

LAPORAN PRAKTIKUM II
LARAVEL

Disusun untuk Memenuhi Mata Pelajaran Praktikum Pemrograman Web
Dibimbing oleh Bapak Ricky Septiandy Pratama Putra Husmildin, S.Pd.

Oleh :

Dimas Yuda Pratama (17691)

XI TKJ 2



SEKOLAH MENENGAH KEJURUAN NEGERI 2 MALANG
KONSENTRASI KEAHLIAN TEKNIK KOMPUTER DAN JARINGAN
MARET 2025

A. LATIHAN

1. Persiapan Database:

- Kode program

```
C:\xampp\htdocs\penjualan-chart> php artisan make:migration create_penjualans_table

database > migrations > 2025_03_29_162549_create_penjualans_table.php > ...

1  <?php
2
3  use Illuminate\Database\Migrations\Migration;
4  use Illuminate\Database\Schema\Blueprint;
5  use Illuminate\Support\Facades\Schema;
6
7  return new class extends Migration {
8      public function up(): void
9      {
10         Schema::create('penjualans', function (Blueprint $table): void {
11             $table->id();
12             $table->date('column: \'tanggal\'');
13             $table->decimal('column: \'total_penjualan\'', total: 10, places: 2);
14             $table->timestamps();
15         });
16     }
17
18     public function down(): void
19     {
20         Schema::dropIfExists('penjualans');
21     }
22 };
```

```
PS C:\xampp\htdocs\penjualan-chart> php artisan migrate
```

```
PS C:\xampp\htdocs\penjualan-chart> php artisan tinker
Psy Shell v0.12.8 (PHP 8.2.12 - cli) by Justin Hileman
> use App\Models\Penjualan;
> use Carbon\Carbon;
>
> // Hapus semua data penjualan
> Penjualan::truncate();
= Illuminate\Database\Eloquent\Builder {#5196
    +pendingAttributes: [],
}

>
> $kategori = ['Makanan Berat', 'Minuman', 'Snack'];
= [
    "Makanan Berat",
    "Minuman",
    "Snack",
]

> $now = Carbon::now();
= Carbon\Carbon @1744222208 {#1303
    date: 2025-04-09 18:10:08.201338 UTC (+00:00),
}

>
> // === 7 Hari Terakhir ===
> for ($i = 6; $i >= 0; $i--) {
    Penjualan::create([
        'tanggal' => $now->copy()->subDays($i)->format('Y-m-d'),
        'kategori' => $kategori[array_rand($kategori)],
        'total_penjualan' => rand(10000, 50000),
    ]);
}
>
```

- Keterangan
 - Buat migrasi untuk tabel 'penjualan'
 - Buat tabel 'penjualan' dengan kolom: id, tanggal, total_penjualan
 - Isi data dummy untuk seminggu terakhir

2. Membuat Model dan Controller:

- Kode program

```
PS C:\xampp\htdocs\penjualan-chart> php artisan make:model Penjualan
PS C:\xampp\htdocs\penjualan-chart> php artisan make:controller PenjualanController

use App\Models\Penjualan;
use Carbon\Carbon;

class PenjualanController extends Controller
{
    public function index()
    {
        $penjualanSembiggu = Penjualan::whereBetween('tanggal', [Carbon::now()->subDays(6
            ->orderBy('tanggal')
            ->get();

        $labels = $penjualanSembiggu->pluck('tanggal')->map(function($tanggal) {
            return Carbon::parse($tanggal)->format('d/m');
        });
        $data = $penjualanSembiggu->pluck('total_penjualan');

        return view('penjualan.chart', compact('labels', 'data'));
    }
}
```

- Keterangan
 - Buat model Penjualan
 - Buat PenjualanController untuk mengambil data penjualan
 - Edit file PenjualanController

3. Integrasi Chart.js:

- Kode program

```
<script src="https://cdn.jsdelivr.net/npm/chart.js"></script>
```

- Keterangan
 - Install Chart.js ke layout utama (resources/views/layouts/app.blade.php) menggunakan npm atau tambahkan CDN
 - Buat view untuk menampilkan grafik

4. Implementasi Chart:

- Kode program

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

@section('content')


<h1>Grafik Penjualan Kantin Seminggu Terakhir</h1>
    <canvas id="penjualanChart"></canvas>



<script>
    var ctx = document.getElementById('penjualanChart').getContext('2d');
    var chart = new Chart(ctx, {
        type: 'bar',
        data: {
            labels: @json($labels),
            datasets: [{
                label: 'Total Penjualan',
                data: @json($data),
                backgroundColor: 'rgba(75, 192, 192, 0.6)',
                borderColor: 'rgba(75, 192, 192, 1)',
                borderWidth: 1
            }]
        },
        options: {
            scales: {
                y: {
                    beginAtZero: true
                }
            }
        }
    });
</script>
@endsection
```

- Keterangan

- Buat view baru di resources/views/penjualan/chart.blade.php
- Ambil data dari database melalui controller
- Kirim data ke view
- Buat grafik menggunakan Chart.js di view

#untuk output program dari project ini akan saya tampilkan dibagian studi kasus

B. STUDI KASUS

1. Setelah menyelesaikan grafik dasar, coba tambahkan fitur-fitur berikut: :

- Tambahkan filter untuk memilih rentang tanggal
- Buat grafik pie untuk menampilkan persentase penjualan per kategori makanan
- Implementasikan grafik garis untuk membandingkan penjualan bulan ini dengan bulan sebelumnya

HASIL

1. Kode Program:

#membuat kategori migrations

```
PS C:\xampp\htdocs\penjualan-chart> php artisan make:migration add_kategori_to_penjualans_table --table=penjualans
DatabaseSchemaMigration:2025_04_08_172034_add_kategori_to_penjualans_table.php > ...
chart\database\migrations\2025_03_29_162549_create_penjualans_table.php
1
2
3 use Illuminate\Database\Migrations\Migration;
4 use Illuminate\Database\Schema\Blueprint;
5 use Illuminate\Support\Facades\Schema;
6
7 return new class extends Migration
8 {
9     public function up(): void
10    {
11        Schema::table('penjualans', callback: function (Blueprint $table): void {
12            $table->string('kategori')->after('column: 'tangal');
13        });
14    }
15
16    public function down(): void
17    {
18        Schema::table('penjualans', callback: function (Blueprint $table): void {
19            $table->dropColumn('column: 'kategori');
20        });
21    }
22}
23};
```

#controller

