**Laravel CRUD Example**

1. Konfigurasi Database

DB\_CONNECTION=mysql

DB\_HOST=127.0.0.1

DB\_PORT=3306

DB\_DATABASE=nama\_database

DB\_USERNAME=root

DB\_PASSWORD=

1. Migration dan Model

php artisan make:model Employee --migration

Selanjutnya buka folder migrations yang ada di direktori direktori-laravel-anda/**database/migrations** lalu modifikasi skema field pada **create\_employees \_table.php** seperti kode di bawah ini :

<?php

use Illuminate\Database\Migrations\Migration;

use Illuminate\Database\Schema\Blueprint;

use Illuminate\Support\Facades\Schema;

class CreateEmployeeModelsTable extends Migration

{

    /\*\*

     \* Run the migrations.

     \*

     \* @return void

     \*/

    public function up()

    {

        Schema::create('employees, function (Blueprint $table) {

$table->id();

            $table->string('emp\_id');

            $table->string('emp\_name');

            $table->string('position');

            $table->string('emp\_email');

            $table->string('emp\_phone');

            $table->text('emp\_address');

            $table->timestamps();

        });

    }

    /\*\*

     \* Reverse the migrations.

     \*

     \* @return void

     \*/

    public function down()

    {

        Schema::dropIfExists('employees);

    }

}

Jika sudah kita jalankan command di bawah ini agar field yang kita buat akan ter-migrasi ke database:

php artisan migrate

1. Resource Controller

php artisan make:controller EmployeeController --resource --model=Employee

Jika berhasil maka akan terdapat file EmployeeController.php di dalam direktori app/Http/Controllers.

Dalam EmployeeController.php sudah tersedia beberapa function, yaitu:

* index()
* create()
* store()
* show()
* edit()
* destroy()

Sekarang kita modifikasi isi file tersebut seperti kode di bawah ini:

<?php

namespace App\Http\Controllers;

use App\Models\EmployeeModel;

use Illuminate\Http\Request;

use Illuminate\Support\Facades\DB;

class EmployeeController extends Controller

{

    /\*\*

     \* Display a listing of the resource.

     \*

     \* @return \Illuminate\Http\Response

     \*/

    public function index()

    {

        //mengambil semua record pada tabel employees

        $employees = EmployeeModel::all();

        return view('employees.index', ['employees' => $employees]);

    }

    /\*\*

     \* Show the form for creating a new resource.

     \*

     \* @return \Illuminate\Http\Response

     \*/

    public function create()

    {

        //menampilkan halaman create

        return view('employees.create');

    }

    /\*\*

     \* Store a newly created resource in storage.

     \*

     \* @param  \Illuminate\Http\Request  $request

     \* @return \Illuminate\Http\Response

     \*/

    public function store(Request $request)

    {

        //validasi input data employee

        $request->validate([

            'emp\_id' => ['required', 'string', 'max:10','unique:employee\_models'],

            'emp\_name' => ['required', 'string', 'max:100'],

            'position' => ['required', 'string', 'max:100'],

            'emp\_email' =>['required', 'string', 'email', 'max:50', 'unique:employee\_models'],

            'emp\_phone' => ['required', 'string', 'max:15','unique:employee\_models'],

            'emp\_address' => 'required',

        ]);

        //insert setiap request dari form ke dalam database

        //Jika menggunakan metode ini, nama field pada tabel dan form harus sama

        EmployeeModel::create($request->all());

        /// redirect jika sukses menyimpan data

        return redirect()->route('employees.index')

                        ->with('success','Employee Data saved successfully.');

    }

    /\*\*

     \* Display the specified resource.

     \*

     \* @param  \App\Models\EmployeeModel  $employeeModel

     \* @return \Illuminate\Http\Response

     \*/

    public function show(EmployeeModel $employee)

    {

        // dengan menggunakan resource, kita bisa memanfaatkan model sebagai parameter

        // berdasarkan id yang dipilih

        // href="{{ route('employee.show',$employeeModel->id) }}

        return view('employees.show',compact('employee'));

    }

    /\*\*

     \* Show the form for editing the specified resource.

