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LAMPIRAN

Lampiran 1: *source code*

Models/Peta.php

```

<?php

namespace App\Models;

use Illuminate\Database\Eloquent\Factories\HasFactory;
use Illuminate\Database\Eloquent\Model;
use Illuminate\Support\Facades\DB;

class Peta extends Model
{
    public function amountOfCrime()
    {
        return DB::table('districts')
            ->leftJoin('crimes', 'crimes.id_district', '=',
'districts.id_district')
            ->select ('districts.id_district',
DB::raw('count(crimes.id_crime) as count'))
            ->groupBy('districts.id_district')
            ->get();
    }

    public function crimeData()
    {
        return DB::table('crimes')
            ->join('types_of_crime',
'types_of_crime.id_type_of_crime', '=', 'crimes.id_type_of_crime')
            ->join('sub_districts', 'sub_districts.id_sub_district',
'=', 'crimes.id_sub_district')
            ->join('districts', 'districts.id_district', '=',
'sub_districts.id_district');
    }

    public function districtDetails($id_district)
    {
        return DB::table('districts')
            ->where('id_district', $id_district)->first();
    }

    public function crimeDataPerDistrict($id_district)
    {
        return DB::table('crimes')

```

```

        ->join('types_of_crime',
'types_of_crime.id_type_of_crime', '=', 'crimes.id_type_of_crime')
        ->join('sub_districts', 'sub_districts.id_sub_district',
'=', 'crimes.id_sub_district')
        ->join('districts', 'districts.id_district', '=',
'sub_districts.id_district')
        ->where('crimes.id_district', $id_district);
    }

    public function policeStationDataPerDistrict($id_district)
    {
        return DB::table('police_stations')
            ->join('sub_districts', 'sub_districts.id_sub_district',
'=', 'police_stations.id_sub_district')
            ->join('districts', 'districts.id_district', '=',
'sub_districts.id_district')
            ->where('police_stations.id_district', $id_district)
            ->get();
    }

    public function amountOfCrimePerDistrict($id_district)
    {
        return DB::table('crimes')
            ->join('districts', 'districts.id_district', '=',
'crimes.id_district')
            ->where('crimes.id_district', $id_district);
    }

    public function crimeRateKecFilter()
    {
        return DB::table('districts')
            ->leftjoin('crimes', 'crimes.id_district', '=',
'districts.id_district')
            ->select ('districts.id_district',
DB::raw('count(crimes.id_crime) as CrimeCount'));
    }

    // public function crimeRateKec(){
    //     return DB::table('crimes')
    //         ->get();
    // }

    public function allDataCrimeKecamatan($id_district)
    {
        return DB::table('crimes')
            ->join('types_of_crime',
'types_of_crime.id_type_of_crime', '=', 'crimes.id_type_of_crime')

```

```

        ->join('sub_districts', 'sub_districts.id_sub_district',
'=', 'crimes.id_sub_district')
        ->join('districts', 'districts.id_district', '=',
'sub_districts.id_district')
        ->where('crimes.id_district', $id_district)
        ->get();
    }

    public function allDataCrimeKecamatanFilter($id_district)
    {
        return DB::table('crimes')
            ->join('types_of_crime',
'types_of_crime.id_type_of_crime', '=', 'crimes.id_type_of_crime')
            ->join('sub_districts', 'sub_districts.id_sub_district',
'=', 'crimes.id_sub_district')
            ->join('districts', 'districts.id_district', '=',
'sub_districts.id_district')
            ->where('crimes.id_district', $id_district);
    }

    public function allDataPoliceStationKecamatan($id_district)
    {
        return DB::table('police_stations')
            ->join('sub_districts', 'sub_districts.id_sub_district',
'=', 'police_stations.id_sub_district')
            ->join('districts', 'districts.id_district', '=',
'sub_districts.id_district')
            ->where('police_stations.id_district', $id_district)
            ->get();
    }
}