```
app > Http > Controllers > PenjualanController.php > PHP > PenjualanController > index()
1  <?php
2
3  namespace App\Http\Controllers;
4
5  use App\Models\Penjualan;
6  use Carbon\Carbon;
7  use Illuminate\Http\Request;
8  use Illuminate\Support\Facades\DB;
9
10 5 references | 0 implementations
11 class PenjualanController extends Controller
12 {
13     2 references | 0 overrides
14     public function index(Request $request): View
15     {
16         $startDate = $request->input(key: 'tanggal_mulai');
17         $endDate = $request->input(key: 'tanggal_akhir');
18
19         if (!$startDate || !$endDate) {
20             $startDate = Carbon::now()->subDays(value: 6)->format(format: 'Y-m-d');
21             $endDate = Carbon::now()->format(format: 'Y-m-d');
22         }
23
24         // === Data untuk tabel berdasarkan filter tanggal ===
25         $filteredData = Penjualan::whereBetween(column: 'tanggal', values: [$startDate, $endDate])
26             ->orderBy(column: 'tanggal')
27             ->get();
28
29         // === GRAFIK BAR ===
30         $barData = $filteredData;
31
32         $labels = $barData->pluck(value: 'tanggal')
33             ->map(callback: fn($tanggal): string => Carbon::parse(time: $tanggal)->format(format: 'd/m/Y'))
34             ->toArray();
35         $data = $barData->pluck(value: 'total_penjualan')->toArray();
36
37         // === GRAFIK PIE ===
38         $kategori = Penjualan::select(columns: 'kategori', DB::raw(value: 'SUM(total_penjualan) as total'))
39             ->whereBetween(column: 'tanggal', values: [$startDate, $endDate])
40             ->groupBy(groups: 'kategori')
41             ->get();
42
43         $kategoriLabels = $kategori->pluck(value: 'kategori')->toArray();
44         $kategoriData = $kategori->pluck(value: 'total')->toArray();
45
46         // === GRAFIK GARIS ===
47         $startThisMonth = Carbon::now()->startOfMonth();
48         $endThisMonth = Carbon::now()->endOfMonth();
49
50         $startLastMonth = Carbon::now()->subMonth()->startOfMonth();
```

```

49     $endLastMonth = Carbon::now()->subMonth()->endOfMonth();
50
51     $labelLine = [];
52     for ($date = $startThisMonth->copy(); $date <= $endThisMonth; $date->addDay()) {
53         $labelLine[] = $date->format(format: 'd/m');
54     }
55
56     $penjualanBulanIni = Penjualan::whereBetween(column: 'tanggal', values: [$startThisMonth, $endThisMonth])
57         ->select(columns: DB::raw(value: "DATE(tanggal) as tanggal"), DB::raw(value: "SUM(total_penjualan) as total"))
58         ->groupBy(groups: DB::raw(value: "DATE(tanggal)"))
59         ->pluck(column: 'total', key: 'tanggal');
60
61     $dataBulanIni = [];
62     foreach ($labelLine as $day) {
63         $tanggalFormat = Carbon::createFromFormat(format: 'd/m', time: $day)->format(format: 'Y-m-d');
64         $dataBulanIni[] = $penjualanBulanIni[$tanggalFormat] ?? 0;
65     }
66
67     $penjualanBulanLalu = Penjualan::whereBetween(column: 'tanggal', values: [$startLastMonth, $endLastMonth])
68         ->select(columns: DB::raw(value: "DATE(tanggal) as tanggal"), DB::raw(value: "SUM(total_penjualan) as total"))
69         ->groupBy(groups: DB::raw(value: "DATE(tanggal)"))
70         ->pluck(column: 'total', key: 'tanggal');
71
72     $dataBulanLalu = [];
73     foreach ($labelLine as $day) {
74         $tanggalLalu = Carbon::createFromFormat(format: 'd/m', time: $day)->subMonth()->format(format: 'Y-m-d');
75         $dataBulanLalu[] = $penjualanBulanLalu[$tanggalLalu] ?? 0;
76     }
77
78     return view(view: 'penjualan.chart', data: compact(
79         var_name: 'labels', var_names: 'data',
80         'kategorilabels', 'kategoriData',
81         'dataBulanIni', 'dataBulanLalu',
82         'labelLine',
83         'startDate', 'endDate',
84         'filteredData'
85     )->with(key: 'salesData', value: $filteredData);
86 }
87
88 // === TAMPILKAN FORM INPUT ===
89 // 1 reference | 0 overrides
90 public function form(): View
91 {
92     return view(view: 'penjualan.form');
93 }
94
95 // === SIMPAN DATA DARI FORM ===
96 // 1 reference | 0 overrides
97 public function store(Request $request): RedirectResponse
98 {
99     $request->validate(rules: [
100         'tanggal' => 'required|date',
101         'total_penjualan' => 'required|numeric',
102         'kategori' => 'required|string|max:50',
103     ]);
104
105     Penjualan::create(attributes: [
106         'tanggal' => $request->tanggal,
107         'total_penjualan' => $request->total_penjualan,
108         'kategori' => $request->kategori,
109     ]);
110
111     return redirect()->route(route: 'penjualan.form')->with(key: 'success', value: 'Data penjualan berhasil ditambahkan!');
112 }

```

#app/models/penjualan.php

```
app > Models > Penjualan.php > PHP Intelephense > Penjualan
1  <?php
2
3  namespace App\Models;
4
5  use Illuminate\Database\Eloquent\Factories\HasFactory;
6  use Illuminate\Database\Eloquent\Model;
7
8  class Penjualan extends Model
9  {
10     use HasFactory;
11
12     protected $table = 'penjualans'; // Nama tabel di database
13     protected $fillable = ['tanggal', 'total_penjualan', 'kategori']; // Sesuaikan dengan kolom di database
14 }
```

#route/web.php

```
routes > web.php
1  <?php
2
3  use Illuminate\Support\Facades\Route;
4  use App\Http\Controllers\PenjualanController;
5
6  // Redirect root (/) ke /penjualan/chart
7  Route::redirect(uri: '/', destination: '/penjualan/chart');
8
9  // Route lainnya
10 Route::get(uri: '/penjualan/chart', action: [PenjualanController::class, 'index'])->name('penjualan.chart');
11 Route::get(uri: '/penjualan/form', action: [PenjualanController::class, 'form'])->name('penjualan.form');
12 Route::get(uri: '/penjualan', action: [PenjualanController::class, 'index'])->name('penjualan.index');
13 Route::post(uri: '/penjualan/form', action: [PenjualanController::class, 'store'])->name('penjualan.store');
```

#view/layouts/app.blade.php

