

Laporan Modul 5: Form Submission & Data Validation

Mata Kuliah: Workshop Web Lanjut

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Abstrak

Laporan praktikum ini membahas penerapan Form Submission dan Data Validation pada framework Laravel. Tujuan praktikum ini adalah memahami alur request–response, proses validasi data input pengguna, dan mekanisme keamanan seperti CSRF Protection. Melalui beberapa praktikum, peserta mempelajari bagaimana Laravel memproses form secara aman, menampilkan pesan error yang informatif, serta mengimplementasikan multi-step form dengan penyimpanan data di session. Hasil percobaan menunjukkan bahwa sistem validasi Laravel mampu meningkatkan keamanan, keandalan, dan pengalaman pengguna dalam pengisian form web.

1. Dasar Teori

Form Submission dan Arsitektur Request–Response

Laravel menggunakan arsitektur MVC (Model–View–Controller) untuk menangani pengiriman data dari form.

- **View:** Menyediakan tampilan HTML dan form untuk diisi pengguna.
- **Controller:** Menerima data dari form, memvalidasi, dan menentukan respon selanjutnya.
- **Model:** Berinteraksi dengan database jika data perlu disimpan.

Proses kerja:

1. Pengguna mengisi form dan menekan submit.
2. Browser mengirimkan HTTP request (biasanya POST) ke server.
3. Laravel memproses melalui middleware (termasuk CSRF verification).
4. Controller memvalidasi data, lalu mengembalikan response — entah view sukses, error, atau redirect.

HTTP Methods

Laravel mendukung berbagai metode HTTP:

- **POST** → menambah data baru
- **PUT/PATCH** → mengubah data
- **DELETE** → menghapus data
- **GET** → mengambil data

Karena HTML form hanya mendukung **GET** dan **POST**, Laravel menggunakan method spoofing dengan `@method('PUT')` untuk simulasi metode lain.

CSRF Protection

Cross-Site Request Forgery (CSRF) adalah serangan yang memanfaatkan autentikasi pengguna aktif untuk melakukan aksi tanpa izin. Laravel melindungi setiap form dengan CSRF token:

- Token unik dibuat untuk setiap session.
- Token disertakan dalam form menggunakan `@csrf`.
- Middleware `VerifyCsrfToken` membandingkan token dari form dan session.

Jika token tidak cocok, Laravel otomatis menolak request dengan error 419.

Contoh:

```
<form method="POST" action="/submit">
    @csrf
    <input type="text" name="name">
</form>
```

Data Validation

Validasi data adalah proses memastikan input pengguna memenuhi aturan tertentu. Laravel menyediakan sistem validasi yang mudah digunakan dan fleksibel.

Jenis Validasi

1. Inline Validation (Controller)

```
$request->validate([
    'email' => 'required|email',
    'password' => 'required|min:8'
]);
```

2. Form Request Validation

- Membuat class validasi khusus dengan `php artisan make:request`.
- Cocok untuk form kompleks dan reuse logic.

3. Manual Validation

```
$validator = Validator::make($request->all(), [
    'name' => 'required'
]);
```

Contoh Rules

- **Basic:** `required`, `nullable`, `sometimes`
- **Type Data:** `string`, `numeric`, `boolean`, `array`
- **Ukuran:** `min`, `max`, `between`
- **Database:** `unique`, `exists`
- **Format:** `email`, `url`, `regex`
- **Kondisional:** `required_if`, `required_with`, dll

Pesan Error

Laravel menyimpan pesan error ke dalam `$errors`. Di view:

```
@error('email')
    <div class="text-danger">{{ $message }}</div>
@enderror
```

Untuk menampilkan semua error:

```
@if ($errors->any())
    <ul>
        @foreach ($errors->all() as $error)
            <li>{{ $error }}</li>
        @endforeach
    </ul>
@endif
```

Custom Validation

Laravel memungkinkan membuat rule atau pesan error kustom:

```
$request->validate([
    'email' => 'required|email'
], [
    'email.required' => 'Email wajib diisi!',
    'email.email' => 'Format email tidak valid!'
]);
```

Old Input

Fitur `old()` mempertahankan input pengguna setelah validasi gagal, sehingga form tidak kosong saat reload:

```
<input type="text" name="name" value="{{ old('name') }}">
```

2. Langkah-Langkah Praktikum

2.1 Praktikum 1 – Form Submission dan Validasi Dasar

Langkah-langkah:

1. Buat Proyek laravel pada terminal vscode

```
laravel new form-app
```

lalu masuk ke dalam folder proyek tsb.

```
cd form-app
```

2. Tambahkan route pada `routes/web.php`.

```
use App\Http\Controllers\FormController;

Route::get('/form', [FormController::class, 'showForm'])->
>name('form.show');
Route::post('/form', [FormController::class, 'handleForm'])->
>name('form.handle');
Route::get('/result', [FormController::class, 'showResult'])->
>name('form.result');
```

3. Buat controller `FormController`.

Buat file `FormController` dengan perintah artisan:

```
php artisan make:controller FormController
```

Masuk ke file `app/Http/Controllers/FormController` dan isikan code berikut pada class `FormController`:

```
public function showForm()
{
```

```

        return view('form');
    }

    public function handleForm(Request $request)
    {
        $validated = $request->validate([
            'name' => 'required|string|max:255',
            'email' => 'required|email',
            'age' => 'required|integer|min:1',
            'password' => 'required|min:6',
            'gender' => 'required',
            'role' => 'required',
            'bio' => 'required',
            'confirm' => 'accepted',
        ]);

        return redirect()->route('form.result')->with('data', $validated);
    }

    public function showResult()
    {
        $data = session('data');
        return view('result', compact('data'));
    }

