon_document_alt"></i>Riwayat Hidup</li>
12           <li><i class="fa fa-files-o"></i>Pendidikan</li>
13         </ol>
14       </div>
15     </div>
16     <!-- Form validations -->
17     <div class="row">
18       <div class="col-lg-12">
19         <section class="panel">
20           <header class="panel-heading">
21             Pendidikan
22           </header>
23
24           @if ($errors->any())
25             <div class="alert alert-danger">
26               <strong>Whoops!</strong> There were some problems with your input.<br><br>
27               <ul>
28                 @foreach ($errors->all() as $error)
29                   <li>{{ $error }}</li>
30                 @endforeach
31               </ul>
32             </div>
33           @endif
34           <div class="panel-body">
35             <div class="form">
36               <form class="form-validate form-horizontal" id="pendidikan_form" method="POST"
37               action="{{ route('pendidikan.store') }}"
38               (! csrf_field() !)
39               <div class="form-group">
40                 <label for="cname" class="control-label col-lg-2">Nama Sekolah <span
41                               class="required">*</span></label>
42                 <div class="col-lg-10">
43                   <input class="form-control" id="nama" name="nama" minlength="5" type="text"
44                               required />
45                 </div>
46               </div>
47               <div class="form-group">
48                 <label for="cemail" class="control-label col-lg-2">Tingkatan <span
49                               class="required">*</span></label>
```

```

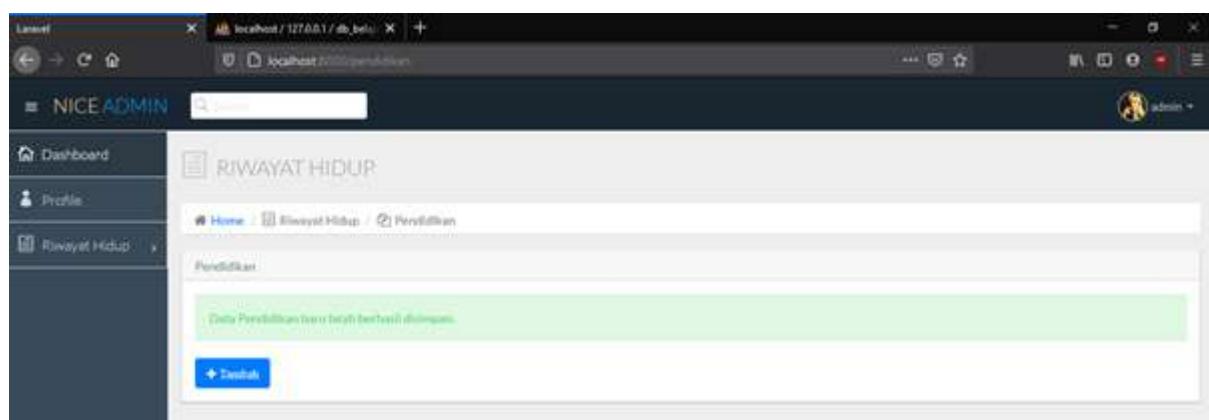
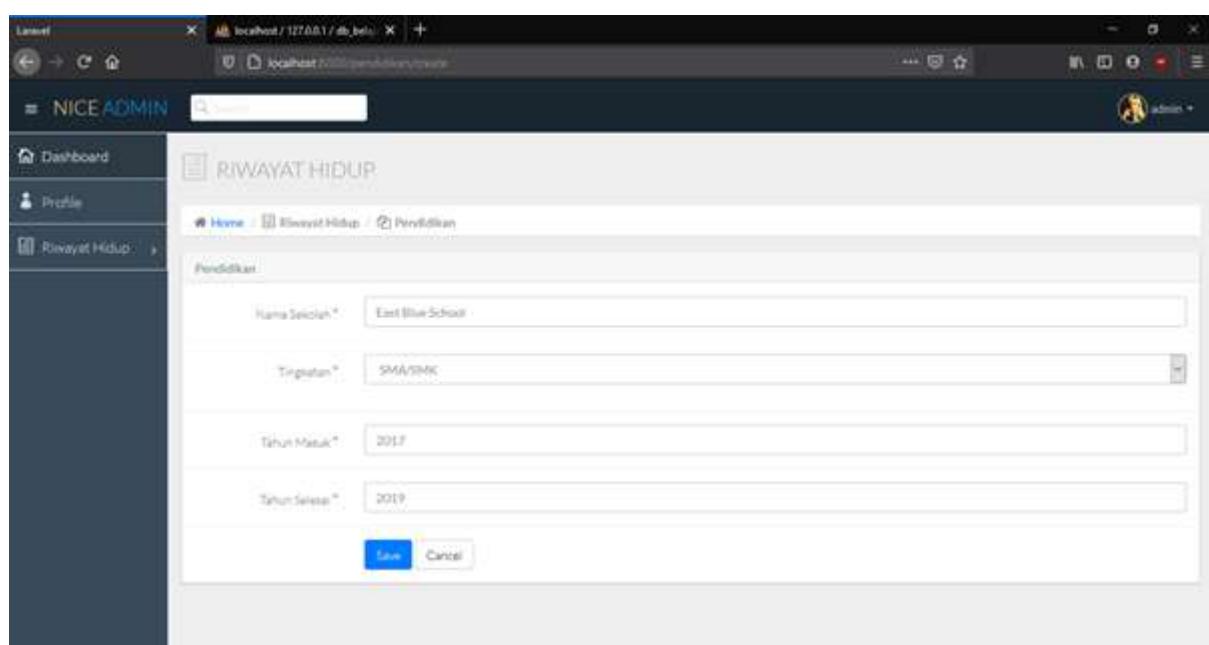
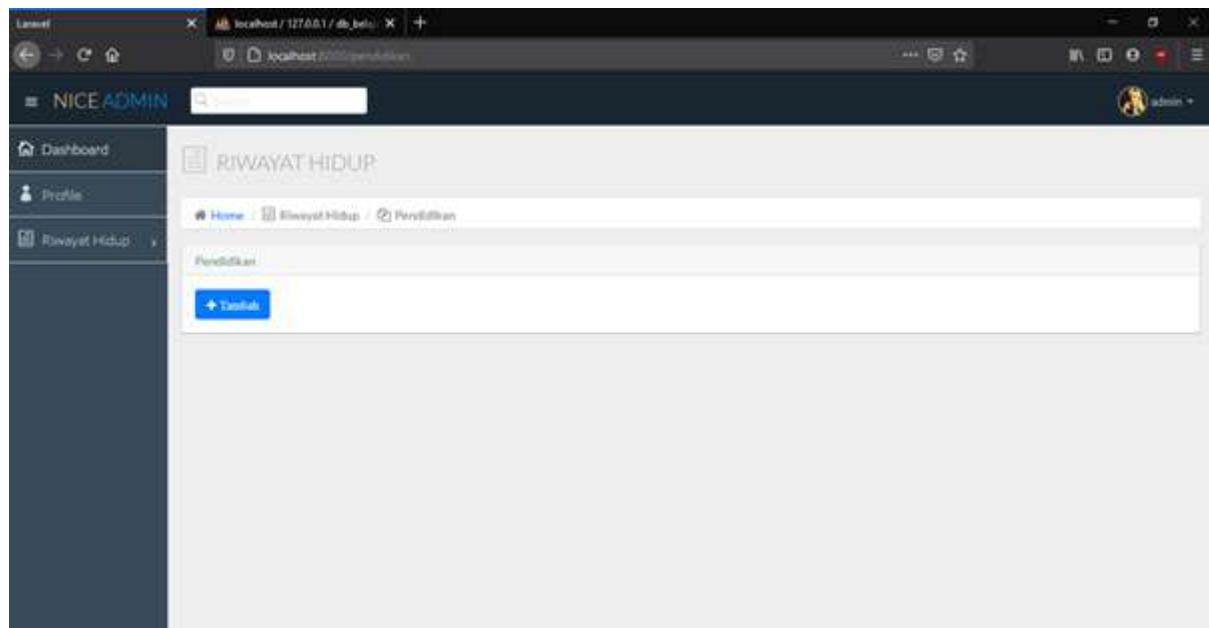
49:         <div class="col-lg-10">
50:             <select class="form-control m-bot15" name="tingkatan" id="tingkatan" required>
51:                 <option value="1">TK</option>
52:                 <option value="2">SD</option>
53:                 <option value="3">SMP</option>
54:                 <option value="4">SMA/SMK</option>
55:                 <option value="5">D3</option>
56:                 <option value="6">D4/S1</option>
57:                 <option value="7">S2</option>
58:                 <option value="8">S3</option>
59:             </select>
60:         </div>
61:     </div>
62:     <div class="form-group ">
63:         <label for="curl" class="control-label col-lg-2">Tahun Masuk <span
64:             class="required">*</span></label>
65:         <div class="col-lg-10">
66:             <input id="tahun_masuk" type="text" name="tahun_masuk" class="form-control"
67:                 required>
68:         </div>
69:     </div>
70:     <div class="form-group ">
71:         <label for="curl" class="control-label col-lg-2">Tahun Selesai <span
72:             class="required">*</span></label>
73:         <div class="col-lg-10">
74:             <input id="tahun_keluar" type="text" name="tahun_keluar" class="form-control"
75:                 required>
76:         </div>
77:     </div>

78:     <div class="form-group">
79:         <div class="col-lg-offset-2 col-lg-10">
80:             <button class="btn btn-primary" type="submit">Save</button>
81:             <a href="{{route('pendidikan.index')}}"><button class="btn btn-default" type="button">Cancel</button></a>
82:         </div>
83:     </div>
84: </div>
85: </div>
86: </div>
87: </div>
88: </div>
89: </div>
90: </div>
91: <!-- page end-->
92: </section>
93: </section>
94: </endsection>

95: @push('content-css')
96: <link href="{{ asset('backend/css/bootstrap-datepicker.css') }}" rel="stylesheet" />
97: @endpush
98: @push('content-js')
99: <script src="{{ asset('backend/js/bootstrap-datepicker.js') }}" ></script>
100: <script type="text/javascript">
101:     $('#tahun_masuk').datepicker({
102:         format: "yyyy",
103:         viewMode: "years",
104:         minViewMode: "years"
105:     }):$('#tahun_keluar').datepicker({
106:         format: "yyyy",
107:         viewMode: "years",
108:         minViewMode: "years"
109:     });
110: </script>
111: @endpush

```

11. Kemudian buka web browser dan ketikkan **localhost:8000/pendidikan** setelah mengaktifkan cmd **php artisan serve** sehingga akan muncul tampilan seperti berikut:



g. Hasil dan Pembahasan

Format Laporan

Kertas A4

Format *.pdf

Struktur Laporan: Cover, Pendahuluan, Hasil Praktik, Kesimpulan dan Daftar Pustaka

Berikan Identitas Diri: NIM, Nama, Golongan, Tugas Minggu Ke-X

Penamaan File: ACARA-X_GOL_NIM_NAMA.pdf

**Contoh: **ACARA-1_A_E1234356_KHAFID.pdf

Kumpulkan pada <http://jti.polije.ac.id/elearning/>

h. Kesimpulan

1. Mahasiswa memahami dan mengimplementasikan Membuat CRUD (Query Eloquent)

i. Rubrik Penilaian

No	Indikator Penilaian	Nilai			
		1	2	3	4
1	Ketepatan waktu dan ketepatan Langkah kerja dalam mengerjakan				V
2	Ketepatan waktu dan Langkah kerja kurang tepat dalam mengerjakan			V	
3	Keterlambatan waktu dan Langkah kerja yang dilakukan kurang tepat		V		
4	Keterlambatan waktu pengumpulan dan Langkah kerja tidak seusai	V			
	Total Skor*	Skor x 25			

ACARA 30. Membuat CRUD (Query Eloquent) (2)

Pokok Bahasan : Membuat CRUD (Query Eloquent)

Acara Praktikum/Praktik : Minggu 9/2

Tempat : Daring/Luring Politeknik Negeri Jember

Alokasi Waktu : 100 menit

a. Capaian Pembelajaran Mata Kuliah (CPMK)

1. Mahasiswa mampu memahami Create, Read, Update dan Delete pada Laravel menggunakan Query Eloquent
2. Mahasiswa mampu membuat Create, Read, Update dan Delete pada Laravel menggunakan Query Eloquent

b. Penilaian Bertahap BNSP (*Skill Passport*)

Nama Skema Sertifikasi: Pengembang Web/Web Developer (SKM-496-028)

No	Kode Unit	Nama Unit Kompetensi	Elemen Kompetensi
1	J.620100.024.02	Melakukan Migrasi Ke Teknologi Baru	<ul style="list-style-type: none">• Melakukan evaluasi teknologi terkini• Menggunakan fungsi-fungsi terkini
2	J.620100.025.02	Melakukan Debugging	<ul style="list-style-type: none">• Mempersiapkan kode program• Melakukan debugging• Memperbaiki program
3	J.620100.030.02	Menerapkan Pemrograman Multimedia	<ul style="list-style-type: none">• Menjelaskan kebutuhan platform• Mempersiapkan bahasa pengolahan multimedia• Menggunakan syntax khusus multimedia• Menggunakan statement• Menetapkan kompatibilitas dari hardware dan software
4	J.620100.024.02	Melakukan Migrasi Ke Teknologi Baru	<ul style="list-style-type: none">• Mengevaluasi kesesuaian kode dengan spesifikasinya• Memperbaiki kode sesuai dengan coding-guidelines dan best-practices• Membuat pengecualian penulisan kode terhadap coding-guidelines

c. Indikator Penilaian

1. Kemampuan mahasiswa dalam mengimplementasikan pembuatan Create, Read, Update dan Delete pada Laravel menggunakan Query Eloquent

d. Dasar Teori

e. Alat dan Bahan

1. Client Server: Xampp
2. Text Editor: Visual Code
3. Management Storage: Git dan Github
4. Tools Dependency Manager Multiplatform: Composer
5. Kertas A4 / Folio
6. Pulpen

f. Prosedur Kerja

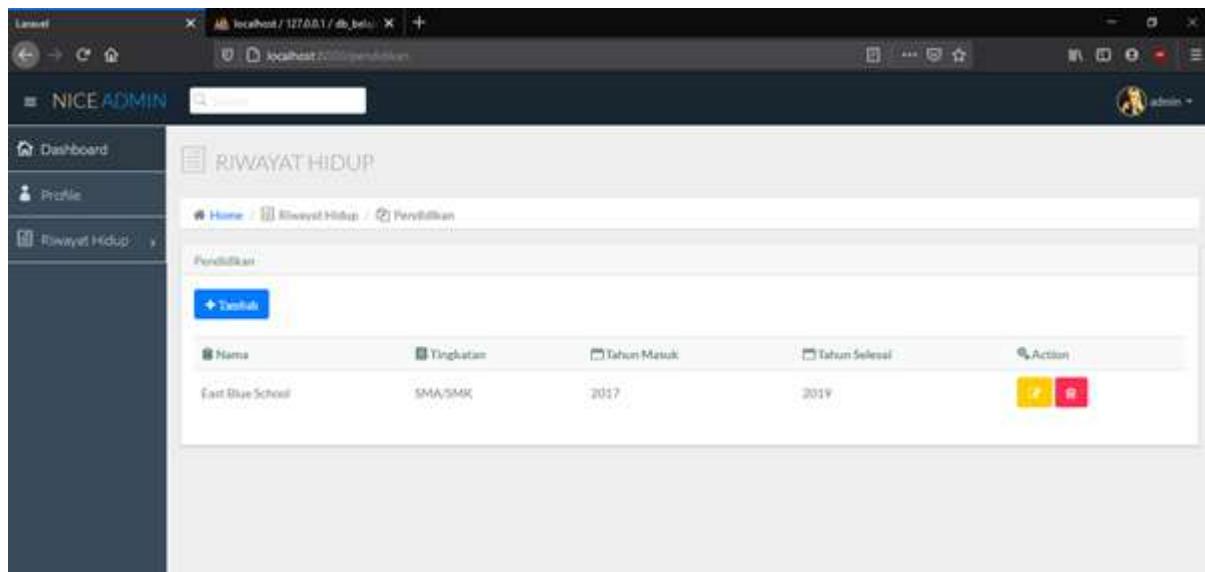
1. Menambahkan sintak pada **PendidikanController.php** menjadi seperti berikut:

```
5  use Illuminate\Http\Request;
6  use App\Pendidikan;
7  use App\Http\Controllers\Controller;
8
9  class PendidikanController extends Controller
10 {
11     public function index()
12     {
13         $pendidikan = Pendidikan::get();
14         return view('backend.pendidikan.index',compact('pendidikan'));
15     }
16     public function create()
17     {
18         $pendidikan = null;
19         return view('backend.pendidikan.create',compact('pendidikan'));
20     }
}
```

2. Kemudian menambahkan beberapa sintak di **index.blade.php line 31** pada folder Pendidikan. Tambahkan sintak berikut:

```
29         <a href="{{ route('pendidikan.create') }}><button class="btn btn-primary" type="button"><i  
30             class="fa fa-plus"> Tambah</i></button></a>  
31         <br><br>  
32         <table class="table table-striped table-advance table-hover">  
33             <tbody>  
34                 <tr>  
35                     <th><i class="icon_bag"></i> Nama</th>  
36                     <th><i class="icon_document"></i> Tingkatan</th>  
37                     <th><i class="icon_calendar"></i> Tahun Masuk</th>  
38                     <th><i class="icon_calendar"></i> Tahun Selesai</th>  
39                     <th><i class="icon_cogs"></i> Action</th>  
40                 </tr>  
41                 @foreach ($pendidikan as $item)  
42                     <tr>  
43                         <td>{{ $item->nama }}</td>  
44                         <td>  
45                             @if ($item->tingkatan==1)  
46                                 TK  
47                             @elseif ($item->tingkatan==2)  
48                                 SD  
49                             @elseif ($item->tingkatan==3)  
50                                 SMP  
51                             @elseif ($item->tingkatan==4)  
52                                 SMA/SMK  
53                             @elseif ($item->tingkatan==5)  
54                                 D3  
55                             @elseif ($item->tingkatan==6)  
56                                 D4/S1  
57                             @elseif ($item->tingkatan==7)  
58                                 S2  
59                             @elseif ($item->tingkatan==8)  
60                                 S3  
61                             @endif  
62                         </td>  
63                         <td>{{ $item->tahun_masuk }}</td>  
64                         <td>{{ $item->tahun_keluar }}</td>  
65                         <td>  
66                             <div class="btn-group">  
67                                 <a class="btn btn-warning" href="">  
68                                     <i class="fa fa-edit"></i></a>  
69                                 <button type="submit" class="btn btn-danger"><i class="fa fa-trash-o"></i></button>  
70                             </div>  
71                         </td>  
72                     </tr>  
73                 @endforeach  
74             </tbody>  
75         </table>  
76     </div>  
77     </div>  
78     <!-- page end-->  
79 </section>  
80 </section>  
81 </section>  
82 </section>  
83 </section>
```

3. Kemudian buka web browser dan ketikkan **localhost:8000/pendidikan** setelah mengaktifkan cmd **php artisan serve** sehingga akan muncul tampilan seperti berikut:



g. Hasil dan Pembahasan

Format Laporan

Kertas A4

Format *.pdf

Struktur Laporan: Cover, Pendahuluan, Hasil Praktik, Kesimpulan dan Daftar Pustaka

Berikan Identitas Diri: NIM, Nama, Golongan, Tugas Minggu Ke-X

Penamaan File: ACARA-X_GOL_NIM_NAMA.pdf

**Contoh: **ACARA-1_A_E1234356_KHAFID.pdf

Kumpulkan pada <http://iti.polije.ac.id/elearning/>

h. Kesimpulan

1. Mahasiswa memahami dan mengimplementasikan Membuat CRUD (Query Eloquent)

i. Rubrik Penilaian

BKPM - WORKSHOP SISTEM INFORMASI WEB FRAMEWORK

No	Indikator Penilaian	Nilai			
		1	2	3	4
1	Ketepatan waktu dan ketepatan Langkah kerja dalam mengerjakan				V
2	Ketepatan waktu dan Langkah kerja kurang tepat dalam mengerjakan			V	
3	Keterlambatan waktu dan Langkah kerja yang dilakukan kurang tepat		V		
4	Keterlambatan waktu pengumpulan dan Langkah kerja tidak selesai	V			
	Total Skor*	Skor x 25			

ACARA 31. Membuat CRUD (Query Eloquent) (3)

Pokok Bahasan : Membuat CRUD (Query Eloquent)

Acara Praktikum/Praktik : Minggu 9/3

Tempat : Daring/Luring Politeknik Negeri Jember

Alokasi Waktu : 100 menit

a. Capaian Pembelajaran Mata Kuliah (CPMK)

1. Mahasiswa mampu memahami Create, Read, Update dan Delete pada Laravel menggunakan Query Eloquent
2. Mahasiswa mampu membuat Create, Read, Update dan Delete pada Laravel menggunakan Query Eloquent

b. Penilaian Bertahap BNSP (*Skill Passport*)

Nama Skema Sertifikasi: Pengembang Web/Web Developer (SKM-496-028)

No	Kode Unit	Nama Unit Kompetensi	Elemen Kompetensi
1	J.620100.036.01	Melaksanakan pengujian kode program secara statis	<ul style="list-style-type: none">• Mempersiapkan dokumentasi peralatan dan lingkungan pengujian statis• Membuat program driver test/stub• Melaksanakan pengujian• Mengukur aplikasi ketika stress test dijalankan• Menganalisis data pengujian• Melaporkan dokumentasi pengujian
2	J.620100.044.01	Menerapkan Alert Notification Jika Aplikasi Bermasalah	<ul style="list-style-type: none">• Analisis permasalahan yang memerlukan tindakan cepat• Menentukan mekanisme notification sewaktu timbul suatu permasalahan• Menjalankan mekanisme graceful failure jika terjadi permasalahan
3	J.620100.045.01	Melakukan Pemantauan Resource yang Digunakan Aplikasi	<ul style="list-style-type: none">• Analisis resources yang kritis yang diperlukan aplikasi• Membuat modul visualisasi penggunaan resources

4	J.620100.047.01	Melakukan Pembaharuan Perangkat Lunak	<ul style="list-style-type: none"> • Menganalisis differensiasi perangkat lunak yang terbaru dengan yang existing • Membuat program perangkat lunak penambahan differensiasi
---	-----------------	---------------------------------------	--

c. Indikator Penilaian

1. Kemampuan mahasiswa dalam mengimplementasikan pembuatan Create, Read, Update dan Delete pada Laravel menggunakan Query Eloquent

d. Dasar Teori

e. Alat dan Bahan

1. Client Server: Xampp
2. Text Editor: Visual Code
3. Management Storage: Git dan Github
4. Tools Dependency Manager Multiplatform: Composer
5. Kertas A4 / Folio
6. Pulpen

f. Prosedur Kerja

1. Menambahkan sintak pada **PendidikanController.php** menjadi seperti berikut:

```

27     public function edit(Pendidikan $pendidikan)
28     {
29         return view('backend.pendidikan.create', compact('pendidikan'));
30     }
31     public function update(Request $request, Pendidikan $pendidikan)
32     {
33         $pendidikan->update($request->all());
34
35         return redirect()->route('pendidikan.index')
36             ->with('success','Pendidikan berhasil diperbaharui.');
37     }

```

2. Menambahkan beberapa sintak di **index.blade.php line 67** pada folder Pendidikan. Tambahkan sintak berikut ini

```

66     <div class="btn-group">
67         <a class="btn btn-warning" href="{{ route('pendidikan.edit',$item->id) }}>
68             <i class="fa fa-edit"></i></a>
69         <button type="submit" class="btn btn-danger"><i class="fa fa-trash-o"></i></button>
70     </div>

```

3. Menambahkan beberapa sintak di **create.blade.php** pada folder Pendidikan. Tambahkan sintak berikut ini

BKPM - WORKSHOP SISTEM INFORMASI WEB FRAMEWORK

```

18 |         <div class="col-lg-12">
19 |             <section class="panel">
20 |                 <header class="panel-heading">
21 |                     {{ isset($admin_lecturer) ? 'Mengubah' : 'Menambahkan' }} Pendidikan
22 |                 </header>
23 |                 @if ($errors->any())
24 |                     <div class="alert alert-danger">
25 |                         <strong>Whoops!</strong> There were some problems with your input.<br><br>
26 |                         <ul>
27 |                             @foreach ($errors->all() as $error)
28 |                             <li>{{ $error }}</li>
29 |                         @endforeach
30 |                     </ul>
31 |
32 |
33 |
34 |
35 |             <form class="form-validate form-horizontal" id="pendidikan_form" method="POST"
36 |                 action="{{ isset($pendidikan) ? route('pendidikan.update',$pendidikan->id) : route('pendidikan.store') }}"
37 |                 {{ csrf_field() !!}}
38 |                 {{! isset($pendidikan) ? method_field('PUT') : '' !!}}
39 |             <div class="form-group">
40 |                 <label for="name" class="control-label col-lg-2">Nama Sekolah <span
41 |                     class="required">*</span></label>
42 |                 <div class="col-lg-10">
43 |                     <input class="form-control" id="nama" name="nama" minlength="5" type="text" value="{{ isset($pendidikan) ? $pendidikan->nama : '' }}"
44 |                     required />
45 |                 </div>
46 |
47 |             <div class="col-lg-10">
48 |                 <select class="form-control" name="tingkatan" id="tingkatan" required>
49 |                     <option value="1" {{ (isset($pendidikan) && $pendidikan->tingkatan == 1) ? 'selected' : '' }}>TK</option>
50 |                     <option value="2" {{ (isset($pendidikan) && $pendidikan->tingkatan == 2) ? 'selected' : '' }}>SD</option>
51 |                     <option value="3" {{ (isset($pendidikan) && $pendidikan->tingkatan == 3) ? 'selected' : '' }}>SMP</option>
52 |                     <option value="4" {{ (isset($pendidikan) && $pendidikan->tingkatan == 4) ? 'selected' : '' }}>SMA/SMK</option>
53 |                     <option value="5" {{ (isset($pendidikan) && $pendidikan->tingkatan == 5) ? 'selected' : '' }}>D3</option>
54 |                     <option value="6" {{ (isset($pendidikan) && $pendidikan->tingkatan == 6) ? 'selected' : '' }}>D4/S1</option>
55 |                     <option value="7" {{ (isset($pendidikan) && $pendidikan->tingkatan == 7) ? 'selected' : '' }}>S2</option>
56 |                     <option value="8" {{ (isset($pendidikan) && $pendidikan->tingkatan == 8) ? 'selected' : '' }}>S3</option>
57 |                 </select>
58 |             </div>
59 |
60 |
61 |
62 |             <div class="col-lg-10">
63 |                 <input id="tahun_masuk" type="text" name="tahun_masuk" class="form-control" value="{{ isset($pendidikan) ? $pendidikan->tahun_masuk : '' }}"
64 |                 required>
65 |             </div>
66 |
67 |
68 |
69 |
70 |             <div class="col-lg-10">
71 |                 <input id="tahun_keluar" type="text" name="tahun_keluar" class="form-control" value="{{ isset($pendidikan) ? $pendidikan->tahun_keluar : '' }}"
72 |                 required>
73 |             </div>
74 |
75 |
76 |
77 |

```

4. Kemudian buka web browser dan ketikkan **localhost:8000/pendidikan** setelah mengaktifkan cmd **php artisan serve** sehingga akan muncul tampilan seperti berikut:

Nama	Tingkatan	Tahun Masuk	Tahun Selesai	Action
East Blue School	SMA/SMK	2017	2019	



Laravel × localhost / 127.0.0.1 / db_belaan × +

NICEADMIN Search admin

Dashboard Profile Riwayat Hidup >

RIWAYAT HIDUP

Home / Riwayat Hidup / Pendidikan

Menambahkan Pendidikan

Nama Sekolah*	East Blue School
Tingkatan*	SMA/SMK
Tahun Masuk*	2017
Tahun Selesai*	2019

Save Cancel

Laravel × localhost / 127.0.0.1 / db_belaan × +

NICEADMIN Search admin

Dashboard Profile Riwayat Hidup >

RIWAYAT HIDUP

Home / Riwayat Hidup / Pendidikan

Menambahkan Pendidikan

Nama Sekolah*	East Blue School
Tingkatan*	SMP
Tahun Masuk*	2016
Tahun Selesai*	2019

Save Cancel

Laravel × localhost / 127.0.0.1 / db_belaan × +

NICEADMIN Search admin

Dashboard Profile Riwayat Hidup >

RIWAYAT HIDUP

Home / Riwayat Hidup / Pendidikan

Pendidikan

Pendidikan berhasil diperbarui.

+ Tambah

Nama	Tingkatan	Tahun Masuk	Tahun Selesai	Action
East Blue School	SMP	2016	2019	

g. Hasil dan Pembahasan

Format Laporan

Kertas A4

Format *.pdf

Struktur Laporan: Cover, Pendahuluan, Hasil Praktik, Kesimpulan dan Daftar Pustaka

Berikan Identitas Diri: NIM, Nama, Golongan, Tugas Minggu Ke-X

Penamaan File: ACARA-X_GOL_NIM_NAMA.pdf

**Contoh: **ACARA-1_A_E1234356_KHAFID.pdf

Kumpulkan pada <http://jti.polije.ac.id/elearning/>

h. Kesimpulan

1. Mahasiswa memahami dan mengimplementasikan Membuat CRUD (Query Eloquent)

i. Rubrik Penilaian

No	Indikator Penilaian	Nilai			
		1	2	3	4
1	Ketepatan waktu dan ketepatan Langkah kerja dalam mengerjakan				V
2	Ketepatan waktu dan Langkah kerja kurang tepat dalam mengerjakan			V	
3	Keterlambatan waktu dan Langkah kerja yang dilakukan kurang tepat		V		
4	Keterlambatan waktu pengumpulan dan Langkah kerja tidak seusai	V			
	Total Skor*	Skor x 25			

ACARA 32. Membuat CRUD (Query Eloquent) (4)

Pokok Bahasan : Membuat CRUD (Query Eloquent)

Acara Praktikum/Praktik : Minggu 9/4

Tempat : Daring/Luring Politeknik Negeri Jember

Alokasi Waktu : 100 menit

a. Capaian Pembelajaran Mata Kuliah (CPMK)

1. Mahasiswa mampu memahami Create, Read, Update dan Delete pada Laravel menggunakan Query Eloquent
2. Mahasiswa mampu membuat Create, Read, Update dan Delete pada Laravel menggunakan Query Eloquent

b. Penilaian Bertahap BNSP (*Skill Passport*)

Nama Skema Sertifikasi: Pengembang Web/Web Developer (SKM-496-028)

No	Kode Unit	Nama Unit Kompetensi	Elemen Kompetensi
1	J.620100.036.01	Melaksanakan pengujian kode program secara statis	<ul style="list-style-type: none">• Mempersiapkan dokumentasi peralatan dan lingkungan pengujian statis• Membuat program driver test/stub• Melaksanakan pengujian• Mengukur aplikasi ketika stress test dijalankan• Menganalisis data pengujian• Melaporkan dokumentasi pengujian
2	J.620100.044.01	Menerapkan Alert Notification Jika Aplikasi Bermasalah	<ul style="list-style-type: none">• Analisis permasalahan yang memerlukan tindakan cepat• Menentukan mekanisme notification sewaktu timbul suatu permasalahan• Menjalankan mekanisme graceful failure jika terjadi permasalahan
3	J.620100.045.01	Melakukan Pemantauan Resource yang Digunakan Aplikasi	<ul style="list-style-type: none">• Analisis resources yang kritis yang diperlukan aplikasi• Membuat modul visualisasi penggunaan resources

4	J.620100.047.01	Melakukan Pembaharuan Perangkat Lunak	<ul style="list-style-type: none"> • Menganalisis differensiasi perangkat lunak yang terbaru dengan yang existing • Membuat program perangkat lunak penambahan differensiasi
---	-----------------	---------------------------------------	--

c. Indikator Penilaian

1. Kemampuan mahasiswa dalam mengimplementasikan pembuatan Create, Read, Update dan Delete pada Laravel menggunakan Query Eloquent

d. Dasar Teori

e. Alat dan Bahan

1. Client Server: Xampp
2. Text Editor: Visual Code
3. Management Storage: Git dan Github
4. Tools Dependency Manager Multiplatform: Composer
5. Kertas A4 / Folio
6. Pulpen

f. Prosedur Kerja

1. Menambahkan sintak pada **PendidikanController.php** menjadi seperti berikut ini.

