



PRAKTIKUM

Pemrograman Web Lanjut - Minggu 6

DISUSUN OLEH:

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PROGAM STUDI D-IV TEKNIK INFORMATIKA

JURUSAN TEKNOLOGI INFORMASI

POLITEKNIK NEGERI MALANG

2024

A. View

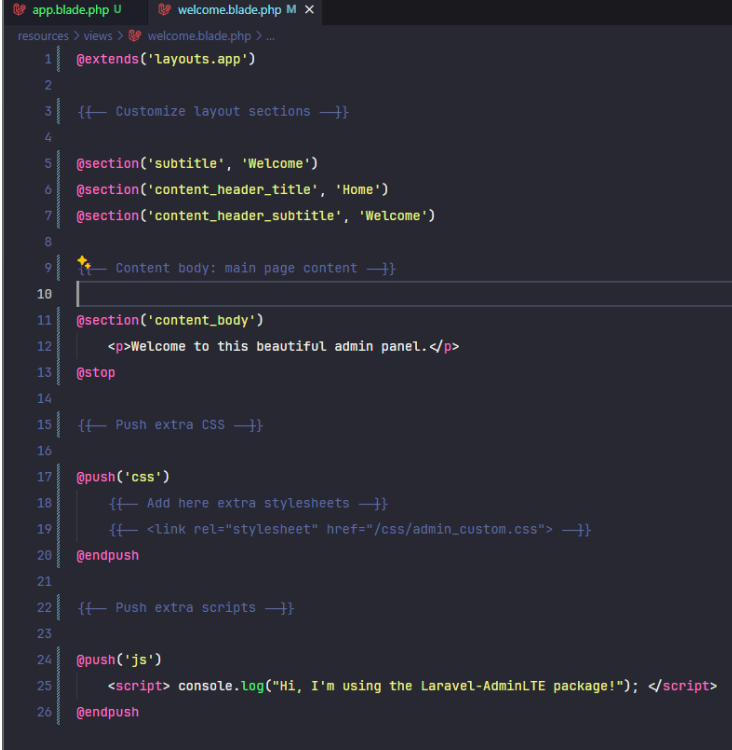
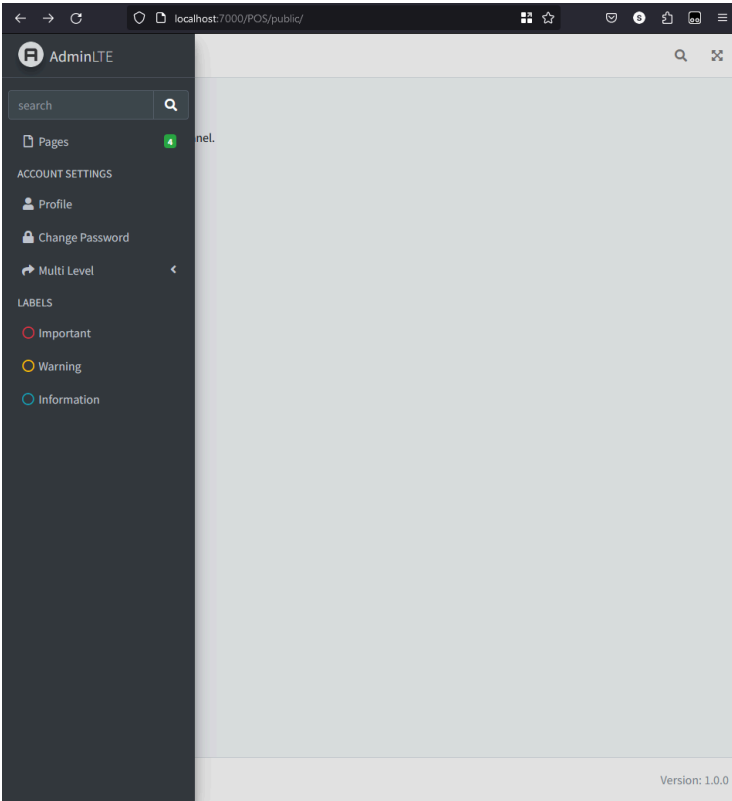
Praktikum 1 – Integrasi Laravel dengan AdminLTE3

No	Steps	Attachments
1.	Dalam root folder project lakukan command berikut, untuk mendefinisikan requirement project.	<pre>PS C:\laragon\www\POS> composer require jeromeblanc/laravel-adminlte ./composer.json has been updated Running composer update jeromeblanc/laravel-adminlte Loading composer repositories with package information Updating dependencies Nothing to modify in lock file Installing dependencies from lock file (including require-dev) Package operations: 2 installs, 0 updates, 0 removals - Downloading almasaeed2019/adminlte (v3.2.0) - Installing almasaeed2019/adminlte (v3.2.0): Extracting archive - Installing jeromeblanc/laravel-adminlte (v3.11.0): Extracting archive Generating optimized autoload files > illuminate\Foundation\ComposerScripts::postAutoloadDump > @php artisan package:discover --ansi [INFO] Discovering packages. jeromeblanc/laravel-adminlte DONE laravel/teal DONE laravel/sanctum DONE laravel/tinker DONE nunomaduro/collision DONE nunomaduro/termwind DONE pestphp/pest-plugin-laravel DONE spatie/laravel-ignition DONE 99 packages you are using are looking for funding. Use the `composer fund` command to find out more! > @php artisan vendor:publish --tag=laravel-assets --ansi --force [INFO] No publishable resources for tag [laravel-assets]. No security vulnerability advisories found. Using version ^3.11 for jeromeblanc/laravel-adminlte PS C:\laragon\www\POS></pre>
2.	Melakukan instalasi requirement project di atas dengan command berikut:	<pre>PS C:\laragon\www\POS> php artisan adminlte:install Basic assets installed successfully. Configuration file installed successfully. Translation files installed successfully. The installation is complete. PS C:\laragon\www\POS></pre>

3.

