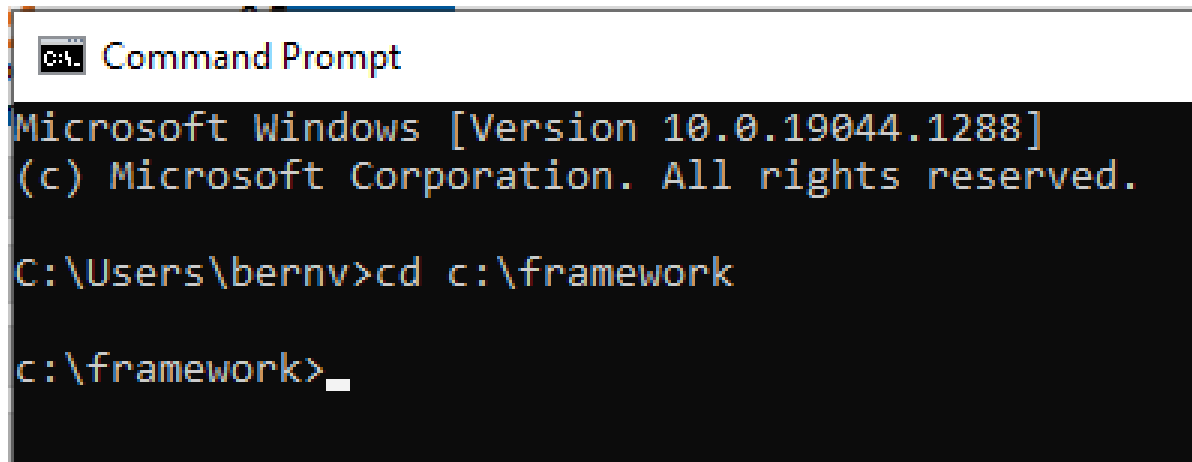# Modul 1

Persiapan – Install – Jalankan – Modifikasi

Persiapan Instalasi (1)

- Install paket Apache, PHP, MySQL, PHPMyAdmin (XAMPP, LAMP)

- Buat folder project di :

  – C:\framework

- Akses folder diatas melalui command prompt

```
Command Prompt

Microsoft Windows [Version 10.0.19044.1288]
(c) Microsoft Corporation. All rights reserved.

C:\Users\bernv>cd c:\framework

c:\framework>_
```

Persiapan Instalasi (2)

- Install composer, ketik/copy 4 baris perintah berikut ke terminal lalu enter

c:\xampp\php\php -r "copy('https://getcomposer.org/installer', 'composer-setup.php');"

c:\xampp\php\php -r "if (hash_file('sha384', 'composer-setup.php') === '55ce33d7678c5a611085589f1f3ddf8b3c52d662cd01d4ba75c0e e0459970c2200a51f492d557530c71c15d8dba01eae') { echo 'Installer verified'; } else { echo 'Installer corrupt'; unlink('composer-setup.php'); } echo PHP_EOL;"

c:\xampp\php\php composer-setup.php

c:\xampp\php\php -r "unlink('composer-setup.php');"

Persiapan Instalasi (3)

- Tampilan instalasi composer

```
c:\framework>c:\xampp\php\php -r "copy('https://getcomposer.org/installer', 'composer-setup.php');"

c:\framework>c:\xampp\php\php -r "if (hash_file('sha384', 'composer-setup.php') === '55ce33d7678c5a611085589f1f3ddf8b3c5
2d662cd01d4ba75c0ee0459970c2200a51f492d557530c71c15d8dba01eae') { echo 'Installer verified'; } else { echo 'Installer co
rrupt'; unlink('composer-setup.php'); } echo PHP_EOL;"
Installer verified

c:\framework>c:\xampp\php\php composer-setup.php
All settings correct for using Composer
Downloading...

Composer (version 2.4.2) successfully installed to: C:\framework\composer.phar
Use it: php composer.phar

c:\framework>c:\xampp\php\php -r "unlink('composer-setup.php');"

c:\framework>_
```

