

# Laporan Modul 5: Form Submission & Data Validation

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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.

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## 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`
- **Tipe 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') }}">
```

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## 2. Langkah-Langkah Praktikum

### 2.1 Praktikum 1 – Form Submission dan Validasi Dasar

#### Langkah-langkah:

1. Buat Projek 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:

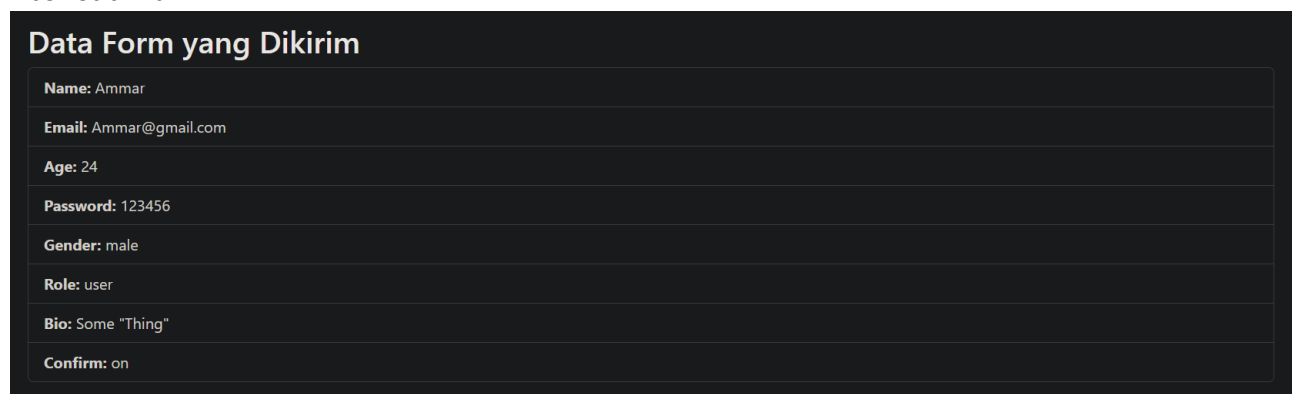
- Form



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 ☐ Perempuan
- Role:** User (dropdown menu)
- Bio:** Some "Thing"
- Confirmation:** ☒ Saya konfirmasi informasi sudah benar
- Submit Button:** Submit

- Hasil submit



The screenshot shows the submitted data in a table format:

Data Form yang Dikirim	
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 that the field is required. The fields and their error messages are: "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" with radio buttons for "Laki-laki" and "Perempuan" (The gender field is required.), "Role" (a dropdown menu showing "-- Pilih Role --" with the message "The role field is required."), and "Bio" (The bio field is required.).

## 2.2 Praktikum 2 – Custom Validation Message

### Langkah-langkah:

1. Pada projek 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

### Langkah-langkah:

1. Buat Proyek 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;
        }
    </style>

```



```

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

<!-- 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 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>
<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>

      <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>
@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

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

### Informasi Pendidikan

Edit

<b>Tingkat Pendidikan:</b> S1	<b>Institusi:</b> Politeknik Negeri Lhokseumawe	<b>Tahun Lulus:</b> 2023
<b>Jurusan:</b> TIK		

### Pengalaman Kerja

Edit

<b>Pekerjaan Saat Ini:</b> Data Analys	<b>Perusahaan:</b> Big Company
<b>Pengalaman Kerja:</b> 0 tahun	<b>Keahlian:</b> 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>
-