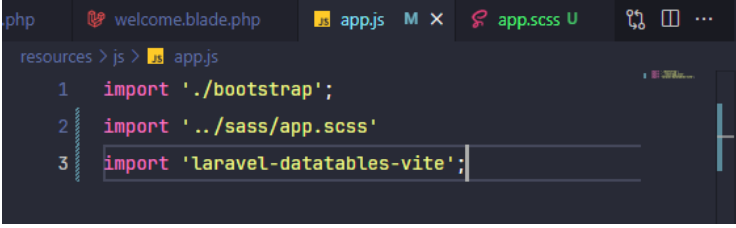
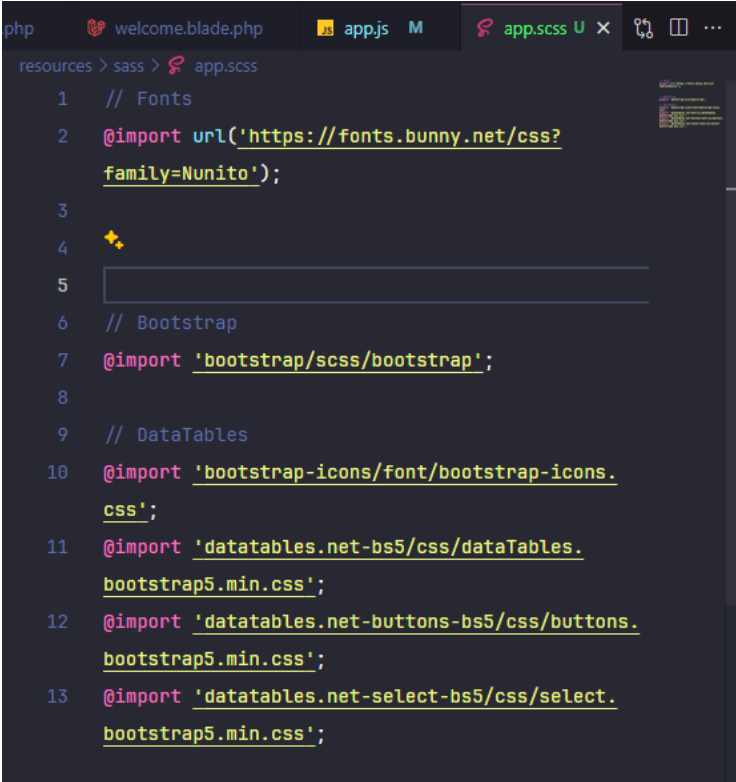
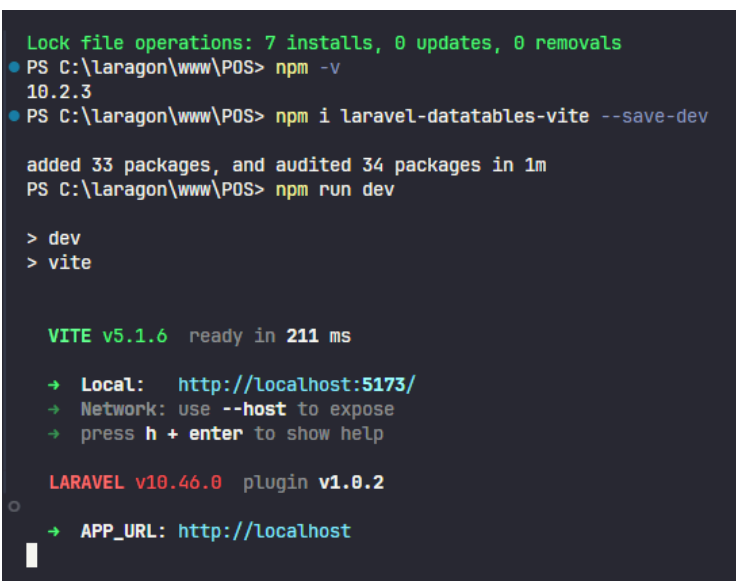
Buat file
resources/views/layout/app.blade.php. Isi dengan kode
berikut