```

4. Buat view form.blade.php.

Buat file `form.blade.php` di `resources\views` lalu masukkan kode berikut:

```

<!DOCTYPE html>
<html>
<head>
    <title>Pengiriman Form</title>
    <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.cs
s" rel="stylesheet">
</head>
<body class="container mt-5">
    <h2>Form Registrasi</h2>
    <form method="POST" action="{{ route('form.handle') }}">
        @csrf
        <div class="mb-3">
            <label>Nama</label>
            <input type="text" name="name" class="form-control" value="{{
old('name') }}">
            @error('name') <div class="text-danger">{{ $message }}</div>
        @enderror
        </div>
        <div class="mb-3">

```

```

        <label>Email</label>
        <input type="email" name="email" class="form-control" value="{{
old('email') }}">
        @error('email') <div class="text-danger">{{ $message }}</div>
@enderror
    </div>
    <div class="mb-3">
        <label>Umur</label>
        <input type="number" name="age" class="form-control" value="{{
old('age') }}">
        @error('age') <div class="text-danger">{{ $message }}</div>
@enderror
    </div>
    <div class="mb-3">
        <label>Password</label>
        <input type="password" name="password" class="form-control">
        @error('password') <div class="text-danger">{{ $message }}
</div> @enderror
    </div>
    <div class="mb-3">
        <label>Jenis Kelamin</label><br>
        <div class="form-check form-check-inline">
            <input class="form-check-input" type="radio" name="gender"
value="male"> Laki-laki
        </div>
        <div class="form-check form-check-inline">
            <input class="form-check-input" type="radio" name="gender"
value="female"> Perempuan
        </div>
        @error('gender') <div class="text-danger">{{ $message }}</div>
@enderror
    </div>
    <div class="mb-3">
        <label>Role</label>
        <select name="role" class="form-select">
            <option value="">-- Pilih Role --</option>
            <option value="user">User</option>
            <option value="admin">Admin</option>
        </select>
        @error('role') <div class="text-danger">{{ $message }}</div>
@enderror
    </div>
    <div class="mb-3">
        <label>Bio</label>
        <textarea name="bio" class="form-control">{{ old('bio') }}
</textarea>
        @error('bio') <div class="text-danger">{{ $message }}</div>
@enderror
    </div>
    <div class="form-check mb-3">
        <input type="checkbox" id="confirm" name="confirm" class="form-

```

```

check-input">
    <label class="form-check-label" for="confirm">Saya konfirmasi
informasi sudah benar</label>
    @error('confirm') <div class="text-danger">{{ $message }}</div>
@enderror
</div>
    <button type="submit" class="btn btn-primary" id="submitBtn"
disabled>Submit</button>
</form>

    <script>
        document.getElementById('confirm').addEventListener('change',
function() {
            document.getElementById('submitBtn').disabled = !this.checked;
        });
    </script>
</body>
</html>

```

5. Buat view result.blade.php.

Buat file **result.blade.php** di **resources\views** lalu masukkan kode berikut:

```

<!DOCTYPE html>
<html>
<head>
    <title>Hasil Form</title>
    <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.cs
s" rel="stylesheet">
</head>
<body class="container mt-5">
    <h2>Data Form yang Dikirim</h2>
    @if ($data)
        <ul class="list-group">
            @foreach ($data as $key => $value)
                <li class="list-group-item"><strong>{{ ucfirst($key) }}:
</strong> {{ $value }}</li>
            @endforeach
        </ul>
    @else
        <p>Tidak ada data tersedia.</p>
    @endif
</body>
</html>

```

6. Jalankan aplikasi dan tunjukkan hasil di browser.

Untuk menjalankan aplikasi kita bisa menggunakan perintah artisan berikut:

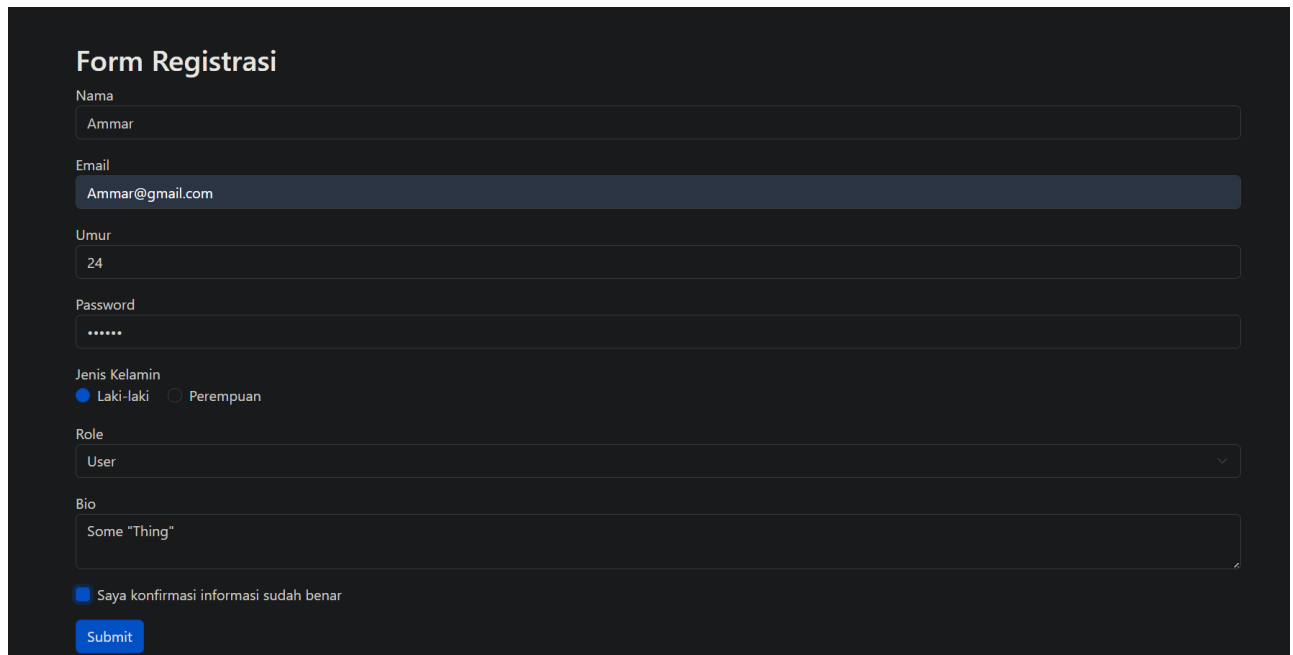
```
php artisan serve
```

lalu ctrl+klik <http://127.0.0.1:8000> sehingga akan diredirect ke web browser.

pada URL masukkan `/form` agar masuk ke halaman web yang telah kita buat.

