Form

Universitas Multi Data Palembang

CSRF Protection

- Berfungsi untuk melindungi aplikasi dari serangan Cross-site Request Forgery (CSRF)
- CSRF merupakan celah keamanan dengan mengirim form yang nilainya sudah dimanipulasi
- Laravel mewajibkan setiap form memiliki input yang menyimpan token CSRF.
- Dengan blade, input token CSRF dapat dibuat dengan perintah @csrf

Route – prodi/create

- Buka file routes/web.php
- Tambahkan route berikut

```
63    Route::get('/prodi/create', [ProdiController::class, 'create']);
```

Controller – create()

- Buka file app/Http/Controllers/ProdiController.php
- Buat method create()

```
75      public function create()
76      {
77          return view('prodi.create');
78      }
```

View – create.blade.php

- Buat file resources/views/prodi/create.blade.php

```php
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta http-equiv="X-UA-Compatible" content="ie=edge">
    <title>Form Prodi</title>
    <link rel="stylesheet" href="{{ asset('css/bootstrap.min.css') }}">
</head>
<body>
    <div class="container">
        <div class="row pt-4">
            <div class="col">
                <h2>Form Prodi</h2>
                <form action="{{url('prodi/store')}}" method="post">
                    @csrf
                    <div class="form-group">
                        <label for="nama">Nama</label>
                        <input type="text" name="nama" id="nama" class="form-control">
                    </div>
                    <button type="submit" class="btn btn-primary mt-2">Simpan</button>
                </form>
            </div>
        </div>
    </div>
</body>
</html>
```

```php
<h2>Form Prodi</h2>
<form action="http://127.0.0.1:8000/prodi/store" method="post">
    <input type="hidden" name="_token" value="Qi5kFmEnEpDcTFgwArz2PEP2FW2f6IJK4kXm8e3N">
        <label for="nama">Nama</label>
        <input type="text" name="nama" id="nama" class="form-control">
    </div>
    <button type="submit" class="btn btn-primary mt-2">Simpan</button>
</form>
```

Route – prodi/store

- Buka file routes/web.php
- Tambahkan route berikut ini

```
64    Route::post('prodi/store', [ProdiController::class, 'store']);
```

Controller – store()

- Buka file app/Http/Controllers/ProdiController.php
- Buat method store(Request $request)
- Laravel menggunakan **Request object** untuk menyimpan semua inputan form

```php
public function store(Request $request)
{
    dump($request);
}
```

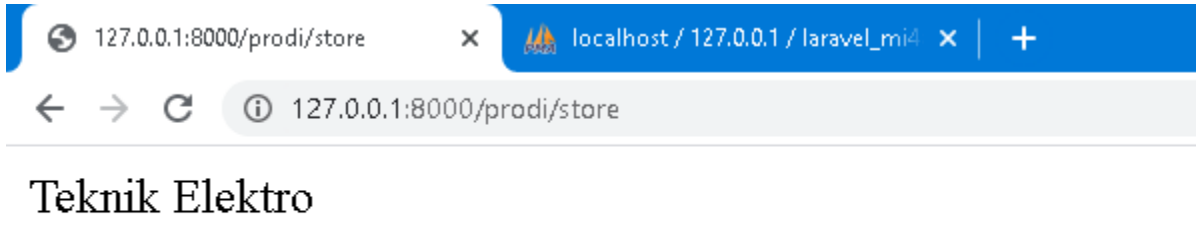
127.0.0.1:8000/prodi/store

```
Illuminate\Http\Request {#43 ▼
  #json: null
  #convertedFiles: null
  #userResolver: Closure($guard = null) {#371 ▶}
  #routeResolver: Closure() {#381 ▶}
  +attributes: Symfony\…\ParameterBag {#45 ▶}
  +request: Symfony\…\ParameterBag {#44 ▼
    #parameters: array:2 [▼
      "_token" => "Qi5kFmEnEpDcTFgwArz2PEP2FW2f6IJK4kXm8e3N"
      "nama" => "Teknik Elektro"
    ]
  }
  +query: Symfony\…\InputBag {#51 ▶}
```