```

39     public function destroy(Pendidikan $pendidikan)
40     {
41         $pendidikan->delete();
42         return redirect()->route('pendidikan.index')
43         | | | | ->with('success', 'Data Pendidikan berhasil dihapus');
44     }
45 }
46

```

2. Menambahkan beberapa sintak di **index.blade.php** pada folder Pendidikan. Tambahkan sintak berikut ini

```

67
68     <form action="{{ route('pendidikan.destroy', $item->id) }}" method="POST">
69         <a class="btn btn-warning" href="{{ route('pendidikan.edit', $item->id) }}><i class="fa fa-edit"></i></a>
70         @csrf
71         @method('DELETE')
72         <button type="submit" class="btn btn-danger" onclick="return confirm('Apakah Anda yakin ingin menghapus data ini?')">
73             <i class="fa fa-trash-o"></i></button>
74     </form>

```

3. Kemudian buka web browser dan ketikkan **localhost:8000/pendidikan** setelah mengaktifkan cmd **php artisan serve** sehingga akan muncul tampilan seperti berikut:

The image consists of three vertically stacked screenshots of a Laravel web application interface, likely using the Materialize CSS framework. The application is titled "BKPM - WORKSHOP SISTEM INFORMASI WEB FRAMEWORK".

Screenshot 1: Shows the "Riwayat Hidup" (Education History) page. The sidebar on the left has "Riwayat Hidup" selected. The main content shows a table of education records:

Nama	Tingkatan	Tahun Masuk	Tahun Selesai	Action
East Blue School	SMA/SMK	2017	2019	[Edit] [Delete]

Screenshot 2: Shows a confirmation dialog box asking "Apakah Anda yakin ingin menghapus data ini?" (Are you sure you want to delete this data?).

Screenshot 3: Shows the same table after a record has been deleted. A green success message at the top states "Data Pendidikan berhasil dihapus" (Education data has been successfully deleted).

g. Hasil dan Pembahasan

Format Laporan

Kertas A4

Format *.pdf

Struktur Laporan: Cover, Pendahuluan, Hasil Praktik, Kesimpulan dan Daftar Pustaka

Berikan Identitas Diri: NIM, Nama, Golongan, Tugas Minggu Ke-X

Penamaan File: ACARA-X_GOL_NIM_NAMA.pdf

**Contoh: **ACARA-1_A_E1234356_KHAFID.pdf

Kumpulkan pada <http://jti.polije.ac.id/elearning/>

h. Kesimpulan

1. Mahasiswa memahami dan mengimplementasikan Membuat CRUD (Query Eloquent)

i. Rubrik Penilaian

No	Indikator Penilaian	Nilai			
		1	2	3	4
1	Ketepatan waktu dan ketepatan Langkah kerja dalam mengerjakan				V
2	Ketepatan waktu dan Langkah kerja kurang tepat dalam mengerjakan			V	
3	Keterlambatan waktu dan Langkah kerja yang dilakukan kurang tepat		V		
4	Keterlambatan waktu pengumpulan dan Langkah kerja tidak seusai	V			
	Total Skor*	Skor x 25			

ACARA 33. Session

Pokok Bahasan : Session
Acara Praktikum/Praktik : Minggu 10/1
Tempat : Daring/Luring Politeknik Negeri Jember
Alokasi Waktu : 100 menit

a. Capaian Pembelajaran Mata Kuliah (CPMK)

1. Mahasiswa mampu memahami dan mengimplementasikan Session
2. Mahasiswa mampu memahami dan mengimplementasikan Request
3. Mahasiswa mampu memahami dan mengimplementasikan Validation Form
4. Mahasiswa mampu memahami dan mengimplementasikan Error Handling

b. Penilaian Bertahap BNSP (*Skill Passport*)

Nama Skema Sertifikasi: Pengembang Web/Web Developer (SKM-496-028)

No	Kode Unit	Nama Unit Kompetensi	Elemen Kompetensi
1	J.620100.036.01	Melaksanakan pengujian kode program secara statis	<ul style="list-style-type: none">• Mempersiapkan dokumentasi peralatan dan lingkungan pengujian statis• Membuat program driver test/stub• Melaksanakan pengujian• Mengukur aplikasi ketika stress test dijalankan• Menganalisis data pengujian• Melaporkan dokumentasi pengujian
2	J.620100.044.01	Menerapkan Alert Notification Jika Aplikasi Bermasalah	<ul style="list-style-type: none">• Analisis permasalahan yang memerlukan tindakan cepat• Menentukan mekanisme notification sewaktu timbul suatu permasalahan• Menjalankan mekanisme graceful failure jika terjadi permasalahan
3	J.620100.045.01	Melakukan Pemantauan Resource yang Digunakan Aplikasi	<ul style="list-style-type: none">• Analisis resources yang kritis yang diperlukan aplikasi• Membuat modul visualisasi penggunaan resources

4	J.620100.047.01	Melakukan Pembaharuan Perangkat Lunak	<ul style="list-style-type: none">• Menganalisis diferensiasi perangkat lunak yang terbaru dengan yang existing• Membuat program perangkat lunak penambahan diferensiasi
---	-----------------	---------------------------------------	---

c. Indikator Penilaian

1. Mahasiswa memahami dan mengimplementasikan Session
2. Mahasiswa memahami dan mengimplementasikan Request
3. Mahasiswa memahami dan mengimplementasikan Validation Form
4. Mahasiswa memahami dan mengimplementasikan Error Handling

d. Dasar Teori

Seperti yang sudah kita ketahui tentang session pada saat kita belajar PHP dasar dulu. Session merupakan data yang bersifat sementara. data session di simpan pada server. salah satu contoh penggunaan session yang pasti sudah umum adalah untuk membuat proses login dan pengecekan login.

Kali ini kita akan belajar cara membuat session dengan laravel, menghapus session, dan menampilkan isi session.

1. Membuat Session

- Membuat controller **SessionController**

```
$ php artisan make:controller SessionController  
Controller created successfully.
```

```
<?php

namespace App\Http\Controllers;

use Illuminate\Http\Request;

class SessionController extends Controller
{
    //
}
```

- Buat route create session

```
Route::get('/session/create', 'SessionController@create');
```

- Buat function create dengan kode session berikut.

```
// membuat session
public function create(Request $request) {
    $request->session()->put('nama', 'Politeknik Negeri Jember');
    echo "Data telah ditambahkan ke session.";
}
```

2. Jalankan **http://127.0.0.1:8000/session/create** dan keluar pesan session ditambahkan.

Data telah ditambahkan ke session.

Menampilkan Session

1. Buat route show session

```
Route::get('/session/show', 'SessionController@show');
```

- Buat function **show** dengan kode session berikut.

```
// menampilkan isi session
public function show(Request $request) {
    if($request->session()->has('nama')){
        echo $request->session()->get('nama');
    } else {
        echo 'Tidak ada data dalam session.';
    }
}
```

- Jalankan **http://127.0.0.1:8000/session/show** dan nama session yang ditambahkan sebelumnya.

Politeknik Negeri Jember

2. Menghapus Session

- Buat route delete session

```
Route::get('/session/delete', 'SessionController@delete');
```

- Buat function **delete** dengan kode delete session berikut.

```
// menghapus session  
public function delete(Request $request) {  
    $request->session()->forget('nama');  
    echo "Data telah dihapus dari session.";  
}
```

- Jalankan **http://127.0.0.1:8000/session/delete** dan nama session yang dihapuskan dari session nama.

Data telah dihapus dari session.

e. Alat dan Bahan

1. Client Server: Xampp
2. Text Editor: Visual Code/Sublime Text 3
3. Management Storage: Git dan Github
4. Tools Dependency Manager Multiplatform: Composer
5. Kertas A4 / Folio Bergaris
6. Pulpen

f. Prosedur Kerja

g. Hasil dan Pembahasan

Format Laporan

Kertas A4

Format *.pdf

Struktur Laporan: Cover, Pendahuluan, Hasil Praktik, Kesimpulan dan Daftar Pustaka

Berikan Identitas Diri: NIM, Nama, Golongan, Tugas Minggu Ke-X

Penamaan File: ACARA-X_GOL_NIM_NAMA.pdf

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Kumpulkan pada <http://iti.polije.ac.id/elearning/>

h. Kesimpulan

1. Mahasiswa memahami dan mengimplementasikan Session
2. Mahasiswa memahami dan mengimplementasikan Request

3. Mahasiswa memahami dan mengimplementasikan Validation Form
4. Mahasiswa memahami dan mengimplementasikan Error Handling

i. Rubrik Penilaian

No	Indikator Penilaian	Nilai			
		1	2	3	4
1	Ketepatan waktu dan ketepatan Langkah kerja dalam mengerjakan				V
2	Ketepatan waktu dan Langkah kerja kurang tepat dalam mengerjakan			V	
3	Keterlambatan waktu dan Langkah kerja yang dilakukan kurang tepat		V		
4	Keterlambatan waktu pengumpulan dan Langkah kerja tidak selesai	V			
		Total Skor*		Skor x 25	

BKPM - WORKSHOP SISTEM INFORMASI WEB FRAMEWORK

No	Indikator Penilaian	Nilai			
		1	2	3	4
1	Ketepatan waktu dan ketepatan Langkah kerja dalam mengerjakan				V
2	Ketepatan waktu dan Langkah kerja kurang tepat dalam mengerjakan			V	
3	Keterlambatan waktu dan Langkah kerja yang dilakukan kurang tepat		V		
4	Keterlambatan waktu pengumpulan dan Langkah kerja tidak selesai	V			
	Total Skor*	Skor x 25			

ACARA 34. Request

Pokok Bahasan	: Request
Acara Praktikum/Praktik	: Minggu 10/2
Tempat	: Daring/Luring Politeknik Negeri Jember
Alokasi Waktu	: 100 menit

a. Capaian Pembelajaran Mata Kuliah (CPMK)

1. Mahasiswa mampu memahami dan mengimplementasikan Session
2. Mahasiswa mampu memahami dan mengimplementasikan Request
3. Mahasiswa mampu memahami dan mengimplementasikan Validation Form
4. Mahasiswa mampu memahami dan mengimplementasikan Error Handling

b. Penilaian Bertahap BNSP (*Skill Passport*)

Nama Skema Sertifikasi: Pengembang Web/Web Developer (SKM-496-028)

No	Kode Unit	Nama Unit Kompetensi	Elemen Kompetensi
1	J.620100.036.01	Melaksanakan pengujian kode program secara statis	<ul style="list-style-type: none">• Mempersiapkan dokumentasi peralatan dan lingkungan pengujian statis• Membuat program driver test/stub• Melaksanakan pengujian• Mengukur aplikasi ketika stress test dijalankan• Menganalisis data pengujian• Melaporkan dokumentasi pengujian
2	J.620100.044.01	Menerapkan Alert Notification Jika Aplikasi Bermasalah	<ul style="list-style-type: none">• Analisis permasalahan yang memerlukan tindakan cepat• Menentukan mekanisme notification sewaktu timbul suatu permasalahan• Menjalankan mekanisme graceful failure jika terjadi permasalahan
3	J.620100.045.01	Melakukan Pemantauan Resource yang Digunakan Aplikasi	<ul style="list-style-type: none">• Analisis resources yang kritis yang diperlukan aplikasi• Membuat modul visualisasi penggunaan resources

4	J.620100.047.01	Melakukan Pembaharuan Perangkat Lunak	<ul style="list-style-type: none">• Menganalisis differensiasi perangkat lunak yang terbaru dengan yang existing• Membuat program perangkat lunak penambahan differensiasi
---	-----------------	---------------------------------------	---

c. Indikator Penilaian

1. Mahasiswa memahami dan mengimplementasikan Session
2. Mahasiswa memahami dan mengimplementasikan Request
3. Mahasiswa memahami dan mengimplementasikan Validation Form
4. Mahasiswa memahami dan mengimplementasikan Error Handling

d. Dasar Teori

Jika sebelumnya saat kita belajar PHP, ada yang namanya **GET** dan **POST** untuk menerima atau menangkap data. Maka di Laravel juga sama. Ada istilah yang di sebut dengan request pada laravel. maksud nya juga sama, ada proses menerima atau menangkap data dari inputan POST, dan ada juga jenis proses penengkapan dari URL.

1. Menangkap Data Melalui URI**• Parameter Variable**

Dan buat route berikut pada route laravel (web.php).

```
Route::get('/pegawai/{nama}', 'PegawaiController@index');
```

Jadi di sini kita membuat route baru, yaitu pada parameter pertama kita buat dengan "pegawai" dan parameter kedua kita menangkap datanya dengan menuliskan syntax "{nama}" untuk penamaan nya bebas teman-teman bisa menyesuaikan sendiri.

Jadi pada saat kita mengakses 127.0.0.1:8000/pegawai/blablabla, maka akan dijalankan method index pada controller PegawaiController. Jadi untuk menangkap data dari route tadi ({nama}), tinggal kita tangkap di method dengan menuliskan variabel nama dalam parameter method nya (index).

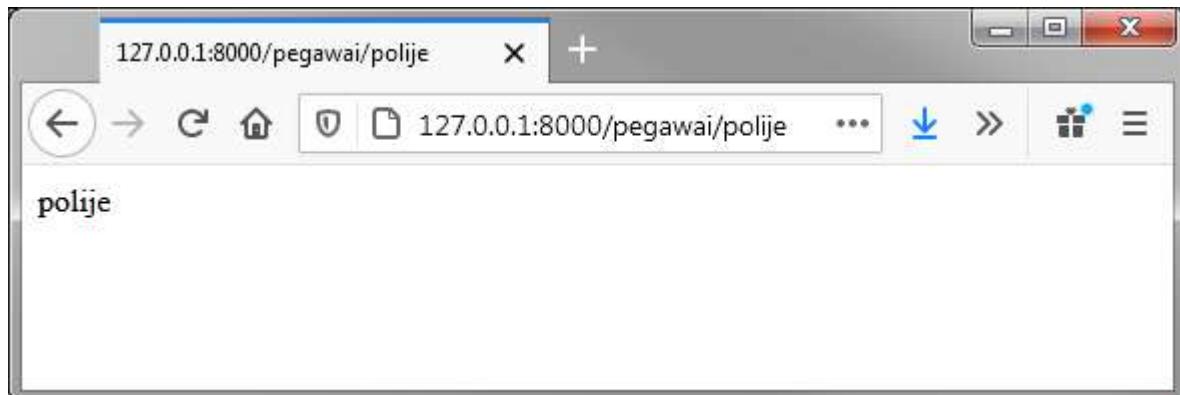
```
<?php

namespace App\Http\Controllers;

use Illuminate\Http\Request;

class PegawaiController extends Controller
{
    public function index($nama){
        return $nama;
    }
}
```

Jalankan php artisan serve dan buka url 127.0.0.1:8000/pegawai/polije di browser.



- **Segment Variable**

Ubah function index dengan kode berikut:

```
public function index(Request $request){
    return $request->segment(2);
}
```

Kemudian buka url 127.0.0.1:8000/pegawai/polije maka akan menampilkan "polije". variable dari segment ke 2, sedangkan segment ke 1 akan menampilkan "pegawai".

2. Menangkap Data Melalui Inputan

Setelah kita belajar cara menangkap data dari url di sub judul sebelumnya, sekarang kita akan belajar menangkap data yang dikirimkan dari form input menggunakan form method post dan get. Buatlah route untuk Formulir.

```
Route::get('/formulir', 'PegawaiController@formulir');
Route::post('/formulir/proses', 'PegawaiController@proses');
```

Kita menggunakan method Route::post pada route "formulir/proses" ini kita akan menangkap data post dari form. Kemudian tambahkan function formulir dan proses pada controller PegawaiController.

```
public function formulir(){
    return view('formulir');
}
public function proses(Request $request){
    $nama = $request->input('nama');
    $alamat = $request->input('alamat');

    return "Nama : ".$nama.", Alamat : ".$alamat;
}
```

- Buatlah View dengan dua input dan satu button, berikut contoh kode html View.

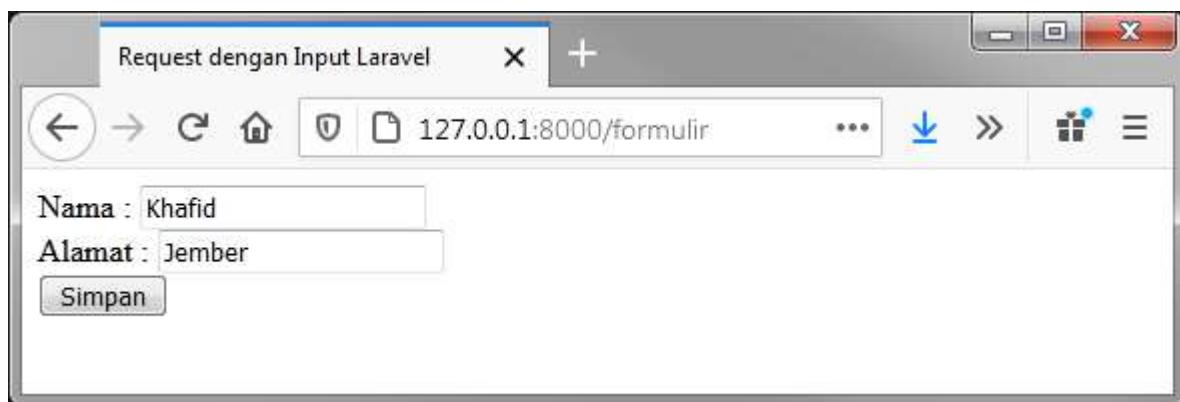
```
<!DOCTYPE html>
<html>
    <head>
        <title>Request dengan Input Laravel</title>
    </head>
    <body>

        <form action="/formulir/proses" method="post">
            @csrf

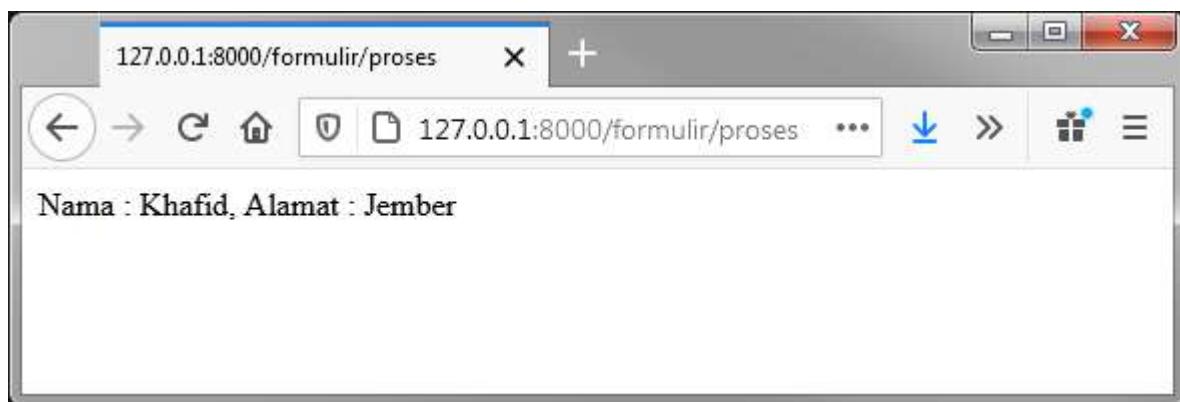
            Nama : <input type="text" name="nama"><br/>
            Alamat : <input type="text" name="alamat"><br/>
            <input type="submit" value="Simpan">