Screenshot Hasil:

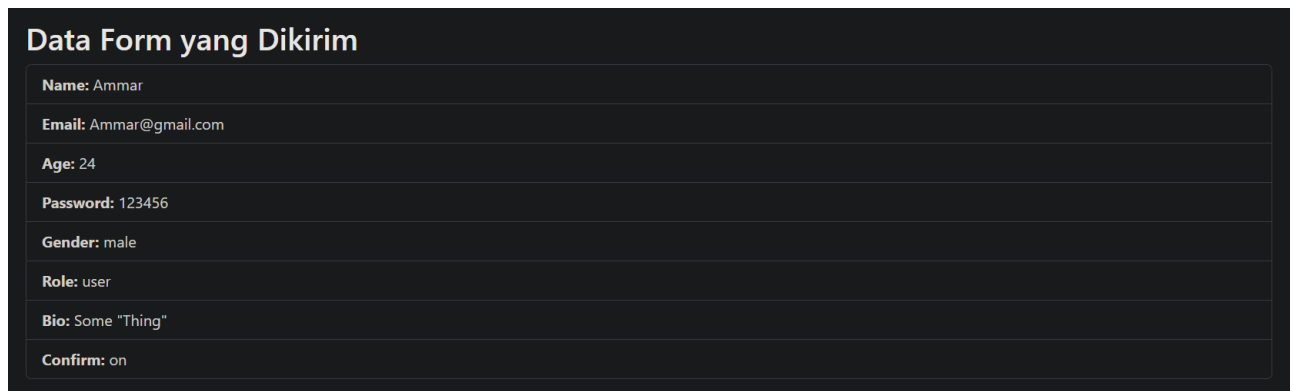
- Form



The screenshot shows a registration form with the following fields and values:

- Nama:** Ammar
- Email:** Ammar@gmail.com
- Umur:** 24
- Password:** 123456
- Jenis Kelamin:** Laki-laki (selected), Perempuan
- Role:** User (selected from a dropdown)
- Bio:** Some "Thing"
- Confirmation:** ☒ Saya konfirmasi informasi sudah benar
- Submit Button:** Submit

- Hasil submit



The screenshot shows the submitted form data in a table-like structure:

Name:	Ammar
Email:	Ammar@gmail.com
Age:	24
Password:	123456
Gender:	male
Role:	user
Bio:	Some "Thing"
Confirm:	on

- Form Error (Kosong)

The screenshot shows a registration form titled "Form Registrasi" on a dark background. The form contains several input fields, each with a red error message below it indicating it is required:

- Nama**: The name field is required.
- Email**: The email field is required.
- Umur**: The age field is required.
- Password**: The password field is required.
- Jenis Kelamin**: Radio buttons for "Laki-laki" and "Perempuan". The gender field is required.
- Role**: A dropdown menu with "-- Pilih Role --". The role field is required.
- Bio**: A text area. The bio field is required.

2.2 Praktikum 2 – Custom Validation Message

1. Pada proyek form-app tambahkan route pada routes/web.php.

```
use App\Http\Controllers\RegisterController;

Route::get('/register', [RegisterController::class, 'showForm'])-
>name('register.show');
Route::post('/register', [RegisterController::class, 'handleForm'])-
>name('register.handle');
```

2. Buat controller RegisterController.

Buat file RegisterController dengan perintah artisan:

```
php artisan make:controller RegisterController
```

Masuk ke file `app/Http/Controllers/RegisterController` dan isikan code berikut pada class RegisterController:

```
public function showForm()
{
    return view('register');
}

public function handleForm(Request $request)
{

```

```

$customMessages = [
    'name.required' => 'Kami perlu tahu nama Anda!',
    'email.required' => 'Email Anda penting bagi kami.',
    'email.email' => 'Hmm... itu tidak terlihat seperti email yang
valid.',
    'password.required' => 'Jangan lupa untuk set password.',
    'password.min' => 'Password harus minimal :min karakter.',
    'username.regex' => 'Username hanya boleh berisi huruf dan angka.',
];

$request->validate([
    'name' => 'required|string|max:100',
    'email' => 'required|email',
    'username' => ['required', 'regex:/^[a-zA-Z0-9]+$/' ],
    'password' => 'required|min:6',
], $customMessages);

return redirect()->route('register.show')->with('success', 'Registrasi
berhasil!');
}

```

3. Buat view register.blade.php.

Buat file `register.blade.php` di `resources\views` lalu masukkan kode berikut:

```

<!DOCTYPE html>
<html>
<head>
    <title>Form Register</title>
    <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.cs
s" rel="stylesheet">
</head>
<body class="container mt-5">
    <h2>Contoh Validasi Kustom</h2>

    @if (session('success'))
        <div class="alert alert-success">
            {{ session('success') }}
        </div>
    @endif

    <form method="POST" action="{{ route('register.handle') }}">
        @csrf
        <div class="mb-3">
            <label for="name">Nama Lengkap</label>
            <input name="name" class="form-control" value="{{ old('name')
}}">

            @error('name') <div class="text-danger">{{ $message }}</div>

```

```
@enderror
    </div>
    <div class="mb-3">
        <label for="email">Alamat Email</label>
        <input name="email" class="form-control" value="{{ old('email')
    }}">
        @error('email') <div class="text-danger">{{ $message }}</div>
    @enderror
    </div>
    <div class="mb-3">
        <label for="username">Username</label>
        <input name="username" class="form-control" value="{{
old('username') }}">
        @error('username') <div class="text-danger">{{ $message }}
    </div> @enderror
    </div>
    <div class="mb-3">
        <label for="password">Password</label>
        @error('password') <div class="text-danger">{{ $message }}
    </div> @enderror
        <input type="password" name="password" class="form-control">
    </div>
    <button type="submit" class="btn btn-primary">Register</button>
</form>
</body>
</html>
```

4. Jalankan aplikasi dan tunjukkan hasil di browser.

Untuk menjalankan aplikasi kita bisa menggunakan perintah artisan berikut:

```
php artisan serve
```

lalu ctrl+klik <http://127.0.0.1:8000> sehingga akan diredirect ke web browser.

pada URL masukkan [/register](#) agar masuk ke halaman web yang telah kita buat.