Mengambil nilai input form

- Untuk mengambil nilai input nama prodi menggunakan **$request->nama**

```
public function store(Request $request)
{
    // dump($request);
    echo $request->nama;
}
```



- Cara lain mengakses nilai input form
  - $request->input(‘nama’)
  - request(‘nama’)

Validasi Form

- Validasi merupakan proses pemeriksaan input form apakah sesuai dengan data yang diinginkan
- Contoh:
  Nomor Pokok Mahasiswa harus 10 digit
  Email harus ada @
- Proses validasi pada Laravel dapat menggunakan method validate()

Validasi Form

- Ubah method store() pada ProdiController.php

```php
public function store(Request $request)
{
    // dump($request);
    // echo $request->nama;

    $validateData = $request->validate([
        'nama' => 'required|min:5|max:20',
    ]);
    dump($validateData);
    echo $validateData['nama'];
}
```

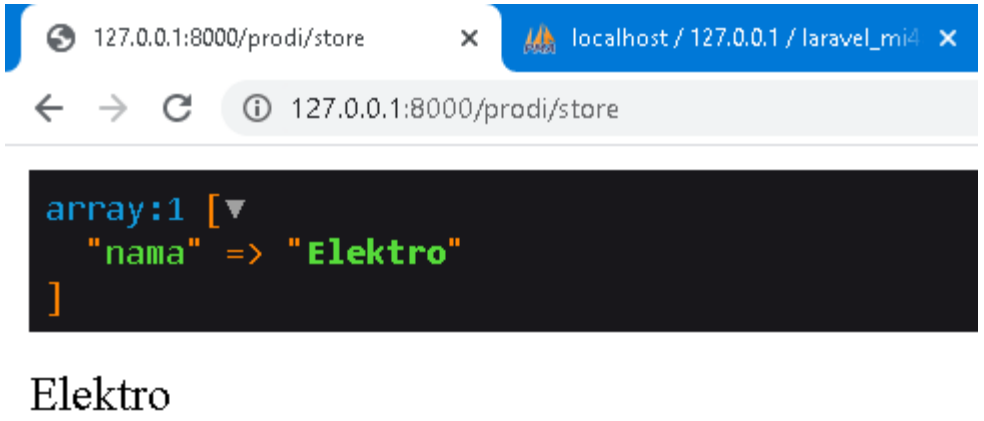
Validasi Form

- Ubah file resources/views/prodi/create.blade.php
- Tampilkan pesan error validasi
- Repopulate input form

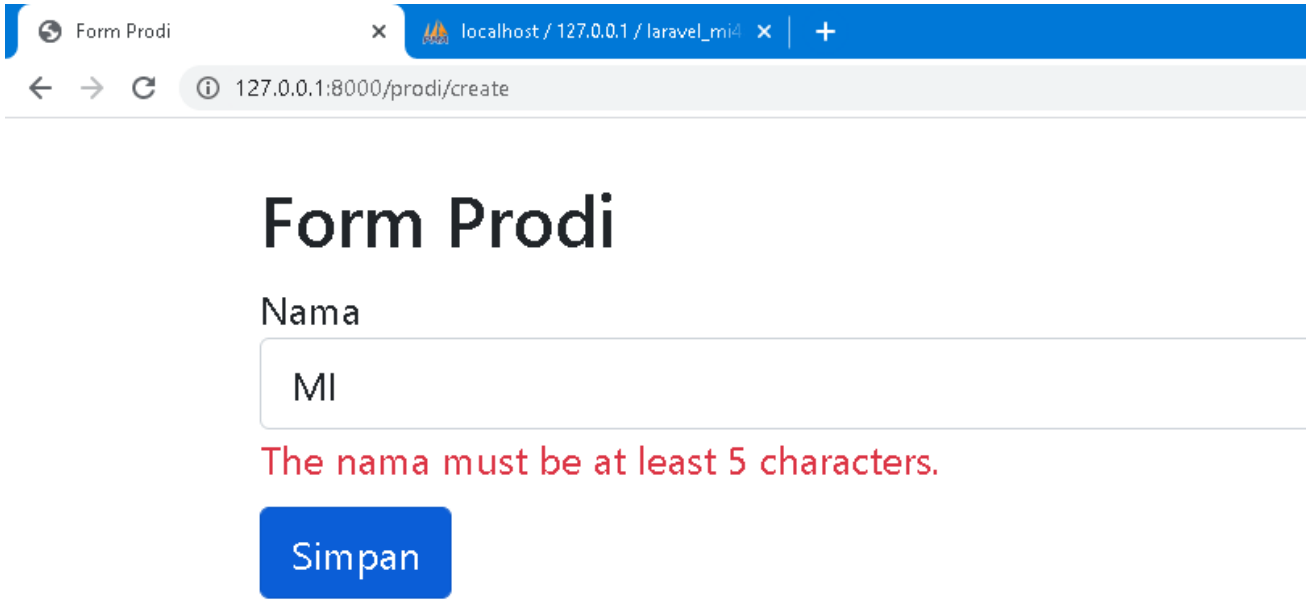
```
<h2>Form Prodi</h2>
<form action="{{url('prodi/store')}}" method="post">
    @csrf
    <div class="form-group">
        <label for="nama">Nama</label>
        <input type="text" name="nama" id="nama" class="form-control"
        value="{{ old('nama') }}">
        @error('nama')
            <div class="text-danger"> {{ $message }} </div>
        @enderror
    </div>
    <button type="submit" class="btn btn-primary mt-2">Simpan</button>
</form>
```