        </form>
    </body>
</html>
```

- Jalankan 127.0.0.1:8000/formulir di browser dan masukkan isian pada input



- Setelah menekan tombol Simpan maka akan tampil hasil dari Input



e. Alat dan Bahan

1. Client Server: Xampp
2. Text Editor: Visual Code/Sublime Text 3
3. Management Storage: Git dan Github
4. Tools Dependency Manager Multiplatform: Composer
5. Kertas A4 / Folio Bergaris
6. Pulpen

f. Prosedur Kerja

g. Hasil dan Pembahasan

Format Laporan

Kertas A4

Format *.pdf

Struktur Laporan: Cover, Pendahuluan, Hasil Praktik, Kesimpulan dan Daftar Pustaka

Berikan Identitas Diri: NIM, Nama, Golongan, Tugas Minggu Ke-X

Penamaan File: ACARA-X_GOL_NIM_NAMA.pdf

**Contoh: **ACARA-1_A_E1234356_KHAFID.pdf

Kumpulkan pada <http://jti.polje.ac.id/elearning/>

h. Kesimpulan

1. Mahasiswa memahami dan mengimplementasikan Session
2. Mahasiswa memahami dan mengimplementasikan Request
3. Mahasiswa memahami dan mengimplementasikan Validation Form
4. Mahasiswa memahami dan mengimplementasikan Error Handling

i. Rubrik Penilaian

No	Indikator Penilaian	Nilai			
		1	2	3	4
1	Ketepatan waktu dan ketepatan Langkah kerja dalam mengerjakan				V
2	Ketepatan waktu dan Langkah kerja kurang tepat dalam mengerjakan			V	
3	Keterlambatan waktu dan Langkah kerja yang dilakukan kurang tepat		V		
4	Keterlambatan waktu pengumpulan dan Langkah kerja tidak selesai	V			
	Total Skor*	Skor x 25			

ACARA 35. Validation Form

Pokok Bahasan
Acara Praktikum/Praktik
Tempat
Alokasi Waktu

: Validation Form
: Minggu 10/3
: Daring/Luring Politeknik Negeri Jember
: 100 menit

a. Capaian Pembelajaran Mata Kuliah (CPMK)

1. Mahasiswa mampu memahami dan mengimplementasikan Session
2. Mahasiswa mampu memahami dan mengimplementasikan Request
3. Mahasiswa mampu memahami dan mengimplementasikan Validation Form
4. Mahasiswa mampu memahami dan mengimplementasikan Error Handling

b. Penilaian Bertahap BNSP (*Skill Passport*)

Nama Skema Sertifikasi: Pengembang Web/Web Developer (SKM-496-028)

No	Kode Unit	Nama Unit Kompetensi	Elemen Kompetensi
1	J.620100.036.01	Melaksanakan pengujian kode program secara statis	<ul style="list-style-type: none">• Mempersiapkan dokumentasi peralatan dan lingkungan pengujian statis• Membuat program driver test/stub• Melaksanakan pengujian• Mengukur aplikasi ketika stress test dijalankan• Menganalisis data pengujian• Melaporkan dokumentasi pengujian
2	J.620100.044.01	Menerapkan Alert Notification Jika Aplikasi Bermasalah	<ul style="list-style-type: none">• Analisis permasalahan yang memerlukan tindakan cepat• Menentukan mekanisme notification sewaktu timbul suatu permasalahan• Menjalankan mekanisme graceful failure jika terjadi permasalahan
3	J.620100.045.01	Melakukan Pemantauan Resource yang Digunakan Aplikasi	<ul style="list-style-type: none">• Analisis resources yang kritis yang diperlukan aplikasi• Membuat modul visualisasi penggunaan resources

4	J.620100.047.01	Melakukan Pembaharuan Perangkat Lunak	<ul style="list-style-type: none">• Menganalisis differensiasi perangkat lunak yang terbaru dengan yang existing• Membuat program perangkat lunak penambahan differensiasi
---	-----------------	---------------------------------------	---

c. Indikator Penilaian

1. Mahasiswa memahami dan mengimplementasikan Session
2. Mahasiswa memahami dan mengimplementasikan Request
3. Mahasiswa memahami dan mengimplementasikan Validation Form
4. Mahasiswa memahami dan mengimplementasikan Error Handling

d. Dasar Teori

Misalnya kita akan membuat pengaturan bahwa form tertentu wajib diisi atau misalnya karakter yang dimasukkan harus lebih dari 10 karakter, maksimal karakter yang bisa di input misalnya 20 dan lain-lain. Ada banyak sekali validasi yang bisa kita buat dengan laravel. karena laravel telah menyediakan berbagai jenis validasi yang bisa kita gunakan. Kita akan memfungsikan route **/formulir** dan **/formulir/proses** yang sebelumnya dengan menambahkan form validation pada prosesnya. Buka kembali controller pada PegawaiController dengan function **formulir** dan **proses**.

```
Route::get('/formulir', 'PegawaiController@formulir');
Route::post('/formulir/proses', 'PegawaiController@proses');
```

Kita perbaharui tampilan view dengan bootstrap supaya bisa menampilkan pesan error yang bagus ketika syarat validasi tidak terpenuhi.

```
<!DOCTYPE html>
<html>
    <head>
        <title>Request dengan Input Laravel</title>
        <link href="https://stackpath.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css" rel="stylesheet">
    </head>
    <body>
        <div class="container">
            <div class="row">
                <div class="col-lg-12">
                    <h1 class="text-center">Form Validation dengan Laravel</h1>
                    <form action="/formulir/proses" method="post">
                        @csrf
                        <div class="form-group">
                            <label for="nama" class="control-label">Nama Lengkap</label>
                            <input type="text" id="nama" name="nama" class="form-control" {{ $errors->has('nama') ? ' is-invalid' : '' }}>
                            <placeholder="Nama Lengkap" value="{{ old('nama') }}>
                            @if ($errors->has('nama'))
                                <span class="text-danger small">
                                    <p>{{ $errors->first('nama') }}</p>
                                </span>
                            @endif
                        </div>
                        <div class="form-group">
                            <label for="alamat" class="control-label">Alamat</label>
                            <textarea rows="3" id="alamat" name="alamat" class="form-control" {{ $errors->has('alamat') ? ' is-invalid' : '' }}>
                            <placeholder="Alamat" value="{{ old('alamat') }}></textarea>
                            @if ($errors->has('alamat'))
                                <span class="text-danger small">
                                    <p>{{ $errors->first('alamat') }}</p>
                                </span>
                            @endif
                        </div>
                        <input type="submit" value="Simpan" class="btn btn-primary">
                    </form>
                </div>
            </div>
        </div>
    </body>
</html>
```

Buka 127.0.0.1:8000/formulir di browser kemudian isi form dengan isian yang tidak sesuai dengan syarat validasi misalkan nama diisi 3 karakter dan alamat dikosongkan, maka akan memberikan pesan validasi kesalahan seperti pada gambar berikut.

Form Validation dengan Laravel

Nama Lengkap

The nama must be at least 5 characters.

Alamat

The alamat field is required.

Simpan

Mengubah Pesan Error Validasi Laravel

Kita juga bisa custom pesan error yang ditampilkan. Caranya buat variabel dan isi array seperti berikut di dalamnya dan nama variabel nya isikan ke parameter ke tiga dalam fungsi **validate()**. seperti contoh berikut.

```
public function proses(Request $request){
    $messages = [
        'required' => 'Input :attribute wajib diisi!',
        'min' => 'Input :attribute harus diisi minimal :min karakter!',
        'max' => 'Input :attribute harus diisi maksimal :max karakter!',
    ];

    $this->validate($request,[
        'nama' => 'required|min:5|max:20',
        'alamat' => 'required|alpha'
    ], $messages);

    $nama = $request->input('nama');
    $alamat = $request->input('alamat');

    return "Nama : ".$nama.", Alamat : ".$alamat;
}
```

Maka ketika isian yang tidak sesuai dengan syarat validasi, akan menampilkan pesan sesuai message yang ditentukan.

Form Validation dengan Laravel

Nama Lengkap

Input nama harus diisi minimal 5 karakter!

Alamat

Input alamat wajib diisi!

Beberapa Opsi Validasi Form Pada Laravel

Berikut ini beberapa validasi yang paling sering dibutuhkan. Selengkapnya bisa membaca dokumentasi dari Laravel

required	membuat form wajib isi
min:10	membuat minimal karakter yang diinput
max:10	membuat maksimal karakter yang boleh diinput
alpha	hanya boleh menginput huruf
numeric	hanya boleh menginput angka
alpha_num	hanya boleh menginput angka dan huruf (!@#\$%%^&* dan lain-lain tidak diperbolehkan)
bail	berhenti menjalankan validasi selanjutnya jika validasi sebelumnya gagal (error)
email	hanya boleh menginput email

e. Alat dan Bahau

1. Client Server: Xampp
2. Text Editor: Visual Code/Sublime Text 3
3. Management Storage: Git dan Github
4. Tools Dependency Manager Multiplatform: Composer
5. Kertas A4 / Folio Bergaris
6. Pulpen

f. Prosedur Kerja

g. Hasil dan Pembahasan

Format Laporan

Kertas A4

Format *.pdf

Struktur Laporan: Cover, Pendahuluan, Hasil Praktik, Kesimpulan dan Daftar Pustaka

Berikan Identitas Diri: NIM, Nama, Golongan, Tugas Minggu Ke-X

Penamaan File: ACARA-X_GOL_NIM_NAMA.pdf

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h. Kesimpulan

1. Mahasiswa memahami dan mengimplementasikan Session
2. Mahasiswa memahami dan mengimplementasikan Request
3. Mahasiswa memahami dan mengimplementasikan Validation Form
4. Mahasiswa memahami dan mengimplementasikan Error Handling

i. Rubrik Penilaian

No	Indikator Penilaian	Nilai			
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2	Ketepatan waktu dan Langkah kerja kurang tepat dalam mengerjakan			V	
3	Keterlambatan waktu dan Langkah kerja yang dilakukan kurang tepat		V		
4	Keterlambatan waktu pengumpulan dan Langkah kerja tidak seusai	V			
	Total Skor*	Skor x 25			

ACARA 36. Error Handling

Pokok Bahasan : Error Handling
Acara Praktikum/Praktik : Minggu 10/4
Tempat : Daring/Luring Politeknik Negeri Jember
Alokasi Waktu : 100 menit

a. Capaian Pembelajaran Mata Kuliah (CPMK)

1. Mahasiswa mampu memahami dan mengimplementasikan Session
2. Mahasiswa mampu memahami dan mengimplementasikan Request
3. Mahasiswa mampu memahami dan mengimplementasikan Validation Form
4. Mahasiswa mampu memahami dan mengimplementasikan Error Handling

b. Penilaian Bertahap BNSP (*Skill Passport*)

Nama Skema Sertifikasi: Pengembang Web/Web Developer (SKM-496-028)

No	Kode Unit	Nama Unit Kompetensi	Elemen Kompetensi
1	J.620100.036.01	Melaksanakan pengujian kode program secara statis	<ul style="list-style-type: none">• Mempersiapkan dokumentasi peralatan dan lingkungan pengujian statis• Membuat program driver test/stub• Melaksanakan pengujian• Mengukur aplikasi ketika stress test dijalankan• Menganalisis data pengujian• Melaporkan dokumentasi pengujian
2	J.620100.044.01	Menerapkan Alert Notification Jika Aplikasi Bermasalah	<ul style="list-style-type: none">• Analisis permasalahan yang memerlukan tindakan cepat• Menentukan mekanisme notification sewaktu timbul suatu permasalahan• Menjalankan mekanisme graceful failure jika terjadi permasalahan
3	J.620100.045.01	Melakukan Pemantauan Resource yang Digunakan Aplikasi	<ul style="list-style-type: none">• Analisis resources yang kritis yang diperlukan aplikasi• Membuat modul visualisasi penggunaan resources

4	J.620100.047.01	Melakukan Pembaharuan Perangkat Lunak	<ul style="list-style-type: none">• Menganalisis differensiasi perangkat lunak yang terbaru dengan yang existing• Membuat program perangkat lunak penambahan differensiasi
---	-----------------	---------------------------------------	---

c. Indikator Penilaian

1. Mahasiswa memahami dan mengimplementasikan Session
2. Mahasiswa memahami dan mengimplementasikan Request
3. Mahasiswa memahami dan mengimplementasikan Validation Form
4. Mahasiswa memahami dan mengimplementasikan Error Handling

d. Dasar Teori

Laravel sudah menyediakan fitur atau konfigurasi yang bisa kita lakukan untuk menangani segala jenis error. dan penanganan error pada laravel ini akan kita bahas pengertian dan cara-caranya pada tutorial ini.

Pada saat kita sedang mengerjakan sebuah project aplikasi, jika ada kesalahan code atau error yang terjadi, tentu kita ingin error yang terjadi tersebut terlihat. Sehingga dengan melihat pesan error tersebut kita bisa mengetahui pada bagian mana saja yang terdapat error. Sehingga kita bisa dengan mudah menemukan bug tersebut dan memperbaikinya. Tapi, pada saat proyek aplikasi kita sudah dideploy dan sudah online, alangkah lebih baiknya error tersebut tidak terlihat pada bagian front-end. karena pasti kita tidak ingin ada error yang terlihat ke pengguna pada saat pengguna menggunakan aplikasi yang kita buat.

Error dan Logging Laravel

Nah, laravel sudah menyediakan konfigurasi ini. konfigurasi untuk menyembunyikan dan menampilkan error. konfigurasi error pada laravel ada pada file .env.

Cari bagian APP_DEBUG, dan atur dengan **true** atau **false**. secara default pengaturannya adalah true. sehingga error yang terjadi bisa terlihat.

```
APP_DEBUG=true
```

Jika project laravel kita sudah selesai dan sudah siap di online-kan, ada baiknya untuk mengubah pengaturan APP_DEBUG menjadi **false**. agar error tidak lagi terlihat ke pengguna.

BKPM - WORKSHOP SISTEM INFORMASI WEB FRAMEWORK

Bukan berarti dengan menyembunyikan error laravel ini kita tidak bisa lagi melihat error pada aplikasi kita.

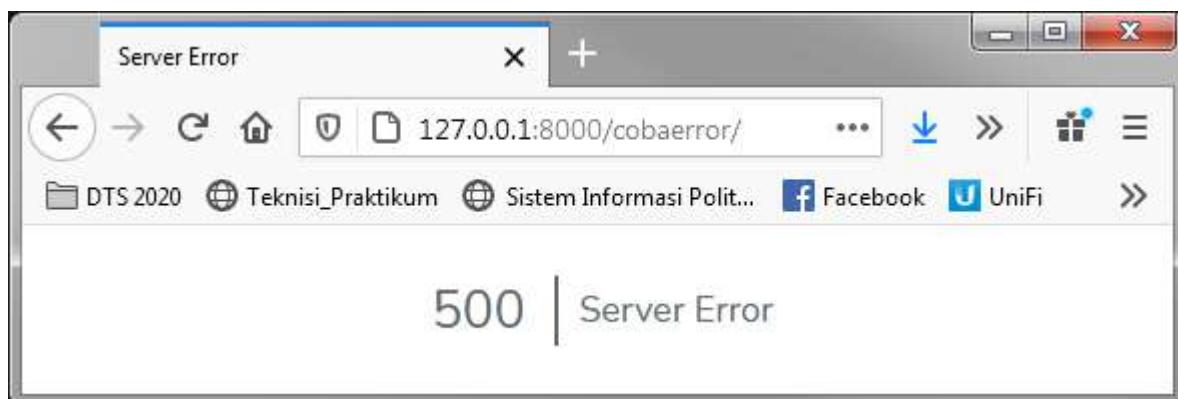
Bisa, kita bisa melihatnya pada file log yang dibuat otomatis oleh laravel. letaknya ada pada folder **storage/logs**.

Laravel akan membuat file-file log dan mengisinya dengan error-error atau proses yang terjadi. dan dipisahkan berdasarkan tanggal. sehingga lebih mudah kita analisa.

Kita buat contohnya ya, sekarang ubah pengaturan APP_DEBUG menjadi **false**. sehingga error tidak lagi terlihat. Selanjutnya buat route untuk percobaan.

```
Route::get('/cobaerror', 'CobaController@index');
```

route yang kita buat ini kita perintahkan untuk mengakses method index() dalam controller CobaController.php. tapi controllernya **JANGAN** dibuat. karena pura-puranya kita lupa membuat controller tersebut sehingga error. sekarang jalankan project . 127.0.0.1:8000/cobaerror di browser.



lihat hasilnya, yang seharusnya terlihat pesan error. tapi karena kita mengatur false pada APP_DEBUG, jadinya error tidak terlihat. tapi diganti dengan halaman error 500. Untuk melihat error nya pada log, silahkan teman-teman buka folder storage/logs. lihat file log dengan format tanggal hari ini.

A screenshot of a terminal window titled "Terminal" showing the contents of the "laravel.log" file. The log file is a text-based stack trace starting with "[previous exception] [object] (ReflectionException(code: -))". It lists numerous file paths and line numbers from the Laravel framework, including "Illuminate\Routing\Router.php(155)", "Illuminate\Pipeline\Pipeline.php(102)", and "Illuminate\Foundation\Http\Kernel.php(110)". The text is in black font on a white background with some color-coded highlights for certain words like "ReflectionException" and "Router".

Menampilkan Pesan Error Laravel

Untuk menampilkan pesan error pada laravel, kita bisa gunakan method **abort()**. dan isi dengan nomor error yang ingin digunakan. misalnya 404, 403, 500 dan lain-lain.

- **404** = Error karena halaman tidak ditemukan
- **403** = Error karena hak akses (forbidden)
- **500** = Error karena ada kesalahan pada server/code

berikut ini contoh menampilkan pesan error pada laravel. method ini bisa teman-teman terapkan langsung pada route atau controller. buat contoh route seperti berikut.