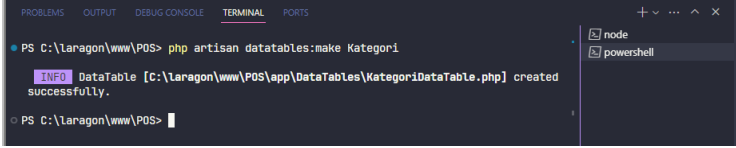
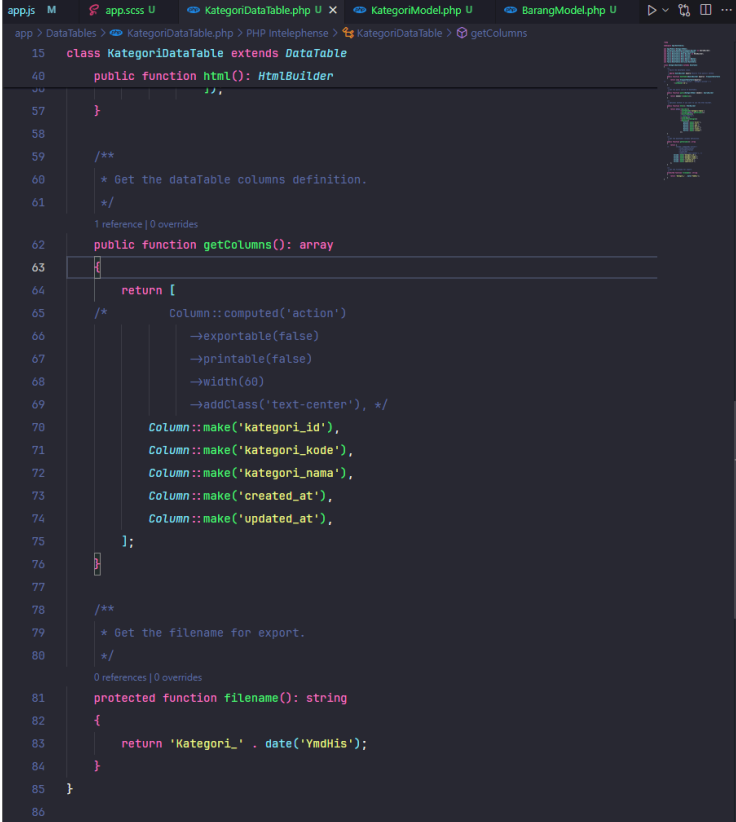
```
app.blade.php U x
resources > views > app.blade.php > ...
1  @extends('adminlte::page')
2
3  {{-- Extend and customize the browser title --}}
4
5  @section('title')
6      {{ config('adminlte.title') }}
7      @hasSection('subtitle') | @yield('subtitle') @endif
8  @stop
9
10 {{-- Extend and customize the page content header --}}
11
12 @section('content_header')
13     @hasSection('content_header_title')
14         <h1 class="text-muted">
15             @yield('content_header_title')
16
17             @hasSection('content_header_subtitle')
18                 <small class="text-dark">
19                     <i class="fas fa-xs fa-angle-right text-muted"></i>
20                     @yield('content_header_subtitle')
21                 </small>
22             @endif
23         </h1>
24     @endif
25 @stop
26
27 {{-- Rename section content to content_body --}}
28
29 @section('content')
30     @yield('content_body')
31 @stop
32
33 {{-- Create a common footer --}}
34
```

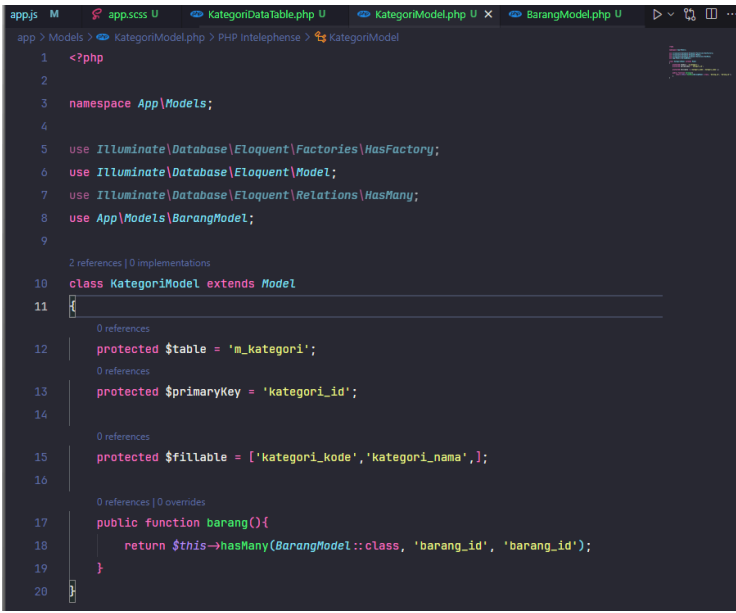
4.	<p>Edit resources/views/welcome.blade.php, kemudian replace seluruh kodenya dengan kode berikut</p>	 <pre> 1 @extends('layouts.app') 2 3 {{-- Customize layout sections --}} 4 5 @section('subtitle', 'Welcome') 6 @section('content_header_title', 'Home') 7 @section('content_header_subtitle', 'Welcome') 8 9 {{-- Content body: main page content --}} 10 11 @section('content_body') 12 <p>Welcome to this beautiful admin panel.</p> 13 @stop 14 15 {{-- Push extra CSS --}} 16 17 @push('css') 18 {{-- Add here extra stylesheets --}} 19 {{-- <link rel="stylesheet" href="/css/admin_custom.css"> --}} 20 @endpush 21 22 {{-- Push extra scripts --}} 23 24 @push('js') 25 <script> console.log("Hi, I'm using the Laravel-AdminLTE package!"); </script> 26 @endpush </pre>
5.	<p>Kembali ke browser, menuju ke halaman awal.</p>	
<p>Praktikum 2 – Integrasi dengan DataTables</p>		