```

Controllers/PetaController.php

```

<?php

namespace App\Http\Controllers\Front;

use App\Http\Controllers\Controller;
use Illuminate\Http\Request;
use App\Models\Peta;
use App\Models\TypeOfCrime;
use App\Models\SubDistrict;
use App\Models\District;

```

```

use App\Models\PoliceStation;
use App\Models\Crime;
use Illuminate\Support\Facades\DB;

class PetaController extends Controller
{
    //
    public function __construct() {
        $this->Peta = new Peta();
        $this->SubDistrict = new SubDistrict();
        $this->District = new District();
        $this->TypeOfCrime = new TypeOfCrime();
        $this->PoliceStation = new PoliceStation();
        $this->Crime = new Crime();
    }

    public function index()
    {
        $data = [
            'title' => 'Kriminalitas',
            'crime' => $this->Crime->allData(),
            'district' => $this->District->allData(),
            'police_station' => $this->PoliceStation->allData(),
            'totalCrime' => $this->Peta->amountOfCrime(),
        ];
        return view('user/peta', $data);
    }

    public function dateRangeMap(Request $request)
    {
        $startDate = $request->startDate;
        $endDate = $request->endDate;
        // $startDate = '2022-01-01';
        // $endDate = '2022-12-30';
        $rate = DB::table('districts')
            // ->leftJoin('crimes', 'districts.id_district', '=',
            'crimes.id_district')
            ->leftJoin('crimes', function ($join) use ($startDate,
            $endDate) {
                $join->on('districts.id_district', '=',
            'crimes.id_district')
                ->whereBetween('crimes.incident_time',
            [$startDate, $endDate]);
            })
            ->select('districts.id_district',
            DB::raw('COALESCE(COUNT(crimes.id_crime), 0) AS count'))
    }
}

```

```

        // ->whereBetween('crimes.incident_time', [$startDate,
$endDate])
        // ->orWhereNull('crimes.incident_time')
        ->groupBy('districts.id_district')
        ->get();

        $data = [
            'title' => 'Kriminalitas',
            'crime' => $this->Peta->crimeData()
                ->whereBetween('crimes.incident_time', [$startDate,
$endDate])
                // ->whereDate('crimes.incident_time', '>=',
$startDate)
                // ->whereDate('crimes.incident_time', '<=', $endDate)
                // ->orWhereNull('crimes.incident_time')
                ->get(),
            'district' => $this->District->allData(),
            'police_station' => $this->PoliceStation->allData(),
            'type_of_crime' => $this->TypeOfCrime->allData(),
            'totalCrime' => $rate,
        ];
        return view('user/petafilter', $data);
    }

    public function districtMap($id_district)
    {
        $district = $this->Peta->districtDetails($id_district);
        $data = [
            'title' => 'Kriminalitas Berdasarkan Kecamatan ',
            'district' => $this->District->allData(),
            'police_station' => $this->Peta-
>policeStationDataPerDistrict($id_district),
            'crime' => $this->Peta-
>crimeDataPerDistrict($id_district)->get(),
            'type_of_crime' => $this->TypeOfCrime->allData(),
            'totalCrime' => $this->Peta-
>amountOfCrimePerDistrict($id_district)->count(),
            'dist' => $district,
        ];
        return view('user/kecamatan', $data);
    }

    public function dateRangeDistrictMap(Request $request,
$id_district)
    {
        $startDate = $request->startDate;
        $endDate = $request->endDate;
    }

```



```

    $district = $this->Peta->districtDetails($id_district);
    $data = [
        'title' => 'Kriminalitas Berdasarkan Kecamatan ',
        'district' => $this->District->allData(),
        'police_station' => $this->Peta-
>policeStationDataPerDistrict($id_district),
        'crime' => $this->Peta->crimeDataPerDistrict($id_district)
        ->whereDate('crimes.incident_time', '>=', $startDate)
        ->whereDate('crimes.incident_time', '<=', $endDate)
        ->get(),
        'type_of_crime' => $this->TypeOfCrime->allData(),
        'totalCrime' => $this->Peta-
>amountOfCrimePerDistrict($id_district)
        ->whereDate('crimes.incident_time', '>=', $startDate)
        ->whereDate('crimes.incident_time', '<=', $endDate)
        ->count(),
        'dist' => $district,
    ];
    return view('user/kecamatanfilter', $data);
}
}