Screenshot Hasil:

- Form

Contoh Validasi Kustom

Nama Lengkap

Alamat Email

Username

Password

- Berhasil

Registrasi berhasil!

- Form Error (Kosong)

Contoh Validasi Kustom

Nama Lengkap

Kami perlu tahu nama Anda!

Alamat Email

Email Anda penting bagi kami.

Username

The username field is required.

Password

Jangan lupa untuk set password.

- Form Error (Tidak sesuai Aturan Validasi)

Contoh Validasi Kustom

Nama Lengkap

Alamat Email

Hmm... itu tidak terlihat seperti email yang valid.

Username

Username hanya boleh berisi huruf dan angka.

Password

Password harus minimal 6 karakter.

2.3 Praktikum 3 – Multi-Step Form Submission

1. Buat Projek laravel pada terminal vscode

```
laravel new multistep-form-app
```

lalu masuk ke dalam folder proyek tsb.

```
cd multistep-form-app
```

2. Tambahkan route pada routes/web.php.

```
use App\Http\Controllers\MultiStepFormController;

Route::get('/multistep', [MultiStepFormController::class, 'showStep1'])->
>name('multistep.step1');
Route::post('/multistep/step1', [MultiStepFormController::class,
'storeStep1'])->>name('multistep.storeStep1');
Route::get('/multistep/step2', [MultiStepFormController::class,
'showStep2'])->>name('multistep.step2');
Route::post('/multistep/step2', [MultiStepFormController::class,
'storeStep2'])->>name('multistep.storeStep2');
Route::get('/multistep/step3', [MultiStepFormController::class,
'showStep3'])->>name('multistep.step3');
Route::post('/multistep/step3', [MultiStepFormController::class,
'storeStep3'])->>name('multistep.storeStep3');
Route::get('/multistep/summary', [MultiStepFormController::class,
'showSummary'])->>name('multistep.summary');
Route::post('/multistep/complete', [MultiStepFormController::class,
'complete'])->>name('multistep.complete');
```

3. Buat controller MultiStepFormController.

Buat file MultiStepFormController dengan perintah artisan:

```
php artisan make:controller MultiStepFormController
```

Masuk ke file `app/Http/Controllers/MultiStepFormController` dan isikan code berikut pada class MultiStepFormController:

```
// Step 1 - Informasi Pribadi
public function showStep1()
{
    return view('multistep.step1', [
        'step' => 1,
        'progress' => 0
    ]);
}

public function storeStep1(Request $request)
```

```
{
    $validated = $request->validate([
        'full_name' => 'required|string|max:100',
        'email' => 'required|email',
        'phone' => 'required|string|max:15',
        'address' => 'required|string|max:200',
    ]);

    // Simpan data ke session
    session(['step1_data' => $validated]);

    return redirect()->route('multistep.step2');
}

// Step 2 - Informasi Pendidikan
public function showStep2()
{
    if (!session('step1_data')) {
        return redirect()->route('multistep.step1');
    }

    return view('multistep.step2', [
        'step' => 2,
        'progress' => 33
    ]);
}

public function storeStep2(Request $request)
{
    $validated = $request->validate([
        'education' => 'required|string|max:50',
        'institution' => 'required|string|max:100',
        'graduation_year' => 'required|integer|min:1900|max:' . date('Y'),
        'major' => 'required|string|max:100',
    ]);

    session(['step2_data' => $validated]);

    return redirect()->route('multistep.step3');
}

// Step 3 - Pengalaman Kerja
public function showStep3()
{
    if (!session('step1_data') || !session('step2_data')) {
        return redirect()->route('multistep.step1');
    }

    return view('multistep.step3', [
        'step' => 3,
        'progress' => 66
    ]);
}
```

```
    ]]);
}

public function storeStep3(Request $request)
{
    $validated = $request->validate([
        'current_job' => 'nullable|string|max:100',
        'company' => 'nullable|string|max:100',
        'experience_years' => 'required|integer|min:0|max:50',
        'skills' => 'required|string|max:200',
    ]);

    session(['step3_data' => $validated]);

    return redirect()->route('multistep.summary');
}

// Summary - Ringkasan Data
public function showSummary()
{
    $step1Data = session('step1_data');
    $step2Data = session('step2_data');
    $step3Data = session('step3_data');

    if (!$step1Data || !$step2Data || !$step3Data) {
        return redirect()->route('multistep.step1');
    }

    return view('multistep.summary', [
        'step' => 4,
        'progress' => 100,
        'step1Data' => $step1Data,
        'step2Data' => $step2Data,
        'step3Data' => $step3Data
    ]);
}

// Complete - Proses Final
public function complete(Request $request)
{
    // Di sini Anda bisa menyimpan data ke database
    // Untuk demo, kita hanya akan menampilkan pesan sukses

    $allData = [
        'personal' => session('step1_data'),
        'education' => session('step2_data'),
        'experience' => session('step3_data')
    ];

    // Hapus session data
    $request->session()->forget(['step1_data', 'step2_data',
```

```
'step3_data']]);

    return view('multistep.complete', [
        'data' => $allData
    ]);
}
```