- Cara menggunakan composer

php composer.phar
    -- atau--
c:\xampp\php\php composer.phar

Install laravel

- Buat Laravel project via the Composer create-project command:

c:\xampp\php\php composer.phar create-project laravel/laravel perpus

```
c:\framework>c:\xampp\php\php composer.phar create-project laravel/laravel perpus
Creating a "laravel/laravel" project at "./perpus"
Info from https://repo.packagist.org: #StandWithUkraine
Cannot use laravel/laravel's latest version v9.3.7 as it requires php ^8.0.2 which is not satisfied by your platform.
Installing laravel/laravel (v8.6.12)
  - Downloading laravel/laravel (v8.6.12)
  - Installing laravel/laravel (v8.6.12): Extracting archive
Created project in C:\framework\perpus
> @php -r "file_exists('.env') || copy('.env.example', '.env');"
Loading composer repositories with package information
Updating dependencies
Lock file operations: 106 installs, 0 updates, 0 removals
  - Locking asm89/stack-cors (v2.1.1)
  - Locking brick/math (0.9.3)
  - Locking dflydev/dot-access-data (v3.0.1)
  - Locking doctrine/inflector (2.0.5)
  - Locking doctrine/instantiator (1.4.1)
  - Locking doctrine/lexer (1.2.3)
```

Struktur direktori laravel

Konfigurasi APP_URL (.env)

- buka file **.env** di folder C:\framework\perpus\.env

- Tentukan nama URL Aplikasi (APP_URL) sbb:

```
.env
1    APP_NAME=Laravel
2    APP_ENV=local
3    APP_KEY=base64:0rPkWC7d2RFE8R6bXn+aZqzwzCBJlKYkwYtg2w5sI8A=
4    APP_DEBUG=true
5    APP_URL=http://localhost:8000
6
```
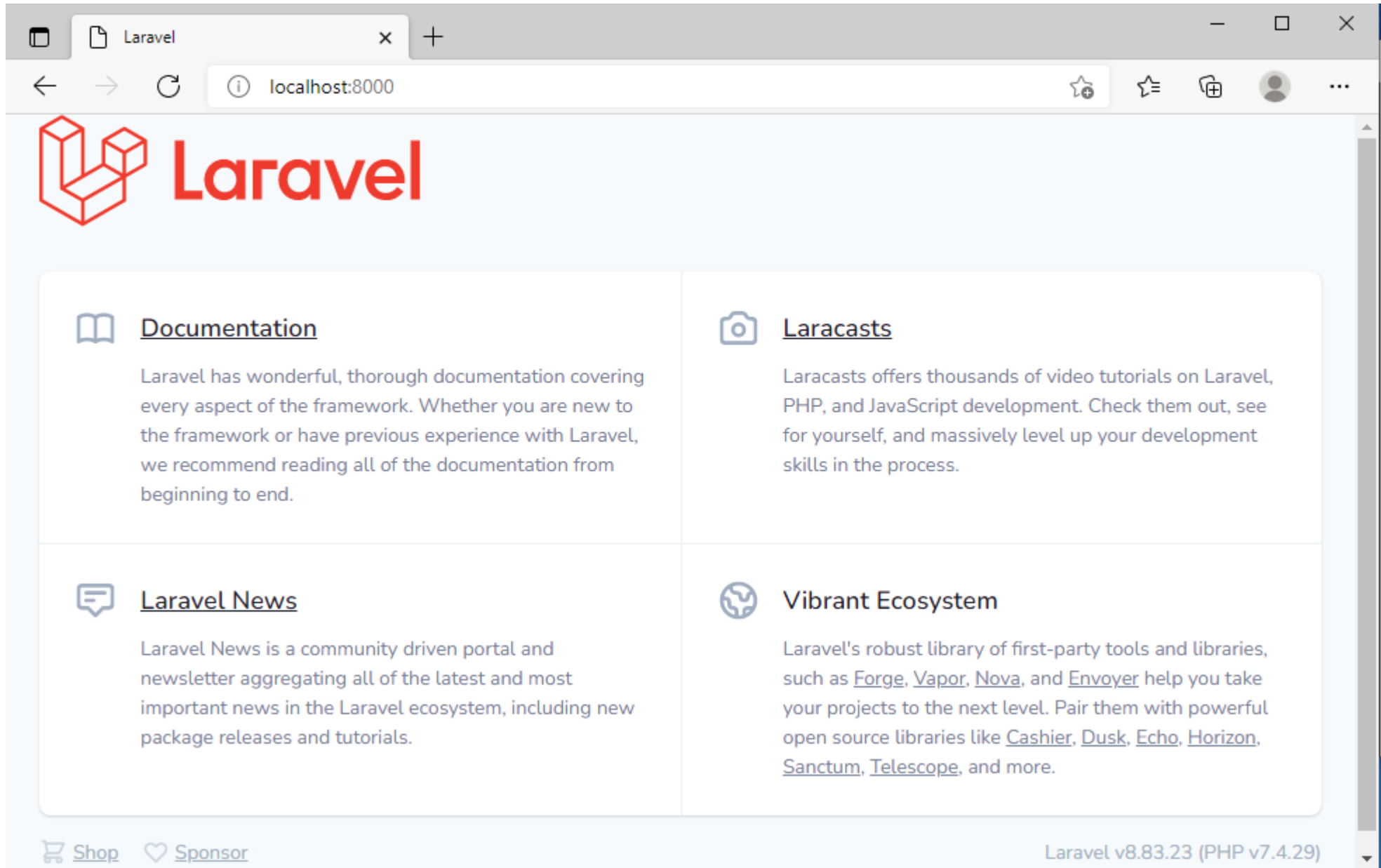
Jalankan Laravel

