

**FRAMEWORK PHP: LARAVEL**  
**CRUD (CREATE, READ, UPDATE, DESTROY)**  
**KL PEMROGRAMAN WEB LANJUT**

### SETTING UP CRUD

1. CRUD digunakan untuk manajemen suatu resource. Dalam praktikum ini akan dibuat CRUD untuk manajemen data admin. Dan hanya admin yang dapat mengaksesnya.
2. Buat controller ManageAdminController.php di folder app/Http/Controller yang berisi fungsi CRUD dengan cara mengetikkan syntax berikut di cmd: ***php artisan make:controller ManageAdminController --resource***. Syntax --resource digunakan untuk *generate* fungsi CRUD di dalam controller ManageAdminController.
3. Tambahkan fungsi construct di ManageAdminController.php.

```
public function __construct()
{
    $this->middleware('auth:admin');
}
```

4. Model yang akan digunakan yaitu Admin.php yang ada di folder app.
5. Buat routing untuk semua fungsi dalam ManageAdminController dengan menambahkan syntax berikut ke dalam file web.php di folder routes. Letakkan ke dalam prefix admin.

```
Route::resource('manageadmins', 'ManageAdminController');
```

6. Untuk memastikan route untuk crud manage admin berjalan dengan baik, dapat dicek dengan melihat daftar route, yaitu dengan mengetikkan syntax: ***php artisan route:list***.

GET HEAD	admin/manageadmins	manageadmins.index	App\Http\Controllers\ManageAdminController@index	web,auth:admin
POST	admin/manageadmins	manageadmins.store	App\Http\Controllers\ManageAdminController@store	web,auth:admin
GET HEAD	admin/manageadmins/create	manageadmins.create	App\Http\Controllers\ManageAdminController@create	web,auth:admin
GET HEAD	admin/manageadmins/{manageadmin}	manageadmins.show	App\Http\Controllers\ManageAdminController@show	web,auth:admin
PUT PATCH	admin/manageadmins/{manageadmin}	manageadmins.update	App\Http\Controllers\ManageAdminController@update	web,auth:admin
DELETE	admin/manageadmins/{manageadmin}	manageadmins.destroy	App\Http\Controllers\ManageAdminController@destroy	web,auth:admin
GET HEAD	admin/manageadmins/{manageadmin}/edit	manageadmins.edit	App\Http\Controllers\ManageAdminController@edit	web,auth:admin

### "CREATE" FOR CRUD

1. Modifikasi fungsi create dalam controller ManageAdminController.php sebagai berikut.

```
public function create()
{
    return view('manageadmins.create');
}
```

2. Buat view untuk **create.blade.php** dalam folder **resources/views/manageadmins**.

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

@section('logout')
<a href="{{ route('admin.logout') }}"
    onclick="event.preventDefault();
        document.getElementById('logout-form').submit();">
    Logout
</a>
```

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```

<form id="logout-form" action="{{ route('admin.logout') }}" method="POST" style="display: none;">
    {{ csrf_field() }}
</form>
@endsection

@section('content')
<div class="container">
<div class="row">
<div class="col-md-8 col-md-offset-2">
    <h1>Create Account</h1>

    @if (count($errors) > 0)
        <div class="alert alert-danger">
            <strong>Sorry!</strong> Something wrong with your input data.<br><br>
            <ul>
                @foreach ($errors->all() as $error)
                    <li>{{ $error }}</li>
                @endforeach
            </ul>
        </div>
    @endif

    {!! Form::open(array('route' => 'manageadmins.store','method'=>'POST')) !!}
    <div class="row">
        <div class="col-xs-12 col-sm-12 col-md-12">
            <div class="form-group">
                <strong>Name:</strong>
                {!! Form::text('name', null, array('placeholder' => 'Name','class' => 'form-control')) !!}
            </div>
        </div>
        <div class="col-xs-12 col-sm-12 col-md-12">
            <div class="form-group">
                <strong>Email:</strong>
                {!! Form::text('email', null, array('placeholder' => 'Email','class' => 'form-control')) !!}
            </div>
        </div>
        <div class="col-xs-12 col-sm-12 col-md-12">
            <div class="form-group">
                <strong>Job title:</strong>
                {!! Form::text('job_title', null, array('placeholder' => 'Job title','class' => 'form-control')) !!}
            </div>
        </div>
        <div class="col-xs-12 col-sm-12 col-md-12">
            <div class="form-group">
                <strong>Password:</strong>
                {!! Form::password('password', array('placeholder' => 'Password','class' => 'form-control')) !!}
            </div>
        </div>
        <div class="col-xs-12 col-sm-12 col-md-12">
            <div class="form-group">
                <strong>Confirm Password:</strong>
                {!! Form::password('confirm-password', array('placeholder' => 'Confirm Password','class' =>
'form-control')) !!}
            </div>
        </div>
        <div class="col-xs-12 col-sm-12 col-md-12 text-center">
            <button type="submit" class="btn btn-primary">Submit</button>
        </div>
    </div>
    {!! Form::close() !!}
</div>
</div>
</div>
@endsection