```
resources > views > layouts > app.blade.php > html > head > style > header.h1
1  <!DOCTYPE html>
2  <html lang="id">
3
4  <head>
5      <meta charset="UTF-8" />
6      <meta name="viewport" content="width=device-width, initial-scale=1.0" />
7      <title>Kantin Sekolah</title>
8      <script src="https://cdn.jsdelivr.net/npm/chart.js"></script>
9      <link href="https://fonts.googleapis.com/css2?family=Poppins:wght@400;600&display=swap" rel="stylesheet">
10     <style>
11         body {
12             margin: 0;
13             font-family: 'Poppins', sans-serif;
14             background-color: #fff3e0;
15             text-align: center;
16             padding-top: 10px;
17         }
18
19         .header {
20             background: linear-gradient(135deg, #ff7f00, #ffafea);
21             padding: 20px 40px;
22             display: flex;
23             align-items: center;
24             justify-content: space-between;
25             color: white;
26             box-shadow: 0 4px 12px rgba(0, 0, 0, 0.2);
27             z-index: 10;
28             position: fixed;
29             top: 0;
30             left: 0;
31             right: 0;
32         }
33
34         .header-left {
35             display: flex;
36             align-items: center;
37             gap: 15px;
38         }
39
40         .header-img {
41             width: 50px;
42             height: 60px;
43             filter: drop-shadow(3px 3px 8px rgba(0, 0, 0, 0.5));
44         }
45
46         .header h1 {
47             margin: 0;
48             font-size: 20px;
49             font-weight: 600;
50             text-shadow: 2px 2px 4px rgba(0, 0, 0, 0.4);
51         }
52
53         .navbar {
54             display: flex;
55             gap: 20px;
56         }
57
58         .navbar a {
59             position: relative;
60             color: white;
61             text-decoration: none;
62             font-weight: 500;
63             padding: 8px 16px;
64             border: 2px solid #ff7f00;
65             border-radius: 8px;
66             background: #ff7f00;
67             overflow: hidden;
68             z-index: 0;
69         }
70
71         .navbar a::before {
72             content: "";
73             position: absolute;
74             top: -20px;
75             left: -20px;
76             right: -20px;
77             bottom: -20px;
78             background: conic-gradient(from 0deg,
79                 #ff7f00,
80                 #fffc00,
81                 #ff7f00,
82                 #fffc00,
83                 #ff7f00);
84             z-index: -2;
85             animation: rotateGlow 3s linear infinite;
86             filter: blur(3px);
87             opacity: 0.8;
88         }
89
90         .navbar a::after {
91             content: "";
92             position: absolute;
93             inset: 0;
94             background: #ff7f00;
95         }
96
97         .nav-link {
98             padding: 10px 15px;
99             font-size: 14px;
100            font-weight: 500;
101            color: white;
102            text-decoration: none;
103            transition: all 0.3s ease;
104        }
105
106        .nav-link:hover {
107            background-color: #ff7f00;
108            color: black;
109        }
110
111        .nav-link.active {
112            background-color: #ff7f00;
113            color: black;
114            border-bottom: 2px solid #ff7f00;
115        }
116
117        .nav-link i {
118            font-size: 1.2em;
119        }
120
121        .nav-link span {
122            font-size: 0.8em;
123        }
124
125        .nav-link::before {
126            content: "";
127            position: absolute;
128            top: -10px;
129            left: -10px;
130            right: -10px;
131            bottom: -10px;
132            background: conic-gradient(from 0deg,
133                 #ff7f00,
134                 #fffc00,
135                 #ff7f00,
136                 #fffc00,
137                 #ff7f00);
138            z-index: -2;
139            animation: rotateGlow 3s linear infinite;
140            filter: blur(3px);
141            opacity: 0.8;
142        }
143
144        .nav-link::after {
145            content: "";
146            position: absolute;
147            inset: 0;
148            background: #ff7f00;
149        }
150
151        .nav-link.active::before {
152            background-color: #ff7f00;
153            color: black;
154            border-bottom: 2px solid #ff7f00;
155        }
156
157        .nav-link.active::after {
158            background-color: #ff7f00;
159            color: black;
160        }
161
162        .nav-link i {
163            font-size: 1.2em;
164        }
165
166        .nav-link span {
167            font-size: 0.8em;
168        }
169
170        .nav-link::before {
171            content: "";
172            position: absolute;
173            top: -10px;
174            left: -10px;
175            right: -10px;
176            bottom: -10px;
177            background: conic-gradient(from 0deg,
178                 #ff7f00,
179                 #fffc00,
180                 #ff7f00,
181                 #fffc00,
182                 #ff7f00);
183            z-index: -2;
184            animation: rotateGlow 3s linear infinite;
185            filter: blur(3px);
186            opacity: 0.8;
187        }
188
189        .nav-link::after {
190            content: "";
191            position: absolute;
192            inset: 0;
193            background: #ff7f00;
194        }
195
196        .nav-link.active::before {
197            background-color: #ff7f00;
198            color: black;
199            border-bottom: 2px solid #ff7f00;
200        }
201
202        .nav-link.active::after {
203            background-color: #ff7f00;
204            color: black;
205        }
206
207        .nav-link i {
208            font-size: 1.2em;
209        }
210
211        .nav-link span {
212            font-size: 0.8em;
213        }
214
215        .nav-link::before {
216            content: "";
217            position: absolute;
218            top: -10px;
219            left: -10px;
220            right: -10px;
221            bottom: -10px;
222            background: conic-gradient(from 0deg,
223                 #ff7f00,
224                 #fffc00,
225                 #ff7f00,
226                 #fffc00,
227                 #ff7f00);
228            z-index: -2;
229            animation: rotateGlow 3s linear infinite;
230            filter: blur(3px);
231            opacity: 0.8;
232        }
233
234        .nav-link::after {
235            content: "";
236            position: absolute;
237            inset: 0;
238            background: #ff7f00;
239        }
240
241        .nav-link.active::before {
242            background-color: #ff7f00;
243            color: black;
244            border-bottom: 2px solid #ff7f00;
245        }
246
247        .nav-link.active::after {
248            background-color: #ff7f00;
249            color: black;
250        }
251
252        .nav-link i {
253            font-size: 1.2em;
254        }
255
256        .nav-link span {
257            font-size: 0.8em;
258        }
259
260        .nav-link::before {
261            content: "";
262            position: absolute;
263            top: -10px;
264            left: -10px;
265            right: -10px;
266            bottom: -10px;
267            background: conic-gradient(from 0deg,
268                 #ff7f00,
269                 #fffc00,
270                 #ff7f00,
271                 #fffc00,
272                 #ff7f00);
273            z-index: -2;
274            animation: rotateGlow 3s linear infinite;
275            filter: blur(3px);
276            opacity: 0.8;
277        }
278
279        .nav-link::after {
280            content: "";
281            position: absolute;
282            inset: 0;
283            background: #ff7f00;
284        }
285
286        .nav-link.active::before {
287            background-color: #ff7f00;
288            color: black;
289            border-bottom: 2px solid #ff7f00;
290        }
291
292        .nav-link.active::after {
293            background-color: #ff7f00;
294            color: black;
295        }
296
297        .nav-link i {
298            font-size: 1.2em;
299        }
299
300        .nav-link span {
301            font-size: 0.8em;
302        }
303
304        .nav-link::before {
305            content: "";
306            position: absolute;
307            top: -10px;
308            left: -10px;
309            right: -10px;
310            bottom: -10px;
311            background: conic-gradient(from 0deg,
312                 #ff7f00,
313                 #fffc00,
314                 #ff7f00,
315                 #fffc00,
316                 #ff7f00);
317            z-index: -2;
318            animation: rotateGlow 3s linear infinite;
319            filter: blur(3px);
320            opacity: 0.8;
321        }
322
323        .nav-link::after {
324            content: "";
325            position: absolute;
326            inset: 0;
327            background: #ff7f00;
328        }
329
330        .nav-link.active::before {
331            background-color: #ff7f00;
332            color: black;
333            border-bottom: 2px solid #ff7f00;
334        }
335
336        .nav-link.active::after {
337            background-color: #ff7f00;
338            color: black;
339        }
339
340        .nav-link i {
341            font-size: 1.2em;
342        }
343
344        .nav-link span {
345            font-size: 0.8em;
346        }
347
348        .nav-link::before {
349            content: "";
350            position: absolute;
351            top: -10px;
352            left: -10px;
353            right: -10px;
354            bottom: -10px;
355            background: conic-gradient(from 0deg,
356                 #ff7f00,
357                 #fffc00,
358                 #ff7f00,
359                 #fffc00,
360                 #ff7f00);
361            z-index: -2;
362            animation: rotateGlow 3s linear infinite;
363            filter: blur(3px);
364            opacity: 0.8;
365        }
366
367        .nav-link::after {
368            content: "";
369            position: absolute;
370            inset: 0;
371            background: #ff7f00;
372        }
373
374        .nav-link.active::before {
375            background-color: #ff7f00;
376            color: black;
377            border-bottom: 2px solid #ff7f00;
378        }
379
380        .nav-link.active::after {
381            background-color: #ff7f00;
382            color: black;
383        }
383
384        .nav-link i {
385            font-size: 1.2em;
386        }
387
388        .nav-link span {
389            font-size: 0.8em;
390        }
391
392        .nav-link::before {
393            content: "";
394            position: absolute;
395            top: -10px;
396            left: -10px;
397            right: -10px;
398            bottom: -10px;
399            background: conic-gradient(from 0deg,
400                 #ff7f00,
401                 #fffc00,
402                 #ff7f00,
403                 #fffc00,
404                 #ff7f00);
405            z-index: -2;
406            animation: rotateGlow 3s linear infinite;
407            filter: blur(3px);
408            opacity: 0.8;
409        }
410
411        .nav-link::after {
412            content: "";
413            position: absolute;
414            inset: 0;
415            background: #ff7f00;
416        }
417
418        .nav-link.active::before {
419            background-color: #ff7f00;
420            color: black;
421            border-bottom: 2px solid #ff7f00;
422        }
423
424        .nav-link.active::after {
425            background-color: #ff7f00;
426            color: black;
427        }
427
428        .nav-link i {
429            font-size: 1.2em;
430        }
431
432        .nav-link span {
433            font-size: 0.8em;
434        }
435
436        .nav-link::before {
437            content: "";
438            position: absolute;
439            top: -10px;
440            left: -10px;
441            right: -10px;
442            bottom: -10px;
443            background: conic-gradient(from 0deg,
444                 #ff7f00,
445                 #fffc00,
446                 #ff7f00,
447                 #fffc00,
448                 #ff7f00);
449            z-index: -2;
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451            filter: blur(3px);
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485            right: -10px;
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489                 #fffc00,
490                 #ff7f00,
491                 #fffc00,
492                 #ff7f00);
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527            top: -10px;
528            left: -10px;
529            right: -10px;
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535                 #fffc00,
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572            left: -10px;
573            right: -10px;
574            bottom: -10px;
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577                 #fffc00,
578                 #ff7f00,
579                 #fffc00,
580                 #ff7f00);
581            z-index: -2;
582            animation: rotateGlow 3s linear infinite;
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598        }
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607
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609            font-size: 0.8em;
610        }
611
612        .nav-link::before {
613            content: "";
614            position: absolute;
615            top: -10px;
616            left: -10px;
617            right: -10px;
618            bottom: -10px;
619            background: conic-gradient(from 0deg,
620                 #ff7f00,
621                 #fffc00,
622                 #ff7f00,
623                 #fffc00,
624                 #ff7f00);
625            z-index: -2;
626            animation: rotateGlow 3s linear infinite;
627            filter: blur(3px);
628            opacity: 0.8;
629        }
630
631        .nav-link::after {
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636        }
637
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640            color: black;
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642        }
643
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660            left: -10px;
661            right: -10px;
662            bottom: -10px;
663            background: conic-gradient(from 0deg,
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665                 #fffc00,
666                 #ff7f00,
667                 #fffc00,
668                 #ff7f00);
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680        }
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699
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704            left: -10px;
705            right: -10px;
706            bottom: -10px;
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709                 #fffc00,
710                 #ff7f00,
711                 #fffc00,
712                 #ff7f00);
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715            filter: blur(3px);
716            opacity: 0.8;
717        }
718
719        .nav-link::after {
720            content: "";
721            position: absolute;
722            inset: 0;
723            background: #ff7f00;
724        }
725
726        .nav-link.active::before {
727            background-color: #ff7f00;
728            color: black;
729            border-bottom: 2px solid #ff7f00;
730        }
731
732        .nav-link.active::after {
733            background-color: #ff7f00;
734            color: black;
735        }
735
736        .nav-link i {
737            font-size: 1.2em;
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739
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741            font-size: 0.8em;
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744        .nav-link::before {
745            content: "";
746            position: absolute;
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748            left: -10px;
749            right: -10px;
750            bottom: -10px;
751            background: conic-gradient(from 0deg,
752                 #ff7f00,
753                 #fffc00,
754                 #ff7f00,
755                 #fffc00,
756                 #ff7f00);
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791            top: -10px;
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793            right: -10px;
794            bottom: -10px;
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796                 #ff7f00,
797                 #fffc00,
798                 #ff7f00,
799                 #fffc00,
800                 #ff7f00);
801            z-index: -2;
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807        .nav-link::after {
808            content: "";
809            position: absolute;
810            inset: 0;
811            background: #ff7f00;
812        }
813
814        .nav-link.active::before {
815            background-color: #ff7f00;
816            color: black;
817            border-bottom: 2px solid #ff7f00;
818        }
819
820        .nav-link.active::after {
821            background-color: #ff7f00;
822            color: black;
823        }
823
824        .nav-link i {
825            font-size: 1.2em;
826        }
827
828        .nav-link span {
829            font-size: 0.8em;
830        }
831
832        .nav-link::before {
833            content: "";
834            position: absolute;
835            top: -10px;
836            left: -10px;
837            right: -10px;
838            bottom: -10px;
839            background: conic-gradient(from 0deg,
840                 #ff7f00,
841                 #fffc00,
842                 #ff7f00,
843                 #fffc00,
844                 #ff7f00);
845            z-index: -2;
846            animation: rotateGlow 3s linear infinite;
847            filter: blur(3px);
848            opacity: 0.8;
849        }
850
851        .nav-link::after {
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853            position: absolute;
854            inset: 0;
855            background: #ff7f00;
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858        .nav-link.active::before {
859            background-color: #ff7f00;
860            color: black;
861            border-bottom: 2px solid #ff7f00;
862        }
863
864        .nav-link.active::after {
865            background-color: #ff7f00;
866            color: black;
867        }
867
868        .nav-link i {
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876        .nav-link::before {
877            content: "";
878            position: absolute;
879            top: -10px;
880            left: -10px;
881            right: -10px;
882            bottom: -10px;
883            background: conic-gradient(from 0deg,
884                 #ff7f00,
885                 #fffc00,
886                 #ff7f00,
887                 #fffc00,
888                 #ff7f00);
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891            filter: blur(3px);
892            opacity: 0.8;
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894
895        .nav-link::after {
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897            position: absolute;
898            inset: 0;
899            background: #ff7f00;
900        }
901
902        .nav-link.active::before {
903            background-color: #ff7f00;
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906        }
907
908        .nav-link.active::after {
909            background-color: #ff7f00;
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911        }
911
912        .nav-link i {
913            font-size: 1.2em;
914        }
915
916        .nav-link span {
917            font-size: 0.8em;
918        }
919
920        .nav-link::before {
921            content: "";
922            position: absolute;
923            top: -10px;
924            left: -10px;
925            right: -10px;
926            bottom: -10px;
927            background: conic-gradient(from 0deg,
928                 #ff7f00,
929                 #fffc00,
930                 #ff7f00,
931                 #fffc00,
932                 #ff7f00);
933            z-index: -2;
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935            filter: blur(3px);
936            opacity: 0.8;
937        }
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939        .nav-link::after {
940            content: "";
941            position: absolute;
942            inset: 0;
943            background: #ff7f00;
944        }
945
946        .nav-link.active::before {
947            background-color: #ff7f00;
948            color: black;
949            border-bottom: 2px solid #ff7f00;
950        }
951
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953            background-color: #ff7f00;
954            color: black;
955        }
955
956        .nav-link i {
957            font-size: 1.2em;
958        }
959
960        .nav-link span {
961            font-size: 0.8em;
962        }
963
964        .nav-link::before {
965            content: "";
966            position: absolute;
967            top: -10px;
968            left: -10px;
969            right: -10px;
970            bottom: -10px;
971            background: conic-gradient(from 0deg,
972                 #ff7f00,
973                 #fffc00,
974                 #ff7f00,
975                 #fffc00,
976                 #ff7f00);
977            z-index: -2;
978            animation: rotateGlow 3s linear infinite;
979            filter: blur(3px);
980            opacity: 0.8;
981        }
982
983        .nav-link::after {
984            content: "";
985            position: absolute;
986            inset: 0;
987            background: #ff7f00;
988        }
989
990        .nav-link.active::before {
991            background-color: #ff7f00;
992            color: black;
993            border-bottom: 2px solid #ff7f00;
994        }
995
996        .nav-link.active::after {
997            background-color: #ff7f00;
998            color: black;
999        }
999
1000        .nav-link i {
1001            font-size: 1.2em;
1002        }
1003
1004        .nav-link span {
1005            font-size: 0.8em;
1006        }
```


#view/penjualan/chart.blade.php