- Masuk ke folder "perpus"
- Jalankan server menggunakan perintah berikut:
  - c:\xampp\php\php artisan serve
- Akses web melalui alamat:
  - http://localhost:8000

```
c:\framework>cd perpus

c:\framework\perpus>c:\xampp\php\php artisan serve
Starting Laravel development server: http://127.0.0.1:8000
[Wed Sep 14 08:27:19 2022] PHP 7.4.29 Development Server (http://127.0.0.1:8000) started
[Wed Sep 14 08:27:55 2022] 127.0.0.1:62457 Accepted
[Wed Sep 14 08:27:55 2022] 127.0.0.1:53225 Accepted
[Wed Sep 14 08:27:56 2022] 127.0.0.1:62457 Closing
[Wed Sep 14 08:27:56 2022] 127.0.0.1:50505 Accepted
[Wed Sep 14 08:27:57 2022] 127.0.0.1:53225 [200]: GET /favicon.ico
[Wed Sep 14 08:27:57 2022] 127.0.0.1:53225 Closing
```

Tampilan Laravel

Modifikasi View welcome

- Buka file **welcome.blade.php** yang ada di folder:
  - C:\framework\perpus\resources\views\welcome.blade.php
- Lakukan edit pada isi file dengan menambahkan kode berikut pada baris 47 setelah </div>
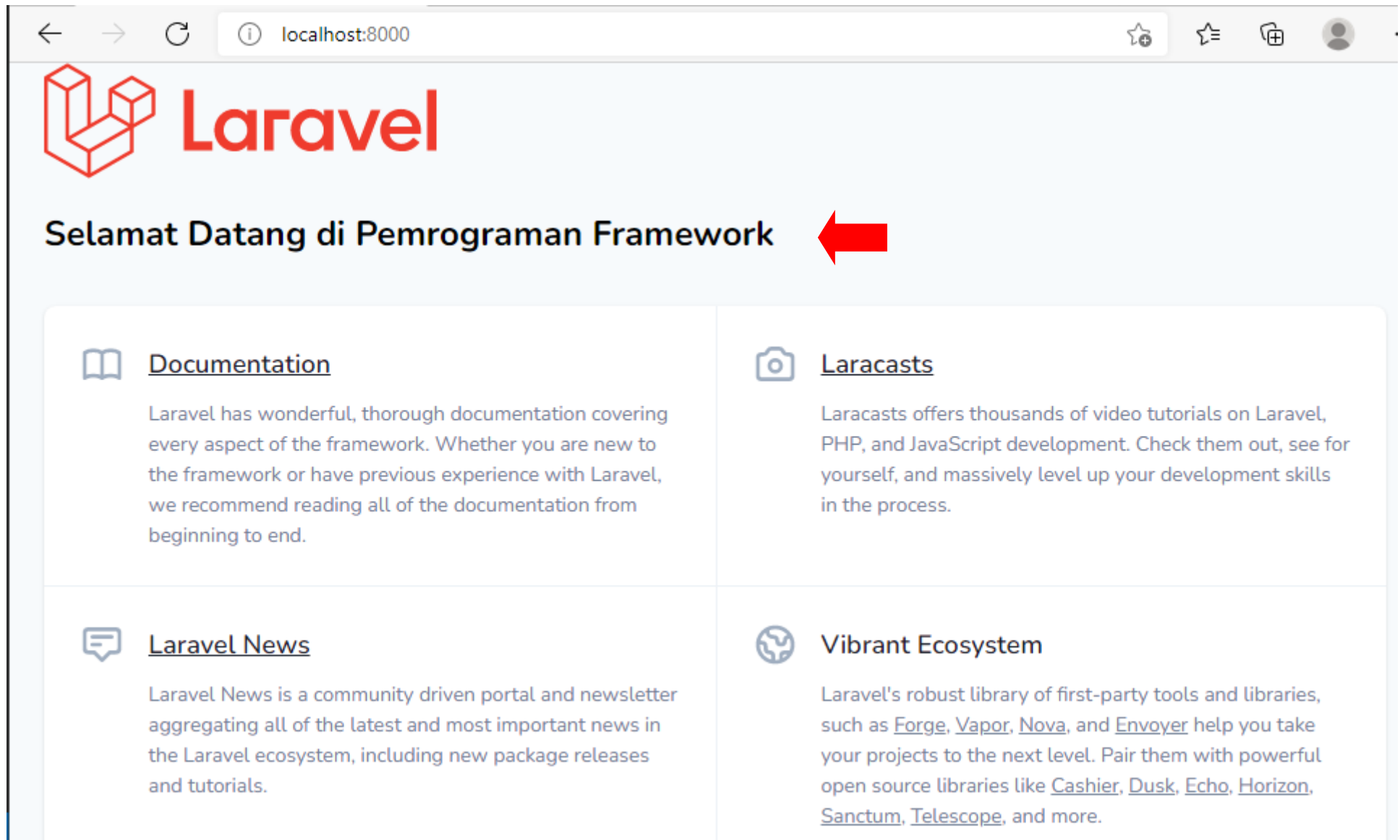
-
```
<div>

    <h2>Selamat Datang di Pemrograman Framework</h2>

</div>
```