```

## **INSERT INTO DATABASE AND VALIDATION**

1. Modifikasi fungsi store dalam controller ManageAdminController.php sebagai berikut.

```
public function store(Request $request)
{
    $this->validate($request, [
        'name' => 'required',
        'email' => 'required|email|unique:users,email',
        'job_title' => 'required',
        'password' => 'required|min:6|same:confirm-password',
    ]);

    $input = $request->all();
    $input['password'] = Hash::make($input['password']);

    $admin = Admin::create($input);

    return redirect()->route('manageadmins.index')
        ->with('success','Admin successfully added');
}
```

2. Karena dalam fungsi store menggunakan model Admin dan Hash maka perlu import class tersebut.

```
use App\Http\Controllers\Controller;
use App\Admin;
use Hash;
```

3. Coba login sebagai Admin. Kemudian akses <http://127.0.0.1:8000/admin/manageadmins/create>. Tambahkan akun admin, kemudian cek ke database. Ekspektasinya sudah berhasil membuat data admin.

## **READ ADMIN ACCOUNT FROM DATABASE**

1. Modifikasi fungsi show dalam controller ManageAdminController.php sebagai berikut.

```
public function show($id)
{
    $admin = Admin::find($id);
    return view('manageadmins.show',compact('admin'));
}
```

2. Buat view untuk **show.blade.php** dalam folder **resources/views/manageadmins**.

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

@section('logout')
<a href="{{ route('admin.logout') }}"
    onclick="event.preventDefault();
        document.getElementById('logout-form').submit();">
    Logout
</a>
```

```
<form id="logout-form" action="{{ route('admin.logout') }}" method="POST" style="display: none;">
    {{ csrf_field() }}
</form>
@endsection
@section('content')
<div class="container">
    <div class="row">
        <div class="col-md-8 col-md-offset-2">
            <h1>Account Detail</h1>
            <div class="col-xs-12 col-sm-12 col-md-12">
                <div class="form-group">
                    <strong>Name:</strong>
                    {{ $admin->name }}
                </div>
            </div>
            <div class="col-xs-12 col-sm-12 col-md-12">
                <div class="form-group">
                    <strong>Email:</strong>
                    {{ $admin->email }}
                </div>
            </div>
            <div class="col-xs-12 col-sm-12 col-md-12">
                <div class="form-group">
                    <strong>Job title:</strong>
                    {{ $admin->job_title }}
                </div>
            </div>
        </div>
    </div>
</div>
@endsection
```

3. Coba login sebagai Admin. Kemudian akses <http://127.0.0.1:8000/admin/manageadmins/> [ketikkan id admin], misal: <http://127.0.0.1:8000/admin/manageadmins/1>. Ekspektasinya akan menampilkan data admin per id sesuai dengan yang ada dalam database.

## READ CRUD AND PAGINATION

1. Modifikasi fungsi index dalam controller ManageAdminController.php sebagai berikut.