     \*

     \* @param  \App\Models\EmployeeModel  $employeeModel

     \* @return \Illuminate\Http\Response

     \*/

    public function edit(EmployeeModel $employee)

    {

        /// dengan menggunakan resource, kita bisa memanfaatkan model sebagai parameter

        /// berdasarkan id yang dipilih

        /// href="{{ route('employees.edit',$employee->id) }}

        return view('employees.edit',compact('employee'));

    }

    /\*\*

     \* Update the specified resource in storage.

     \*

     \* @param  \Illuminate\Http\Request  $request

     \* @param  \App\Models\EmployeeModel  $employeeModel

     \* @return \Illuminate\Http\Response

     \*/

    public function update(Request $request, EmployeeModel $employee)

    {

        //validasi update data employee

        $request->validate([

            'emp\_id' => ['required', 'string', 'max:10'],

            'emp\_name' => ['required', 'string', 'max:100'],

            'position' => ['required', 'string', 'max:50'],

            'emp\_email' =>['required', 'string', 'email', 'max:50'],

            'emp\_phone' => ['required', 'string', 'max:15'],

            'emp\_address' => 'required',

        ]);

        /// mengubah data berdasarkan request dan parameter yang dikirimkan

        $employee->update($request->all());

        /// setelah berhasil mengubah data

        return redirect()->route('employees.index')

                        ->with('success','Employee data updated successfully');

    }

    /\*\*

     \* Remove the specified resource from storage.

     \*

     \* @param  \App\Models\EmployeeModel  $employeeModel

     \* @return \Illuminate\Http\Response

     \*/

    public function destroy(EmployeeModel $employee)

    {

        /// melakukan hapus data berdasarkan parameter yang dikirimkan

        $employee->delete();

        return redirect()->route('employees.index')

                        ->with('success','Employee data deleted successfully');

    }

}

1. Modifikasi Model

    protected $fillable = [

        'emp\_id',

        'emp\_name',

        'position',

        'emp\_email',

        'emp\_phone',

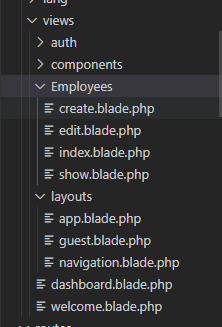
        'emp\_address'

    ];

1. Tambahkan Route

use App\Http\Controllers\EmployeeController;

Route::resource('employees', EmployeeController::class);

1. Buat halaman view

Buat folder **employees** di dalam **views**

Kemudian buat file-file berikut :

* index.blade.php
* create.blade.php
* show.blade.php
* edit.blade.php

Index.blade.php

<x-app-layout>

    <x-slot name="header">

        <h2 class="font-semibold text-xl text-gray-800 leading-tight">

            {{ \_\_('Employees') }}

        </h2>

    </x-slot>

    <div class="py-12">

        <div class="max-w-7xl mx-auto sm:px-6 lg:px-8">

            <div class="bg-white overflow-hidden shadow-sm sm:rounded-lg">

                <div class="p-6 bg-white border-b border-gray-200">

                    <a href="{{ route('employees.create') }}">

                        <x-button class="mb-4 bg-blue-500 hover:bg-blue-700 text-white font-bold py-2 px-4 rounded">

                            {{ \_\_('Add Employee') }}

                        </x-button>

                    </a>

                <!-- This example requires Tailwind CSS v2.0+ -->

                <div class="flex flex-col">

                    <div class="-my-2 overflow-x-auto sm:-mx-6 lg:-mx-8">

                    <div class="py-2 align-middle inline-block min-w-full sm:px-6 lg:px-8">

                        <div class="shadow overflow-hidden border-b border-gray-200 sm:rounded-lg">

                        <table class="min-w-full divide-y divide-gray-200">

                            <thead class="bg-gray-50">

                            <tr>

                                <th scope="col" class="px-6 py-3 text-left text-xs font-medium text-gray-500 uppercase tracking-wider">

                                Emp. Id

                                </th>

                                <th scope="col" class="px-6 py-3 text-left text-xs font-medium text-gray-500 uppercase tracking-wider">