4. Buat layouts directory di `resources\views` mkdir `resources/views/layouts`

5. Buat file `app.blade.php` di `resources\views\layouts` lalu masukkan kode berikut:

```
<!DOCTYPE html>
<html lang="id">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>@yield('title', 'Multi-Step Form')</title>
    <link
href="https://cdn.jsdelivrivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.cs
s" rel="stylesheet">
    <style>
        .step-progress {
            margin-bottom: 30px;
        }
        .step-item {
            text-align: center;
            position: relative;
        }
        .step-item .step-number {
            width: 40px;
            height: 40px;
            border-radius: 50%;
            background: #e9ecef;
            display: flex;
            align-items: center;
            justify-content: center;
            margin: 0 auto 10px;
            font-weight: bold;
        }
        .step-item.active .step-number {
            background: #007bff;
            color: white;
        }
        .step-item.completed .step-number {
            background: #28a745;
            color: white;
        }
        .step-line {
            position: absolute;
```



```

        top: 20px;
        left: 50%;
        width: 100%;
        height: 2px;
        background: #e9ecef;
        z-index: -1;
    }
    .form-step {
        display: none;
    }
    .form-step.active {
        display: block;
    }
    .card {
        box-shadow: 0 0.5rem 1rem rgba(0, 0, 0, 0.15);
    }
</style>
</head>
<body>
    <nav class="navbar navbar-dark bg-dark">
        <div class="container">
            <span class="navbar-brand mb-0 h1">Multi-Step Form Demo</span>
        </div>
    </nav>

    <div class="container mt-4">
        @yield('content')
    </div>

    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.m
in.js"></script>
</body>
</html>

```

6. Buat multistep directory di `resources\views` mkdir `resources/views/multistep`

7. Buat file `step1.blade.php` di `resources\views\multistep` lalu masukkan kode berikut:

```

@extends('layouts.app')

@section('title', 'Step 1 - Informasi Pribadi')

@section('content')
<div class="row justify-content-center">
    <div class="col-md-8">
        <!-- Progress Bar -->
        <div class="step-progress">
            <div class="row">

```

```

        <div class="col-3 step-item active">
            <div class="step-number">1</div>
            <div>Informasi Pribadi</div>
        </div>
        <div class="col-3 step-item">
            <div class="step-number">2</div>
            <div>Pendidikan</div>
        </div>
        <div class="col-3 step-item">
            <div class="step-number">3</div>
            <div>Pengalaman</div>
        </div>
        <div class="col-3 step-item">
            <div class="step-number">4</div>
            <div>Ringkasan</div>
        </div>
    </div>
</div>

<div class="card">
    <div class="card-header">
        <h4 class="mb-0">Step 1: Informasi Pribadi</h4>
    </div>
    <div class="card-body">
        <form method="POST" action="{ {
route('multistep.storeStep1') } }">
            @csrf

            <div class="row">
                <div class="col-md-6 mb-3">
                    <label for="full_name" class="form-label">Nama
Lengkap *</label>

                    <input type="text" class="form-control
@error('full_name') is-invalid @enderror"
                        id="full_name" name="full_name"
                        value="{ { old('full_name',
session('step1_data.full_name') ?? '' ) } }"
                        required>
                    @error('full_name')
                        <div class="invalid-feedback">{ { $message
}}</div>
                    @enderror
                </div>

                <div class="col-md-6 mb-3">
                    <label for="email" class="form-label">Email *
</label>

                    <input type="email" class="form-control
@error('email') is-invalid @enderror"
                        id="email" name="email"
                        value="{ { old('email',

```

```

session('step1_data.email') ?? '')) }}"
        required>
        @error('email')
        <div class="invalid-feedback">{{ $message
    }}</div>

    @enderror
</div>
</div>

<div class="row">
    <div class="col-md-6 mb-3">
        <label for="phone" class="form-label">Nomor
Telepon *</label>

        <input type="text" class="form-control
@error('phone') is-invalid @enderror"
            id="phone" name="phone"
            value="{{ old('phone',
session('step1_data.phone') ?? '')) }}"
            required>
        @error('phone')
        <div class="invalid-feedback">{{ $message
    }}</div>

    @enderror
</div>

    <div class="col-md-6 mb-3">
        <label for="address" class="form-label">Alamat
*</label>

        <input type="text" class="form-control
@error('address') is-invalid @enderror"
            id="address" name="address"
            value="{{ old('address',
session('step1_data.address') ?? '')) }}"
            required>
        @error('address')
        <div class="invalid-feedback">{{ $message
    }}</div>

    @enderror
</div>
</div>

<div class="d-flex justify-content-between">
    <div></div> <!-- Spacer -->
    <button type="submit" class="btn btn-primary">
        Lanjut ke Step 2 <i class="fas fa-arrow-right
ms-2"></i>

    </button>
</div>
</form>
</div>
</div>