Praktikum 2.1 – Retrieving Single Models

No	Steps	Attachments
1.	Install Laravel DataTables	 <pre> PS C:\laragon\www\POS> npm i laravel-datatables-vite --save-dev added 33 packages, and audited 34 packages in 1m 8 packages are looking for funding run 'npm fund' for details found 0 vulnerabilities PS C:\laragon\www\POS> </pre>
2.	<p>Pastikan nodejs sudah terinstall, dengan perintah npm -v.</p> <p>Jika belum install nodejs package manager dari https://nodejs.org/dist/v20.11.1/node-v20.11.1-x64.msi</p> <p>Npm digunakan untuk manajemen package javascript.</p>	 <pre> PS C:\laragon\www\POS> npm -v 10.2.3 </pre>
3.	<p>Install Laravel DataTables Vite dan sass</p> <p>npm i laravel-datatables-vite --save-dev</p> <p>npm install -D sass</p>	 <pre> PS C:\laragon\www\POS> npm install -D sass added 15 packages, and audited 49 packages in 21s 10 packages are looking for funding run 'npm fund' for details found 0 vulnerabilities PS C:\laragon\www\POS> </pre>

4.	Edit file resources/js/app.js	 <pre> resources > js > app.js 1 import './bootstrap'; 2 import '../sass/app.scss' 3 import 'laravel-datatables-vite'; </pre>
5.	Buatlah file resources/sass/app.scss	 <pre> resources > sass > app.scss 1 // Fonts 2 @import url('https://fonts.bunny.net/css?family=Nunito'); 3 4 ✨ 5 6 // Bootstrap 7 @import 'bootstrap/scss/bootstrap'; 8 9 // DataTables 10 @import 'bootstrap-icons/font/bootstrap-icons.css'; 11 @import 'datatables.net-bs5/css/dataTables.bootstrap5.min.css'; 12 @import 'datatables.net-buttons-bs5/css/buttons.bootstrap5.min.css'; 13 @import 'datatables.net-select-bs5/css/select.bootstrap5.min.css'; </pre>
6.	Jalankan dengan npm run dev	 <pre> Lock file operations: 7 installs, 0 updates, 0 removals • PS C:\laragon\www\POS> npm -v 10.2.3 • PS C:\laragon\www\POS> npm i laravel-datatables-vite --save-dev added 33 packages, and audited 34 packages in 1m PS C:\laragon\www\POS> npm run dev > dev > vite VITE v5.1.6 ready in 211 ms → Local: http://localhost:5173/ → Network: use --host to expose → press h + enter to show help LARAVEL v10.46.0 plugin v1.0.2 → APP_URL: http://localhost </pre>

7.	<p>Selanjutnya kita akan buat datatables untuk kategori</p> <p>php artisan datatables:make Kategori</p>	
8.	<p>Kita edit KategoriDatable untuk mengatur kolom apasaja yang ingin ditampilkan</p> <p>Sesuaikan dengan kodeprogram berikut</p>	 <pre> 15 class KategoriDataTable extends DataTable 48 public function html(): HtmlBuilder 57 { 58 59 /** 60 * Get the dataTable columns definition. 61 */ 62 1 reference 0 overrides 63 public function getColumns(): array 64 { 65 return [66 /* Column::computed('action') 67 *->exportable(false) 68 *->printable(false) 69 *->width(60) 70 *->addClass('text-center'), */ 71 Column::make('kategori_id'), 72 Column::make('kategori_kode'), 73 Column::make('kategori_nama'), 74 Column::make('created_at'), 75 Column::make('updated_at'), 76]; 77 78 /** 79 * Get the filename for export. 80 */ 81 0 references 0 overrides 82 protected function filename(): string 83 { 84 return 'Kategori_' . date('YmdHis'); 85 } 86 </pre>

9.	Ubah kategori model, sesuaikan seperti berikut	 <pre> 1 <?php 2 3 namespace App\Models; 4 5 use Illuminate\Database\Eloquent\Factories\HasFactory; 6 use Illuminate\Database\Eloquent\Model; 7 use Illuminate\Database\Eloquent\Relations\HasMany; 8 use App\Models\BarangModel; 9 10 class KategoriModel extends Model 11 { 12 protected \$table = 'm_kategori'; 13 protected \$primaryKey = 'kategori_id'; 14 15 protected \$fillable = ['kategori_kode', 'kategori_nama']; 16 17 public function barang(){ 18 return \$this->hasMany(BarangModel::class, 'barang_id', 'barang_id'); 19 } 20 </pre>
10.	Ubah Kategori Controller sesuaikan dengan skrip berikut:	 <pre> 1 <?php 2 3 namespace App\Http\Controllers; 4 5 use App\DataTables\KategoriDataTable; 6 use Illuminate\Http\Request; 7 use Illuminate\Support\Facades\DB; 8 9 class KategoriController extends Controller 10 { 11 public function index(KategoriDataTable \$dataTable) 12 { 13 // \$data = [... 29 return \$dataTable->render('kategori.index'); 30 } 31 } 32 </pre>

