

Laporan Modul 5: Form Validation & Data Submission

Mata Kuliah: Workshop Web Lanjut

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Abstrak

Laporan praktikum ini membahas tentang bagaimana cara melakukan validasi form dan pengiriman data (data submission) di Laravel 12. Praktikum ini dilakukan untuk memahami bagaimana sistem Laravel menangani input dari pengguna, memvalidasi data sebelum disimpan, dan mengamankan proses pengiriman data menggunakan CSRF protection. Selain itu, juga dipelajari tentang pembuatan form multi-step menggunakan session agar pengguna dapat mengisi data secara bertahap. Tujuan dari laporan ini adalah untuk mengetahui dan mempraktikkan cara membuat form yang aman, rapi, dan valid di Laravel sesuai dengan standar framework modern.

1. Dasar Teori

Method - method form yang ada di dalam Laravel:

- POST: Mengirim data baru
- PUT/PATCH: Mengupdate data yang sudah ada
- DELETE: Menghapus data

Apa itu csrf protection?

CSRF (Cross-Site Request Forgery) adalah serangan yang mengelabui pengguna agar mengirimkan permintaan berbahaya. Serangan ini memanfaatkan fakta bahwa peramban secara otomatis menyertakan kredensial (seperti kuki) pada setiap permintaan, sehingga memungkinkan penyerang melakukan tindakan atas nama pengguna tanpa persetujuan mereka.

Apa itu Data Validation?

Validasi data berarti memeriksa keakuratan dan kualitas data sumber sebelum menggunakan, mengimpor, atau memproses data dengan cara lain. Berbagai jenis validasi dapat dilakukan tergantung pada batasan atau tujuan tujuan. Validasi data merupakan salah satu bentuk pembersihan data.

Jenis-jenis: 1. Controller Validation (Inline Validation) 2. Form Request Validation 3. Manual Validation

Kategori Validation Rules Basic Rules

```
required: Field wajib diisi
nullable: Field boleh kosong
filled: Jika ada, harus berisi nilai
sometimes: Validasi hanya jika field ada
```

Type Validation

```
string: Harus string
numeric: Harus angka
integer: Harus integer
boolean: Harus boolean
array: Harus array
file: Harus file upload
```

Size Validation

```
min:value: Minimum size (string length, numeric value, file size)
max:value: Maximum size
size:value: Exact size
between:min,max: Rentang nilai
```

Database Rules

```
unique:table,column: Nilai harus unik di database
exists:table,column: Nilai harus ada di database
```

Format Validation

```
email: Format email valid
url: Format URL valid
ip: IP address valid
date: Format tanggal valid
regex:pattern: Cocok dengan regex pattern
```

Comparison Rules

```
confirmed: Field harus memiliki field _confirmation
same:field: Harus sama dengan field lain
different:field: Harus berbeda dari field lain
```

2. Langkah-Langkah Praktikum

2.1 Praktikum 1 - Menangani Request dan Response View di Laravel 12

- Langkah-langkah:

1. Buat dan masuk ke projek laravel

```
Administrator@WIN-L8SM4Q0J2TB MINGW64 /d/POLTEK/web-lanjut-2024573010013 (main)
$ laravel new form-app
```

2. Masuk ke routes/web.php dan isi seperti:

```
1 <?php
2
3 use Illuminate\Support\Facades\Route;
4 use App\Http\Controllers\FormController;
5
6 Route::get('/form', [FormController::class, 'showForm'])->name('form.show');
7 Route::post('/form', [FormController::class, 'handleForm'])->name('form.handle');
8 Route::get('result', [FormController::class, 'showResult'])->name('form.result');
9
```

3. Lalu buat controller FormController dengan perintah:

```
Administrator@WIN-L8SM4Q0J2TB MINGW64 /d/POLTEK/web-lanjut-2024573010013 (main)
$ php artisan make:controller FormController
```

4. Masuk ke file Controller yg telah dibuat dan isi kode seperti contoh:

```
1  <?php
2
3  namespace App\Http\Controllers;
4
5  use Illuminate\Http\Request;
6
7  class FormController extends Controller
8  {
9      public function showForm()
10     {
11         return view('form');
12     }
13
14     public function handleForm(Request $request)
15     {
16         $validated = $request->validate([
17             'name' => 'required|required|max:255',
18             'email' => 'required|email',
19             'age' => 'required|integer|min:1',
20             'password' => 'required|min:6',
21             'gender' => 'required',
22             'role' => 'required',
23             'bio' => 'required',
24             'confirm' => 'accepted',
25         ]);
26
27         return redirect()->route('form.result')->with('data', $validated);
28     }
29
30     public function showResult()
31     {
32         $data = session('data');
33         return view('result', compact('data'));
34     }
35 }
36
```