- Simpan file
- Refresh halaman web laravel dan lihat perubahan yang terjadi.

Hasil perubahan

Modifikasi Route '/'

- Buka file **web.php** yang ada di folder:
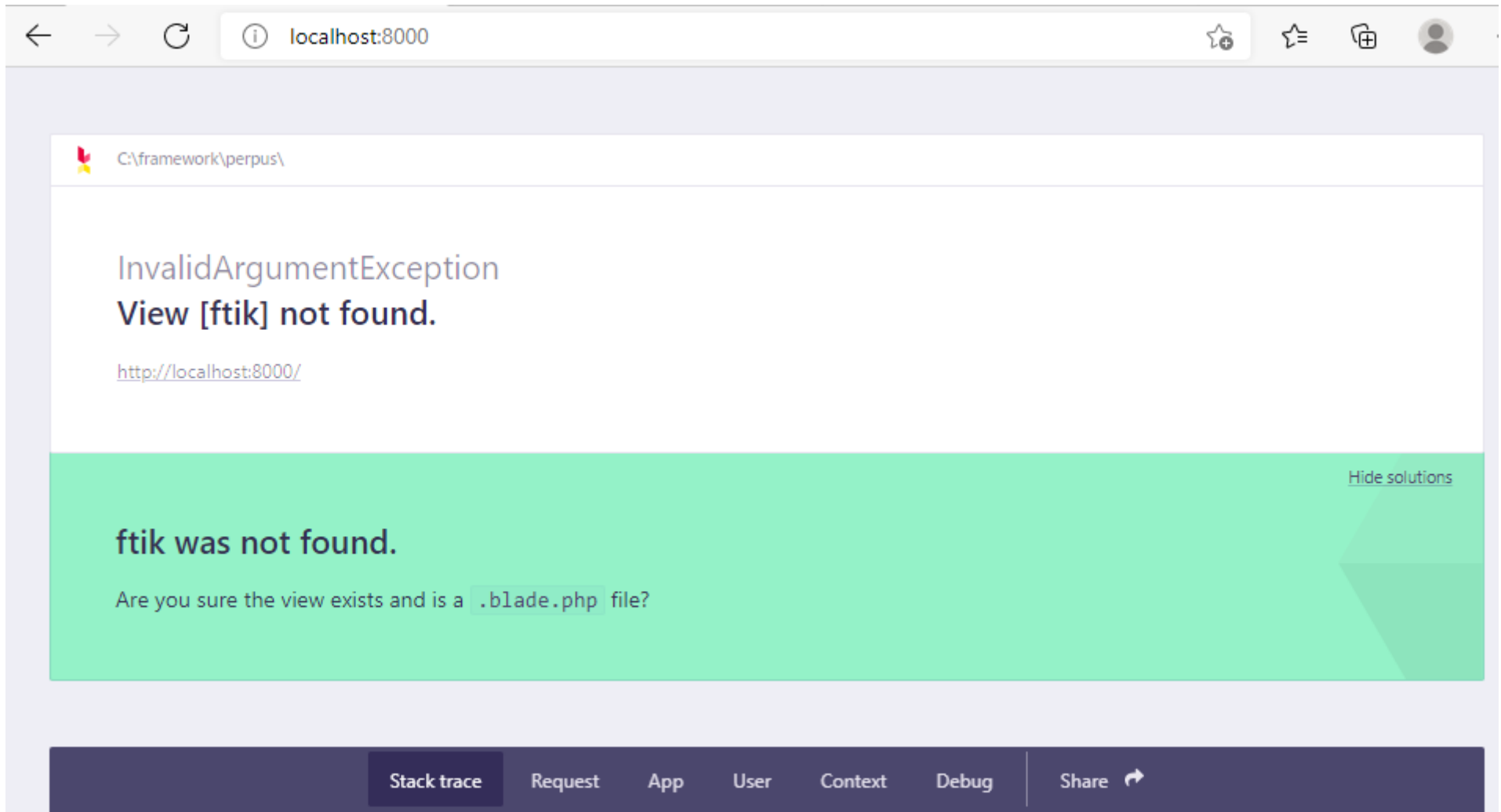 - C:\framework\perpus\routes\web.php
- Lakukan edit pada isi file: welcome → ftik sbb:

```
15
16    Route::get('/', function () {
17        return view('welcome');
18    });
19
```

```
15
16    Route::get('/', function () {
17        return view('ftik');
18    });
19
```