```
resources > views > penjualan > chart.blade.php > div.container.mt-4.
1  @extends(view: 'layouts.app')
2
3  @section(section: 'content')
4
5  <div class="container mt-4">
6      <!-- FILTER TANGGAL -->
7      <div class="filter-container">
8          <div class="filter-box mb-4">
9              <form method="GET" action="{{ route(name: 'penjualan.index') }}>
10                 <div class="filter-row">
11                     <div class="filter-group">
12                         <label for="tanggal_mulai">Dari Tanggal:</label>
13                         <input type="date" id="tanggal_mulai" name="tanggal_mulai" value="{{ request(key: 'tanggal_mulai', default: now())->subDays(value: 7)->format(format: 'Y-m-d') }}">
14                     </div>
15
16                     <div class="filter-group">
17                         <label for="tanggal_akhir">Sampai Tanggal:</label>
18                         <input type="date" id="tanggal_akhir" name="tanggal_akhir" value="{{ request(key: 'tanggal_akhir', default: now())->format(format: 'Y-m-d') }}">
19                     </div>
20
21                     <div class="filter-buttons">
22                         <button type="submit" class="btn-filter">Filter</button>
23                         <a href="{{ route(name: 'penjualan.index') }}" class="btn-reset">Reset</a>
24                     </div>
25                 </div>
26             </div>
27         </form>
28     </div>
29
30     <!-- DATA PENJUALAN -->
31     <div class="sales-data mb-5">
32         <h4>Data Penjualan</h4>
33         <div class="table-responsive">
34             <table class="table table-bordered table-striped">
35                 <thead class="table-warning">
36                     <tr>
37                         <th>#</th>
38                         <th>Tanggal</th>
39                         <th>Kategori</th>
40                         <th>Total (Rp)</th>
41                     </tr>
42                 </thead>
43                 <tbody>
44                     @if(isset($salesData) && count(value: $salesData) > 0)
45                     @foreach($salesData as $index => $sale)
46                         <tr>
47                             <td>{{ $index + 1 }}</td>
48                             <td>{{ \Carbon\Carbon::parse(time: $sale->tanggal ?? now())->format(format: 'd-m-Y') }}</td>
49                             <td>{{ $sale->kategori ?? '-' }}</td>
50                             <td>Rp {{ number_format(num: $sale->total_penjualan ?? 0, decimals: 0, decimal_separator: ',', thousands_separators: '.') }}</td>
51                         </tr>
52                     @endforeach
53                     @else
54                         <tr>
55                             <td colspan="4" class="text-center">Tidak ada data penjualan untuk periode yang dipilih.</td>
56                         </tr>
57                     @endif
58                 </tbody>
59                 <tfoot class="table-warning">
60                     <tr>
61                         <th colspan="2">Total</th>
62                         <th></th>
63                         <th>Rp {{ number_format(num: isset($salesData) ? $salesData->sum('total_penjualan') ?? 0 : 0, decimals: 0, decimal_separator: ',', thousands_separators: '.') }}</th>
64                     </tr>
65                 </tfoot>
66             </table>
67         </div>
68     </div>
69
70
71
```