```
public function index(Request $request)
{
    $admins = Admin::orderBy('id','DESC')->paginate(5);
    return view('manageadmins.index',compact('admins'))
        ->with('i', ($request->input('page', 1) - 1) * 5);
}
```

2. Buat view untuk **index.blade.php** dalam folder **resources/views/manageadmins**.

```

@extends('layouts.app')

@section('logout')
<a href="{{ route('admin.logout') }}"
  onclick="event.preventDefault();
    document.getElementById('logout-form').submit();">
  Logout
</a>

<form id="logout-form" action="{{ route('admin.logout') }}" method="POST" style="display: none;"
  {{ csrf_field() }}
</form>
@endsection

@section('content')
<div class="container">
  <div class="row">
    <div class="col-md-8 col-md-offset-2">
      <h1>Manage Admins</h1>
      @if ($message = Session::get('success'))
        <div class="alert alert-success">
          <p>{{ $message }}</p>
        </div>
      @endif

      <div class="row">
        <div class="col-lg-12 margin-tb">
          <div class="pull-right mb-1">
            <a class="btn btn-success"
href="{{ route('manageadmins.create') }}"> Create Account</a>
          </div>
        </div>
      </div>

      <br/>
      <table id="table_admins" class="table table-bordered table-striped">
        <thead>
          <tr>
            <th>Number</th>
            <th>Name</th>
            <th>Email</th>
            <th>Job Title</th>
            <th width="280px">Action</th>
          </tr>
        </thead>
        <tbody>
          @foreach ($admins as $key => $admin)
            <tr>
              <td>{{ ++$i }}</td>
              <td>{{ $admin->name }}</td>
              <td>{{ $admin->email }}</td>
              <td>{{ $admin->job_title }}</td>
              <td>
                <a class="btn btn-info"
href="{{ route('manageadmins.show',$admin->id) }}">Detail</a>
                <a class="btn btn-primary"
href="{{ route('manageadmins.edit',$admin->id) }}">Edit</a>
              </td>
            </tr>
          @endforeach
        </tbody>
      </table>
    </div>
  </div>
</div>

```

```

{!! Form::open(['method' => 'DELETE', 'route' =>
['manageadmins.destroy', $admin->id], 'style' => 'display:inline']) !!}
{!! Form::submit('Delete', ['class' => 'btn btn-
danger']) !!}
{!! Form::close() !!}
</td>
</tr>
</tbody>
</table>
{!! $admins->render() !!}
</div>
</div>
@endsection

```

3. Coba login sebagai Admin. Kemudian akses <http://127.0.0.1:8000/admin/manageadmins>. Ekspektasinya akan menampilkan semua data admin sesuai dengan yang ada dalam database dan button create serta detail sudah berfungsi dengan baik.

### MODEL-FORM BINDING

1. Modifikasi fungsi edit dalam controller ManageAdminController.php sebagai berikut.

```

public function edit($id)
{
    $admin = Admin::find($id);
    return view('manageadmins.edit', compact('admin'));
}

```

2. Buat view untuk **edit.blade.php** dalam folder **resources/views/manageadmins**.

```

@extends('layouts.app')

@section('logout')
<a href="{{ route('admin.logout') }}"
    onclick="event.preventDefault();
        document.getElementById('logout-form').submit();">
    Logout
</a>

<form id="logout-form" action="{{ route('admin.logout') }}" method="POST" style="display: none;">
    {{ csrf_field() }}
</form>
@endsection

@section('content')
<div class="container">
    <div class="row">
        <div class="col-md-8 col-md-offset-2">
            <h1>Edit Account</h1>
            @if (count($errors) > 0)
                <div class="alert alert-danger">
                    <strong>Sorry!</strong> Something wrong with your input data.<br><br>

```