5. Membuat file view baru dengan nama form.blade.php di resources/views dan isi seperti contoh:



```
1  <!DOCTYPE html>
2  <html>
3
4  <head>
5      <title>Pengiriman Form</title>
6      <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css">
7  </head>
8
9  <body class="container mt-5">
10     <h2>Form Registrasi</h2>
11     <form action="{{ route('form.handle') }}"></form>
12     @csrf
13     <div class="mb-3">
14         <label>Nama</label>
15         <input type="text" name="name" class="form-control" value="{{ old('name') }}">
16         @error('name') <div class="text-danger">{{ $message }}</div> @enderror
17     </div>
18     <div class="mb-3">
19         <label>Email</label>
20         <input type="email" name="email" class="form-control" value="{{ old('email') }}">
21         @error('email') <div class="text-danger">{{ $message }}</div> @enderror
22     </div>
23     <div class="mb-3">
24         <label>Umur</label>
25         <input type="number" name="age" class="form-control" value="{{ old('age') }}">
26         @error('age') <div class="text-danger">{{ $message }}</div> @enderror
27     </div>
28     <div class="mb-3">
29         <label>Password</label><br>
30         <input type="password" name="password" class="form-control">
31     </div>
32     <div class="mb-3">
33         <label>Jenis Kelamin</label>
34         <div class="form-check form-check-inline">
35             <input class="form-check-input" type="radio" name="gender" value="male"> Laki-laki
36         </div>
37         <div class="form-check form-check-inline">
38             <input class="form-check-input" type="radio" name="gender" value="female"> Perempuan
39         </div>
40         @error('gender') <div class="text-danger">{{ $message }}</div> @enderror
41     </div>
42     <div class="mb-3">
43         <label>Role</label>
44         <select name="role" class="form-select">
45             <option value="">-- Pilih Role --</option>
46             <option value="user">User</option>
47             <option value="admin">Admin</option>
48         </select>
49         @error('role') <div class="text-danger">{{ $message }}</div> @enderror
50     </div>
51     <div class="mb-3">
52         <label>Bio</label>
53         <textarea name="bio" class="form-control">{{ old('bio') }}</textarea>
54         @error('bio') <div class="text-danger">{{ $message }}</div> @enderror
55     </div>
56     <div class="form-check mb-3">
57         <input type="checkbox" id="confirm" name="confirm" class="form-check-input">
58         <label class="form-check-label" for="confirm">Saya konfirmasi informasi sudah benar</label>
59         @error('confirm') <div class="text-danger">{{ $message }}</div> @enderror
60     </div>
61     <button type="submit" class="btn btn-primary" id="submitBtn" disabled>Submit</button>
62 </form>
```

```
63
64 <script>
65     document.getElementById('confirm').addEventListener('change', function() {
66         document.getElementById('submitBtn').disabled = !this.checked;
67     });
68 </script>
69 </body>
70
71 </html>
```

6. Membuat file hasil bernama result.blade.php di resources/views dengan isi seperti:

```
1  <!DOCTYPE html>
2  <html>
3
4  <head>
5      <title>Hasil Form</title>
6      <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css" rel="stylesheet">
7  </head>
8
9  <body class="container mt-5">
10     <h2>Data Form yang Dikirim</h2>
11     @if ($data)
12         <ul class="list-group">
13             @foreach ($data as $key => $value)
14                 <li class="list-group-item"><strong>{{ ucfirst($key) }}:</strong> {{ $value }}</li>
15             @endforeach
16         </ul>
17     @else
18         <p>Tidak ada data tersedia.</p>
19     @endif
20     </body>
21
22 </html>
```

7. Sudah selesai dan sudah dapat dijalankan menggunakan "php artisan serve"

2.2 Praktikum 1 - Validasi Kustom dan Pesan Error di Laravel 12

- Langkah-langkah:

1. Masuk ke projek yang sudah dibuat dalam praktikum sebelumnya, kemudian tambahkan route baru seperti:

```
1  <?php
2
3  use Illuminate\Support\Facades\Route;
4  use App\Http\Controllers\FormController;
5  use App\Http\Controllers\RegisterController;
6
7  Route::get('/form', [FormController::class, 'showForm'])->name('form.show');
8  Route::post('/form', [FormController::class, 'handleForm'])->name('form.handle');
9  Route::get('result', [FormController::class, 'showResult'])->name('form.result');
10 Route::get('/register', [RegisterController::class, 'showForm'])->name('register.show');
11 Route::post('/register', [RegisterController::class, 'handleForm'])->name('register.handle');
```

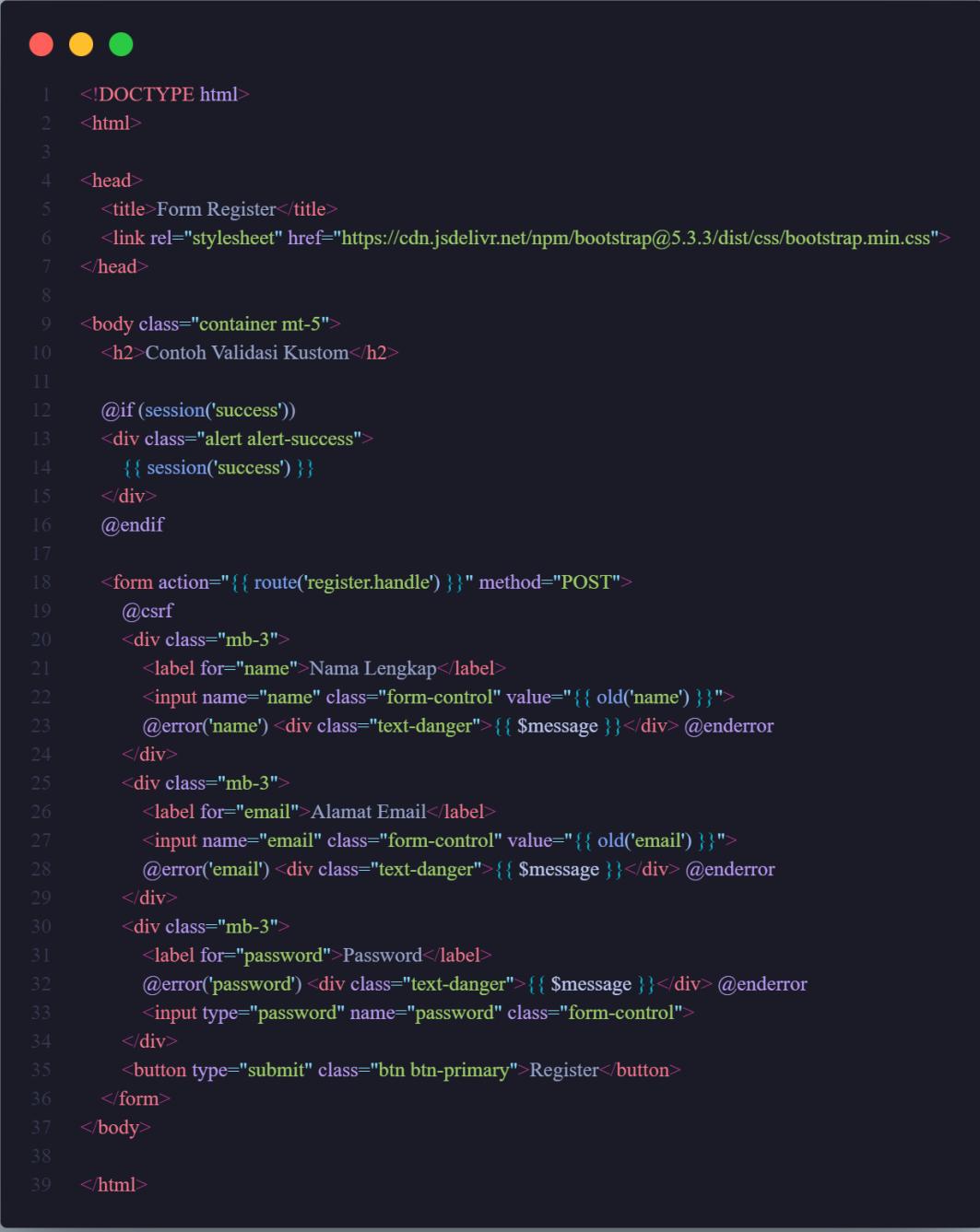
2. Lalu buat controller RegisterController dengan cara:

```
Administrator@WIN-L8SM4Q0J2TB MINGW64 /d/POLTEK/web-lanjut-2024573010013 (main)
$ php artisan make:controller RegisterController
```