```

72
73     <div class="chart-container">
74         <div class="chart-box">
75             <h3>Grafik Batang: Penjualan 7 Hari Terakhir</h3>
76             <canvas id="barChart"></canvas>
77         </div>
78
79         <div class="chart-box">
80             <h3>Grafik Garis: Perbandingan Penjualan Bulanan</h3>
81             <canvas id="lineChart"></canvas>
82         </div>
83
84         <div class="chart-box">
85             <h3>Grafik Pie: Persentase Penjualan per Kategori</h3>
86             <canvas id="pieChart"></canvas>
87         </div>
88     </div>
89 </div>
90
91 <style>
92     @import url('https://fonts.googleapis.com/css2?family=Poppins:wght@400;600&display=swap');
93
94     body {
95         background-color: #rgb(235, 136, 37);
96         font-family: 'Poppins', sans-serif;
97         text-align: center;
98     }
99
100    .filter-container {
101        margin-bottom: 30px;
102        display: flex;
103        justify-content: center;
104    }
105
106    .filter-box {
107        background-color: #ffcc80;
108        padding: 25px;
109        width: 70%;
110        border-radius: 12px;
111        box-shadow: 0 4px 8px #rgba(0, 0, 0, 0.1);
112    }
113
114    .filter-row {
115        display: flex;
116        flex-wrap: wrap;
117        gap: 20px;
118        justify-content: center;
119        align-items: flex-end;
120    }
121
122    .filter-group {
123        display: flex;
124        flex-direction: column;
125        align-items: flex-start;
126        min-width: 200px;
127    }
128
129    .filter-group label {
130        font-weight: 600;
131        margin-bottom: 5px;

```