```

Layouts/frontend.blade.php

```

<!DOCTYPE html>
<!--
This is a starter template page. Use this page to start your new
project from
scratch. This page gets rid of all links and provides the needed
markup only.
-->
<html lang="en">
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-
scale=1">
    <meta http-equiv="x-ua-compatible" content="ie=edge">

    <title>AdminLTE 3 | Top Navigation</title>

    <!-- Font Awesome Icons -->
    <link rel="stylesheet" href="{{ asset('AdminLTE')
}}/plugins/fontawesome-free/css/all.min.css">
    <!-- Ionicons -->

```

```

    <link rel="stylesheet"
href="https://code.ionicframework.com/ionicons/2.0.1/css/ionicons.min.
css">
    <!-- daterange picker -->
    <link rel="stylesheet" href="{{ asset('AdminLTE')
}}/plugins/daterangepicker/daterangepicker.css">
    <!-- Theme style -->
    <link rel="stylesheet" href="{{ asset('AdminLTE')
}}/dist/css/adminlte.min.css">
    <!-- DataTables -->
    <link rel="stylesheet" href="{{ asset('AdminLTE')
}}/plugins/datatables-bs4/css/dataTables.bootstrap4.min.css">
    <link rel="stylesheet"
href="{{ asset('AdminLTE') }}/plugins/datatables-
responsive/css/responsive.bootstrap4.min.css">
    <!-- Google Font: Source Sans Pro -->
    <link
href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,
400i,700" rel="stylesheet">
    <!-- css -->
    <link rel="stylesheet" href="{{ asset('css/frontend.css') }}">
    <!-- Theme style -->
    <link rel="stylesheet" href="{{ asset('AdminLTE')
}}/dist/css/adminlte.min.css">

    <!-- REQUIRED SCRIPTS -->

    <!-- jQuery -->
    <script src="{{ asset('AdminLTE')
}}/plugins/jquery/jquery.min.js"></script>
    <!-- DataTables -->
    <script src="{{ asset('AdminLTE')
}}/plugins/datatables/jquery.dataTables.min.js"></script>
    <script src="{{ asset('AdminLTE') }}/plugins/datatables-
bs4/js/dataTables.bootstrap4.min.js"></script>
    <script src="{{ asset('AdminLTE') }}/plugins/datatables-
responsive/js/dataTables.responsive.min.js"></script>
    <script src="{{ asset('AdminLTE') }}/plugins/datatables-
responsive/js/responsive.bootstrap4.min.js"></script>
    <script src="{{ asset('AdminLTE')
}}/plugins/jquery/jquery.min.js"></script>
    <!-- Bootstrap 4 -->
    <script src="{{ asset('AdminLTE')
}}/plugins/bootstrap/js/bootstrap.bundle.min.js"></script>
    <!-- AdminLTE App -->
    <script src="{{ asset('AdminLTE')
}}/dist/js/adminlte.min.js"></script>