3. Masuk ke file RegisterController.php isi kode seperti berikut:

```
1  <?php
2
3  namespace App\Http\Controllers;
4
5  use Illuminate\Http\Request;
6
7  class RegisterController extends Controller
8  {
9      public function showForm()
10     {
11         return view('register');
12     }
13    public function handleForm(Request $request)
14    {
15        $customMessages = [
16            'name.required' => 'Kami perlu tahu nama Anda!',
17            'email.required' => 'Email Anda penting bagi kami.',
18            'email.email' => 'Hmm.. itu tidak terlihat seperti email yang valid.',
19            'password.required' => 'Jangan lupa untuk set password.',
20            'password.min' => 'Password harus minimal :min karaker.',
21            'username.regex' => 'Username hanya boleh berisi huruf dan angka.',
22        ];
23
24        $request->validate([
25            'name' => 'required|string|max:100',
26            'email' => 'required|email',
27            'username' => ['required', 'regex:/^[\a-zA-Z0-9]+$/'],
28            'password' => 'required|min:6',
29        ], $customMessages);
30
31        return redirect()->route('register.show')->with('success', 'Registrasi berhasil!');
32    }
33 }
34
```

4. Buat file view baru dalam resources/views dengan nama register.blade.php, dan isikan kode berikut:



```

1  <!DOCTYPE html>
2  <html>
3
4  <head>
5      <title>Form Register</title>
6      <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css">
7  </head>
8
9  <body class="container mt-5">
10     <h2>Contoh Validasi Kustom</h2>
11
12     @if(session('success'))
13         <div class="alert alert-success">
14             {{ session('success') }}
15         </div>
16     @endif
17
18     <form action="{{ route('register.handle') }}" method="POST">
19         @csrf
20         <div class="mb-3">
21             <label for="name">Nama Lengkap</label>
22             <input name="name" class="form-control" value="{{ old('name') }}>
23             @error('name') <div class="text-danger">{{ $message }}</div> @enderror
24         </div>
25         <div class="mb-3">
26             <label for="email">Alamat Email</label>
27             <input name="email" class="form-control" value="{{ old('email') }}>
28             @error('email') <div class="text-danger">{{ $message }}</div> @enderror
29         </div>
30         <div class="mb-3">
31             <label for="password">Password</label>
32             @error('password') <div class="text-danger">{{ $message }}</div> @enderror
33             <input type="password" name="password" class="form-control">
34         </div>
35         <button type="submit" class="btn btn-primary">Register</button>
36     </form>
37     </body>
38
39 </html>

```

5. Dan sudah bisa menjalankan <http://localhost:8000/register> untuk tes form

Praktikum 2.3 - Multi-Step Form Submission dengan Session Data

- Langkah-langkah:

1. Buat projek baru dan masuk ke dalam projek

```

Administrator@WIN-L8SM4Q0J2TB MINGW64 /d/POLTEK/web-lanjut-2024573010013 (main)
$ laravel new multistep-form-app

```

2. Buat layout dasar dalam folder resources/views/app.blade.php dan isikan kode berikut:

```
1  <!DOCTYPE html>
2  <html lang="en">
3
4  <head>
5      <meta charset="UTF-8">
6      <meta name="viewport" content="width=device-width, initial-scale=1.0">
7      <title>@yield('title', 'Multi-step Form')</title>
8      <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css" rel="stylesheet">
9      <style>
10         .step-progress {
11             margin-bottom: 30px;
12         }
13
14         .step-item {
15             text-align: center;
16             position: relative;
17         }
18
19         .step-item .step-number {
20             width: 40px;
21             height: 40px;
22             border-radius: 50%;
23             background: #e9ecef;
24             display: flex;
25             align-items: center;
26             justify-content: center;
27             margin: 0 auto 10px;
28             font-weight: bold;
29         }
30
31         .step-item.active .step-number {
32             background: #007bff;
33             color: white;
34         }
35
36         .step-item.completed .step-number {
37             background: #28a745;
38             color: white;
39         }
40
41         .step-line {
42             position: absolute;
43             top: 20px;
44             left: 50%;
45             width: 100%;
46             height: 2px;
47             background: #e9ecef;
48             z-index: -1;
49         }
50
51         .form-step {
52             display: none;
53         }
54
55         .form-step.active {
56             display: block;
57         }
58
59         .card {
60             box-shadow: 0 0.5rem 1rem rgba(0, 0, 0, 0.15);
61         }
62         </style>
63     </head>
64
65     <body>
```

```
66 <nav class="navbar navbar-dark bg-dark">
67   <div class="container">
68     <span class="navbar-brand mb-0 h1">Multi-Step Form Demo</span>
69   </div>
70 </nav>
71
72 <div class="container mt-4">
73   @yield('content')
74 </div>
75
76 <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"></script>
77 </body>
78
79 </html>
```