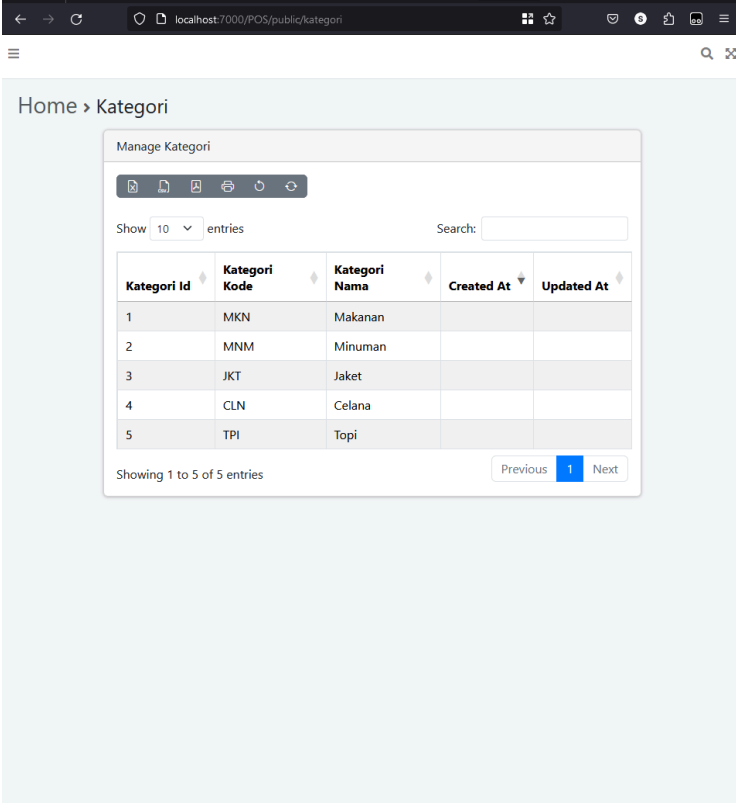
11.	<p>Buat folder kategori di dalam resources/view, kemudian buat view blade index untuk kategori</p> <p>resources/views/kategori/index.blade.php</p>	 <pre> 1 @extends('layout.app') 2 3 @section('subtitle', 'Kategori') 4 @section('content_header_title', 'Home') 5 @section('content_header_subtitle', 'Kategori') 6 7 @section('content') 8 <div class="container"> 9 <div class="card"> 10 <div class="card-header">Manage Kategori</div> 11 <div class="card-body"> 12 {{ \$dataTable->table() }} 13 </div> 14 </div> 15 </div> 16 @endsection 17 18 @push('scripts') 19 {{ \$dataTable->scripts() }} 20 @endpush </pre>
12.	<p>Pastikan route untuk kategori sudah tersedia</p>	 <pre> Route::get('/kategori', [KategoriController::class, 'index']); </pre>

13.

Sesuaikan app layout seperti kode berikut

```
app.blade.php M welcome.blade.php appjs M appscss U KategoriDataTable.php U
resources > views > layouts > app.blade.php > link
37
38 @section('footer')
39     <div class="float-right">
40         Version: {{ config('app.version', '1.0.0') }}
41     </div>
42
43     <strong>
44         <a href="{{ config('app.company_url', '#') }}">
45             {{ config('app.company_name', 'My company') }}
46         </a>
47     </strong>
48 @stop
49
50
51 {{{-- Add common Javascript/Jquery code --}}
52
53
54
55 @push('js')
56 <script src="https://cdn.datatables.net/2.0.2/js/dataTables.js"></script>
57
58 @endpush
59
60 @stack('scripts')
61
62
63 {{{-- Add common CSS customizations --}}
64
65 @push('css')
66 <link rel="stylesheet" href="https://cdn.datatables.net/2.0.2/css/dataTables.
67     dataTables.css" />
68
69 <style type="text/css">
```

14.	Menset ViteJs / script type defaults	<div><div>app.blade.php MAppServiceProvider.php M Xwelcome.blade.php</div><div>app > Providers > AppServiceProvider.php > PHP Intelephense > AppServiceProvi</div><div><div>1<?php</div><div>2</div><div>3namespace App\Providers;</div><div>4</div><div>5use Illuminate\Support\ServiceProvider;</div><div>6use Yajra\DataTables\Html\Builder;</div><div>7</div><div>1 reference 0 implementations</div><div>8class AppServiceProvider extends ServiceProvider</div><div>9{</div><div>10/**</div><div>11* Register any application services.</div><div>12*/</div><div>0 references 0 overrides</div><div>13public function register(): void</div><div>14{</div><div>15//</div><div>16}</div><div>17</div><div>18/**</div><div>19* Bootstrap any application services.</div><div>20*/</div><div>0 references 0 overrides</div><div>21public function boot(): void</div><div>22{</div><div>23Builder::useVite();</div><div>24}</div><div>25}</div><div>26</div></div></div>
15.	Isikan beberapa data ke table kategori	<div><div><div><div></div><div>Edit</div><div>Copy</div><div>Delete</div></div><div>1</div><div>MKN</div><div>Makanan</div><div>NULL</div><div>NULL</div></div><div><div><div></div><div>Edit</div><div>Copy</div><div>Delete</div></div><div>2</div><div>MNM</div><div>Minuman</div><div>NULL</div><div>NULL</div></div><div><div><div></div><div>Edit</div><div>Copy</div><div>Delete</div></div><div>3</div><div>JKT</div><div>Jaket</div><div>NULL</div><div>NULL</div></div><div><div><div></div><div>Edit</div><div>Copy</div><div>Delete</div></div><div>4</div><div>CLN</div><div>Celana</div><div>NULL</div><div>NULL</div></div><div><div><div></div><div>Edit</div><div>Copy</div><div>Delete</div></div><div>5</div><div>TPI</div><div>Topi</div><div>NULL</div><div>NULL</div></div></div>

16.	Datatables sudah dapat di load di /kategori	
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Praktikum 3 – Membuat form kemudian menyimpan data dalam database