```

```
</div>
</div>
@endsection
```

8. Buat file `step2.blade.php` di `resources\views\multistep` lalu masukkan kode berikut:

```
@extends('layouts.app')

@section('title', 'Step 2 - Informasi Pendidikan')

@section('content')
<div class="row justify-content-center">
    <div class="col-md-8">
        <!-- Progress Bar -->
        <div class="step-progress">
            <div class="row">
                <div class="col-3 step-item completed">
                    <div class="step-number">✓</div>
                    <div>Informasi Pribadi</div>
                </div>
                <div class="col-3 step-item active">
                    <div class="step-number">2</div>
                    <div>Pendidikan</div>
                </div>
                <div class="col-3 step-item">
                    <div class="step-number">3</div>
                    <div>Pengalaman</div>
                </div>
                <div class="col-3 step-item">
                    <div class="step-number">4</div>
                    <div>Ringkasan</div>
                </div>
            </div>
        </div>

        <div class="card">
            <div class="card-header">
                <h4 class="mb-0">Step 2: Informasi Pendidikan</h4>
            </div>
            <div class="card-body">
                <form method="POST" action="{{
route('multistep.storeStep2') }}">
                    @csrf

                    <div class="mb-3">
                        <label for="education" class="form-label">Tingkat
Pendidikan *</label>

                        <select class="form-select @error('education') is-
invalid @enderror">
```

```

        id="education" name="education" required>
        <option value="">Pilih Tingkat
Pendidikan</option>
        <option value="SMA" {{ old('education',
session('step2_data.education')) ?? '' ) == 'SMA' ? 'selected' : ''
}}>SMA</option>
        <option value="D3" {{ old('education',
session('step2_data.education')) ?? '' ) == 'D3' ? 'selected' : ''
}}>D3</option>
        <option value="S1" {{ old('education',
session('step2_data.education')) ?? '' ) == 'S1' ? 'selected' : ''
}}>S1</option>
        <option value="S2" {{ old('education',
session('step2_data.education')) ?? '' ) == 'S2' ? 'selected' : ''
}}>S2</option>
        <option value="S3" {{ old('education',
session('step2_data.education')) ?? '' ) == 'S3' ? 'selected' : ''
}}>S3</option>
    </select>
    @error('education')
        <div class="invalid-feedback">{{ $message }}
</div>

    @enderror
</div>

<div class="row">
    <div class="col-md-8 mb-3">
        <label for="institution" class="form-
label">Nama Institusi *</label>
        <input type="text" class="form-control
@error('institution') is-invalid @enderror"
            id="institution" name="institution"
            value="{{ old('institution',
session('step2_data.institution')) ?? '' }}"
            required>
        @error('institution')
            <div class="invalid-feedback">{{ $message
}}</div>
        @enderror
    </div>

    <div class="col-md-4 mb-3">
        <label for="graduation_year" class="form-
label">Tahun Lulus *</label>
        <input type="number" class="form-control
@error('graduation_year') is-invalid @enderror"
            id="graduation_year" name="graduation_year"
            value="{{ old('graduation_year',
session('step2_data.graduation_year')) ?? '' }}"
            min="1900" max="{{ date('Y') }}" required>
        @error('graduation_year')

```

```

        <div class="invalid-feedback">{{ $message
    }}</div>

        @enderror
    </div>
</div>

    <div class="mb-3">
        <label for="major" class="form-label">Jurusan *
    </label>

        <input type="text" class="form-control
    @error('major') is-invalid @enderror"
        id="major" name="major"
        value="{{ old('major',
    session('step2_data.major')) ?? '' }}"
        required>
        @error('major')
            <div class="invalid-feedback">{{ $message }}
        </div>
    @enderror
    </div>

    <div class="d-flex justify-content-between">
        <a href="{{ route('multistep.step1') }}" class="btn
    btn-secondary">

            <i class="fas fa-arrow-left me-2"></i>Kembali
        </a>
        <button type="submit" class="btn btn-primary">
            Lanjut ke Step 3 <i class="fas fa-arrow-right
    ms-2"></i>
        </button>
    </div>
</form>
</div>
</div>
</div>
</div>
@endsection

```

9. Buat file `step3.blade.php` di `resources\views\multistep` lalu masukkan kode berikut:

```

@extends('layouts.app')

@section('title', 'Step 3 - Pengalaman Kerja')

@section('content')
    <div class="row justify-content-center">
        <div class="col-md-8">
            <!-- Progress Bar -->
            <div class="step-progress">

```

```

        <div class="row">
            <div class="col-3 step-item completed">
                <div class="step-number">✓</div>
                <div>Informasi Pribadi</div>
            </div>
            <div class="col-3 step-item completed">
                <div class="step-number">✓</div>
                <div>Pendidikan</div>
            </div>
            <div class="col-3 step-item active">
                <div class="step-number">3</div>
                <div>Pengalaman</div>
            </div>
            <div class="col-3 step-item">
                <div class="step-number">4</div>
                <div>Ringkasan</div>
            </div>
        </div>
    </div>

    <div class="card">
        <div class="card-header">
            <h4 class="mb-0">Step 3: Pengalaman Kerja</h4>
        </div>
        <div class="card-body">
            <form method="POST" action="{ {
route('multistep.storeStep3') } }">
                @csrf

                <div class="row">
                    <div class="col-md-6 mb-3">
                        <label for="current_job" class="form-
label">Pekerjaan Saat Ini</label>
                        <input type="text" class="form-control
@error('current_job') is-invalid @enderror"
                            id="current_job" name="current_job"
                            value="{ { old('current_job',
session('step3_data.current_job') ?? '' ) } }">
                        @error('current_job')
                            <div class="invalid-feedback">{ { $message
}}</div>
                        @enderror
                    </div>

                    <div class="col-md-6 mb-3">
                        <label for="company" class="form-
label">Perusahaan</label>
                        <input type="text" class="form-control
@error('company') is-invalid @enderror"
                            id="company" name="company"
                            value="{ { old('company',

```

```

session('step3_data.company') ?? '' ) }}">
        @error('company')
        <div class="invalid-feedback">{{ $message
    }}</div>

        @enderror
    </div>
</div>

    <div class="row">
        <div class="col-md-6 mb-3">
            <label for="experience_years" class="form-
label">Pengalaman Kerja (Tahun) *</label>
            <input type="number" class="form-control
@error('experience_years') is-invalid @enderror"
            id="experience_years"
name="experience_years"
            value="{{ old('experience_years',
session('step3_data.experience_years') ?? '' ) }}"
            min="0" max="50" required>
            @error('experience_years')
            <div class="invalid-feedback">{{ $message
        }}</div>

            @enderror
        </div>
    </div>

    <div class="mb-3">
        <label for="skills" class="form-
label">Keahlian/Keterampilan *</label>
        <textarea class="form-control @error('skills') is-
invalid @enderror"
            id="skills" name="skills" rows="3"
            placeholder="Contoh: PHP, Laravel,
JavaScript, MySQL..."
            required>{{ old('skills',
session('step3_data.skills') ?? '' ) }}</textarea>
        @error('skills')
        <div class="invalid-feedback">{{ $message }}
    </div>

        @enderror
        <div class="form-text">Pisahkan setiap keahlian
dengan koma</div>
    </div>

    <div class="d-flex justify-content-between">
        <a href="{{ route('multistep.step2') }}" class="btn
btn-secondary">

            <i class="fas fa-arrow-left me-2"></i>Kembali
        </a>
        <button type="submit" class="btn btn-primary">
            Lihat Ringkasan <i class="fas fa-arrow-right