```

        <ul>
            @foreach ($errors->all() as $error)
                <li>{{ $error }}</li>
            @endforeach
        </ul>
    </div>
@endif
{!! Form::model($admin, ['method' => 'PATCH', 'route' => ['manageadmins.update', $admin-
>id]]) !!}
    <div class="row">
        <div class="col-xs-12 col-sm-12 col-md-12">
            <div class="form-group">
                <strong>Name:</strong>
                {!! Form::text('name', null, array('placeholder' => 'Name', 'class' => 'form-control')) !!}
            </div>
        </div>
        <div class="col-xs-12 col-sm-12 col-md-12">
            <div class="form-group">
                <strong>Email:</strong>
                {!! Form::text('email', null, array('placeholder' => 'Email', 'class' => 'form-control')) !!}
            </div>
        </div>
        <div class="col-xs-12 col-sm-12 col-md-12">
            <div class="form-group">
                <strong>Job title:</strong>
                {!! Form::text('job_title', null, array('placeholder' => 'Job title', 'class' => 'form-
control')) !!}
            </div>
        </div>
        <div class="col-xs-12 col-sm-12 col-md-12">
            <div class="form-group">
                <strong>Password:</strong>
                {!! Form::password('password', array('placeholder' => 'Password', 'class' => 'form-
control')) !!}
            </div>
        </div>
        <div class="col-xs-12 col-sm-12 col-md-12">
            <div class="form-group">
                <strong>Confirm Password:</strong>
                {!! Form::password('confirm-password', array('placeholder' => 'Confirm
Password', 'class' => 'form-control')) !!}
            </div>
        </div>
        <div class="col-xs-12 col-sm-12 col-md-12 text-center">
            <button type="submit" class="btn btn-primary">Submit</button>
        </div>
    </div>
    {!! Form::close() !!}
</div>
</div>
@endsection

```

3. Coba login sebagai Admin, akses <http://127.0.0.1:8000/admin/manageadmins>. Kemudian klik Edit pada salah satu akun admin. Ekspektasinya akan menuju ke page edit yang menampilkan data admin ybs sesuai dengan yang ada dalam database.

## **UPDATING FORM DATA TO DATABASE**

1. Modifikasi fungsi update dalam controller ManageAdminController.php sebagai berikut.

```
public function update(Request $request, $id)
{
    $this->validate($request, [
        'name' => 'required',
        'email' => 'required|email|unique:users,email',
        'job_title' => 'required',
        'password' => 'same:confirm-password',
    ]);

    $input = $request->all();
    if(!empty($input['password'])){
        $input['password'] = Hash::make($input['password']);
    }else{
        $input = array_except($input,array('password'));
    }

    $admin = Admin::find($id);
    $admin->update($input);

    return redirect()->route('manageadmins.index')
        ->with('success','Admin successfully updated');
}
```

2. Coba login sebagai Admin, akses <http://127.0.0.1:8000/admin/manageadmins>. Kemudian klik Edit pada salah satu akun admin. Ubah data pada akun tersebut. Ekspektasinya data sudah berhasil diubah dan akan redirect ke index.

## **DELETE FROM DATABASE**

1. Modifikasi fungsi destroy dalam controller ManageAdminController.php sebagai berikut.

```
public function destroy($id)
{
    Admin::find($id)->delete();
    return redirect()->route('manageadmins.index')
        ->with('success','Admin successfully deleted');
}
```

2. Coba login sebagai Admin, akses <http://127.0.0.1:8000/admin/manageadmins>. Kemudian klik Delete pada salah satu akun admin. Ekspektasinya data berhasil dihapus.

## **BELAJAR MANDIRI**

1. Pelajari CRUD untuk relationship one to many atau many to one.
2. Pelajari CRUD untuk relationship many to many.
3. Rekomendasi bahan untuk belajar:
  - a. DevMarketer: <https://www.youtube.com/channel/UC6kwT7-jjZHHF1s7vCfG2CA/videos>
  - b. Bitfumes Webnologies: [https://www.youtube.com/channel/UC\\_hG9fglfmShkwex1KVydHA/videos](https://www.youtube.com/channel/UC_hG9fglfmShkwex1KVydHA/videos)