                                Name

                                </th>

                                <th scope="col" class="px-6 py-3 text-left text-xs font-medium text-gray-500 uppercase tracking-wider">

                                Position

                                </th>

                                <th scope="col" class="px-6 py-3 text-left text-xs font-medium text-gray-500 uppercase tracking-wider">

                                Email

                                </th>

                                <th scope="col" class="px-6 py-3 text-left text-xs font-medium text-gray-500 uppercase tracking-wider">

                                Phone

                                </th>

                                <th scope="col" class="px-6 py-3 text-left text-xs font-medium text-gray-500 uppercase tracking-wider">

                                Address

                                </th>

                                <th colspan="2" >

                                </th>

                            </tr>

                            </thead>

                            <tbody class="bg-white divide-y divide-gray-200">

                                @foreach ($employees as $employee )

                            <tr>

                                <td class="px-6 py-4 whitespace-nowrap text-sm text-gray-500">

                                    {{ $employee->emp\_id }}

                                </td>

                                <td class="px-6 py-4 whitespace-nowrap text-sm text-gray-500">

                                    {{ $employee->emp\_name }}

                                </td>

                                <td class="px-6 py-4 whitespace-nowrap text-sm text-gray-500">

                                    {{ $employee->position }}

                                </td>

                                <td class="px-6 py-4 whitespace-nowrap text-sm text-gray-500">

                                    {{ $employee->emp\_email }}

                                </td>

                                <td class="px-6 py-4 whitespace-nowrap text-sm text-gray-500">

                                    {{ $employee->emp\_phone }}

                                </td>

                                <td class="px-6 py-4 whitespace-nowrap text-sm text-gray-500">

                                    {{ $employee->emp\_address }}

                                </td>

                                <td>

                                    <a href="{{ route('employees.show', $employee->id) }}">

                                        <x-button>

                                            {{ \_\_('Show') }}

                                        </x-button>

                                    </a>

                                    <a href="{{ route('employees.edit', $employee->id) }}">

                                        <x-button>

                                            {{ \_\_('Edit') }}

                                        </x-button>

                                    </a>

                                    <form class="inline-block" method="POST" action="{{ url('employees', $employee->id ) }}">

                                        @csrf

                                        @method('DELETE')

                                        <x-button onclick="return confirm('Apakah Anda yakin ingin menghapus data ini?')">

                                            {{ \_\_('Delete') }}

                                        </x-button>

                                    </form>

                                </td>

                            </tr>

                            @endforeach

                            </tbody>

                        </table>

                        </div>

                    </div>

                    </div>

                </div>

                </div>

            </div>

        </div>

    </div>

</x-app-layout>

show.blade.php

<x-app-layout>

    <x-slot name="header">

        <h2 class="font-semibold text-xl text-gray-800 leading-tight">

            {{ \_\_('Employees') }}

        </h2>

    </x-slot>

    <div class="py-5">

        <div class="max-w-7xl mx-auto sm:px-6 lg:px-8">

            <div class="bg-white overflow-hidden shadow-sm sm:rounded-lg">

                <div class="p-6 bg-white border-b border-gray-200">

                    <div class="container mx-auto">

                            <div class="text-right">

                                <a href="{{ route('employees.index') }}">

                                    <x-button class="mb-4">

                                        {{ \_\_('Back') }}

                                    </x-button>

                                </a>

                            </div>

                                <div class="grid lg:grid-cols-2 gap-4">

                                    <!-- Emp ID -->

                                    <div>

                                        <x-label for="emp\_id" :value="\_\_('Employee ID')" />

                                        <x-input id="emp\_id" class="block mt-1 w-full" type="text" name="emp\_id" value="{{ $employee->emp\_id }}" readonly />

                                    </div>

                                    <!-- Name -->

                                    <div>

                                        <x-label for="emp\_name" :value="\_\_('Name')" />

                                        <x-input id="emp\_name" class="block mt-1 w-full" type="text" name="emp\_name" value="{{ $employee->emp\_name }}" readonly />