```



```

ms-2"></i>
        </button>
    </div>
</form>
</div>
</div>
</div>
</div>
</div>
@endsection

```

10. Buat file `complete.blade.php` di `resources\views\multistep` lalu masukkan kode berikut:

```

@extends('layouts.app')

@section('title', 'Pendaftaran Selesai')

@section('content')
<div class="row justify-content-center">
    <div class="col-md-6">
        <div class="card text-center">
            <div class="card-body py-5">
                <div class="mb-4">
                    <i class="fas fa-check-circle text-success"
style="font-size: 4rem;"></i>
                </div>
                <h2 class="card-title text-success mb-3">Pendaftaran
Berhasil!</h2>
                <p class="card-text lead mb-4">
                    Terima kasih telah melengkapi formulir pendaftaran.
Data Anda telah berhasil disimpan.
                </p>

                <div class="alert alert-info text-start">
                    <h6><i class="fas fa-envelope me-2"></i>Informasi
Penting:</h6>
                    <ul class="mb-0">
                        <li>Anda akan menerima email konfirmasi dalam 24
jam</li>
                        <li>Proses verifikasi membutuhkan waktu 2-3 hari
kerja</li>
                        <li>Tim kami akan menghubungi Anda untuk langkah
selanjutnya</li>
                    </ul>
                </div>

                <div class="mt-4">
                    <a href="{{ route('multistep.step1') }}" class="btn
btn-primary me-2">
                        <i class="fas fa-plus me-2"></i>Daftar Lagi

```

```

        </a>
        <a href="/" class="btn btn-outline-secondary">
            <i class="fas fa-home me-2"></i>Kembali ke Home
        </a>
    </div>
</div>
</div>
</div>

<!-- Debug Data (bisa dihapus di production) -->
@if(env('APP_DEBUG'))
<div class="card mt-4">
    <div class="card-header">
        <h6 class="mb-0">Data yang Disimpan (Debug)</h6>
    </div>
    <div class="card-body">
        <pre>{{ json_encode($data, JSON_PRETTY_PRINT) }}</pre>
    </div>
</div>
@endif
</div>
</div>
@endsection

```

11. Buat file `summary.blade.php` di `resources\views\multistep` lalu masukkan kode berikut:

```

@extends('layouts.app')

@section('title', 'Ringkasan Data')

@section('content')
<div class="row justify-content-center">
    <div class="col-md-8">
        <!-- Progress Bar -->
        <div class="step-progress">
            <div class="row">
                <div class="col-3 step-item completed">
                    <div class="step-number">✓</div>
                    <div>Informasi Pribadi</div>
                </div>
                <div class="col-3 step-item completed">
                    <div class="step-number">✓</div>
                    <div>Pendidikan</div>
                </div>
                <div class="col-3 step-item completed">
                    <div class="step-number">✓</div>
                    <div>Pengalaman</div>
                </div>
                <div class="col-3 step-item active">
                    <div class="step-number">4</div>

```

```

        <div>Ringkasan</div>
    </div>
</div>
</div>

<div class="card">
    <div class="card-header bg-success text-white">
        <h4 class="mb-0">Ringkasan Data Anda</h4>
    </div>
    <div class="card-body">
        <!-- Informasi Pribadi -->
        <div class="mb-4">
            <h5 class="border-bottom pb-2">
                <i class="fas fa-user me-2"></i>Informasi Pribadi
                <a href="{{ route('multistep.step1') }}" class="btn
btn-sm btn-outline-primary float-end">Edit</a>
            </h5>
            <div class="row">
                <div class="col-md-6">
                    <strong>Nama Lengkap:</strong><br>
                    {{ $step1Data['full_name'] }}
                </div>
                <div class="col-md-6">
                    <strong>Email:</strong><br>
                    {{ $step1Data['email'] }}
                </div>
            </div>
            <div class="row mt-2">
                <div class="col-md-6">
                    <strong>Telepon:</strong><br>
                    {{ $step1Data['phone'] }}
                </div>
                <div class="col-md-6">
                    <strong>Alamat:</strong><br>
                    {{ $step1Data['address'] }}
                </div>
            </div>
        </div>
    </div>

    <!-- Informasi Pendidikan -->
    <div class="mb-4">
        <h5 class="border-bottom pb-2">
            <i class="fas fa-graduation-cap me-2"></i>Informasi
Pendidikan
            <a href="{{ route('multistep.step2') }}" class="btn
btn-sm btn-outline-primary float-end">Edit</a>
        </h5>
        <div class="row">
            <div class="col-md-4">
                <strong>Tingkat Pendidikan:</strong><br>
                {{ $step2Data['education'] }}
            </div>
        </div>
    </div>

```

```

        </div>
        <div class="col-md-4">
            <strong>Institusi:</strong><br>
            {{ $step2Data['institution'] }}
        </div>
        <div class="col-md-4">
            <strong>Tahun Lulus:</strong><br>
            {{ $step2Data['graduation_year'] }}
        </div>
    </div>
    <div class="row mt-2">
        <div class="col-12">
            <strong>Jurusan:</strong><br>
            {{ $step2Data['major'] }}
        </div>
    </div>
</div>

<!-- Pengalaman Kerja -->
<div class="mb-4">
    <h5 class="border-bottom pb-2">
        <i class="fas fa-briefcase me-2"></i>Pengalaman
Kerja

        <a href="{{ route('multistep.step3') }}" class="btn
btn-sm btn-outline-primary float-end">Edit</a>
    </h5>
    <div class="row">
        <div class="col-md-6">
            <strong>Pekerjaan Saat Ini:</strong><br>
            {{ $step3Data['current_job'] ?? 'Tidak
disebutkan' }}

        </div>
        <div class="col-md-6">
            <strong>Perusahaan:</strong><br>
            {{ $step3Data['company'] ?? 'Tidak disebutkan'
}}

        </div>
    </div>
    <div class="row mt-2">
        <div class="col-md-6">
            <strong>Pengalaman Kerja:</strong><br>
            {{ $step3Data['experience_years'] }} tahun
        </div>
        <div class="col-md-6">
            <strong>Keahlian:</strong><br>
            {{ $step3Data['skills'] }}
        </div>
    </div>
</div>

<div class="alert alert-info">