No	Steps	Attachments
1.	Menyesuaikan routing, tambahkan dua routing berikut	<pre>Route::get('/kategori/create', [KategoriController::class, 'create'])->name('kategori.create'); Route::get('/kategori/{id}', [KategoriController::class, 'index'])->name('kategori.index');</pre>

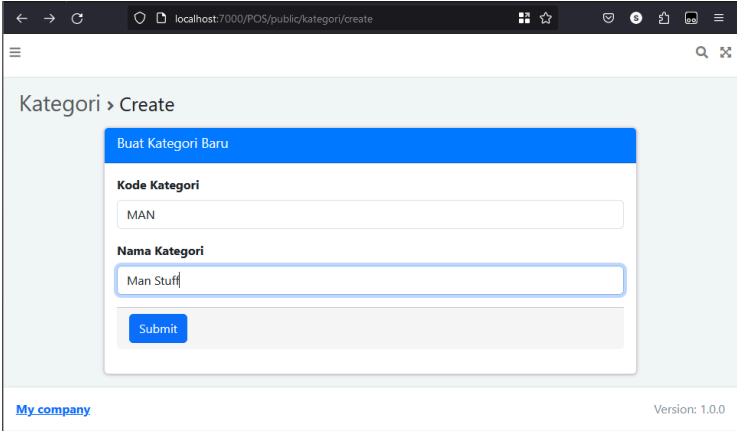
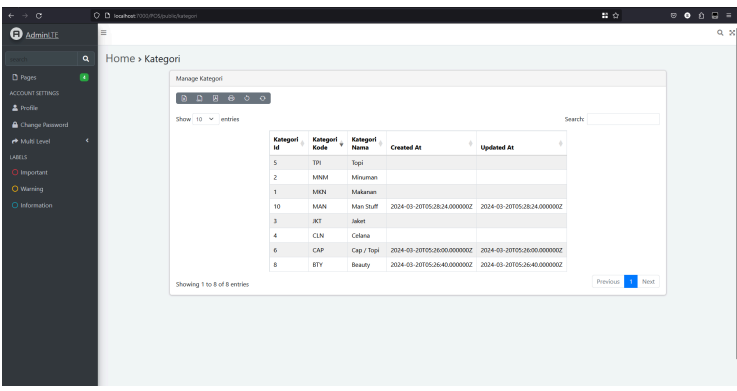
2.

Tambahkan dua function berikut dalam KategoriController

```
KategoriController.php 1, M X index.blade.php web.php M KategoriModel.php BarangModel.php
app > Http > Controllers > KategoriController.php > PHP intelephense > KategoriController > store

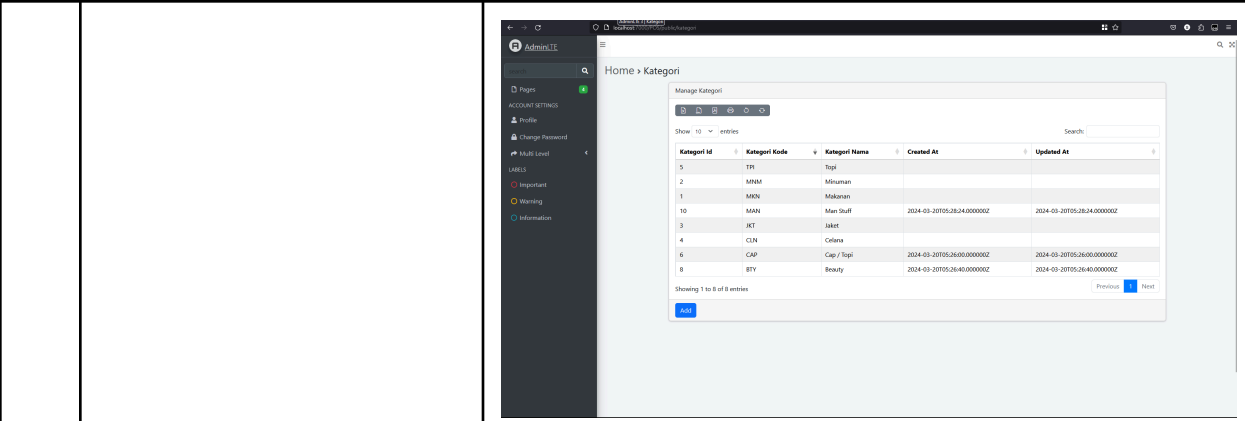
3 namespace App\Http\Controllers;
4
5 use App\DataTables\KategoriDataTable;
6 use Illuminate\Http\Request;
7 use App\Models\KategoriModel;
8
9 class KategoriController extends Controller
10 {
11     1 reference | 0 overrides
12     public function index(KategoriDataTable $dataTable)
13     {
14         // $data = [
15         return $dataTable->render('kategori.index');
16     }
17
18     1 reference | 0 overrides
19     public function create()
20     {
21         return view('kategori.create');
22     }
23
24     0 references | 0 overrides
25     public function store(Request $request) {
26         KategoriModel::create([
27             'kategori_kode' => $request->kodeKategori,
28             'kategori_nama' => $request->namaKategori
29         ]);
30         return redirect('/kategori');
31     }
32 }
33
34
35
36
37
38
39
40
41
42
43
44
45
```