- Simpan file
- Refresh halaman web laravel dan lihat perubahan yang terjadi. *(muncul error)*

Hasil perubahan

Buat File View 'ftik'

- Buat file view **ftik.blade.php** pada folder:

    - C:\framework\perpus\resources\views\ftik.blade.php

- Lakukan edit pada isi file sbb:

-

```
<!DOCTYPE html>
<html>
        <head>
                <title>Fakultas TIK</title>
        </head>
        <body>
                <h1>Selamat Datang di Fakultas TIK</h1>
        </body>
</html>
```

- Simpan file

- Refresh halaman web laravel dan lihat perubahan yang terjadi.

Hasil perubahan

Buat File View 'info'

- Buat file view **info.blade.php** pada folder:
  - C:\framework\perpus\resources\views\info.blade.php
- Lakukan edit pada isi file dan simpan.

```
1   <!DOCTYPE html>
2   <html>
3   <head> <title>Info Mahasiswa</title> </head>
4   <body>
5       <h1>Saya adalah mahasiswa Program Studi:
6       <?php
7       if($progdi=="TI")
8           echo "Tekhnik Informatika";
9       elseif($progdi=="SI")
10          echo "Sistem Informasi";
11      elseif($progdi=="IK")
12          echo "Ilmu Komunikasi";
13      else
14          echo "Tidak ada progdi tersebut di fakultas TIK";
15      ?>
16      </h1>
17      </body>
18  <html>
```

Tambah Route '/info'