```
132     color: #e65100;
133 }
134
135 .filter-group input {
136   width: 90%;
137   padding: 10px;
138   border: 1px solid #ffa726;
139   border-radius: 6px;
140   background-color: #fff8e1;
141 }
142
143 .filter-buttons {
144   display: flex;
145   gap: 10px;
146 }
147
148 .btn-filter {
149   background-color: #fb8c00;
150   color: white;
151   padding: 10px 20px;
152   border: none;
153   border-radius: 6px;
154   font-weight: bold;
155   cursor: pointer;
156   transition: all 0.3s ease;
157 }
158
159 .btn-reset {
160   background-color: #e0e0e0;
161   color: #424242;
162   padding: 10px 20px;
163   border: none;
164   border-radius: 6px;
165   font-weight: bold;
166   cursor: pointer;
167   text-decoration: none;
168   transition: all 0.3s ease;
169 }
170
171 .btn-filter:hover {
172   background-color: #ef6c00;
173   transform: translateY(-2px);
174 }
175
176 .btn-reset:hover {
177   background-color: #bdbdbd;
178   transform: translateY(-2px);
179 }
180
181 .sales-data {
182   margin: 0 auto;
183   background: #ffcc80;
184   width: 70%;
185   padding: 25px;
186   border-radius: 12px;
187   box-shadow: 0 4px 6px rgba(0, 0, 0, 0.1);
188   margin-bottom: 30px;
189 }
190
```

```

191 .sales-data h4 {
192     margin-bottom: 20px;
193     font-weight: 600;
194     color: #e65100;
195 }
196
197 .table {
198     width: 100%;
199     border-collapse: collapse;
200 }
201
202 .table th,
203 .table td {
204     padding: 10px;
205     text-align: left;
206 }
207
208 .table-warning {
209     background-color: #ffe082;
210 }
211
212 .table-striped tbody tr:nth-of-type(odd) {
213     background-color: rgba(255, 248, 225, 0.5);
214 }
215
216 .chart-container {
217     display: flex;
218     flex-direction: column;
219     gap: 30px;
220     align-items: center;
221 }
222
223 .chart-box {
224     background: #ffcc80;
225     padding: 20px;
226     border-radius: 10px;
227     box-shadow: 2px 2px 10px rgba(0, 0, 0, 0.1);
228     width: 70%;
229 }
230
231 table {
232     font-size: 14px;
233     text-align: left;
234 }
235
236 @media (max-width: 768px) {
237     .filter-row {
238         flex-direction: column;
239         align-items: stretch;
240     }
241
242     .filter-group {
243         width: 100%;
244     }
245
246     .chart-box {
247         width: 95%;
248     }
249 }
250 </style>

```

```

251
252 <script>
253     var labels = @json(value: $labels ?? []);
254     var data = @json(value: $data ?? []);
255     var dataBulanIni = @json(value: $dataBulanIni ?? []);
256     var dataBulanLalu = @json(value: $dataBulanLalu ?? []);
257     var kategoriLabels = @json(value: $kategoriLabels ?? []);
258     var kategoriData = @json(value: $kategoriData ?? []);
259
260     document.addEventListener('DOMContentLoaded', function() {
261         if (document.getElementById('barChart')) {
262             new Chart(document.getElementById('barChart'), {
263                 type: 'bar',
264                 data: {
265                     labels: labels,
266                     datasets: [{
267                         label: 'Total Penjualan (Rp)',
268                         data: data,
269                         backgroundColor: 'rgba(230, 81, 0, 0.6)',
270                         borderColor: 'rgba(230, 81, 0, 1)',
271                         borderWidth: 1
272                     }]
273                 },
274                 options: {
275                     responsive: true,
276                     scales: {
277                         y: {
278                             beginAtZero: true
279                         }
280                     }
281                 }
282             });
283         }
284
285         if (document.getElementById('lineChart')) {
286             new Chart(document.getElementById('lineChart'), {
287                 type: 'line',
288                 data: {
289                     labels: labels,
290                     datasets: [
291                         {
292                             label: 'Bulan Ini',
293                             data: dataBulanIni,
294                             backgroundColor: 'rgba(33, 150, 243, 0.4)',
295                             borderColor: 'rgba(33, 150, 243, 1)',
296                             borderWidth: 2
297                         },
298                         {
299                             label: 'Bulan Lalu',
300                             data: dataBulanLalu,
301                             backgroundColor: 'rgba(76, 175, 80, 0.4)',
302                             borderColor: 'rgba(76, 175, 80, 1)',
303                             borderWidth: 2
304                         }
305                     ]
306                 },
307                 options: {
308                     responsive: true,
309                     scales: {
310                         y: {
311                             beginAtZero: true
312                         }
313                     }
314                 }
315             });
316         }
317     });
318 
```

```
312     });
313   });
314 });
315 });
316 });
317 if (document.getElementById('pieChart')) {
318   new Chart(document.getElementById('pieChart'), {
319     type: 'pie',
320     data: {
321       labels: kategoriLabels,
322       datasets: [
323         {
324           data: kategoriData,
325           backgroundColor: [
326             '#ff8a65', '#ff7043', '#ff5722', '#e64a19',
327             '#bf360c', '#d84315', '#ff6e40'
328           ]
329         }
330       ],
331       options: {
332         responsive: true
333       }
334     });
335   });
336 </script>
337 };
338 @endsection
```

#membuat view form input