3. Masuk ke routes/web.php dan isikan kode berikut:

```
1 <?php
2
3 use App\Http\Controllers\MultiStepFormController;
4 use Illuminate\Support\Facades\Route;
5
6 Route::get('/', function () {
7   return view('welcome');
8 });
9
10 Route::get('/multistep', [MultiStepFormController::class, 'showStep1'])->name('multistep.step1');
11 Route::post('/multistep/step1', [MultiStepFormController::class, 'storeStep1'])->name('multistep.storeStep1');
12 Route::get('/multistep/step2', [MultiStepFormController::class, 'showStep2'])->name('multistep.showStep2');
13 Route::post('/multistep/step2', [MultiStepFormController::class, 'storeStep2'])->name('multistep.storeStep2');
14 Route::get('/multistep/step3', [MultiStepFormController::class, 'showStep3'])->name('multistep.showStep3');
15 Route::post('/multistep/step3', [MultiStepFormController::class, 'storeStep3'])->name('multistep.storeStep3');
16 Route::get('/multistep/summary', [MultiStepFormController::class, 'showSummary'])->name('multistep.showSummary');
17 Route::post('/multistep/complete', [MultiStepFormController::class, 'complete'])->name('multistep.complete');
```

4. Buat controller baru dengan nama MultiStepController

```
Administrator@WIN-L8SM4Q0J2TB MINGW64 /d/POLTEK/web-lanjut-2024573010013 (main)
$ laravel new multistep-form-app
```

5. Masuk ke dalam file MultiStepController.php dan isikan kode berikut:

```
1 <?php
2
3 namespace App\Http\Controllers;
4
5 use Illuminate\Http\Request;
6
7 class MultiStepFormController extends Controller
```

```
8  {
9      // Step 1 - Informasi Pribadi
10     public function showStep1()
11     {
12         return view('multistep.step1', [
13             'step' => 1,
14             'progress' => 0
15         ]);
16     }
17
18     public function storeStep1(Request $request)
19     {
20         $validated = $request->validate([
21             'full_name' => 'required|string|max:100',
22             'email' => 'required|email',
23             'phone' => 'required|string|max:15',
24             'address' => 'required|string|max:200',
25         ]);
26
27         // Simpan data ke session
28         session(['step1_data' => $validated]);
29
30         return redirect()->route('multistep.step2');
31     }
32
33     // Step 2 - Informasi Pendidikan
34     public function showStep2()
35     {
36         if (!session('step1_data')) {
37             return redirect()->route('multistep.step1');
38         }
39
40         return view('multistep.step2', [
41             'step' => 2,
42             'progress' => 33
43         ]);
44     }
45
46     public function storeStep2(Request $request)
47     {
48         $validated = $request->validate([
49             'education' => 'required|string|max:50',
50             'institution' => 'required|string|max:100',
51             'graduation_year' => 'required|integer|min:1900|max:' . date('Y'),
52             'major' => 'required|string|max:100',
53         ]);
54
55         session(['step2_data' => $validated]);
56
57         return redirect()->route('multistep.step3');
58     }
59 }
```

```
59
60     // Step 3 - Pengalaman Kerja
61     public function showStep3()
62     {
63         if (!session('step1_data') || !session('step2_data')) {
64             return redirect()->route('multistep.step1');
65         }
66
67         return view('multistep.step3', [
68             'step' => 3,
69             'progress' => 66
70         ]);
71     }
72
73     public function storeStep3(Request $request)
74     {
75         $validated = $request->validate([
76             'current_job' => 'nullable|string|max:100',
77             'company' => 'nullable|string|max:100',
78             'experience_years' => 'required|integer|min:0|max:50',
79             'skills' => 'required|string|max:200',
80         ]);
81
82         session(['step3_data' => $validated]);
83
84         return redirect()->route('multistep.summary');
85     }
86
87     // Summary - Ringkasan Data
88     public function showSummary()
89     {
90         $step1Data = session('step1_data');
91         $step2Data = session('step2_data');
92         $step3Data = session('step3_data');
93
94         if (!$step1Data || !$step2Data || !$step3Data) {
95             return redirect()->route('multistep.step1');
96         }
97
98         return view('multistep.summary', [
99             'step' => 4,
100            'progress' => 100,
101            'step1Data' => $step1Data,
102            'step2Data' => $step2Data,
103            'step3Data' => $step3Data
104        ]);
105    }
106
107    // Complete - Proses Final
108    public function complete(Request $request)
109    {
110        // Di sini Anda bisa menyimpan data ke database
```

```
111     // Untuk demo, kita hanya akan menampilkan pesan sukses
112
113     $allData = [
114         'personal' => session('step1_data'),
115         'education' => session('step2_data'),
116         'experience' => session('step3_data')
117     ];
118
119     // Hapus session data
120     $request->session()->forget(['step1_data', 'step2_data', 'step3_data']);
121
122     return view('multistep.complete', [
123         'data' => $allData
124     ]);
125 }
126 }
127
```