Validasi Form

Validasi berhasil



Validasi gagal



Validasi Form + Insert ke tabel Prodis

- Ubah method store() pada ProdiController.php

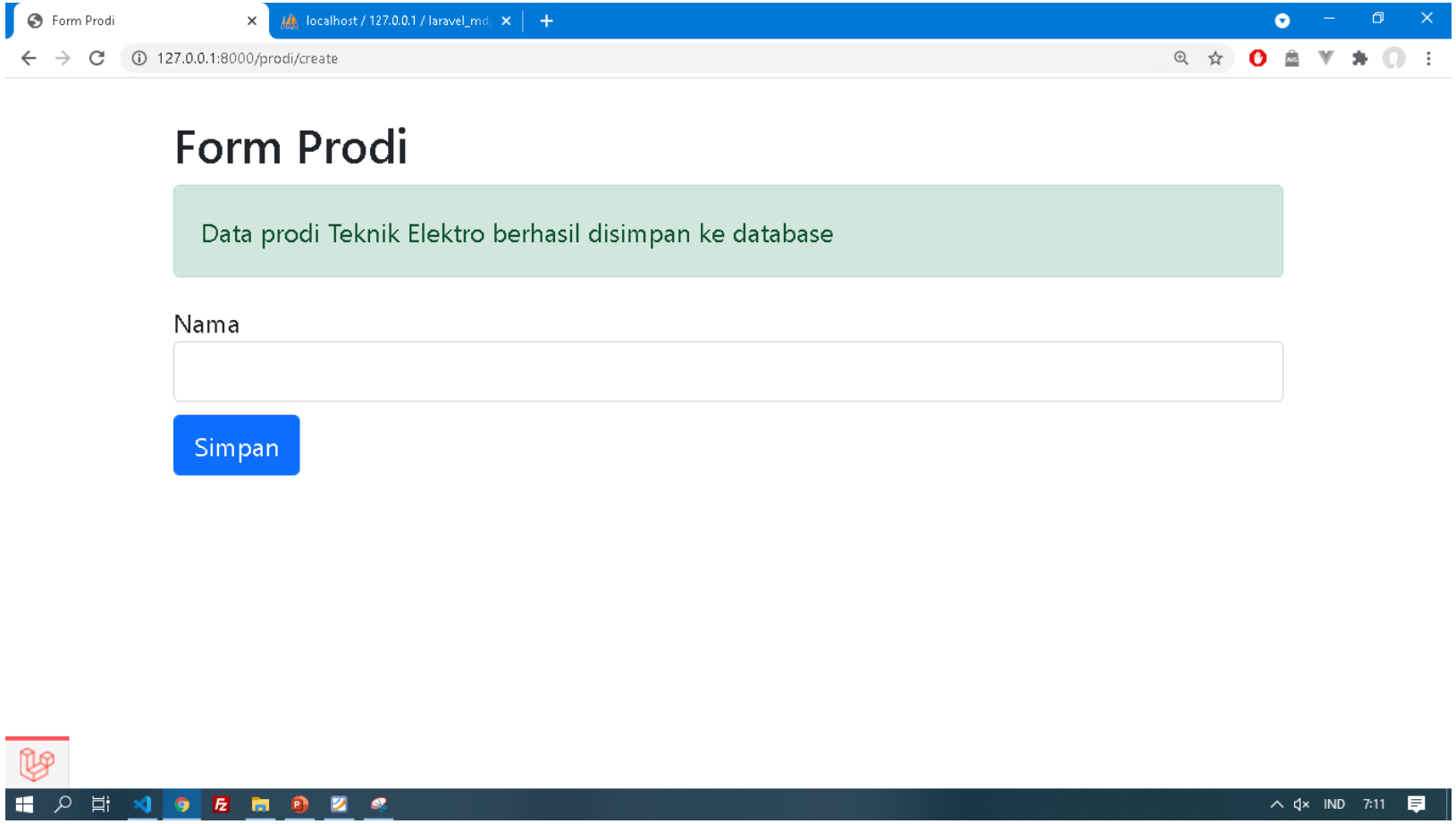
```php
public function store(Request $request)
{
    // dump($request);
    // echo $request->nama;

    $validateData = $request->validate([
        'nama' => 'required|min:5|max:20',
    ]);
    // dump($validateData);
    // echo $validateData['nama'];

    $prodi = new Prodi(); // buat object prodi
    $prodi->nama = $validateData['nama']; // simpan nilai input ($validateData['nama']) ke dalam
    property nama prodi ($prodi->nama)
    $prodi->save(); // simpan ke dalam tabel prodis

    // return "Data prodi $prodi->nama berhasil disimpan ke database"; // tampilkan pesan berhasil
    $request->session()->flash('info', "Data prodi $prodi->nama berhasil disimpan ke database");
    return redirect()->route('prodi.create');
}
```