<p>3.</p>	<p>Dalam folder views/kategori, buatlah file dengan nama create.blade.php</p>	 <pre> 1 @extends('layouts.app') 2 3 @section('subtitle', 'Kategori') 4 @section('content_header_title', 'Kategori') 5 @section('content_header_subtitle', 'Create') 6 7 @section('content_body') 8 <div class="container"> 9 <div class="card card-primary"> 10 <div class="card-header"> 11 <h3 class="card-title">Buat Kategori Baru</h3> 12 </div> 13 14 <form action="{{ route('kategori.store') }}" method="POST"> 15 @csrf 16 <div class="card-body"> 17 <div class="form-group"> 18 <label for="kodeKategori">Kode Kategori</label> 19 <input type="text" class="form-control" id="kodeKategori" 20 name="kodeKategori" 21 placeholder="Kode Kategori" required> 22 </div> 23 <div class="form-group"> 24 <label for="namaKategori">Nama Kategori</label> 25 <input type="text" class="form-control" id="namaKategori" 26 name="namaKategori" 27 placeholder="Nama Kategori" required> 28 </div> 29 <div class="card-footer"> 30 <button type="submit" class="btn btn-primary">Submit</button> 31 </div> 32 </form> 33 </div> 34 </div> 35 </div> 36 </section> </pre>
<p>4.</p>	<p>Kita lakukan pengecualian proteksi CsrfToken. Karena kita belum melakukan otentikasi . Kita edit dalam file berikut:</p>	 <pre> 1 <?php 2 3 namespace App\Http\Middleware; 4 5 use Illuminate\Foundation\Http\Middleware\VerifyCsrfToken as Middleware; 6 7 class VerifyCsrfToken extends Middleware 8 { 9 /** 10 * The URIs that should be excluded from CSRF verification. 11 * 12 * @var array<int, string> 13 */ 14 15 protected \$except = [16 '/kategori' 17]; 18 } </pre>

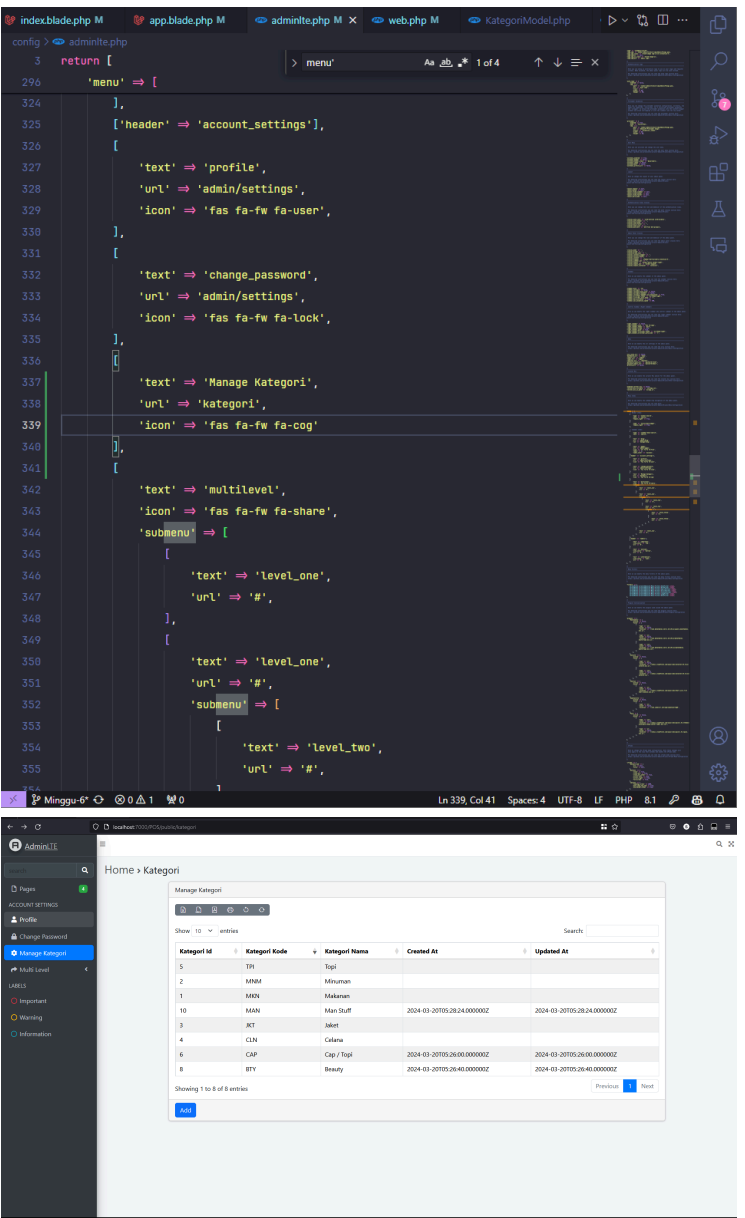
5.	Akses kategori/create	
6.	Halaman kategori	

Tugas Praktikum

No	Steps	Attachments
1.	Tambahkan button Add di halam manage kategori, yang mengarah ke create kategori baru	



2. Tambahkan menu untuk halaman manage kategori, di daftar menu navbar



3.