6. Buat folder baru dengan nama multistep dalam resources/views/ dan buat:

- resources/views/multistep/step1.blade.php



```
1  @extends('layouts.app')
2
3  @section('title', 'Step 1 - Informasi Pribadi')
4
5  @section('content')
6  <div class="row justify-content-center">
7      <div class="col-md-8">
8          <!-- Progress Bar -->
9          <div class="step-progress">
10             <div class="row">
11                 <div class="col-3 step-item active">
12                     <div class="step-number">1</div>
13                     <div>Informasi Pribadi</div>
14                 </div>
15                 <div class="col-3 step-item">
16                     <div class="step-number">2</div>
17                     <div>Pendidikan</div>
18                 </div>
19                 <div class="col-3 step-item">
20                     <div class="step-number">3</div>
21                     <div>Pengalaman</div>
22                 </div>
23                 <div class="col-3 step-item">
24                     <div class="step-number">4</div>
25                     <div>Ringkasan</div>
26                 </div>
27             </div>
28         </div>
29
30         <div class="card">
31             <div class="card-header">
32                 <div>1/4 Step 1: Informasi Pribadi</div>
33             </div>
34         </div>
35     </div>
36 </div>
```

```
52      ~n4 class="mbo-0">Step 1: Informasi Pribadi~n4>
53      </div>
54      <div class="card-body">
55          <form method="POST" action="{{ route('multistep.storeStep1') }}">
56              @csrf
57
58              <div class="row">
59                  <div class="col-md-6 mb-3">
60                      <label for="full_name" class="form-label">Nama Lengkap *</label>
61                      <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>
62                      @error('full_name')
63                          <div class="invalid-feedback">{{ $message }}</div>
64                      @enderror
65                  </div>
66
67                  <div class="col-md-6 mb-3">
68                      <label for="email" class="form-label">Email *</label>
69                      <input type="email" class="form-control @error('email') is-invalid @enderror" id="email" name="email" value="{{ old('email', session('step1_data.email') ?? '') }}" required>
70                      @error('email')
71                          <div class="invalid-feedback">{{ $message }}</div>
72                      @enderror
73                  </div>
74
75                  <div class="col-md-6 mb-3">
76                      <label for="phone" class="form-label">Nomor Telepon *</label>
77                      <input type="text" class="form-control @error('phone') is-invalid @enderror" id="phone" name="phone" value="{{ old('phone', session('step1_data.phone') ?? '') }}" required>
78                      @error('phone')
79                          <div class="invalid-feedback">{{ $message }}</div>
80                      @enderror
81                  </div>
82
83                  <div class="col-md-6 mb-3">
84                      <label for="address" class="form-label">Alamat *</label>
85                      <input type="text" class="form-control @error('address') is-invalid @enderror" id="address" name="address" value="{{ old('address', session('step1_data.address') ?? '') }}" required>
86                      @error('address')
87                          <div class="invalid-feedback">{{ $message }}</div>
88                      @enderror
89                  </div>
90
91                  <div class="d-flex justify-content-between">
92                      <div></div> 
93                      <button type="submit" class="btn btn-primary">
94                          Lanjut ke Step 2 <i class="fas fa-arrow-right ms-2"></i>
95                      </button>
96                  </div>
97              </form>
98          </div>
99      </div>
100  </div>
101  @endsection
```

- resources/views/multistep/step2.blade.php

```
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```

```
1  @extends('layouts.app')
2
3  @section('title', 'Step 2 - Informasi Pendidikan')
4
5  @section('content')
6  <div class="row justify-content-center">
7      <div class="col-md-8">
8          <!-- Progress Bar -->
9          <div class="step-progress">
10             <div class="row">
11                 <div class="col-3 step-item completed">
12                     <div class="step-number">√</div>
13                     <div>Informasi Pribadi</div>
14                 </div>
15                 <div class="col-3 step-item active">
16                     <div class="step-number">2</div>
17                     <div>Pendidikan</div>
18                 </div>
19                 <div class="col-3 step-item">
20                     <div class="step-number">3</div>
21                     <div>Pengalaman</div>
22                 </div>
23                 <div class="col-3 step-item">
24                     <div class="step-number">4</div>
25                     <div>Ringkasan</div>
26                 </div>
27             </div>
28         </div>
29
30         <div class="card">
31             <div class="card-header">
32                 <h4 class="mb-0">Step 2: Informasi Pendidikan</h4>
33             </div>
34             <div class="card-body">
35                 <form method="POST" action="{{ route('multistep.storeStep2') }}">
36                     @csrf
37
38                     <div class="mb-3">
39                         <label for="education" class="form-label">Tingkat Pendidikan *</label>
40                         <select class="form-select @error('education') is-invalid @enderror" id="education" name="education" required>
41                             <option value="">Pilih Tingkat Pendidikan</option>
42                             <option value="SMA" {{ old('education', session('step2_data.education') ?? '') == 'SMA' ? 'selected' : '' }}>SMA</option>
43                             <option value="D3" {{ old('education', session('step2_data.education') ?? '') == 'D3' ? 'selected' : '' }}>D3</option>
44                             <option value="S1" {{ old('education', session('step2_data.education') ?? '') == 'S1' ? 'selected' : '' }}>S1</option>
45                             <option value="S2" {{ old('education', session('step2_data.education') ?? '') == 'S2' ? 'selected' : '' }}>S2</option>
46                             <option value="S3" {{ old('education', session('step2_data.education') ?? '') == 'S3' ? 'selected' : '' }}>S3</option>
47                         </select>
48                         @error('education')
49                         <div class="invalid-feedback">{{ $message }}</div>
50                         @enderror
51                     </div>
52
53                     <div class="row">
54                         <div class="col-md-8 mb-3">
55                             <label for="institution" class="form-label">Nama Institusi *</label>
56                             <input type="text" class="form-control @error('institution') is-invalid @enderror" id="institution" name="institution" value="{{ old('institution', session('step2_data.institution') ?? '') }}" required>
57                             @error('institution')
58                             <div class="invalid-feedback">{{ $message }}</div>
59                             @enderror
60                         </div>
61
62                         <div class="col-md-4 mb-3">
63                             <label for="graduation_year" class="form-label">Tahun Lulus *</label>
64                             <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>
65                             @error('graduation_year')
66                             <div class="invalid-feedback">{{ $message }}</div>
67                             @enderror
68                         </div>
69
70                     <div class="mb-3">
71                         <label for="major" class="form-label">Jurusan *</label>
72                         <input type="text" class="form-control @error('major') is-invalid @enderror" id="major" name="major">
73                     </div>
74
75                 </div>
76             </div>
77
78                 <div class="mb-3">
79                     <label for="education" class="form-label">Tingkat Pendidikan *</label>
80                     <select class="form-select @error('education') is-invalid @enderror" id="education" name="education" required>
81                         <option value="">Pilih Tingkat Pendidikan</option>
82                         <option value="SMA" {{ old('education', session('step2_data.education') ?? '') == 'SMA' ? 'selected' : '' }}>SMA</option>
83                         <option value="D3" {{ old('education', session('step2_data.education') ?? '') == 'D3' ? 'selected' : '' }}>D3</option>
84                         <option value="S1" {{ old('education', session('step2_data.education') ?? '') == 'S1' ? 'selected' : '' }}>S1</option>
85                         <option value="S2" {{ old('education', session('step2_data.education') ?? '') == 'S2' ? 'selected' : '' }}>S2</option>
86                         <option value="S3" {{ old('education', session('step2_data.education') ?? '') == 'S3' ? 'selected' : '' }}>S3</option>
87                     </select>
88                     @error('education')
89                     <div class="invalid-feedback">{{ $message }}</div>
90                     @enderror
91                 </div>
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95         </div>
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97     </div>
98
99     <div class="row justify-content-end">
100        <div class="col-3">
101            <button type="button" class="btn btn-primary" data-dismiss="modal" data-bs-dismiss="modal">Batal
102            <button type="button" class="btn btn-primary" data-dismiss="modal" data-bs-dismiss="modal">Simpan
103        </div>
104    </div>
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1432 </div>
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1434 </div>
1435
1436 </div>
14
```