```

```
        <i class="fas fa-info-circle me-2"></i>
        <strong>Perhatian:</strong> Pastikan semua data sudah
benar sebelum mengirim.
    </div>

    <form method="POST" action="{{ route('multistep.complete')
}}">

        @csrf
        <div class="d-flex justify-content-between">
            <a href="{{ route('multistep.step3') }}" class="btn
btn-secondary">

                <i class="fas fa-arrow-left me-2"></i>Kembali
            </a>
            <button type="submit" class="btn btn-success">
                <i class="fas fa-check me-2"></i>Kirim Data
            </button>
        </div>
    </form>
</div>
</div>
</div>
</div>
@endsection
```

12. Jalankan aplikasi dan tunjukkan hasil di browser.

Untuk menjalankan aplikasi kita bisa menggunakan perintah artisan berikut:

```
php artisan serve
```

lalu ctrl+klik <http://127.0.0.1:8000> sehingga akan diredirect ke web browser.

pada URL masukkan `/multistep` agar masuk ke halaman web yang telah kita buat.

Screenshot Hasil:

- Form Step 1

Multi-Step Form Demo

1 2 3 4

Informasi Pribadi Pendidikan Pengalaman Ringkasan

Step 1: Informasi Pribadi

Nama Lengkap * Email *

Ammar Ammar@gmail.com

Nomor Telepon * Alamat *

085317278901 Indonesia\Aceh\Lhokseumawe\Blang_Mangat\PNL

Lanjut ke Step 2

- Form Step 2

Multi-Step Form Demo

✓ 2 3 4

Informasi Pribadi Pendidikan Pengalaman Ringkasan

Step 2: Informasi Pendidikan

Tingkat Pendidikan *

S1

Nama Institusi * Tahun Lulus *

Politeknik Negeri Lhokseumawe 2023

Jurusan *

TIK

Kembali Lanjut ke Step 3

- Form Step 3

Multi-Step Form Demo

✓ ✓ 3 4

Informasi Pribadi Pendidikan Pengalaman Ringkasan

Step 3: Pengalaman Kerja

Pekerjaan Saat Ini Perusahaan

Data Analys Big Company

Pengalaman Kerja (Tahun) *

0

Keahlian/Keterampilan *

PHP, LARAVEL

Pisahkan setiap keahlian dengan koma

Kembali Lihat Ringkasan

- Ringkasan data Form (Sebelum submit)

Ringkasan Data Anda

Informasi Pribadi

Edit

Nama Lengkap: Ammar	Email: Ammar@gmail.com
Telepon: 085317278901	Alamat: Indonesia\Aceh\Lhokseumawe\Blang_Mangat\PNL

Informasi Pendidikan

Edit

Tingkat Pendidikan: S1	Institusi: Politeknik Negeri Lhokseumawe	Tahun Lulus: 2023
Jurusan: TIK		

Pengalaman Kerja

Edit

Pekerjaan Saat Ini: Data Analys	Perusahaan: Big Company
Pengalaman Kerja: 0 tahun	Keahlian: PHP, LARAVEL

Perhatian: Pastikan semua data sudah benar sebelum mengirim.

Kembali

Kirim Data

- Selesai submit

Multi-Step Form Demo

Pendaftaran Berhasil!

Terima kasih telah melengkapi formulir pendaftaran. Data Anda telah berhasil disimpan.

Informasi Penting:

- Anda akan menerima email konfirmasi dalam 24 jam
- Proses verifikasi membutuhkan waktu 2-3 hari kerja
- Tim kami akan menghubungi Anda untuk langkah selanjutnya

[Daftar Lagi](#) [Kembali ke Home](#)

Data yang Disimpan (Debug)

```
{
  "personal": {
    "full_name": "Ammar",
    "email": "Ammar@gmail.com",
    "phone": "085317278901",
    "address": "Indonesia\\Aceh\\Lhokseumawe\\Blang Mangat\\PNL"
  },
  "education": {
    "education": "S1",
    "institution": "Politeknik Negeri Lhokseumawe",
    "graduation_year": "2023",
    "major": "TIK"
  },
  "experience": {
    "current_job": "Data Analyst",
    "company": "Big Company",
    "experience_years": "0",
    "skills": "PHP, LARAVEL"
  }
}
```

3. Hasil dan Pembahasan

- Semua form berhasil diproses dengan validasi sesuai rule yang ditentukan.
- Kesalahan input langsung ditangani oleh sistem validasi Laravel dengan pesan error yang jelas.
- CSRF protection bekerja dengan baik, mencegah request tanpa token yang sah.
- Fitur old() memudahkan pengguna karena input sebelumnya tidak hilang saat validasi gagal.
- Pada multi-step form, session digunakan untuk menjaga data antar langkah dengan lancar.

4. Kesimpulan

1. Laravel menyediakan sistem form handling yang kuat dan aman, lengkap dengan validasi otomatis dan CSRF protection.
 2. Mekanisme validasi Laravel sangat fleksibel — bisa sederhana di controller atau terpisah di form request.
 3. Penerapan multi-step form dengan session menunjukkan bahwa Laravel mampu mengelola data kompleks dengan mudah.
 4. Kombinasi validasi, error feedback, dan UX-friendly form meningkatkan kualitas aplikasi web modern.
-

5. Referensi

- Laravel Official Documentation — <https://laravel.com/docs/12.x/validation>
 - Modul 2 - Laravel Fundamentals - <https://hackmd.io/@mohdrzu/HJWzYp7Reg>
-