```
Route::get('/cobaerror/{nama?}', 'CobaController@index');
```

Lalu buat controller dengan kode berikut

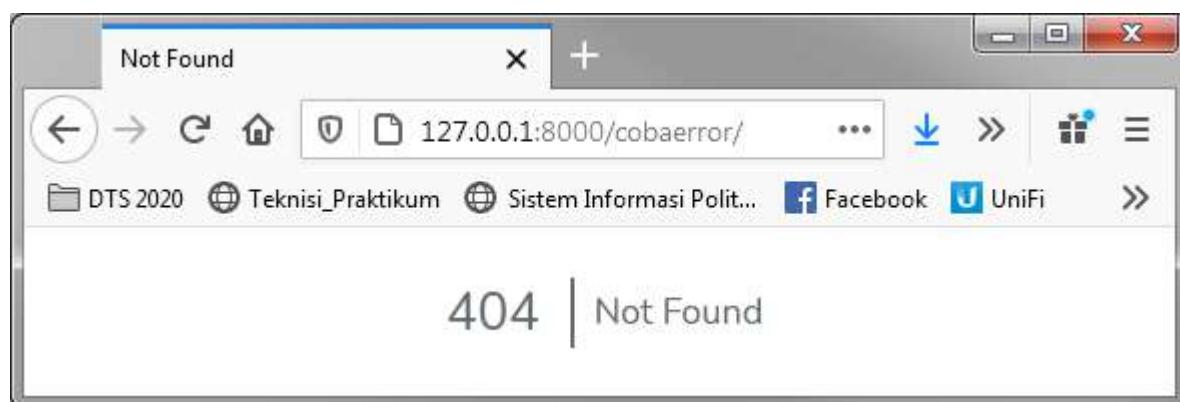
```
<?php

namespace App\Http\Controllers;

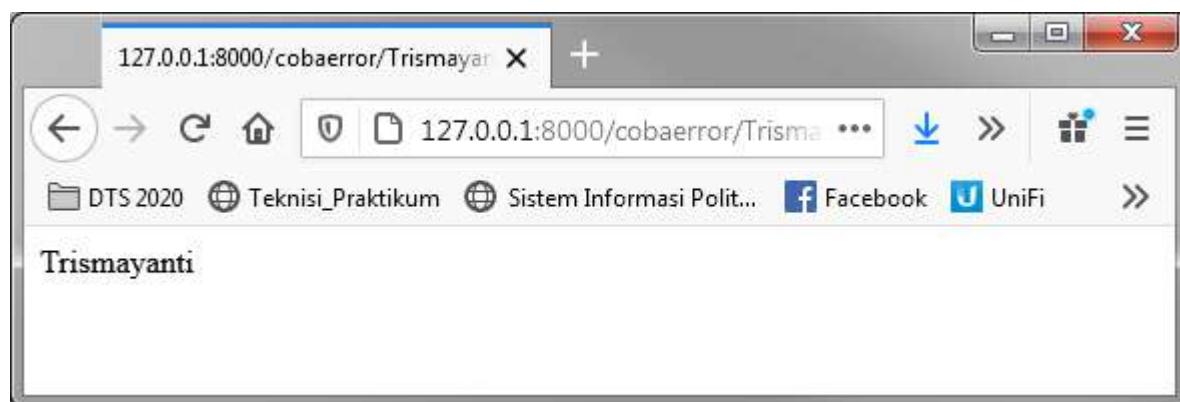
use Illuminate\Http\Request;

class CobaController extends Controller
{
    public function index(Request $request)
    {
        if($request->segment(2) !== null)
        {
            $nama = $request->segment(2);
            echo $nama;
        } else {
            abort(404);
        }
    }
}
```

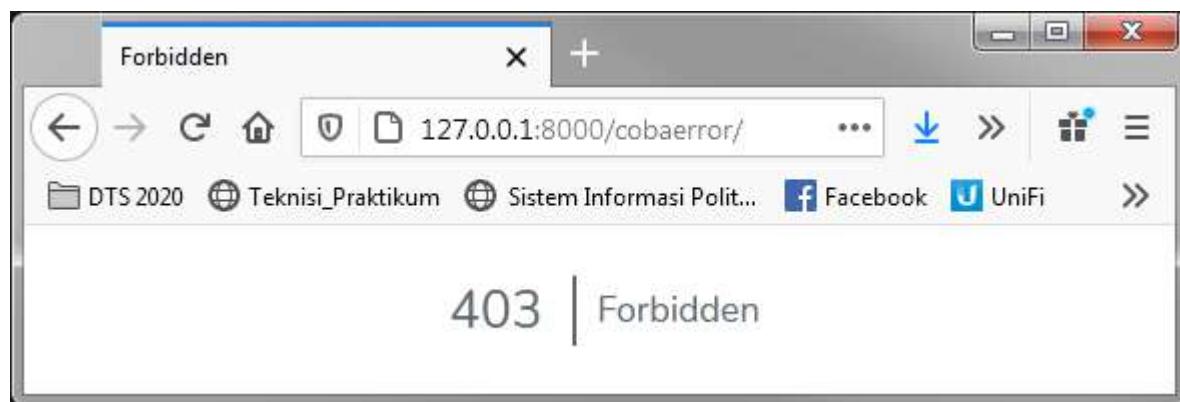
Kemudian buka 127.0.0.1:8000/cobaerror di browser. Jika segment ke 2 kosong maka keluar halaman 404 Not Found.



Dan dilanjutkan dengan memberikan variable pada segment ke 2.



Anda bisa mencoba dengan kode error lainnya selain 404, bisa 403 atau 500 atau kode lainnya.



e. Alat dan Bahan

1. Client Server: Xampp
2. Text Editor: Visual Code/Sublime Text 3
3. Management Storage: Git dan Github
4. Tools Dependency Manager Multiplatform: Composer
5. Kertas A4 / Folio Bergaris

6. Pulpen

f. Prosedur Kerja**g. Hasil dan Pembahasan****Format Laporan**

Kertas A4

Format *.pdf

Struktur Laporan: Cover, Pendahuluan, Hasil Praktik, Kesimpulan dan Daftar Pustaka

Berikan Identitas Diri: NIM, Nama, Golongan, Tugas Minggu Ke-X

Penamaan File: ACARA-X_GOL_NIM_NAMA.pdf

**Contoh: **ACARA-1_A_E1234356_KHAFID.pdf

Kumpulkan pada <http://jti.polje.ac.id/elearning/>**h. Kesimpulan**

1. Mahasiswa memahami dan mengimplementasikan Session
2. Mahasiswa memahami dan mengimplementasikan Request
3. Mahasiswa memahami dan mengimplementasikan Validation Form
4. Mahasiswa memahami dan mengimplementasikan Error Handling

i. Rubrik Penilaian

No	Indikator Penilaian	Nilai			
		1	2	3	4
1	Ketepatan waktu dan ketepatan Langkah kerja dalam mengerjakan				V
2	Ketepatan waktu dan Langkah kerja kurang tepat dalam mengerjakan			V	
3	Keterlambatan waktu dan Langkah kerja yang dilakukan kurang tepat		V		
4	Keterlambatan waktu pengumpulan dan Langkah kerja tidak selesai	V			
		Total Skor*		Skor x 25	

ACARA 37. File Upload

Pokok Bahasan	: File Upload
Acara Praktikum/Praktik	: Minggu 11/1
Tempat	: Daring/Luring Politeknik Negeri Jember
Alokasi Waktu	: 100 menit

a. Capaian Pembelajaran Mata Kuliah (CPMK)

1. Mahasiswa mampu memahami dan mengimplementasikan File Upload
2. Mahasiswa mampu memahami dan mengimplementasikan Manipulasi Gambar
3. Mahasiswa mampu memahami dan mengimplementasikan Multiple Upload dengan Dropzone
4. Mahasiswa mampu memahami dan mengimplementasikan Upload File Dokumen

b. Penilaian Bertahap BNSP (*Skill Passport*)

Nama Skema Sertifikasi: Pengembang Web/Web Developer (SKM-496-028)

No	Kode Unit	Nama Unit Kompetensi	Elemen Kompetensi
1	J.620100.036.01	Melaksanakan pengujian kode program secara statis	<ul style="list-style-type: none">• Mempersiapkan dokumentasi peralatan dan lingkungan pengujian statis• Membuat program driver test/stub• Melaksanakan pengujian• Mengukur aplikasi ketika stress test dijalankan• Menganalisis data pengujian• Melaporkan dokumentasi pengujian
2	J.620100.044.01	Menerapkan Alert Notification Jika Aplikasi Bermasalah	<ul style="list-style-type: none">• Analisis permasalahan yang memerlukan tindakan cepat• Menentukan mekanisme notification sewaktu timbul suatu permasalahan• Menjalankan mekanisme graceful failure jika terjadi permasalahan
3	J.620100.045.01	Melakukan Pemantauan Resource yang Digunakan Aplikasi	<ul style="list-style-type: none">• Analisis resources yang kritis yang diperlukan aplikasi• Membuat modul visualisasi penggunaan resources

4	J.620100.047.01	Melakukan Pembaharuan Perangkat Lunak	<ul style="list-style-type: none">• Menganalisis differensiasi perangkat lunak yang terbaru dengan yang existing• Membuat program perangkat lunak penambahan differensiasi
---	-----------------	---------------------------------------	---

c. Indikator Penilaian

1. Mahasiswa memahami dan mengimplementasikan File Upload
2. Mahasiswa memahami dan mengimplementasikan Manipulasi Gambar
3. Mahasiswa memahami dan mengimplementasikan Multiple Upload dengan Dropzone
4. Mahasiswa memahami dan mengimplementasikan Upload File Dokumen

d. Dasar Teori

Pembahasan kali ini kita akan belajar membuat upload file dengan laravel. baik itu membuat upload file gambar, file excel (.csv, .xls, xlsx), file .txt, file word, file zip dan file lainnya. Namun kali ini, kita akan berfokus pada file gambar saja dan nama file akan disimpan di database.

1. Langkah pertama kita tentukan terlebih dahulu **route** yang akan dibuat untuk menampilkan form upload dan proses upload.

```
Route::get('/upload', 'UploadController@upload')->name('upload');
Route::post('/upload/proses', 'UploadController@proses_upload')
    ->name('upload.proses');
```

2. Buatlah controller **UploadController** dengan artisan

```
$ php artisan make:controller UploadController
Controller created successfully.
```

```
<?php  
  
namespace App\Http\Controllers;  
  
use Illuminate\Http\Request;  
  
class UploadController extends Controller  
{  
    //  
}
```

3. Buatlah view untuk menampilkan form upload dengan nama **upload.blade.php**, kita tambahkan bootstrap agar tampilan lebih menarik.

```
<html>
<head>
    <title>Upload File Dengan Laravel</title>
    <link rel="stylesheet" href=
"https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css">
</head>
<body>
    <div class="row">
        <div class="container">
            <h2 class="text-center my-5">Upload File Dengan Laravel</h2>
            <div class="col-lg-8 mx-auto my-5">
                {{-- Peringatan Jika Error --}}
                @if(count($errors) > 0)
                    <div class="alert alert-danger">
                        @foreach ($errors->all() as $error)
                            {{ $error }} <br/>
                        @endforeach
                    </div>
                @endif
                <form action="{{ route('upload.proses') }}" method="POST"
enctype="multipart/form-data">
                    {{ csrf_field() }}

                    <div class="form-group">
                        <b>File Gambar</b><br/>
                        <input type="file" name="file">
                    </div>
                    <div class="form-group">
                        <b>Keterangan</b>
                        <textarea class="form-control" name="keterangan">

                        </textarea>
                    </div>
                    <input type="submit" value="Upload" class="btn btn-primary">
                </form>
            </div>
        </div>
    </body>
</html>
```

4. Kembali controller masukkan perintah file upload gambar pada fungtion **upload** dan **proses upload**.

```
public function upload(){
    return view('upload');
}
public function proses_upload(Request $request){
    $this->validate($request, [
        'file' => 'required',
        'keterangan' => 'required',
    ]);
    // menyimpan data file yang diupload ke variabel $file
    $file = $request->file('file');
    // nama file
    echo 'File Name: '.$file->getClientOriginalName(). '<br>';
    // ekstensi file
    echo 'File Extension: '.$file->getClientOriginalExtension(). '<br>';
    // real path
    echo 'File Real Path: '.$file->getRealPath(). '<br>';
    // ukuran file
    echo 'File Size: '.$file->getSize(). '<br>';
    // tipe mime
    echo 'File Mime Type: '.$file->getMimeType();
    // isi dengan nama folder tempat kemana file diupload
    $tujuan_upload = 'data_file';
    // upload file
    $file->move($tujuan_upload, $file->getClientOriginalName());
}
```

5. Perhatikan pada form upload yang kita buat di atas, form ini akan diproses pada route "/upload/proses" melalui route name **upload.prose** seperti yang kita buat pada routes sebelumnya. kemudian kita buat dengan method POST, dan jangan lupa "enctype" nya karena enctype wajib di tuliskan jika kita ingin membuat upload file.

```
<form action="{{ route('upload.proses') }}" method="POST"
      enctype="multipart/form-data">
```

6. Jalankan php artisan serve

```
$ php artisan serve
Laravel development server started: http://127.0.0.1:8000
```

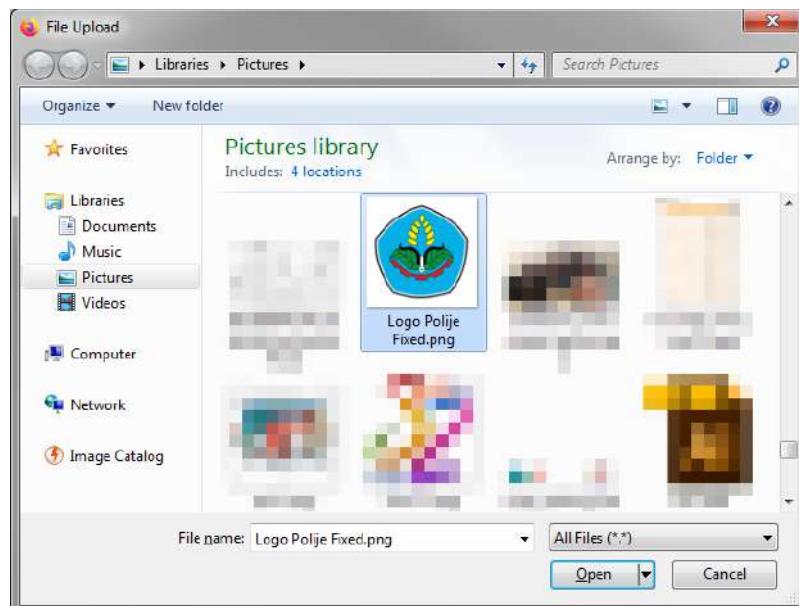
7. Buka 127.0.0.1:8000/upload di browser

Upload File Dengan Laravel

File Gambar
 No file selected.

Keterangan

8. Pilih gambar dengan menekan tombol **browse...**



9. Keluar alert jika terjadi error.

Upload File Dengan Laravel

The keterangan field is required.

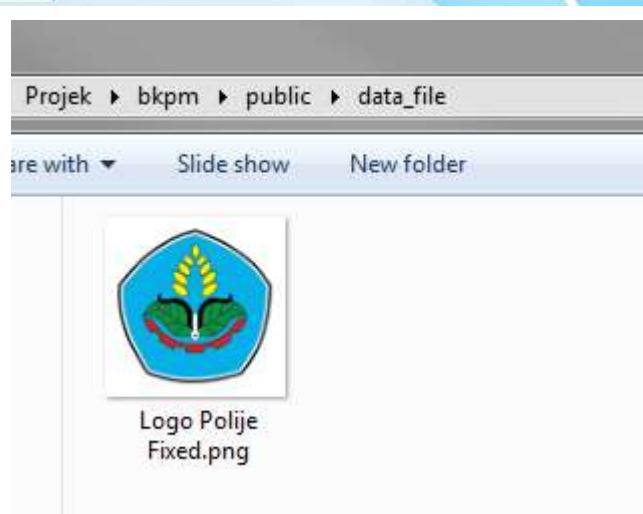
File Gambar
 No file selected.

Keterangan

10. Jika berhasil di upload