```
82         value="{{ old('major', session('step2_data.major') ?? '') }}"
83         required>
84         @error('major')
85             <div class="invalid-feedback">{{ $message }}</div>
86         @enderror
87     </div>
88
89     <div class="d-flex justify-content-between">
90         <a href="{{ route('multistep.step1') }}" class="btn btn-secondary">
91             <i class="fas fa-arrow-left me-2"></i>Kembali
92         </a>
93         <button type="submit" class="btn btn-primary">
94             Lanjut ke Step 3 <i class="fas fa-arrow-right ms-2"></i>
95         </button>
96     </div>
97     </form>
98 </div>
99 </div>
100 </div>
101 </div>
102 @endsection
```

■ resources/views/multistep/step3.blade.php

```
1  @extends('layouts.app')
2
3  @section('title', 'Step 3 - Pengalaman Kerja')
4
5  @section('content')
6  <div class="row justify-content-center">
7      <div class="col-md-8">
8          <!-- Progress Bar -->
9          <div class="step-progress">
10             <div class="row">
11                 <div class="col-3 step-item completed">
12                     <div class="step-number">✓</div>
13                     <div>Informasi Pribadi</div>
14                 </div>
15                 <div class="col-3 step-item completed">
16                     <div class="step-number">✓</div>
17                     <div>Pendidikan</div>
18                 </div>
19                 <div class="col-3 step-item active">
20                     <div class="step-number">3</div>
21                     <div>Pengalaman</div>
22                 </div>
23                 <div class="col-3 step-item">
24                     <div class="step-number">4</div>
25                     <div>Ringkasan</div>
26                 </div>
27             </div>
28         </div>
29
30         <div class="card">
31             <div class="card-header">
32                 <h4 class="mb-0">Step 3: Pengalaman Kerja</h4>
33             </div>
34             <div class="card-body">
35                 <form method="POST" action="{{ route('multistep.storeStep3') }}">
36                     @csrf
37
38                     <div class="row">
39                         <div class="col-md-6 mb-3">
40                             <label for="current_job" class="form-label">Pekerjaan Saat Ini</label>
41                             <input type="text" class="form-control @error('current_job') is-invalid @enderror"
42                                 id="current_job" name="current_job"
43                                 value="{{ old('current_job', session('step3_data.current_job') ?? '') }}">
44                             @error('current_job')
45                                 <div class="invalid-feedback">{{ $message }}</div>
46                             @enderror
47                         </div>
48                     </div>
49                 </form>
50             </div>
51         </div>
52     </div>
53 </div>
```

```

47      </div>
48
49      <div class="col-md-6 mb-3">
50          <label for="company" class="form-label">Perusahaan</label>
51          <input type="text" class="form-control @error('company') is-invalid @enderror"
52              id="company" name="company"
53              value="{{ old('company', session('step3_data.company') ?? '') }}"
54          @error('company')
55              <div class="invalid-feedback">{{ $message }}</div>
56          @enderror
57      </div>
58  </div>
59
60  <div class="row">
61      <div class="col-md-6 mb-3">
62          <label for="experience_years" class="form-label">Pengalaman Kerja (Tahun) *</label>
63          <input type="number" class="form-control @error('experience_years') is-invalid @enderror"
64              id="experience_years" name="experience_years"
65              value="{{ old('experience_years', session('step3_data.experience_years') ?? '') }}"
66              min="0" max="50" required>
67          @error('experience_years')
68              <div class="invalid-feedback">{{ $message }}</div>
69          @enderror
70      </div>
71  </div>
72
73  <div class="mb-3">
74      <label for="skills" class="form-label">Keahlian/Keterampilan *</label>
75      <textarea class="form-control @error('skills') is-invalid @enderror"
76          id="skills" name="skills" rows="3"
77          placeholder="Contoh: PHP, Laravel, JavaScript, MySQL...">
78          required>{{ old('skills', session('step3_data.skills') ?? '') }}</textarea>
79      @error('skills')
80          <div class="invalid-feedback">{{ $message }}</div>
81      @enderror
82      <div class="form-text">Pisahkan setiap keahlian dengan koma</div>
83  </div>
84
85  <div class="d-flex justify-content-between">
86      <a href="{{ route('multistep.step2') }}" class="btn btn-secondary">
87          <i class="fas fa-arrow-left me-2"></i>Kembali
88      </a>
89      <button type="submit" class="btn btn-primary">
90          Lihat Ringkasan <i class="fas fa-arrow-right ms-2"></i>
91      </button>
92  </div>
93  </form>
94  </div>
95  </div>
96  </div>
97 </div>
98 @endsection

```

■ resources/views/multistep/summary.blade.php