```
resources > views > penjualan > form.blade.php > ...
1  @extends(view: 'layouts.app')
2
3  @section(section: 'content')
4  <style>
5      @import url('https://fonts.googleapis.com/css2?family=Poppins:wght@400,500,600&display=swap');
6
7      html,
8      body {
9          margin: 0;
10         padding: 0;
11         min-height: 100%;
12         font-family: 'Poppins', sans-serif;
13         background: #rgb(235, 136, 37);
14         display: flex;
15         flex-direction: column;
16     }
17
18     .form-container {
19         flex: 1;
20         display: flex;
21         align-items: center;
22         justify-content: center;
23         padding: 2rem;
24         padding-bottom: 100px;
25     }
26
27
28     .form-box {
29         background: #rgb(255, 163, 58);
30         padding: 0;
31         overflow: hidden;
32         display: flex;
33         flex-direction: column;
34         border-radius: 1rem;
35         box-shadow: 0 12px 28px #rgba(0, 0, 0, 0.1);
36         width: 100%;
37         max-width: 500px;
38         transition: all 0.3s ease-in-out;
39     }
40
41     .form-box:hover {
42         transform: translateY(-3px);
43         box-shadow: 0 18px 38px #rgba(0, 0, 0, 0.15);
44     }
45
46     .form-header {
47         background: #rgb(255, 98, 14);
48         padding: 1.5rem 2rem;
49         text-align: center;
50     }
51
52     .form-title {
53         color: #rgb(255, 255, 255);
54         font-size: 1.9rem;
55         font-weight: 600;
56         margin: 0;
57     }
58
59     .form-body {
60         padding: 2rem;
61         display: flex;
62         flex-direction: column;
```

```
63     gap: 1.4rem;
64   }
65
66   .form-content {
67     display: flex;
68     flex-direction: column;
69     gap: 1.4rem;
70   }
71
72   .form-group label {
73     font-weight: 500;
74     color: #333;
75     margin-bottom: 0.5rem;
76     display: block;
77   }
78
79   .form-group input {
80     width: 90%;
81     padding: 0.75rem 1rem;
82     border: 1px solid #ddd;
83     border-radius: 0.6rem;
84     background: #fafafa;
85     transition: all 0.25s ease;
86     font-size: 1rem;
87   }
88
89   .form-group select {
90     width: 97%;
91     padding: 0.75rem 1rem;
92     border: 1px solid #ddd;
93     border-radius: 0.6rem;
94     background: #fafafa;
95     transition: all 0.25s ease;
96     font-size: 1rem;
97   }
98
99   .form-group input:hover,
100  .form-group select:hover {
101    background: #fff;
102    border-color: #ffcc80;
103    transform: scale(1.02);
104    box-shadow: 0 0 5px rgba(255, 112, 67, 0.2);
105  }
106
107  .form-group input:focus,
108  .form-group select:focus {
109    border-color: #ffa726;
110    background-color: #ffffdf;
111    outline: none;
112    box-shadow: 0 0 6px rgba(255, 143, 0, 0.25);
113    transform: scale(1.03);
114  }
115
116  .error-text {
117    color: #e53935;
118    font-size: 0.85rem;
119    margin-top: 0.3rem;
120  }
121
122  .alert-success {
```

```

123     background: #f1f8e9;
124     border: 1px solid #aed581;
125     padding: 0.8rem 1rem;
126     border-radius: 0.5rem;
127     color: #558b2f;
128     font-weight: 500;
129     text-align: center;
130     margin-bottom: 1rem;
131   }
132
133 .btn-wrapper {
134   text-align: center;
135 }
136
137 .btn-submit {
138   background: linear-gradient(to right, #rgb(255, 154, 30), #f4511e);
139   color: #fff;
140   padding: 0.9rem 2.2rem;
141   border: none;
142   border-radius: 0.6rem;
143   font-weight: 600;
144   font-size: 1rem;
145   cursor: pointer;
146   transition: all 0.3s ease;
147   box-shadow: 0 5px 15px #rgba(245, 81, 30, 0.3);
148 }
149
150 .btn-submit:hover {
151   background: linear-gradient(to right, #f57c00, #rgb(226, 86, 43));
152   transform: translateY(-2px);
153   box-shadow: 0 8px 25px #rgba(245, 81, 30, 0.4);
154 }
155
156 @media (max-width: 600px) {
157   .form-box {
158     padding: 0;
159   }
160
161   .form-header {
162     padding: 1rem;
163   }
164
165   .form-title {
166     font-size: 1.6rem;
167   }
168
169   .form-body {
170     padding: 1.5rem;
171   }
172
173   .btn-submit {
174     width: 100%;
175   }
176 }
177 </style>
178 <br><br><br><br><br>
179 <div class="form-container">
180   <div class="form-box">
181     <div class="form-header">
182       <h2 class="form-title">Form Input Penjualan</h2>

```