```
File Name: Logo Polije Fixed.png
File Extension: png
File Real Path: C:\wamp64\tmp\phpF568.tmp
File Size: 140364
File Mime Type: image/png
```

11. Setelah di upload File pindah ke folder Public



e. Alat dan Bahan

1. Client Server: Xampp
2. Text Editor: Visual Code/Sublime Text 3
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4. Tools Dependency Manager Multiplatform: Composer
5. Kertas A4 / Folio Bergaris
6. Pulpen

f. Prosedur Kerja

g. Hasil dan Pembahasan

Format Laporan

Kertas A4

Format *.pdf

Struktur Laporan: Cover, Pendahuluan, Hasil Praktik, Kesimpulan dan Daftar Pustaka

Berikan Identitas Diri: NIM, Nama, Golongan, Tugas Minggu Ke-X

Penamaan File: ACARA-X_GOL_NIM_NAMA.pdf

**Contoh: **ACARA-1_A_E1234356_KHAFID.pdf

Kumpulkan pada <http://iti.polije.ac.id/elearning/>

h. Kesimpulan

1. Mahasiswa memahami dan mengimplementasikan File Upload
2. Mahasiswa memahami dan mengimplementasikan Manipulasi Gambar
3. Mahasiswa memahami dan mengimplementasikan Multiple Upload dengan Dropzone
4. Mahasiswa memahami dan mengimplementasikan Upload File Dokumen

i. Rubrik Penilaian

No	Indikator Penilaian	Nilai			
		1	2	3	4
1	Ketepatan waktu dan ketepatan Langkah kerja dalam mengerjakan				V
2	Ketepatan waktu dan Langkah kerja kurang tepat dalam mengerjakan			V	
3	Keterlambatan waktu dan Langkah kerja yang dilakukan kurang tepat		V		
4	Keterlambatan waktu pengumpulan dan Langkah kerja tidak selesai	V			
	Total Skor*	Skor x 25			

ACARA 38. Manipulasi Gambar

Pokok Bahasan	: Manipulasi Gambar
Acara Praktikum/Praktik	: Minggu 11/2
Tempat	: Daring/Luring Politeknik Negeri Jember
Alokasi Waktu	: 100 menit

a. Capaian Pembelajaran Mata Kuliah (CPMK)

1. Mahasiswa mampu memahami dan mengimplementasikan File Upload
2. Mahasiswa mampu memahami dan mengimplementasikan Manipulasi Gambar
3. Mahasiswa mampu memahami dan mengimplementasikan Multiple Upload dengan Dropzone
4. Mahasiswa mampu memahami dan mengimplementasikan Upload File Dokumen

b. Penilaian Bertahap BNSP (*Skill Passport*)

Nama Skema Sertifikasi: Pengembang Web/Web Developer (SKM-496-028)

No	Kode Unit	Nama Unit Kompetensi	Elemen Kompetensi
1	J.620100.036.01	Melaksanakan pengujian kode program secara statis	<ul style="list-style-type: none">• Mempersiapkan dokumentasi peralatan dan lingkungan pengujian statis• Membuat program driver test/stub• Melaksanakan pengujian• Mengukur aplikasi ketika stress test dijalankan• Menganalisis data pengujian• Melaporkan dokumentasi pengujian
2	J.620100.044.01	Menerapkan Alert Notification Jika Aplikasi Bermasalah	<ul style="list-style-type: none">• Analisis permasalahan yang memerlukan tindakan cepat• Menentukan mekanisme notification sewaktu timbul suatu permasalahan• Menjalankan mekanisme graceful failure jika terjadi permasalahan
3	J.620100.045.01	Melakukan Pemantauan Resource yang Digunakan Aplikasi	<ul style="list-style-type: none">• Analisis resources yang kritis yang diperlukan aplikasi• Membuat modul visualisasi penggunaan resources

4	J.620100.047.01	Melakukan Pembaharuan Perangkat Lunak	<ul style="list-style-type: none">• Menganalisis differensiasi perangkat lunak yang terbaru dengan yang existing• Membuat program perangkat lunak penambahan differensiasi
---	-----------------	---------------------------------------	---

c. Indikator Penilaian

- d. Mahasiswa memahami dan mengimplementasikan File Upload
- e. Mahasiswa memahami dan mengimplementasikan Manipulasi Gambar
- f. Mahasiswa memahami dan mengimplementasikan Multiple Upload dengan Dropzone
- g. Mahasiswa memahami dan mengimplementasikan Upload File Dokumen

h. Dasar Teori

Laravel sudah menyediakan package untuk melakukan manipulasi image dengan mudah. Pada saat pembuatan program ada kalanya kita membutuhkan fungsi-fungsi untuk memanipulasi gambar seperti melakukan resize, mengubah kualitas gambar untuk efisiensi, memasukkan watermark, dan lain sebagainya. Cara memanipulasi gambar tersebut sudah terdapat pada package **Intervention Image** yang seperti biasanya dapat diinstall pada laravel dengan menggunakan composer.

1. Pertama install **Intervention Image** melalui composer

```
composer require intervention/image
```

2. Setelah instalasi selesai, tambahkan kode konfigurasi berikut pada bagian **provider** di **config/app.php**

```
Intervention\Image\ImageServiceProvider::class,
```

3. kode berikut pada bagian **aliases**.

```
'Image' => Intervention\Image\Facades\Image::class,
```

4. Dengan memanfaatkan file controller **UploadController** sebelumnya pada pembahasan 10/1, tambahkan satu function **upload_resize()**, yaitu kita akan memanfaatkan fungsi merubah ukuran gambar sebelum diupload.
5. Tambahkan alias yang kita buat tadi diatas controller sebelum function

```
use File;
use Image;
```

6. Silahkan baca komen pada setiap kode berikut untuk memahami proses upload.

```
public function resize_upload(Request $request)
{
    $this->validate($request, [
        'file' => 'required',
        'keterangan' => 'required',
    ]);

    //TENTUKAN PATH LOKASI UPLOAD
    $path = public_path('img/logo');

    // JIKA FOLDERNYA BELUM ADA
    if (!File::isDirectory($path)) {
        //MAKA FOLDER TERSEBUT AKAN DIBUAT
        File::makeDirectory($path, 0777, true);
    }

    //MENGAMBIL FILE IMAGE DARI FORM
    $file = $request->file('file');

    //MEMBUAT NAME FILE DARI GABUNGAN TANGGAL DAN UNIQID()
    $fileName = 'logo_' . uniqid() . '.' . $file->getClientOriginalExtension();

    //MEMBUAT CANVAS IMAGE SEBESAR DIMENSI
    $canvas = Image::canvas(200, 200);

    //RESIZE IMAGE SESUAI DIMENSI DENGAN MEMPERTAHANKAN RATIO
    $resizeImage = Image::make($file)->resize(null, 200, function($constraint) {
        $constraint->aspectRatio();
    });

    //MEMASUKAN IMAGE YANG TELAH DIRESIZE KE DALAM CANVAS
    $canvas->insert($resizeImage, 'center');

    //SIMPAN IMAGE KE FOLDER
    if($canvas->save($path . '/' . $fileName)){
        return redirect(route('upload'))->with('success','Data berhasil ditambahkan!');
    } else {
        return redirect(route('upload'))->with('error','Data gagal ditambahkan!');
    }
}
```

7. Buat route untuk menuju ke fuction **resize_upload**

```
Route::post('/upload/resize', 'UploadController@resize_upload')
->name('upload.resize');
```

8. Ubah action pada form upload di view.

```
<form action="{{ route('upload.resize') }}" method="POST" enctype="multipart/form-data">
```

9. Tambahkan kode alert ini diatas input

```
    {{-- Pesan Jika Success --}}
    @if (session('success'))
        <div class="alert alert-success alert-dismissible">
            <a href="#" class="close text-decoration-none"
               data-dismiss="alert" aria-label="close">&times;</a>
            {{ session('success') }}
        </div>
    @endif

    {{-- Peringatan Jika Error --}}
    @if (session('error'))
        <div class="alert alert-danger alert-dismissible">
            <a href="#" class="close text-decoration-none"
               data-dismiss="alert" aria-label="close">&times;</a>
            {{ session('error') }}
        </div>
    @endif
```

10. Jalankan php artisan serve

```
$ php artisan serve
Laravel development server started: http://127.0.0.1:8000
```

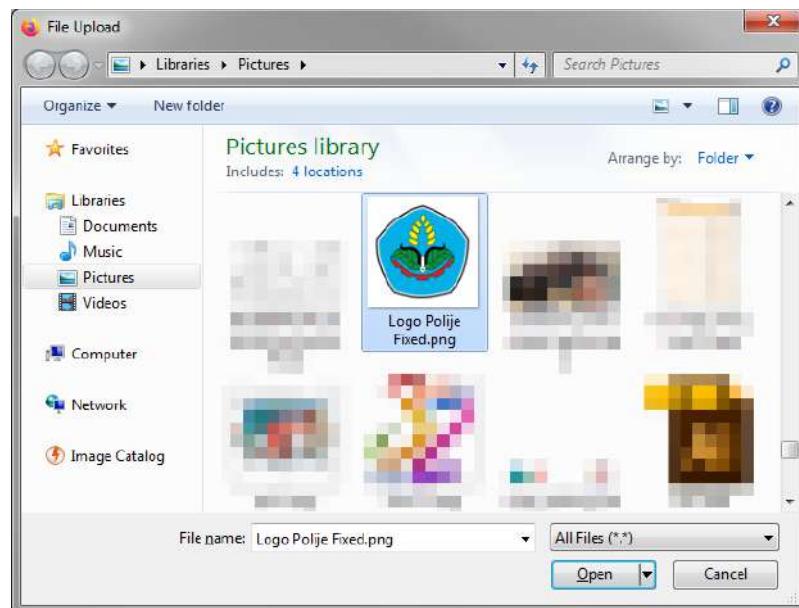
11. Buka 127.0.0.1:8000/upload di browser

Upload File Dengan Laravel

File Gambar
 No file selected.

Keterangan

12. Pilih gambar dengan menekan tombol **browse...**



13. Jika berhasil di upload

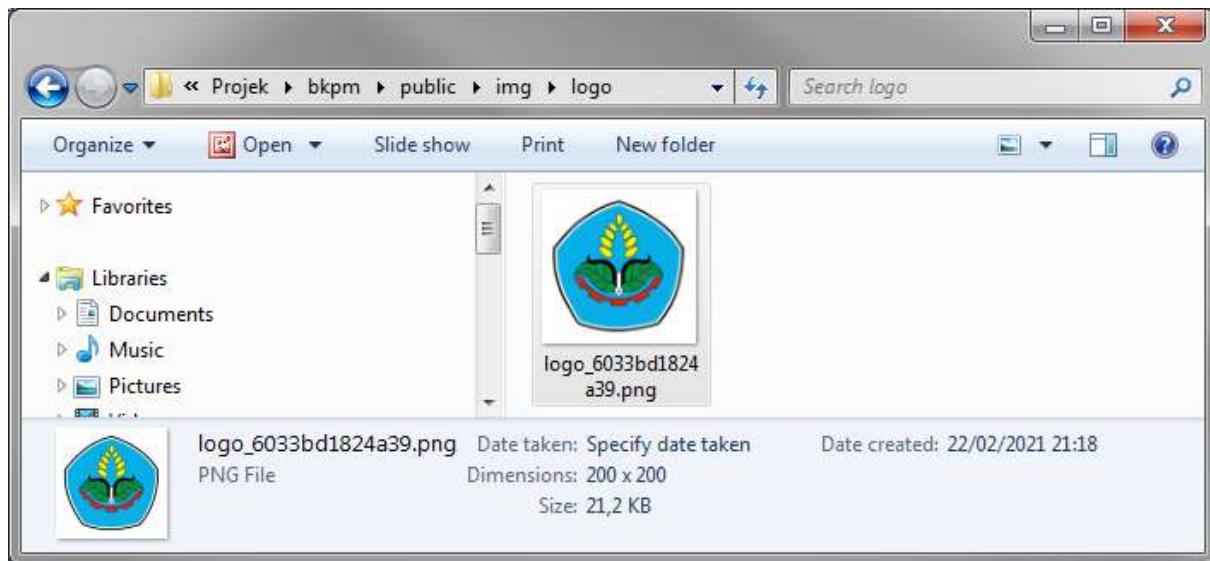
Upload File Dengan Laravel

Data berhasil ditambahkan!

File Gambar
 No file selected.

Keterangan

14. Setelah di upload File pindah ke folder yang di tentukan sebelumnya yaitu **public/img/logo**. Pastikan resolusi gambar adalah 200x200



i. Alat dan Bahan

1. Client Server: Xampp
2. Text Editor: Visual Code/Sublime Text 3
3. Management Storage: Git dan Github
4. Tools Dependency Manager Multiplatform: Composer
5. Kertas A4 / Folio Bergaris
6. Pulpen

j. Prosedur Kerja

k. Hasil dan Pembahasan

Format Laporan

Kertas A4

Format *.pdf

Struktur Laporan: Cover, Pendahuluan, Hasil Praktik, Kesimpulan dan Daftar Pustaka

Berikan Identitas Diri: NIM, Nama, Golongan, Tugas Minggu Ke-X

Penamaan File: ACARA-X_GOL_NIM_NAMA.pdf

**Contoh: **ACARA-1_A_E1234356_KHAFID.pdf

Kumpulkan pada <http://iti.polije.ac.id/elearning/>

I. Kesimpulan

1. Mahasiswa memahami dan mengimplementasikan File Upload
2. Mahasiswa memahami dan mengimplementasikan Manipulasi Gambar

3. Mahasiswa memahami dan mengimplementasikan Multiple Upload dengan Dropzone
4. Mahasiswa memahami dan mengimplementasikan Upload File Dokumen

m. Rubrik Penilaian

No	Indikator Penilaian	Nilai			
		1	2	3	4
1	Ketepatan waktu dan ketepatan Langkah kerja dalam mengerjakan				V
2	Ketepatan waktu dan Langkah kerja kurang tepat dalam mengerjakan			V	
3	Keterlambatan waktu dan Langkah kerja yang dilakukan kurang tepat		V		
4	Keterlambatan waktu pengumpulan dan Langkah kerja tidak selesai	V			
		Total Skor*		Skor x 25	

ACARA 39. Multiple Upload dengan Dropzone

Pokok Bahasan : Multiple Upload dengan Dropzone

Acara Praktikum/Praktik : Minggu 11/3

Tempat : Daring/Luring Politeknik Negeri Jember

Alokasi Waktu : 100 menit

a. Capaian Pembelajaran Mata Kuliah (CPMK)

1. Mahasiswa mampu memahami dan mengimplementasikan File Upload
2. Mahasiswa mampu memahami dan mengimplementasikan Manipulasi Gambar
3. Mahasiswa mampu memahami dan mengimplementasikan Multiple Upload dengan Dropzone
4. Mahasiswa mampu memahami dan mengimplementasikan Upload File Dokumen

b. Penilaian Bertahap BNSP (*Skill Passport*)

Nama Skema Sertifikasi: Pengembang Web/Web Developer (SKM-496-028)

No	Kode Unit	Nama Unit Kompetensi	Elemen Kompetensi
1	J.620100.036.01	Melaksanakan pengujian kode program secara statis	<ul style="list-style-type: none">• Mempersiapkan dokumentasi peralatan dan lingkungan pengujian statis• Membuat program driver test/stub• Melaksanakan pengujian• Mengukur aplikasi ketika stress test dijalankan• Menganalisis data pengujian• Melaporkan dokumentasi pengujian
2	J.620100.044.01	Menerapkan Alert Notification Jika Aplikasi Bermasalah	<ul style="list-style-type: none">• Analisis permasalahan yang memerlukan tindakan cepat• Menentukan mekanisme notification sewaktu timbul suatu permasalahan• Menjalankan mekanisme graceful failure jika terjadi permasalahan
3	J.620100.045.01	Melakukan Pemantauan Resource yang Digunakan Aplikasi	<ul style="list-style-type: none">• Analisis resources yang kritis yang diperlukan aplikasi• Membuat modul visualisasi penggunaan resources

4	J.620100.047.01	Melakukan Pembaharuan Perangkat Lunak	<ul style="list-style-type: none">• Menganalisis differensiasi perangkat lunak yang terbaru dengan yang existing• Membuat program perangkat lunak penambahan differensiasi
---	-----------------	---------------------------------------	---

c. Indikator Penilaian

1. Mahasiswa memahami dan mengimplementasikan File Upload
2. Mahasiswa memahami dan mengimplementasikan Manipulasi Gambar
3. Mahasiswa memahami dan mengimplementasikan Multiple Upload dengan Dropzone
4. Mahasiswa memahami dan mengimplementasikan Upload File Dokumen

d. Dasar Teori

Dropzone hadir sebagai salah satu library yang cukup populer dalam menyediakan fungsi **drag & drop file uploads** beserta **image previews**. Mari ikuti langkah penggunaannya pada file multiple upload.

1. Tambahkan route baru.