```

```

<!-- LEAFLET -->

<!-- <link rel="stylesheet"
href="https://unpkg.com/leaflet@1.9.4/dist/leaflet.css"
integrity="sha256-p4NxAoJBhIIN+hmNHzRCf9tD/miZyoHS5obTRR9BMY="
crossorigin="" /> -->
<link rel="stylesheet"
href="https://unpkg.com/leaflet@1.7.1/dist/leaflet.css"
integrity="sha512-
xodZBNTC5n17Xt2atTPuE1HxjVMSvLVW9ocqUKLsCC5CXdbqCmblAshOMAS6/keqq/sMzM
Z19scr4PsZChSR7A=="
crossorigin="" />
<script src="https://unpkg.com/leaflet@1.7.1/dist/leaflet.js"
integrity="sha512-
XQoYMqMTK8LvdXXYG3nZ448h0EQiglfqkJs1NOQV44cWnUrBc8PkA0cXy20w0vlaXaVUea
rIOBhiXZ5V3ynxwA=="
crossorigin=""></script>
<link rel="stylesheet" href="https://unpkg.com/leaflet-control-
geocoder/dist/Control.Geocoder.css" />
<script src="https://unpkg.com/leaflet-control-
geocoder/dist/Control.Geocoder.js"></script>

<!-- CSS -->

</head>
<body class="hold-transition layout-top-nav">
  <div class="wrapper" style="background-color: #E9EAEC">
    <!-- Navbar -->
    <nav class="navbar navbar-expand-md navbar-light navbar-white"
style="background-color: #E9EAEC">
      <div class="header fixed-top">
        <div class="card-header" style="background: #333652;
color: #FAD02C; padding-bottom:5px; padding-top:5px">
          <div class="col-3">
            <div style="text-align:right">
              
            </div>
          </div>
          <div class="col-6">
            <div style="text-align:center">
              <h1 style="font-size:2.5vw;">Sistem
Informasi Geografis</h1>
              <h2 style="font-size:1.5vw;">Daerah Rawan
Kriminalitas Kota Makassar</h2>

```

```

        </div>
    </div>
    <div class="col-3">
        <div style="text-align:left">
            
        </div>
    </div>
</div>
<div class="col-12" style="background-color: #E9EAEC">
    <button class="navbar-toggler order-1"
type="button" data-toggle="collapse" data-target="#navbarCollapse"
aria-controls="navbarCollapse" aria-expanded="false" aria-
label="Toggle navigation">
        <span class="navbar-toggler-icon"></span>
    </button>
</div>
<div class="collapse navbar-collapse order-3"
id="navbarCollapse" style="background-color: #E9EAEC">
    <!-- Left navbar links -->
    <ul class="navbar-nav">
        <li class="nav-item">
            <a href="/" class="nav-link {{ request()-
>is('/') ? 'active' : '' }}">Beranda</a>
        </li>
        <li class="nav-item">
            <a href="/profil" class="nav-link {{
request()->is('profil') ? 'active' : '' }}">Profil</a>
        </li>
        <li class="nav-item">
            <a href="/peta" class="nav-link {{
request()->is('peta') ? 'active' : '' }}">Peta Kriminalitas</a>
        </li>
        <li class="nav-item">
            <a href="/comment/add" class="nav-link {{
request()->is('comment/add') ? 'active' : '' }}">Kritik dan Saran</a>
        </li>
        <li class="nav-item">
            <a href="/tutorial" class="nav-link {{
request()->is('tutorial') ? 'active' : '' }}">Tutorial</a>
        </li>
    </ul>
    <!-- Right navbar links -->
    <ul class="order-1 order-md-3 navbar-nav navbar-
no-expand ml-auto">
        <li class="nav-item">

```

```

                                <a class="nav-link" href="{
route('login') }}">
                                <i class="fas fa-user"></i> Login
                                </a>
                                </li>
                                </ul>
                                </div>
                                <div class="row" style="background: #333652; color:
#FAD02C; padding-bottom:3px;"></div>
                                </div>
                                </nav>
                                <!-- /.navbar -->
                                <!-- Content Wrapper. Contains page content -->
                                <div class="content-wrapper" style="background-color:
#E9EAEC">
                                <!-- Main content -->
                                <div class="content" style="margin-top:120px">
                                <div class="container">
                                <div class="row">
                                @yield('content')
                                </div>
                                </div>
                                </div>
                                <!-- /.content -->
                                </div>
                                <!-- /.content-wrapper -->
                                <!-- Main Footer -->
                                <footer class="main-footer" >
                                <!-- To the right -->
                                <div class="float-right d-none d-sm-inline">
                                Anything you want
                                </div>
                                <!-- Default to the left -->
                                <strong>Copyright &copy; 2023 SIG Kriminalitas.</strong>
                                </footer>
                                </div>
                                <!-- ./wrapper -->
                                @yield('myjsfile')
                                <script>
                                window.setTimeout(function() {
                                $(".alert").fadeTo(500, 0).slideUp(500, function() {
                                $(this).remove();
                                });
                                }, 3000);
                                </script>
                                </body>
                                </html>