- Buka file **web.php** yang ada di folder:
  - C:\framework\perpus\routes\web.php
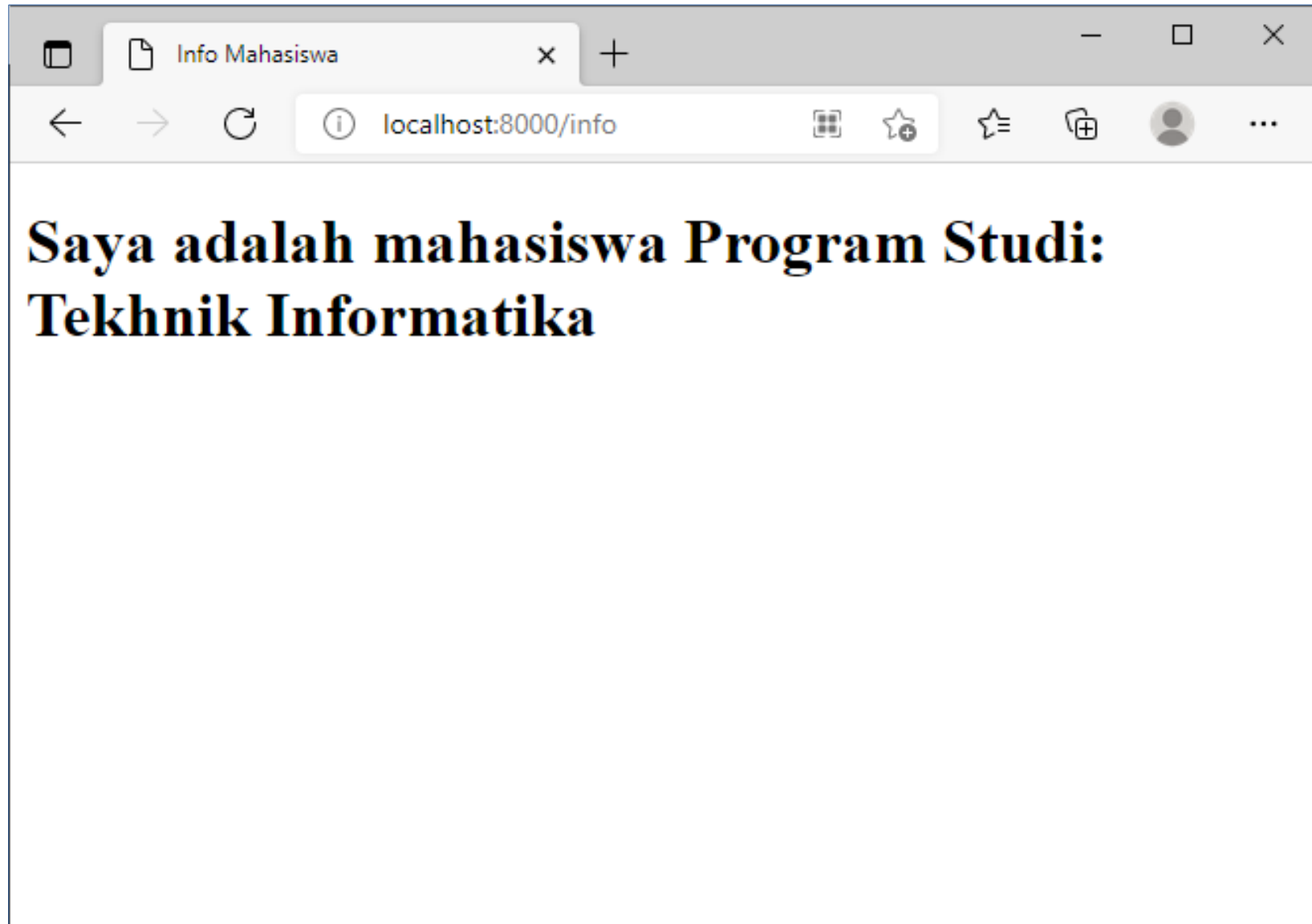- Lakukan edit pada isi file sbb:

```
15
16   Route::get('/', function () {
17       return view('ftik');
18   });
19   Route::get('/info', function () {
20       return view('info',['progdi'=>'TI']);
21   });
```

- Simpan file
- Akses halaman web melalui url

  http://localhost:8000/info

Tampilan

Info Mahasiswa

localhost:8000/info

Saya adalah mahasiswa Program Studi: Tekhnik Informatika

Akses view info melalui Controller (1)

- Buat file controller **InfoController.php** menggunakan artisan:

```
PS C:\framework\perpus> C:\xampp\php\php artisan make:controller infoController
Controller created successfully.
PS C:\framework\perpus>
```

Hasil generate menggunakan artisan:

```
app > Http > Controllers >  infoController.php
1    <?php
2
3    namespace App\Http\Controllers;
4
5    use Illuminate\Http\Request;
6
7    class infoController extends Controller
8    {
9        //
10   }
11
```

Akses view info melalui Controller (2)

- Buat file controller **InfoController.php** pada folder:
  - C:\framework\perpus\app\Http\Controllers\InfoController.php
- Lakukan edit pada file, lalu simpan:

```php
1    <?php
2
3    namespace App\Http\Controllers;
4
5    use App\Http\Controllers\Controller;
6
7    class InfoController extends Controller
8    {
9        public function infoMhs($kd)
10       {
11           return view('info',['progdi'=>$kd]);
12       }
13   }
```

Tambah Route '/info/{kd}'

- Buka file **web.php** yang ada di folder:

  - C:\framework\perpus\routes\web.php

- Lakukan edit pada isi file sbb:

```php
16    Route::get('/', function () {
17        return view('ftik');
18    });
19    Route::get('/info', function () {
20        return view('info',['progdi'=>'TI']);
21    });
22
23    use App\Http\Controllers\InfoController;
24    Route::get('/info/{kd}', [InfoController::class, 'infoMhs']);
```

- Simpan file

Tampilan

- Akses halaman web melalui url:

  – http://localhost:8000/info/{kd}

  – kd diisi : TI, SI, IK