```

1  @extends('layouts.app')
2
3  @section('title', 'Ringkasan Data')
4
5  @section('content')
6  <div class="row justify-content-center">
7      <div class="col-md-8">
8          <!-- Progress Bar -->
9          <div class="step-progress">
10             <div class="row">
11                 <div class="col-3 step-item completed">
12                     <div class="step-number">1</div>

```

```
13      <div>Informasi Pribadi</div>
14  </div>
15  <div class="col-3 step-item completed">
16      <div class="step-number">✓</div>
17      <div>Pendidikan</div>
18  </div>
19  <div class="col-3 step-item completed">
20      <div class="step-number">✓</div>
21      <div>Pengalaman</div>
22  </div>
23  <div class="col-3 step-item active">
24      <div class="step-number">4</div>
25      <div>Ringkasan</div>
26  </div>
27  </div>
28  </div>
29
30  <div class="card">
31      <div class="card-header bg-success text-white">
32          <h4 class="mb-0">Ringkasan Data Anda</h4>
33      </div>
34      <div class="card-body">
35          <!-- Informasi Pribadi -->
36          <div class="mb-4">
37              <h5 class="border-bottom pb-2">
38                  <i class="fas fa-user me-2"></i>Informasi Pribadi
39                  <a href="{{ route('multistep.step1') }}" class="btn btn-sm btn-outline-primary float-end">Edit</a>
40              </h5>
41              <div class="row">
42                  <div class="col-md-6">
43                      <strong>Nama Lengkap:</strong><br>
44                      {{ $step1Data['full_name'] }}
45                  </div>
46                  <div class="col-md-6">
47                      <strong>Email:</strong><br>
48                      {{ $step1Data['email'] }}
49                  </div>
50              </div>
51              <div class="row mt-2">
52                  <div class="col-md-6">
53                      <strong>Telepon:</strong><br>
54                      {{ $step1Data['phone'] }}
55                  </div>
56                  <div class="col-md-6">
57                      <strong>Alamat:</strong><br>
58                      {{ $step1Data['address'] }}
59                  </div>
60              </div>
61          </div>
62
63          <!-- Informasi Pendidikan -->
64          <div class="mb-4">
65              <h5 class="border-bottom pb-2">
66                  <i class="fas fa-graduation-cap me-2"></i>Informasi Pendidikan
67                  <a href="{{ route('multistep.step2') }}" class="btn btn-sm btn-outline-primary float-end">Edit</a>
68              </h5>
69              <div class="row">
70                  <div class="col-md-4">
71                      <strong>Tingkat Pendidikan:</strong><br>
72                      {{ $step2Data['education'] }}
73                  </div>
74                  <div class="col-md-4">
75                      <strong>Institusi:</strong><br>
76                      {{ $step2Data['institution'] }}
77                  </div>
78                  <div class="col-md-4">
79                      <strong>Tahun Lulus:</strong><br>
80                      {{ $step2Data['graduation_year'] }}
81                  </div>
82              </div>
83              <div class="row mt-2">
84                  <div class="col-12">
85                      <strong>Jurusan:</strong><br>
86                      {{ $step2Data['major'] }}
87                  </div>
88              </div>
89          </div>
90      </div>
```

```
90
91     <!-- Pengalaman Kerja -->
92     <div class="mb-4">
93         <h5 class="border-bottom pb-2">
94             <i class="fas fa-briefcase me-2"></i>Pengalaman Kerja
95             <a href="{{ route('multistep.step3') }}" class="btn btn-sm btn-outline-primary float-end">Edit</a>
96         </h5>
97         <div class="row">
98             <div class="col-md-6">
99                 <strong>Pekerjaan Saat Ini:</strong><br>
100                {{ $step3Data['current_job'] ?? 'Tidak disebutkan' }}
101            </div>
102            <div class="col-md-6">
103                <strong>Perusahaan:</strong><br>
104                {{ $step3Data['company'] ?? 'Tidak disebutkan' }}
105            </div>
106        </div>
107        <div class="row mt-2">
108            <div class="col-md-6">
109                <strong>Pengalaman Kerja:</strong><br>
110                {{ $step3Data['experience_years'] }} tahun
111            </div>
112            <div class="col-md-6">
113                <strong>Keahlian:</strong><br>
114                {{ $step3Data['skills'] }}
115            </div>
116        </div>
117    </div>
118
119    <div class="alert alert-info">
120        <i class="fas fa-info-circle me-2"></i>
121        <strong>Perhatian:</strong> Pastikan semua data sudah benar sebelum mengirim.
122    </div>
123
124    <form method="POST" action="{{ route('multistep.complete') }}">
125        @csrf
126        <div class="d-flex justify-content-between">
127            <a href="{{ route('multistep.step3') }}" class="btn btn-secondary">
128                <i class="fas fa-arrow-left me-2"></i>Kembali
129            </a>
130            <button type="submit" class="btn btn-success">
131                <i class="fas fa-check me-2"></i>Kirim Data
132            </button>
133        </div>
134    </form>
135 </div>
136 </div>
137 </div>
138 </div>
139 @endsection
```

■ resources/views/multistep/complete.blade.php

