## **Connection of Controller with View: Part-2**

**Objective**: Understand how controllers work and how to route requests to them.

# **Example 1: Using If-Else in Controller**

#### ExampleController.php

```
namespace App\Http\Controllers;

use Illuminate\Http\Request;

class ExampleController extends Controller
{
    public function checkCondition()
    {
        $value = 15; // Static value for demonstration

        if ($value > 10) {
            $message = "The value is greater than 10.";
        } else {
            $message = "The value is 10 or less.";
        }

        return view('condition', ['message' => $message]);
    }
}
```

#### View: resources/views/condition.blade.php

```
<!DOCTYPE html>
<html>
<head>
    <title>Condition Example</title>
</head>
<body>
    <h1>{{ $message }}</h1>
</body>
</html>
```

```
use App\Http\Controllers\ExampleController;
Route::get('/check-condition', [ExampleController::class, 'checkCondition']);
```

Example 2: Using For Loop in Controller

```
namespace App\Http\Controllers;
use Illuminate\Http\Request;
class ExampleController extends Controller
{
   public function generateNumbers()
   {
       $numbers = [];
       for ($i = 1; $i <= 10; $i++) {
            $numbers[] = $i;
       }
       return view('numbers', ['numbers' => $numbers]);
   }
}
```

View: resources/views/numbers.blade.php

```
<!DOCTYPE html>
<html>
<head>
<title>Numbers Example</title>
</head>
<body>
<h1>Generated Numbers</h1>

@foreach ($numbers as $number)
{{ $number }}
@endforeach

</body>
</html>
}
```

```
use App\Http\Controllers\ExampleController;
Route::get('/numbers', [ExampleController::class, 'generateNumbers']);
```

# Example 3: Using a Switch in Controller

ExampleController.php

```
namespace App\Http\Controllers;
use Illuminate\Http\Request;
class ExampleController extends Controller
  public function chooseColor($color)
     switch ($color) {
       case 'red':
         $message = "You chose Red.";
         break;
       case 'blue':
         $message = "You chose Blue.";
         break;
       case 'green':
         $message = "You chose Green.";
         break;
       default:
         $message = "Invalid color.";
     return view('color', ['message' => $message]);
```

View: resources/views/color.blade.php

```
<!DOCTYPE html>
<html>
<head>
    <title>Color Choice</title>
</head>
<body>
    <h1>{{ $message }}</h1>
</body>
</html>
```

```
use App\Http\Controllers\ExampleController;

Route::get('/choose-color/{color}', [ExampleController::class, 'chooseColor']);
```

# Example 4: Random Number Generator

ExampleController.php

```
namespace App\Http\Controllers;
use Illuminate\Http\Request;
class ExampleController extends Controller
{
    public function randomNumbers()
    {
        $numbers = [];
        for ($i = 0; $i < 5; $i++) {
            $numbers[] = rand(1, 100); // Generate random numbers between 1 and 100
        }
        return view('random', ['numbers' => $numbers]);
    }
}
```

View: resources/views/random.blade.php

```
use App\Http\Controllers\ExampleController;

Route::get('/random', [ExampleController::class, 'randomNumbers']);
```

# **Example 5: Simulate Conditional Rendering**

## ExampleController.php

```
namespace App\Http\Controllers;
use Illuminate\Http\Request;

class ExampleController extends Controller
{
    public function checkAccess($age)
    {
        if ($age >= 18) {
            return view('adult', ['age' => $age]);
        } else {
            return view('minor', ['age' => $age]);
        }
    }
}
```

View: resources/views/adult.blade.php

## View: resources/views/minor.blade.php

```
use App\Http\Controllers\ExampleController;

Route::get('/check-access/{age}', [ExampleController::class, 'checkAccess']);
```

# Example 6: Simulate an API Call

#### ExampleController.php

View: resources/views/api\_simulation.blade.php

```
<!DOCTYPE html>
<html>
<head>
  <title>API Simulation</title>
</head>
<body>
  <h1>API Results:</h1>
  @if ($data['status'] === 'success')
       @foreach ($data['results'] as $result)
         {{ $result['name'] }}: {{ $result['score'] }}
       @endforeach
    @else
    Failed to fetch data.
  @endif
</body>
</html>
```

## Route in web.php

use App\Http\Controllers\ExampleController;

# Example 7: Generate a Chessboard Grid

### ExampleController.php

```
namespace App\Http\Controllers;
use Illuminate\Http\Request;

class ExampleController extends Controller
{
   public function chessboard()
   {
        $rows = 8;
        $cols = 8;
        return view('chessboard', ['rows' => $rows, 'cols' => $cols]);
   }
}
```

#### View: resources/views/chessboard.blade.php

```
<!DOCTYPE html>
<html>
<head>
  <title>Chessboard</title>
 <style>
    table { border-collapse: collapse; }
    td { width: 50px; height: 50px; text-align: center; }
    .black { background-color: black; color: white; }
    .white { background-color: white; }
 </style>
</head>
<body>
 <h1>Chessboard</h1>
 @ for ($i = 0; $i < $rows; $i++)
      @ for (\$j = 0; \$j < \$cols; \$j++)
          @php
            sisBlack = (si + sj) \% 2 === 0;
          @endphp
          @endfor
```

```
@endfor

</body>
</html>
Route in web.php
```

```
use App\Http\Controllers\ExampleController;
```

Route::get('/chessboard', [ExampleController::class, 'chessboard']);

## **Example 8: Dynamic Form with Validation**

#### ExampleController.php

# View: resources/views/form.blade.php

```
<!DOCTYPE html>
<html>
<head>
    <title>Form Example</title>
</head>
<body>
    <h1>Enter Your Details</h1>
    <form action="/submit-form" method="POST">
        @csrf
        <label for="name">Name:</label>
```

```
<input type="text" id="name" name="name">
    <br/>br>
    <label for="age">Age:</label>
    <input type="number" id="age" name="age">
    <br>
    <button type="submit">Submit</button>
  </form>
  @if ($errors->any())
    <div>
      <h3>Errors:</h3>
      ul>
         @foreach ($errors->all() as $error)
           {| $error }}
         @endforeach
      </div>
  @endif
</body>
</html>
```

View: resources/views/form\_result.blade.php

```
use App\Http\Controllers\ExampleController;

Route::get('/form', [ExampleController::class, 'showForm']);

Route::post('/submit-form', [ExampleController::class, 'validateForm']);
```