Tambahkan action edit di datatables dan buat halaman edit serta controllernya

```
public function dataTable(QueryBuilder $query): EloquentDataTable
{
    return (new EloquentDataTable($query))
        ->setRowId('id')
        ->addColumn('action', function($row) {
            $btn = '<a href="kategori/edit/' . $row->kategori_id . '" class="edit btn btn-primary btn-sm">Edit</a>';
            $btn = $btn . '<a href="kategori/delete/' . $row->kategori_id . '" class="delete btn btn-danger btn-sm">Delete</a>';
            return $btn;
        });
}
```

```
public function edit($id)
{
    $kategori = KategoriModel::find($id);
    return view('kategori.edit', ['kategori' => $kategori]);
}
```

1 reference | 0 overrides

```
public function update(Request $request, $id)
{
    $kategori = KategoriModel::find($id);
    $kategori->kategori_kode = $request->kodeKategori;
    $kategori->kategori_nama = $request->namaKategori;
    $kategori->save();
    return redirect('/kategori');
}
```

```
<@section('subtitle', 'Kategori')
@section('content_header_title', 'Kategori')
@section('content_header_subtitle', 'Create')
@
@section('content_body')
<div class="container">
    <div class="card card-primary">
        <div class="card-header">
            <h3 class="card-title">Buat Kategori Baru</h3>
        </div>
        <form action="{{ url('kategori/update', $kategori->kategori_id) }}" method="POST">
            @csrf
            <div class="card-body">
                <div class="form-group">
                    <label for="kodeKategori">Kategori ID</label>
                    <input type="text" class="form-control" id="kodeKategori" name="id" value="{{ $kategori->kategori_id }}"
                        placeholder="Kategori ID" disabled>
                </div>
                <div class="form-group">
                    <label for="kodeKategori">Kode Kategori</label>
                    <input type="text" class="form-control" id="kodeKategori" name="kodeKategori" value="{{ $kategori->kategori_kode }}"
                        placeholder="Kode Kategori" required>
                </div>
                <div class="form-group">
                    <label for="namaKategori">Nama Kategori</label>
                    <input type="text" class="form-control" id="namaKategori" name="namaKategori" value="{{ $kategori->kategori_nama }}"
                        placeholder="Nama Kategori" required>
                </div>
            </div>
            <div class="card-footer">
                <button type="submit" class="btn btn-primary">Save</button>
            </div>
        </form>
    </div>
</div>
```

		<div><div><div><div>AdminLTE</div><div>Home > Kategori</div></div><div><div>Pages</div><div>ACCOUNT SETTINGS</div><div>Profile</div><div>Change Password</div><div>Manage Kategori</div><div>Multi Level</div><div>LABELS</div><div>Important</div><div>Warning</div><div>Information</div></div><div><div>Manage Kategori</div><table><tr><th>Kategori ID</th><th>Kategori Kode</th><th>Kategori Nama</th><th>Created At</th><th>Updated At</th><th>Action</th></tr><tr><td>5</td><td>TRJ</td><td>Topi</td><td></td><td></td><td>Edit Delete</td></tr><tr><td>2</td><td>MNM</td><td>Minuman</td><td></td><td></td><td>Edit Delete</td></tr><tr><td>1</td><td>MKN</td><td>Makanan</td><td></td><td></td><td>Edit Delete</td></tr><tr><td>10</td><td>MAN</td><td>Man Staff</td><td>2024-03-20T09:28:24.000000Z</td><td>2024-03-20T09:28:24.000000Z</td><td>Edit Delete</td></tr><tr><td>3</td><td>JKT</td><td>Jaket</td><td></td><td></td><td>Edit Delete</td></tr><tr><td>4</td><td>CLN</td><td>Celana</td><td></td><td></td><td>Edit Delete</td></tr><tr><td>6</td><td>CAP</td><td>Cap / Topi</td><td>2024-03-20T09:26:00.000000Z</td><td>2024-03-20T09:26:00.000000Z</td><td>Edit Delete</td></tr></table><div>Showing 1 to 7 of 7 entries</div><div>PreviousNextAdd</div></div></div></div> <div><div><div>AdminLTE</div><div>Kategori > Create</div></div><div><div>Pages</div><div>ACCOUNT SETTINGS</div><div>Profile</div><div>Change Password</div><div>Manage Kategori</div><div>Multi Level</div><div>LABELS</div><div>Important</div><div>Warning</div><div>Information</div></div><div><div>Start Kategori Baru</div><div><div>kategori id</div><div>5</div></div><div><div>Kode Kategori</div><div>TRJ</div></div><div><div>Nama Kategori</div><div>Topi</div></div><div>Save</div></div><div>My companyVersion: 1.0.0</div></div>	Kategori ID	Kategori Kode	Kategori Nama	Created At	Updated At	Action	5	TRJ	Topi			Edit Delete	2	MNM	Minuman			Edit Delete	1	MKN	Makanan			Edit Delete	10	MAN	Man Staff	2024-03-20T09:28:24.000000Z	2024-03-20T09:28:24.000000Z	Edit Delete	3	JKT	Jaket			Edit Delete	4	CLN	Celana			Edit Delete	6	CAP	Cap / Topi	2024-03-20T09:26:00.000000Z	2024-03-20T09:26:00.000000Z	Edit Delete
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| 4. | Tambahkan action delete di datatables serta controllernya | ``` public function dataTable(QueryBuilder $query): EloquentDataTable { return (new EloquentDataTable($query)) ->setRowId('id') ->addColumn('action', function($row) { $btn = 'kategori_id.'" class="edit btn btn-primary btn-sm">Edit'; $btn = $btn.' kategori_id.'" class="delete btn btn-danger btn-sm">Delete'; return $btn; }); } ``` ``` public function delete($id) { $kategori = KategoriModel::find($id); $kategori->delete(); return redirect('/kategori'); ``` |