Validasi Form + Insert ke tabel Prodis

- Ubah file resources/views/prodi/create.blade.php
- Tampilan pesan berhasil

```
<h2>Form Prodi</h2>
@if (session()->has('info'))
<div class="alert alert-success">
    {{ session()->get('info') }}
</div>
@endif
<form action="{{url('prodi/store')}}" method="post">
    @csrf
    <div class="form-group">
        <label for="nama">Nama</label>
        <input type="text" name="nama" id="nama" class="form-control"
        value="{{ old('nama') }}">
        @error('nama')
            <div class="text-danger"> {{ $message }} </div>
        @enderror
    </div>
    <button type="submit" class="btn btn-primary mt-2">Simpan</button>
</form>
```

Hasil


Form Prodi
localhost / 127.0.0.1 / laravel_mdi
127.0.0.1:8000/prodi/create
Form Prodi
Data prodi Teknik Elektro berhasil disimpan ke database
Nama
Simpan
IND
7:11

Hasil

Showing rows 0 - 3 (4 total, Query took 0.0020 seconds.)

```
SELECT * FROM `prodis`
```

Show all | Number of rows: 25 Filter rows: Search this table Sort by key:

+ Options

←T→				id	nama	created_at	updated_at
Edit	Copy	Delete		1	Teknik Informatika	2021-05-04 09:13:15	2021-05-04 09:13:15
Edit	Copy	Delete		2	Manajemen Informatika	2021-05-04 09:13:15	2021-05-04 09:13:15
Edit	Copy	Delete		3	Sistem Informasi	2021-05-04 09:13:15	2021-05-04 09:13:15
Edit	Copy	Delete		4	Teknik Elektro	2021-05-07 23:50:36	2021-05-07 23:50:36