                                    </div>

                                    <!-- Position -->

                                    <div class="mt-4">

                                        <x-label for="position" :value="\_\_('Position')" />

                                        <x-input id="position" class="block mt-1 w-full" type="text" name="position" value="{{ $employee->position }}" readonly />

                                    </div>

                                    <!-- Email-->

                                    <div class="mt-4">

                                        <x-label for="emp\_email" :value="\_\_('Email')" />

                                        <x-input id="emp\_email" class="block mt-1 w-full" type="email" name="emp\_email" value="{{ $employee->emp\_email }}" readonly />

                                    </div>

                                    <!-- phone-->

                                    <div class="mt-4">

                                        <x-label for="emp\_phone" :value="\_\_('Phone Number')" />

                                        <x-input id="emp\_phone" class="block mt-1 w-full" type="text" name="emp\_phone" value="{{ $employee->emp\_phone }}" readonly />

                                    </div>

                                    <!-- address-->

                                    <div class="mt-4">

                                        <x-label for="emp\_address" :value="\_\_('Address')" />

                                        <x-input id="emp\_address" class="block mt-1 w-full" type="text" name="emp\_address" value="{{ $employee->emp\_address }}" readonly />

                                    </div>

                                </div>

                    </div>

                </div>

            </div>

        </div>

    </div>

</x-app-layout>

create.blade.php

<x-app-layout>

    <x-slot name="header">

        <h2 class="font-semibold text-xl text-gray-800 leading-tight">

            {{ \_\_('Employees') }}

        </h2>

    </x-slot>

    <div class="py-5">

        <div class="max-w-7xl mx-auto sm:px-6 lg:px-8">

            <div class="bg-white overflow-hidden shadow-sm sm:rounded-lg">

                <div class="p-6 bg-white border-b border-gray-200">

                    <div class="container mx-auto">

                        @if ($errors->any())

                            <div class="mb-3 bg-red-100 border border-red-400 text-red-700 px-4 py-3 rounded relative" role="alert">

                                <strong>Whoops!</strong> There were some problems with your input.<br><br>

                                <ul>

                                    @foreach ($errors->all() as $error)

                                        <li>{{ $error }}</li>

                                    @endforeach

                                </ul>

                              </div>

                        @endif

                            <div class="text-right">

                                <a href="{{ route('employees.index') }}">

                                    <x-button class="mb-4">

                                        {{ \_\_('Back') }}

                                    </x-button>

                                </a>

                            </div>

                            <form action="{{ route('employees.store') }}" method="POST">

                                @csrf

                                <div class="grid lg:grid-cols-2 gap-4">

                                    <!-- Emp ID -->

                                    <div>

                                        <x-label for="emp\_id" :value="\_\_('Employee ID')" />

                                        <x-input id="emp\_id" class="block mt-1 w-full" type="text" name="emp\_id" :value="old('emp\_id')" required autofocus />

                                    </div>

                                    <!-- Name -->

                                    <div>

                                        <x-label for="emp\_name" :value="\_\_('Name')" />

                                        <x-input id="emp\_name" class="block mt-1 w-full" type="text" name="emp\_name" :value="old('emp\_name')" required />

                                    </div>

                                    <!-- Position -->

                                    <div class="mt-4">

                                        <x-label for="position" :value="\_\_('Position')" />

                                        <x-input id="position" class="block mt-1 w-full" type="text" name="position" :value="old('position')" required />

                                    </div>

                                    <!-- Email-->

                                    <div class="mt-4">

                                        <x-label for="emp\_email" :value="\_\_('Email')" />

                                        <x-input id="emp\_email" class="block mt-1 w-full" type="email" name="emp\_email" :value="old('emp\_email')" required />

                                    </div>

                                    <!-- phone-->

                                    <div class="mt-4">

                                        <x-label for="emp\_phone" :value="\_\_('Phone Number')" />

                                        <x-input id="emp\_phone" class="block mt-1 w-full" type="text" name="emp\_phone" :value="old('emp\_phone')" required />