```
Route::get('/dropzone', 'UploadController@dropzone')  
    ->name('dropzone');  
Route::post('/dropzone/store', 'UploadController@dropzone_store')  
    ->name('dropzone.store');
```

2. Tambahkan function **dropzone** dan **dropzone_store**

```
public function dropzone()
{
    return view('dropzone');
}

public function dropzone_store(Request $request)
{
    $image = $request->file('file');

    $imageName = time() . '.' . $image->extension();
    $image->move(public_path('img/dropzone'), $imageName);
    return response()->json(['success' => $imageName]);
}
```

3. Buat view tampilan upload file dengan dropzone

```
<html>
<head>
    <title>Dropzone Image Upload in Laravel</title>
    <link href="https://stackpath.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css" rel="stylesheet">
    <script src="https://code.jquery.com/jquery-3.5.1.min.js"></script>
    <link href="https://cdnjs.cloudflare.com/ajax/libs/dropzone/4.0.1/min/dropzone.min.css" rel="stylesheet">
    <script src="https://cdnjs.cloudflare.com/ajax/libs/dropzone/4.2.0/min/dropzone.min.js">
    </script>
</head>
<body>
    <div class="container">
        <div class="row">
            <div class="col-md-12">
                <h1 class="text-center">Dropzone Image Upload in Laravel</h1><br>
                <form action="{{ route('dropzone.store') }}" method="post" name="file" files="true" enctype="multipart/form-data" class="dropzone" id="image-upload">
                    @csrf
                    <div>
                        <h3 class="text-center">Upload Multiple Images</h3>
                    </div>
                </form>
                <button type="button" id="button" class="btn btn-primary">Upload</button>
            </div>
        </div>
    </div>
</body>
</html>
```

4. Tambahkan Konfigurasi Javascript dropzone diatas penutup tag </body>

```
<script type="text/javascript">
    Dropzone.options.imageUpload = {
        maxFilesize: 10,
        acceptedFiles: ".jpeg,.jpg,.png,.gif",
        addRemoveLinks: true,
        createImageThumbnails: true,
        autoProcessQueue: false,
        init: function () {
            var myDropzone = this;

            // AKSI KETIKA BUTTON UPLOAD DI KLIK
            $("#button").click(function (e) {
                e.preventDefault();
                myDropzone.processQueue();
            });

            this.on('sending', function(file, xhr, formData) {
                // Tambahkan semua input form ke formData Dropzone yang akan POST
                var data = $('#image-upload').serializeArray();
                $.each(data, function(key, el) {
                    formData.append(el.name, el.value);
                });
            });
        }
    };
</script>
```

5. Buka <http://127.0.0.1:8000/dropzone> di browser, kemudian drag dan drop gambar yang akan diunggah lalu tekan tombol **upload**

Dropzone Image Upload in Laravel



6. Setelah file berhasil di upload file gambar berada di folder **public/img/dropzone**



e. Alat dan Bahan

1. Client Server: Xampp
2. Text Editor: Visual Code/Sublime Text 3
3. Management Storage: Git dan Github
4. Tools Dependency Manager Multiplatform: Composer
5. Kertas A4 / Folio Bergaris
6. Pulpen

f. Prosedur Kerja

g. Hasil dan Pembahasan

Format Laporan

Kertas A4

Format *.pdf

Struktur Laporan: Cover, Pendahuluan, Hasil Praktik, Kesimpulan dan Daftar Pustaka

Berikan Identitas Diri: NIM, Nama, Golongan, Tugas Minggu Ke-X

Penamaan File: ACARA-X_GOL_NIM_NAMA.pdf

**Contoh: **ACARA-1_A_E1234356_KHAFID.pdf

Kumpulkan pada <http://jti.polije.ac.id/elearning/>

h. Kesimpulan

1. Mahasiswa memahami dan mengimplementasikan File Upload
2. Mahasiswa memahami dan mengimplementasikan Manipulasi Gambar
3. Mahasiswa memahami dan mengimplementasikan Multiple Upload dengan Dropzone
4. Mahasiswa memahami dan mengimplementasikan Upload File Dokumen

i. Rubrik Penilaian

No	Indikator Penilaian	Nilai			
		1	2	3	4
1	Ketepatan waktu dan ketepatan Langkah kerja dalam mengerjakan				V
2	Ketepatan waktu dan Langkah kerja kurang tepat dalam mengerjakan			V	
3	Keterlambatan waktu dan Langkah kerja yang dilakukan kurang tepat		V		
4	Keterlambatan waktu pengumpulan dan Langkah kerja tidak selesai	V			
	Total Skor*	Skor x 25			

ACARA 40. Upload File Dokumen

Pokok Bahasan	: Upload File Dokumen
Acara Praktikum/Praktik	: Minggu 11/4
Tempat	: Daring/Luring Politeknik Negeri Jember
Alokasi Waktu	: 100 menit

a. Capaian Pembelajaran Mata Kuliah (CPMK)

1. Mahasiswa mampu memahami dan mengimplementasikan File Upload
2. Mahasiswa mampu memahami dan mengimplementasikan Manipulasi Gambar
3. Mahasiswa mampu memahami dan mengimplementasikan Multiple Upload dengan Dropzone
4. Mahasiswa mampu memahami dan mengimplementasikan Upload File Dokumen

b. Penilaian Bertahap BNSP (*Skill Passport*)

Nama Skema Sertifikasi: Pengembang Web/Web Developer (SKM-496-028)

No	Kode Unit	Nama Unit Kompetensi	Elemen Kompetensi
1	J.620100.036.01	Melaksanakan pengujian kode program secara statis	<ul style="list-style-type: none">• Mempersiapkan dokumentasi peralatan dan lingkungan pengujian statis• Membuat program driver test/stub• Melaksanakan pengujian• Mengukur aplikasi ketika stress test dijalankan• Menganalisis data pengujian• Melaporkan dokumentasi pengujian
2	J.620100.044.01	Menerapkan Alert Notification Jika Aplikasi Bermasalah	<ul style="list-style-type: none">• Analisis permasalahan yang memerlukan tindakan cepat• Menentukan mekanisme notification sewaktu timbul suatu permasalahan• Menjalankan mekanisme graceful failure jika terjadi permasalahan
3	J.620100.045.01	Melakukan Pemantauan Resource yang Digunakan Aplikasi	<ul style="list-style-type: none">• Analisis resources yang kritis yang diperlukan aplikasi• Membuat modul visualisasi penggunaan resources

4	J.620100.047.01	Melakukan Pembaharuan Perangkat Lunak	<ul style="list-style-type: none">• Menganalisis differensiasi perangkat lunak yang terbaru dengan yang existing• Membuat program perangkat lunak penambahan differensiasi
---	-----------------	---------------------------------------	---

c. Indikator Penilaian

1. Mahasiswa memahami dan mengimplementasikan File Upload
2. Mahasiswa memahami dan mengimplementasikan Manipulasi Gambar
3. Mahasiswa memahami dan mengimplementasikan Multiple Upload dengan Dropzone
4. Mahasiswa memahami dan mengimplementasikan Upload File Dokumen

d. Dasar Teori

Selain file image atau gambar, file lain seperti dokumen bisa juga di upload dengan memberi batasan file type yang akan di upload, sebagai contoh kita akan mengupload file PDF, mari kita coba dengan menggunakan dropzone.

1. Buat route baru untuk upload file

```
Route::get('/pdf_upload', 'UploadController@pdf_upload')  
    ->name('pdf.upload');  
Route::post('/pdf/store', 'UploadController@pdf_store')  
    ->name('pdf.store');
```

2. Buat controller **pdf_upload** dan **pdf_store**

```
public function pdf_upload()  
{  
    return view('pdf_upload');  
}  
  
public function pdf_store(Request $request)  
{  
    $pdf = $request->file('file');  
  
    $pdfName = 'pdf_'.time().'.'.$pdf->extension();  
    $pdf->move(public_path('pdf/dropzone'), $pdfName);  
    return response()->json(['success' => $pdfName]);  
}
```

3. Buat view tampilan upload file PDF dengan dropzone

```
<html>
<head>
    <title>Dropzone PDF Upload in Laravel</title>
    <link href="https://stackpath.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css" rel="stylesheet">
    <script src="https://code.jquery.com/jquery-3.5.1.min.js"></script>
    <link href="https://cdnjs.cloudflare.com/ajax/libs/dropzone/4.0.1/min/dropzone.min.css" rel="stylesheet">
    <script src="https://cdnjs.cloudflare.com/ajax/libs/dropzone/4.2.0/min/dropzone.min.js">
    </script>
</head>
<body>
    <div class="container">
        <div class="row">
            <div class="col-md-12">
                <h1 class="text-center">Dropzone PDF Upload in Laravel</h1><br>
                <form action="{{ route('pdf.store') }}" method="post" name="file" files="true"
                    enctype="multipart/form-data" class="dropzone" id="pdf-upload">
                    @csrf
                </form>
                <button type="button" id="button" class="btn btn-primary">Upload</button>
            </div>
        </div>
    </div>
</body>
</html>
```

4. Tambahkan Konfigurasi Javascript dropzone diatas penutup tag </body>

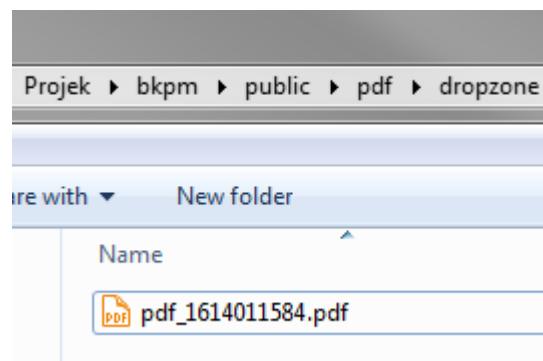
```
<script type="text/javascript">
    Dropzone.autoDiscover = false;
    var myDropzone = new Dropzone('#pdf-upload', {
        maxFilesize: 1,
        acceptedFiles: ".pdf",
        addRemoveLinks: true,
        autoProcessQueue: false,
        init: function () {
            // AKSI KETIKA BUTTON UPLOAD DI KLIK
            $("#button").click(function (e) {
                e.preventDefault();
                myDropzone.processQueue();
            });
            this.on('sending', function(file, xhr, formData) {
                // Tambahkan semua input form ke formData Dropzone yang akan POST
                var data = $('#pdf-upload').serializeArray();
                $.each(data, function(key, el) {
                    formData.append(el.name, el.value);
                });
            });
        }
    });
</script>
```

5. Buka http://127.0.0.1:8000/pdf_upload di browser, kemudian drag and drop pdf yang akan diunggah lalu tekan tombol **upload**

Dropzone PDF Upload in Laravel



6. Setelah file PDF berhasil di upload, file PDF berada pada folder **public/pdf/dropzone**



e. Alat dan Bahan

1. Client Server: Xampp
2. Text Editor: Visual Code/Sublime Text 3
3. Management Storage: Git dan Github
4. Tools Dependency Manager Multiplatform: Composer
5. Kertas A4 / Folio Bergaris
6. Pulpen

f. Prosedur Kerja

g. Hasil dan Pembahasan

Format Laporan

Kertas A4

Format *.pdf

Struktur Laporan: Cover, Pendahuluan, Hasil Praktik, Kesimpulan dan Daftar Pustaka

Berikan Identitas Diri: NIM, Nama, Golongan, Tugas Minggu Ke-X

Penamaan File: ACARA-X_GOL_NIM_NAMA.pdf

**Contoh: **ACARA-1_A_E1234356_KHAFID.pdf

Kumpulkan pada <http://iti.polije.ac.id/elearning/>

h. Kesimpulan

1. Mahasiswa memahami dan mengimplementasikan File Upload
2. Mahasiswa memahami dan mengimplementasikan Manipulasi Gambar
3. Mahasiswa memahami dan mengimplementasikan Multiple Upload dengan Dropzone
4. Mahasiswa memahami dan mengimplementasikan Upload File Dokumen

i. Rubrik Penilaian

No	Indikator Penilaian	Nilai			
		1	2	3	4
1	Ketepatan waktu dan ketepatan Langkah kerja dalam mengerjakan				V
2	Ketepatan waktu dan Langkah kerja kurang tepat dalam mengerjakan			V	
3	Keterlambatan waktu dan Langkah kerja yang dilakukan kurang tepat		V		
4	Keterlambatan waktu pengumpulan dan Langkah kerja tidak seusai	V			
	Total Skor*	Skor x 25			

ACARA 41. API (Application Programming Interface) (1)

Pokok Bahasan : API (Application Programming Interface)

Acara Praktikum/Praktik : Minggu 12/1

Tempat : Daring/Luring Politeknik Negeri Jember

Alokasi Waktu : 100 menit

a. Capaian Pembelajaran Mata Kuliah (CPMK)

1. Mahasiswa mampu memahami API pada Laravel
2. Mahasiswa mampu membuat API pada Laravel

b. Penilaian Bertahap BNSP (*Skill Passport*)

Nama Skema Sertifikasi: Pengembang Web/Web Developer (SKM-496-028)

No	Kode Unit	Nama Unit Kompetensi	Elemen Kompetensi
1	J.620100.036.01	Melaksanakan pengujian kode program secara statis	<ul style="list-style-type: none">• Mempersiapkan dokumentasi peralatan dan lingkungan pengujian statis• Membuat program driver test/stub• Melaksanakan pengujian• Mengukur aplikasi ketika stress test dijalankan• Menganalisis data pengujian• Melaporkan dokumentasi pengujian
2	J.620100.044.01	Menerapkan Alert Notification Jika Aplikasi Bermasalah	<ul style="list-style-type: none">• Analisis permasalahan yang memerlukan tindakan cepat• Menentukan mekanisme notification sewaktu timbul suatu permasalahan• Menjalankan mekanisme graceful failure jika terjadi permasalahan
3	J.620100.045.01	Melakukan Pemantauan Resource yang Digunakan Aplikasi	<ul style="list-style-type: none">• Analisis resources yang kritis yang diperlukan aplikasi• Membuat modul visualisasi penggunaan resources
4	J.620100.047.01	Melakukan Pembaharuan Perangkat Lunak	<ul style="list-style-type: none">• Menganalisis diferensiasi perangkat lunak yang terbaru dengan yang existing

		<ul style="list-style-type: none">• Membuat program perangkat lunak penambahan diferensiasi
--	--	---

c. Indikator Penilaian

1. Kemampuan mahasiswa dalam mengimplementasikan API pada Laravel

d. Dasar Teori

e. Alat dan Bahan

1. Client Server: Xampp
2. Text Editor: Visual Code
3. Management Storage: Git dan Github
4. Tools Dependency Manager Multiplatform: Composer
5. Kertas A4 / Folio Bergaris
6. Pulpen

f. Prosedur Kerja

1. Jelaskan apa yang anda ketahui tentang API pada Laravel?
2. Apakah manfaat yang diperoleh jika aplikasi dibuat dengan menfaatkan API pada Laravel?
3. Jelaskan beberapa komponen pada Laravel yang mendukung konsep API?
4. Gambarkan dan jelaskan alur proses aplikasi jika menggunakan konsep API?

g. Hasil dan Pembahasan

Format Laporan

Kertas A4

Format *.pdf

Struktur Laporan: Cover, Pendahuluan, Hasil Praktik, Kesimpulan dan Daftar Pustaka

Berikan Identitas Diri: NIM, Nama, Golongan, Tugas Minggu Ke-X

Penamaan File: ACARA-X_GOL_NIM_NAMA.pdf

**Contoh: **ACARA-1_A_E1234356_KHAFID.pdf

Kumpulkan pada <http://jti.polije.ac.id/elearning/>

h. Kesimpulan

1. Mahasiswa memahami dan mengimplementasikan API (*Application Programming Interface*)

i. Rubrik Penilaian

No	Indikator Penilaian	Nilai			
		1	2	3	4
1	Ketepatan waktu dan ketepatan Langkah kerja dalam mengerjakan				V
2	Ketepatan waktu dan Langkah kerja kurang tepat dalam mengerjakan			V	
3	Keterlambatan waktu dan Langkah kerja yang dilakukan kurang tepat		V		
4	Keterlambatan waktu pengumpulan dan Langkah kerja tidak selesai	V			
		Total Skor*		Skor x 25	

ACARA 42. API (*Application Programming Interface*) (2)

Pokok Bahasan : API (*Application Programming Interface*)

Acara Praktikum/Praktik : Minggu 11/2

Tempat : Daring/Luring Politeknik Negeri Jember

Alokasi Waktu : 100 menit

a. Capaian Pembelajaran Mata Kuliah (CPMK)

1. Mahasiswa mampu memahami API pada Laravel
2. Mahasiswa mampu membuat API pada Laravel

b. Penilaian Bertahap BNSP (*Skill Passport*)

Nama Skema Sertifikasi: Pengembang Web/Web Developer (SKM-496-028)

No	Kode Unit	Nama Unit Kompetensi	Elemen Kompetensi
1	J.620100.036.01	Melaksanakan pengujian kode program secara statis	<ul style="list-style-type: none">• Mempersiapkan dokumentasi peralatan dan lingkungan pengujian statis• Membuat program driver test/stub• Melaksanakan pengujian• Mengukur aplikasi ketika stress test dijalankan• Menganalisis data pengujian• Melaporkan dokumentasi pengujian
2	J.620100.044.01	Menerapkan Alert Notification Jika Aplikasi Bermasalah	<ul style="list-style-type: none">• Analisis permasalahan yang memerlukan tindakan cepat• Menentukan mekanisme notification sewaktu timbul suatu permasalahan• Menjalankan mekanisme graceful failure jika terjadi permasalahan
3	J.620100.045.01	Melakukan Pemantauan Resource yang Digunakan Aplikasi	<ul style="list-style-type: none">• Analisis resources yang kritis yang diperlukan aplikasi• Membuat modul visualisasi penggunaan resources
4	J.620100.047.01	Melakukan Pembaharuan Perangkat Lunak	<ul style="list-style-type: none">• Menganalisis diferensiasi perangkat lunak yang terbaru dengan yang existing

		<ul style="list-style-type: none">• Membuat program perangkat lunak penambahan diferensiasi
--	--	---

c. Indikator Penilaian

1. Kemampuan mahasiswa dalam mengimplementasikan API pada Laravel

d. Dasar Teori

e. Alat dan Bahan

1. Client Server: Xampp
2. Text Editor: Visual Code
3. Management Storage: Git dan Github
4. Tools Dependency Manager Multiplatform: Composer
5. Kertas A4 / Folio Bergaris
6. Pulpen

f. Prosedur Kerja

1. Tekan **Terminal** □ **New Terminal** kemudian ketikan sintak berikut.

php artisan make:controller ApiPendidikanController

2. Pindahkan file **ApiPengalamanKerjaController.php** ke dalam folder backend.
3. Kemudian tambahkan sehingga sintak **ApiPendidikanController.php** menjadi seperti berikut ini.