```

Layouts/peta.blade.php

```

@extends('layouts.frontend')

@section('content')
<link href="{{ asset('css/front/peta.css') }}" rel="stylesheet">

<div class="col-sm-2">
    <button class="btn btn-block mb-2 btn-flat" style="background:
#333652; color: #ffffff;" data-toggle="modal"
    data-target="#date"><b>Pilih Tanggal</b>
    </button>
    <button type="button" class="btn btn-block mb-2 btn-flat"
style="background: #333652; color: #ffffff;"><b>Daerah
Rawan</b></button>
    @foreach ($district as $item)
        <a href="/peta/district/{{ $item->id_district }}">
            <button type="button" class="btn btn-block btn-light mb-2
btn-flat" > {{ $item->name_district }} </button>
        </a>
    @endforeach
</div>
<div class="col-sm-10">
    <div class="map mb-2" id="map" style="width: 100%; height:
715px;"></div>
</div>

<div class="modal fade" id="date">
    <div class="modal-dialog">
        <div class="modal-content bg-primary">
            <div class="modal-header" style="background: #333652">
                <h4 class="modal-title">Pilih Tanggal</h4>
                <button type="button" class="close" data-
dismiss="modal" aria-label="Close">
                    <span aria-hidden="true">&times;</span>
                </button>
            </div>
            <form action="/filter" method="Get">
                @csrf
                <div class="modal-body" style="background: #333652">
                    <div class="form-group">
                        <label>Tanggal Mulai:</label>
                        <div class="input-group">
                            <div class="input-group-prepend">
                                <span class="input-group-text"><i
class="far fa-clock"></i></span>
                            </div>

```

```

                <input type="text" class="daterange form-
control float-right" name="startDate" id="startDate">
            </div>
        </div>
        <div class="form-group">
            <label>Tanggal Akhir:</label>
            <div class="input-group">
                <div class="input-group-prepend">
                    <span class="input-group-text"><i
class="far fa-clock"></i></span>
                </div>
                <input type="text" class="daterange form-
control float-right" name="endDate" id="endDate">
            </div>
        </div>
        </div>
        <div class="modal-footer justify-content-between"
style="background: #333652">
            <button type="button" class="btn btn-outline-
light" data-dismiss="modal">Close</button>
            <button type="submit" class="btn btn-outline-
light">Yes</button>
        </div>
    </div>
</form>
</div>
</div>
@endsection

@section('myjsfile')
<!-- Moment -->
<script src="{ asset('AdminLTE')
}}/plugins/moment/moment.min.js"></script>
<!-- date-range-picker -->
<script src="{ asset('AdminLTE')
}}/plugins/daterangepicker/daterangepicker.js"></script>

<script>
    //Date range picker with time picker
    $(' .daterange').daterangepicker({
        singleDatePicker: true,
        locale: {
            format: 'YYYY/MM/DD'
        }
    });
</script>