                                    </div>

                                    <!-- address-->

                                    <div class="mt-4">

                                        <x-label for="emp\_address" :value="\_\_('Address')" />

                                        <x-input id="emp\_address" class="block mt-1 w-full" type="text" name="emp\_address" :value="old('emp\_address')" required />

                                    </div>

                                </div>

                                <div class="text-right">

                                   <x-button class="mt-4 ">

                                    {{ \_\_('Save') }}

                                </x-button>

                                </div>

                            </form>

                    </div>

                </div>

            </div>

        </div>

    </div>

</x-app-layout>

edit.blade.php

<x-app-layout>

    <x-slot name="header">

        <h2 class="font-semibold text-xl text-gray-800 leading-tight">

            {{ \_\_('Employees') }}

        </h2>

    </x-slot>

    <div class="py-5">

        <div class="max-w-7xl mx-auto sm:px-6 lg:px-8">

            <div class="bg-white overflow-hidden shadow-sm sm:rounded-lg">

                <div class="p-6 bg-white border-b border-gray-200">

                    <div class="container mx-auto">

                        @if ($errors->any())

                            <div class="mb-3 bg-red-100 border border-red-400 text-red-700 px-4 py-3 rounded relative" role="alert">

                                <strong>Whoops!</strong> There were some problems with your input.<br><br>

                                <ul>

                                    @foreach ($errors->all() as $error)

                                        <li>{{ $error }}</li>

                                    @endforeach

                                </ul>

                              </div>

                        @endif

                            <div class="text-right">

                                <a href="{{ route('employees.index') }}">

                                    <x-button class="mb-4">

                                        {{ \_\_('Back') }}

                                    </x-button>

                                </a>

                            </div>

                            <form action="{{ route('employees.update',$employee->id) }}" method="POST">

                                @csrf

                                @method('PUT')

                                <div class="grid lg:grid-cols-2 gap-4">

                                    <!-- Emp ID -->

                                    <div>

                                        <x-label for="emp\_id" :value="\_\_('Employee ID')" />

                                        <x-input id="emp\_id" class="block mt-1 w-full" type="text" name="emp\_id" value="{{ $employee->emp\_id }}" required />

                                    </div>

                                    <!-- Name -->

                                    <div>

                                        <x-label for="emp\_name" :value="\_\_('Name')" />

                                        <x-input id="emp\_name" class="block mt-1 w-full" type="text" name="emp\_name" value="{{ $employee->emp\_name }}" required />

                                    </div>

                                    <!-- Position -->

                                    <div class="mt-4">

                                        <x-label for="position" :value="\_\_('Position')" />

                                        <x-input id="position" class="block mt-1 w-full" type="text" name="position" value="{{ $employee->position }}" required />

                                    </div>

                                    <!-- Email-->

                                    <div class="mt-4">

                                        <x-label for="emp\_email" :value="\_\_('Email')" />

                                        <x-input id="emp\_email" class="block mt-1 w-full" type="email" name="emp\_email" value="{{ $employee->emp\_email }}" required />

                                    </div>

                                    <!-- phone-->

                                    <div class="mt-4">

                                        <x-label for="emp\_phone" :value="\_\_('Phone Number')" />

                                        <x-input id="emp\_phone" class="block mt-1 w-full" type="text" name="emp\_phone" value="{{ $employee->emp\_phone }}" required />

                                    </div>

                                    <!-- address-->

                                    <div class="mt-4">

                                        <x-label for="emp\_address" :value="\_\_('Address')" />

                                        <x-input id="emp\_address" class="block mt-1 w-full" type="text" name="emp\_address" value="{{ $employee->emp\_address }}" required />

                                    </div>

                                </div>

                                <div class="text-right">

                                    <x-button class="mt-4 ">

                                     {{ \_\_('Update') }}

                                 </x-button>

                                 </div>

                            </form>

                    </div>

                </div>

            </div>

        </div>

    </div>

</x-app-layout>

1. Coba jalankan setiap langkah yang dilakukan.

Referensi :

* <https://www.wahyunanangwidodo.com/2021/04/tutorial-crud-laravel-8-mysql-database.html>
* Laravel Docs
* Tailwind CSS Docs