```
3  namespace App\Http\Controllers\Backend;
4
5  use App\Pendidikan;      You, a day ago • add:api
6  use Illuminate\Http\Request;
7  |  App\Http\Controllers\Controller;
8  use Illuminate\Support\Facades\Response;
9
10 | You, seconds ago | 1 author (You)
10 class ApiPendidikanController extends Controller
11 {
12     public function getAll()
13     {
14         $pendidikan = Pendidikan::all();
15         return Response::json($pendidikan, 201);
16     }
}
```

4. Buka folder **resources** □ **api.php** untuk menambahkan alamat url baru yang menghubungkan dengan **ApiPendidikanController.php**. Tambahkan sintak berikut ini.
5.

BKPM - WORKSHOP SISTEM INFORMASI WEB FRAMEWORK

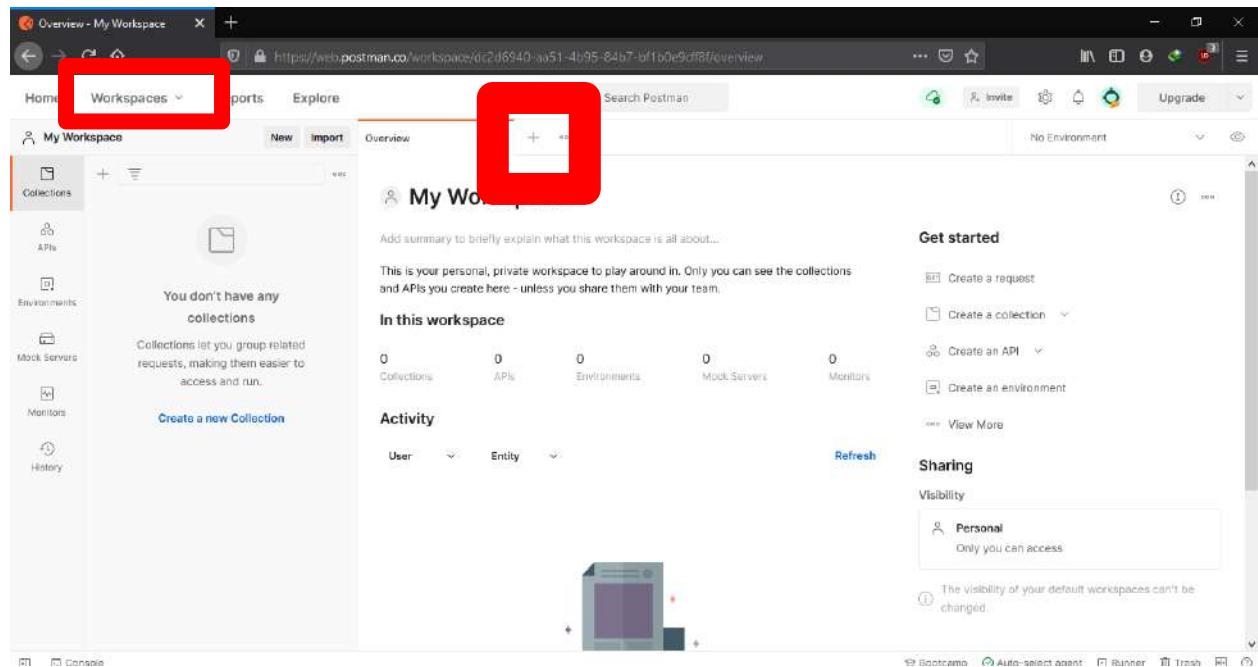
```
16 Route::middleware('auth:api')->get('/user', function (Request $request) {
17     return $request->user();
18 });
19 Route::group(['namespace' => 'Backend'], function () {
20     Route::get('api_pendidikan', 'ApiPendidikanController@getAll');
21     Route::get('api_pendidikan/{id}', 'ApiPendidikanController@getPen');
22     Route::post('api_pendidikan', 'ApiPendidikanController@createPen');
23     Route::put('api_pendidikan/{id}', 'ApiPendidikanController@updatePen');
24     Route::delete('api_pendidikan/{id}', 'ApiPendidikanController@deletePen');
25 });
26 });
27 You, seconds ago • Uncommitted changes
```

6. Menguji hasil API yang telah dibuat menggunakan POSTMAN, buka url berikut :

<https://identity.getpostman.com/signup?continue=https%3A%2F%2Fgo.postman.co%2Fbuild>

7. Login menggunakan akun yang telah didaftarkan

8. Pilih workspaces kemudian tekan “+”



9. Masukkan url "**localhost:8000/api/api_pendidikan**" menggunakan method **GET** kemudian tekan Send dan akan didapatkan data Pendidikan

BKPM - WORKSHOP SISTEM INFORMASI WEB FRAMEWORK

The screenshot shows the Postman application interface. On the left, there's a sidebar with options like Home, Workspaces, Reports, and Explore. The main area shows a collection named 'My Workspace' with a message: 'You don't have any collections'. Below this, it says 'Collections let you group related requests, making them easier to access and run.' and 'Create a new Collection'. In the center, a request is being made to 'localhost:8000/api/api_pendidikan/'. The method is 'GET', and the URL is 'localhost:8000/api/api_pendidikan/'. Under 'Params', there are no parameters listed. Under 'Body', the response is displayed in JSON format:

```
1 [  
2 {  
3     "id": 1,  
4     "nama": "East Blue School",  
5     "tingkatan": 6,  
6     "tahun_masuk": 2020,  
7     "tahun_keluar": 2022,  
8     "created_at": "2021-03-04 04:37:46",  
9     "updated_at": "2021-03-04 04:37:46"  
10 }]  
11 ]
```

At the bottom right of the response panel, it shows 'Status: 200 OK Time: 805 ms Size: 435 B Save Response'.

g. Hasil dan Pembahasan

Format Laporan

Kertas A4

Format *.pdf

Struktur Laporan: Cover, Pendahuluan, Hasil Praktik, Kesimpulan dan Daftar Pustaka

Berikan Identitas Diri: NIM, Nama, Golongan, Tugas Minggu Ke-X

Penamaan File: ACARA-X_GOL_NIM_NAMA.pdf

**Contoh: **ACARA-1_A_E1234356_KHAFID.pdf

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h. Kesimpulan

1. Mahasiswa memahami dan mengimplementasikan API (*Application Programming Interface*)

i. Rubrik Penilaian

BKPM - WORKSHOP SISTEM INFORMASI WEB FRAMEWORK

No	Indikator Penilaian	Nilai			
		1	2	3	4
1	Ketepatan waktu dan ketepatan Langkah kerja dalam mengerjakan				V
2	Ketepatan waktu dan Langkah kerja kurang tepat dalam mengerjakan			V	
3	Keterlambatan waktu dan Langkah kerja yang dilakukan kurang tepat		V		
4	Keterlambatan waktu pengumpulan dan Langkah kerja tidak selesai	V			
	Total Skor*	Skor x 25			

ACARA 43

Pokok Bahasan : API (Application Programming Interface)

Acara Praktikum/Praktik : Minggu 12/3

Tempat : Daring/Luring Politeknik Negeri Jember

Alokasi Waktu : 100 menit

a. Capaian Pembelajaran Mata Kuliah (CPMK)

1. Mahasiswa mampu memahami API pada Laravel
2. Mahasiswa mampu membuat API pada Laravel

b. Indikator Penilaian

1. Kemampuan mahasiswa dalam mengimplementasikan API pada Laravel

c. Dasar Teori

d. Alat dan Bahan

1. Client Server: Xampp
2. Text Editor: Visual Code
3. Management Storage: Git dan Github
4. Tools Dependency Manager Multiplatform: Composer
5. Kertas A4 / Folio Bergaris
6. Pulpen

e. Prosedur Kerja

1. Menambahkan beberapa sintak pada **ApiPendidikanController.php** seperti berikut ini.

```
18 |     public function getPen($id)
19 |     {
20 |         $pendidikan = Pendidikan::find($id);
21 |
22 |         return Response::json($pendidikan, 200);
23 |     }
24 |
25 |     public function createPen(Request $request)
26 |     {
27 |         Pendidikan::create($request->all());      You, a day ago • add:api
28 |
29 |         return response()->json([
30 |             'status' => 'ok',
31 |             'message' => 'Pendidikan berhasil ditambahkan!'
32 |         ], 201);
33 |     }

```

2. Masukkan url "**localhost:8000/api/api_pendidikan/**" menggunakan method **POST** kemudian beri inputan key dan value berupa nama, tingkatan, tahun_masuk, dan tahun

BKPM - WORKSHOP SISTEM INFORMASI WEB FRAMEWORK

keluar lalu tekan Send dan akan didapatkan pesan bahwa data Pendidikan berhasil ditambahkan.

3.

The screenshot shows the Postman interface with a POST request to `localhost:8000/api/api_pendidikan`. The request body contains the following data:

KEY	VALUE	DESCRIPTION
nama	drum school	
tingkatan	5	
tahun_masuk	2018	
tahun_keluar	2020	

The response status is 201 Created, and the response body is `{"status": "ok", "message": "Pendidikan berhasil ditambahkan!"}`.

4. Masukkan url "**localhost:8000/api/api_pendidikan/2**" menggunakan method **GET** kemudian tekan Send dan akan didapatkan data Pendidikan yang diinginkan.

The screenshot shows the Postman interface with a GET request to `localhost:8000/api/api_pendidikan/2`. The response status is 200 OK, and the response body is a JSON object:

```
1  {
2   "id": 2,
3   "name": "drum school",
4   "tingkatan": 5,
5   "tahun_masuk": 2018,
6   "tahun_keluar": 2020,
7   "created_at": "2021-03-05 06:22:38",
8   "updated_at": "2021-03-05 06:22:38"
9 }
```

f. Hasil dan Pembahasan

Format Laporan

Kertas A4

Format *.pdf

Struktur Laporan: Cover, Pendahuluan, Hasil Praktik, Kesimpulan dan Daftar Pustaka

Berikan Identitas Diri: NIM, Nama, Golongan, Tugas Minggu Ke-X

Penamaan File: ACARA-X_GOL_NIM_NAMA.pdf

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g. Kesimpulan

1. Mahasiswa memahami dan mengimplementasikan API (*Application Programming Interface*)

h. Rubrik Penilaian

No	Indikator Penilaian	Nilai			
		1	2	3	4
1	Ketepatan waktu dan ketepatan Langkah kerja dalam mengerjakan				V
2	Ketepatan waktu dan Langkah kerja kurang tepat dalam mengerjakan			V	
3	Keterlambatan waktu dan Langkah kerja yang dilakukan kurang tepat		V		
4	Keterlambatan waktu pengumpulan dan Langkah kerja tidak selesai	V			
		Total Skor*		Skor x 25	

ACARA 44. API (Application Programming Interface) (3)

Pokok Bahasan : API (Application Programming Interface)

Acara Praktikum/Praktik : Minggu 12/4

Tempat : Daring/Luring Politeknik Negeri Jember

Alokasi Waktu : 100 menit

a. Capaian Pembelajaran Mata Kuliah (CPMK)

1. Mahasiswa mampu memahami API pada Laravel
2. Mahasiswa mampu membuat API pada Laravel

b. Penilaian Bertahap BNSP (*Skill Passport*)

Nama Skema Sertifikasi: Pengembang Web/Web Developer (SKM-496-028)

No	Kode Unit	Nama Unit Kompetensi	Elemen Kompetensi
1	J.620100.036.01	Melaksanakan pengujian kode program secara statis	<ul style="list-style-type: none">• Mempersiapkan dokumentasi peralatan dan lingkungan pengujian statis• Membuat program driver test/stub• Melaksanakan pengujian• Mengukur aplikasi ketika stress test dijalankan• Menganalisis data pengujian• Melaporkan dokumentasi pengujian
2	J.620100.044.01	Menerapkan Alert Notification Jika Aplikasi Bermasalah	<ul style="list-style-type: none">• Analisis permasalahan yang memerlukan tindakan cepat• Menentukan mekanisme notification sewaktu timbul suatu permasalahan• Menjalankan mekanisme graceful failure jika terjadi permasalahan
3	J.620100.045.01	Melakukan Pemantauan Resource yang Digunakan Aplikasi	<ul style="list-style-type: none">• Analisis resources yang kritis yang diperlukan aplikasi• Membuat modul visualisasi penggunaan resources
4	J.620100.047.01	Melakukan Pembaharuan Perangkat Lunak	<ul style="list-style-type: none">• Menganalisis diferensiasi perangkat lunak yang terbaru dengan yang existing

		<ul style="list-style-type: none">• Membuat program perangkat lunak penambahan diferensiasi
--	--	---

c. Indikator Penilaian

1. Kemampuan mahasiswa dalam mengimplementasikan API pada Laravel

d. Dasar Teori

e. Alat dan Bahan

1. Client Server: Xampp
2. Text Editor: Visual Code
3. Management Storage: Git dan Github
4. Tools Dependency Manager Multiplatform: Composer
5. Kertas A4 / Folio Bergaris
6. Pulpen

f. Prosedur Kerja

1. Menambahkan beberapa sintak pada **ApiPendidikanController.php** seperti berikut ini.

```
35 |     public function updatePen($id, Request $request)
36 |     {
37 |         Pendidikan::find($id)->update($request->all());
38 |
39 |         return response()->json([
40 |             'status' => 'ok',
41 |             'message' => 'Pendidikan berhasil dirubah!'
42 |         ], 201);
43 |     }
44 |
45 |     public function deletePen($id)
46 |     {
47 |         Pendidikan::destroy($id);
48 |
49 |         return response()->json([
50 |             'status' => 'ok',
51 |             'message' => 'Pendidikan berhasil dihapus!'
52 |         ], 201);
53 |     }

```

2. Masukkan url "**localhost:8000/api/api_pendidikan/2**" menggunakan method **PUT** kemudian beri inputan key dan value berupa nama, tingkatan, tahun_masuk, dan tahun keluar lalu tekan Send dan akan didapatkan pesan bahwa data Pendidikan berubah

BKPM - WORKSHOP SISTEM INFORMASI WEB FRAMEWORK

The screenshot shows the Postman interface with a PUT request to `localhost:8000/api/api_pendidikan/2`. The Body tab contains three parameters: `tingkatan` (4), `tahun_masuk` (2014), and `tahun_keluar` (2020). The response status is 201 Created, and the message is "Pendidikan berhasil diperbarui".

```
1
2   "status": "ok",
3   "message": "Pendidikan berhasil diperbarui"
```

The screenshot shows the Postman interface with a GET request to `localhost:8000/api/api_pendidikan/`. The response status is 200 OK, and the data is a JSON array containing two school records.

```
2
3   [
4     {
5       "id": 1,
6       "nama": "East Blue School",
7       "tingkatan": 6,
8       "tahun_masuk": 2020,
9       "tahun_keluar": 2022,
10      "created_at": "2021-03-04 04:37:46",
11      "updated_at": "2021-03-04 04:37:46"
12    },
13    {
14      "id": 2,
15      "nama": "drum castle school",
16      "tingkatan": 5,
17      "tahun_masuk": 2018,
18      "tahun_keluar": 2020,
19      "created_at": "2021-03-05 06:22:38",
20      "updated_at": "2021-03-05 07:02:42"
21    }
22  ]
```

3. Masukkan url "**localhost:8000/api/api_pendidikan/2**" menggunakan method **DELETE** lalu tekan Send dan akan didapatkan pesan bahwa data Pendidikan dihapus.

BKPM - WORKSHOP SISTEM INFORMASI WEB FRAMEWORK

The image contains two side-by-side screenshots of the Postman application interface.

Top Screenshot: A DELETE request is made to `localhost:8000/api/api_pendidikan/2`. The response status is 201 Created, and the response body is:

```
1 "status": "ok",
2 "message": "Pendidikan berhasil dihapus!"
```

Bottom Screenshot: A GET request is made to `localhost:8000/api/api_pendidikan`. The response status is 201 Created, and the response body is a JSON object:

```
1 {
2   "id": 1,
3   "name": "East Blue School",
4   "tingkatan": 6,
5   "tahun_masuk": 2020,
6   "tahun_keluar": 2022,
7   "created_at": "2021-03-04 04:37:46",
8   "updated_at": "2021-03-04 04:37:46"
9 }
```

g. Hasil dan Pembahasan

Format Laporan

Kertas A4

Format *.pdf

Struktur Laporan: Cover, Pendahuluan, Hasil Praktik, Kesimpulan dan Daftar Pustaka

Berikan Identitas Diri: NIM, Nama, Golongan, Tugas Minggu Ke-X

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h. Kesimpulan

1. Mahasiswa memahami dan mengimplementasikan API (*Application Programming Interface*)

i. Rubrik Penilaian

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2	Ketepatan waktu dan Langkah kerja kurang tepat dalam mengerjakan			V	
3	Keterlambatan waktu dan Langkah kerja yang dilakukan kurang tepat		V		
4	Keterlambatan waktu pengumpulan dan Langkah kerja tidak selesai	V			
		Total Skor*		Skor x 25	