```
1  @extends('layouts.app')
2
3  @section('title', 'Pendaftaran Selesai')
4
5  @section('content')
6  <div class="row justify-content-center">
7      <div class="col-md-6">
8          <div class="card text-center">
9              <div class="card-body py-5">
10                  <div class="mb-4">
11                      <i class="fas fa-check-circle text-success" style="font-size: 4rem;"></i>
12                  </div>
13                  <h2 class="card-title text-success mb-3">Pendaftaran Berhasil!</h2>
14                  <p class="card-text lead mb-4">
15                      Terima kasih telah melengkapi formulir pendaftaran. Data Anda telah berhasil disimpan.
16                  </p>
17
18                  <div class="alert alert-info text-start">
19                      <h6><i class="fas fa-envelope me-2"></i>Informasi Penting:</h6>
20                      <ul class="mb-0">
21                          <li>Anda akan menerima email konfirmasi dalam 24 jam</li>
22                          <li>Proses verifikasi membutuhkan waktu 2-3 hari kerja</li>
23                          <li>Tim kami akan menghubungi Anda untuk langkah selanjutnya</li>
24                      </ul>
25                  </div>
26
27                  <div class="mt-4">
28                      <a href="{{ route('multistep.step1') }}" class="btn btn-primary me-2">
29                          <i class="fas fa-plus me-2"></i>Daftar Lagi
30                      </a>
31                      <a href="/" class="btn btn-outline-secondary">
32                          <i class="fas fa-home me-2"></i>Kembali ke Home
33                      </a>
34                  </div>
35              </div>
36          </div>
37
38          <!-- Debug Data (bisa dihapus di production) -->
39          @if(env('APP_DEBUG'))
40              <div class="card mt-4">
41                  <div class="card-header">
42                      <h6 class="mb-0">Data yang Disimpan (Debug)</h6>
43                  </div>
44                  <div class="card-body">
45                      <pre>{{ json_encode($data, JSON_PRETTY_PRINT) }}</pre>
46                  </div>
47              </div>
48          @endif
49      </div>
50  </div>
51  @endsection
```

3. Hasil dan Pembahasan

Pada praktikum ini dilakukan beberapa percobaan untuk memahami cara Laravel menangani form, validasi, serta pengiriman data dari user ke server.

1. Menangani Request dan Response View di Laravel 12

Pada bagian ini dilakukan pembuatan form sederhana yang dikirim melalui route menggunakan method POST. Data dari form kemudian diterima oleh controller dan dikirim kembali ke halaman hasil (result.blade.php). Dari sini dipahami bahwa Laravel menggunakan sistem route, controller, dan view untuk mengatur alur data dari pengguna sampai ke tampilan akhir.

2. Validasi Kustom dan Pesan Error

Langkah ini menunjukkan bagaimana Laravel memvalidasi input dengan berbagai rule seperti required, email, dan min. Selain itu juga dibuat pesan error kustom agar lebih mudah dipahami pengguna. Saat input tidak sesuai aturan, Laravel akan otomatis mengembalikan pesan error tanpa harus membuat logika manual. Hal ini memperlihatkan betapa mudahnya Laravel dalam menangani validasi form hanya dengan beberapa baris kode.

3. Multi-Step Form Submission

Praktikum ini adalah bagian yang paling menarik karena melibatkan form yang diisi secara bertahap. Setiap langkah menyimpan data sementara ke session sebelum akhirnya semua data dikumpulkan dan ditampilkan di halaman summary. Sistem ini memperlihatkan bagaimana Laravel memanfaatkan session untuk menyimpan data pengguna sementara tanpa perlu database terlebih dahulu. Proses ini juga memperlihatkan struktur controller dan view yang terorganisir untuk setiap langkah form.

Secara keseluruhan, hasil dari praktikum menunjukkan bahwa Laravel memberikan kemudahan besar dalam membuat sistem form yang aman, terstruktur, dan fleksibel. Dengan fitur validasi otomatis dan CSRF protection bawaan, keamanan dan keakuratan data pengguna dapat lebih terjamin.

4. Kesimpulan

Dari hasil praktikum ini dapat disimpulkan bahwa Laravel memiliki sistem yang kuat dan efisien untuk menangani form input, validasi, dan pengiriman data. Validasi di Laravel dapat dilakukan dengan mudah melalui berbagai cara seperti controller validation dan form request validation, serta mendukung pesan error kustom yang membantu pengguna memahami kesalahan input. Selain itu, penggunaan CSRF protection sangat penting untuk mencegah serangan berbahaya yang bisa mengirimkan data tanpa izin pengguna. Melalui multi-step form, dipelajari juga bagaimana Laravel bisa menyimpan data sementara dengan session agar pengguna dapat mengisi data secara bertahap. Secara keseluruhan, praktikum ini memperdalam pemahaman tentang bagaimana membuat sistem form yang aman, nyaman, dan profesional dengan menggunakan framework Laravel 12.

5. Referensi

- CSRF Protectoin - https://www-inmotionhosting-com.translate.goog/support/edu/laravel/csrf-protection/?_x_tr_sl=en&_x_tr_tl=id&_x_tr_hl=id&_x_tr_pto=tc
- Data Validation - https://www-informatica-com.translate.goog/services-and-training/glossary-of-terms/data-validation-definition.html?_x_tr_sl=en&_x_tr_tl=id&_x_tr_hl=id&_x_tr_pto=tc

- <https://hackmd.io/@mohdrzu/HJWzYp7Reg#Praktikum>
-