```

```

<script>
  var peta1 =
L.tileLayer('https://{s}.tile.openstreetmap.org/{z}/{x}/{y}.png', {
  attribution: '&copy; <a
href="https://www.openstreetmap.org/copyright">OpenStreetMap</a>
contributors'
  });

  @foreach ($district as $data)
    var data{{ $data->id_district }} = L.layerGroup();
  @endforeach

  var crime = L.layerGroup();

  var police = L.layerGroup();

  var map = L.map('map', {
    center: [-5.1400, 119.4221],
    zoom: 12,
    layers: [peta1,
      @foreach ($district as $data)
        data{{ $data->id_district }},
      @endforeach
      crime, police,
    ]
  });

  var baseMaps = {
    // "Grayscale": peta1,
    // "Satellite": peta1,
    "Streets": peta1,
  };

  var overlayer = {
    @foreach ($district as $data)
      "{{ $data->name_district }}" : data{{ $data->id_district
    }},
    @endforeach
    "Kriminalitas":crime,
    "Kantor Polisi":police,
  };

  var layerControl = L.control.layers(baseMaps,
overlayer).addTo(map);

  var crimeRate = <?=json_encode($totalCrime)?>;
  @foreach ($totalCrime as $data)

```



```

    var crimeRate{{ $data->id_district }} = {{ $data->count }};
@endforeach

function getColor(d) {
    return d > 30 ? '#BB4F4F' :
           d > 15 ? '#CCBC28' :
           '#5EC14E';
}

@foreach ($district as $data)
    L.geoJSON(<?=$data->geojson ?>, {
        style: {
            color: '{{ $data->colour }}',
            fillColor: getColor(crimeRate{{ $data->id_district
}}),
            fillOpacity: 0.5,
        }
    }).addTo(data{{ $data->id_district }});
@endforeach

@foreach ($crime as $data)
    var icons = L.icon({
        iconUrl: '{{ asset('/img/pin.png') }}',
        iconSize: [20, 20], // size of the icon
    });
    var informasi = '<table><thead><tr><th class="text-center">{{
$data->street_name }}, Kelurahan {{ $data->name_sub_district }},
Kecamatan {{ $data->name_district }}, Kota
Makassar</th></tr></thead><tbody><tr><td class="text-center">{{ $data-
>incident_time }}</td></tr><tr><td class="text-center">{{ $data-
>type_of_crime }}</td></tr></tbody></table>'
    L.marker(<?=$data->position ?>,{icon: icons})
        .addTo(crime)
        .bindPopup(informasi);
@endforeach

@foreach ($police_station as $data)
    var icons = L.icon({
        iconUrl: '{{ asset('/img/police-badge.png') }}',
        iconSize: [20, 20], // size of the icon
    });
    var informasi = '<table><thead><tr><th class="text-
center"></th></tr><tr><th class="text-center">{{ $data-
>name_police_station }}</th></tr></thead><tbody><tr><td class="text-
center">{{ $data->street_name }}, Kelurahan {{ $data-
>name_sub_district }}, Kecamatan {{ $data->name_district }}, Kota

```

```

Makassar</td></tr><tr><td class="text-center">{{ $data->phone_number
}}</td></tr></tbody></table>'
    L.marker([<?=< $data->position ?>],[icon: icons])
    .addTo(police)
    .bindPopup(informasi);
@endforeach

//Legend
var legend = L.control({position : 'bottomright'});
legend.onAdd = function (map) {
    var div = L.DomUtil.create('div', 'info legend');
    div.innerHTML = '<div id="legend-title">Legenda</div><div
id="legend-content"><svg width="15" height="15"><g
fill="#5EC14E"><rect x="0" y="0" width="15" height="15"
/></g></svg> Tingkat Kriminalitas Rendah<br><svg width="15"
height="15"><g fill="#CCBC28"><rect x="0" y="0" width="15" height="15"
/></g></svg> Tingkat Kriminalitas Sedang<br><svg width="15"
height="15"><g fill="#BB4F4F"><rect x="0" y="0" width="15" height="15"
/></g></svg> Tingkat Kriminalitas Tinggi<hr> Kantor Polisi<br> Titik Lokasi
Kriminalitas<br></div>';
    return div;
};
legend.addTo(map);

// Leaflet Search
L.Control.geocoder().addTo(map);
</script>

@endsection

```