```

183     </div>
184
185     <div class="form-body">
186         @if(session(key: 'success'))
187             <div class="alert-success">{{ session(key: 'success') }}</div>
188         @endif
189
190         <form action="{{ route(name: 'penjualan.store') }}" method="POST" class="form-content">
191             @csrf
192
193             <div class="form-group">
194                 <label for="tanggal">Tanggal</label>
195                 <input type="date" name="tanggal" id="tanggal" value="{{ old(key: 'tanggal') }}" required>
196                 @error('tanggal')
197                     <small class="error-text">{{ $message }}</small>
198                 @enderror
199             </div>
200
201             <div class="form-group">
202                 <label for="total_penjualan">Total Penjualan</label>
203                 <input type="number" name="total_penjualan" id="total_penjualan"
204                     placeholder="harga total dalam 1 hari" value="{{ old(key: 'total_penjualan') }}" required>
205                 @error('total_penjualan')
206                     <small class="error-text">{{ $message }}</small>
207                 @enderror
208             </div>
209
210             <div class="form-group">
211                 <label for="kategori">Kategori</label>
212                 <select name="kategori" id="kategori" required>
213                     <option value="">-- Pilih Kategori --</option>
214                     <option value="Makanan Berat" {{ old(key: 'kategori') == 'Makanan Berat' ? 'selected' : '' }}>Makanan Berat</option>
215                     <option value="Minuman" {{ old(key: 'kategori') == 'Minuman' ? 'selected' : '' }}>Minuman</option>
216                     <option value="Snack" {{ old(key: 'kategori') == 'Snack' ? 'selected' : '' }}>Snack</option>
217                 </select>
218                 @error('kategori')
219                     <small class="error-text">{{ $message }}</small>
220                 @enderror
221             </div>
222
223             <div class="btn-wrapper">
224                 <button type="submit" class="btn-submit">Simpan</button>
225             </div>
226         </form>
227     </div>
228 </div>
229 </div>
230 <br>
231 <br>
232 @endsection

```

2. Output Program:

The screenshot shows a web-based application titled "Grafik Penjualan Kantin Sekolah". The interface has an orange header and a white body. At the top right are two buttons: "Chart" and "Form". Below the header, there is a search bar with fields for "Dari Tanggal" (04/06/2025) and "Sampai Tanggal" (04/12/2025), along with "Filter" and "Reset" buttons. The main content area contains a table titled "Data Penjualan" showing sales data from April 6 to April 10, 2025. The table includes columns for #, Tanggal, Kategori, and Total (Rp). The total sales for the period are Rp 218.288. Below the table is a section titled "Grafik Batang: Penjualan 7 Hari Terakhir" which includes a legend for "Total Penjualan (Rp)".

| # | Tanggal | Kategori | Total (Rp) |
|-------|------------|---------------|------------|
| 1 | 06-04-2025 | Minuman | Rp 10.317 |
| 2 | 07-04-2025 | Minuman | Rp 25.654 |
| 3 | 08-04-2025 | Snack | Rp 23.070 |
| 4 | 09-04-2025 | Snack | Rp 20.116 |
| 5 | 06-04-2025 | Minuman | Rp 28.085 |
| 6 | 07-04-2025 | Minuman | Rp 48.974 |
| 7 | 08-04-2025 | Minuman | Rp 32.521 |
| 8 | 09-04-2025 | Snack | Rp 29.550 |
| 9 | 10-04-2025 | Makanan Berat | Rp 1 |
| Total | | | Rp 218.288 |

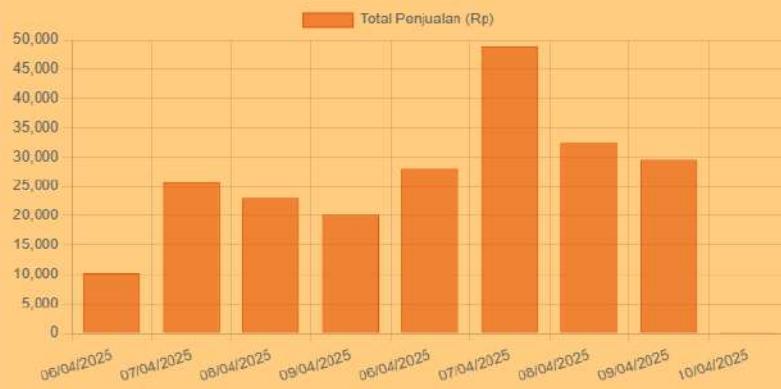


Grafik Penjualan Kantin Sekolah

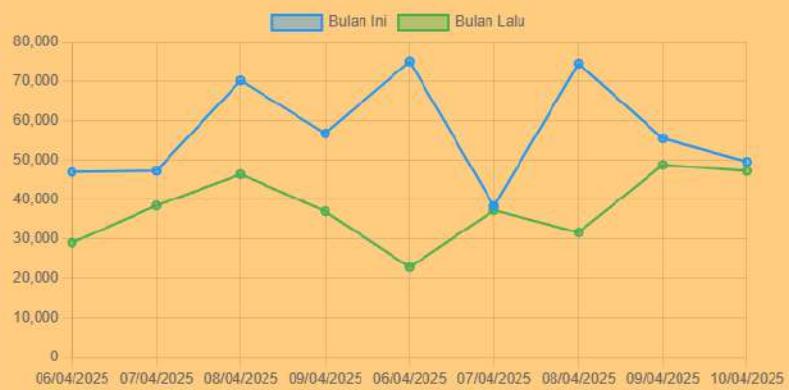
Chart

Form

Grafik Batang: Penjualan 7 Hari Terakhir



Grafik Garis: Perbandingan Penjualan Bulanan





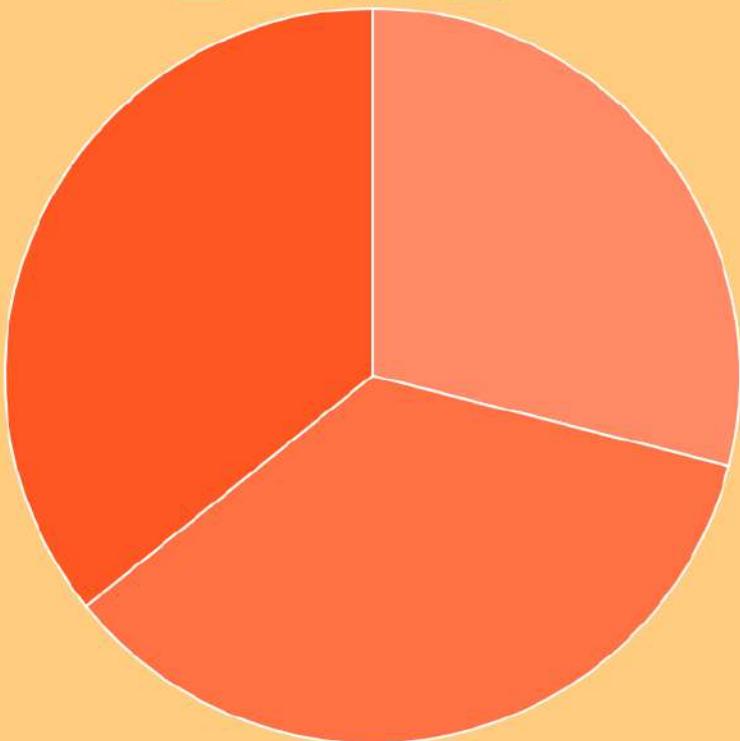
Grafik Penjualan Kantin Sekolah

Chart

Form

Grafik Pie: Persentase Penjualan per Kategori

Makanan Berat Snack Minuman



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The screenshot shows a web browser window titled "Kantin Sekolah" with the URL "127.0.0.1:8000/penjualan/form". The page has an orange header bar with the title "Grafik Penjualan Kantin Sekolah" and two buttons: "Chart" and "Form". Below the header is a large orange form titled "Form Input Penjualan". The form contains three input fields: "Tanggal" (Date) with a placeholder "mm/dd/yyyy" and a calendar icon; "Total Penjualan" (Total Sales) with a placeholder "harga total dalam 1 hari" (price total in 1 day); and "Kategori" (Category) with a dropdown menu showing "-- Pilih Kategori --". At the bottom of the form is a red "Simpan" (Save) button. The footer of the page displays the copyright notice "© 2025 Kantin Sekolah. SMK Negeri 2 Malang".

Grafik Penjualan Kantin Sekolah

Chart Form

Form Input Penjualan

Tanggal

mm/dd/yyyy

Total Penjualan

harga total dalam 1 hari

Kategori

-- Pilih Kategori --

Simpan

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Kantin Sekolah

127.0.0.1:8000/penjualan/form

Grafik Penjualan Kantin Sekolah

Chart Form

Form Input Penjualan

Data penjualan berhasil ditambahkan!

Tanggal

mm/dd/yyyy

Total Penjualan

harga total dalam 1 hari

Kategori

-- Pilih Kategori --

Simpan

3. Keterangan:

Struktur Kode

- **Controller PenjualanController:**
 - Metode `index` menangani logika untuk menampilkan data berdasarkan filter tanggal yang diminta dan menyiapkan data untuk grafik (Batang, Pie, dan Garis).
 - Di dalam `index`, kita melakukan beberapa query database untuk mendapatkan data yang diperlukan, seperti penjualan berdasarkan tanggal, total per kategori, dan perbandingan penjualan antar bulan.
- **Penyusunan Data untuk Grafik:**
 - **Grafik Batang:** Mengambil data penjualan untuk 7 hari terakhir dan menyiapkan label serta data yang akan ditampilkan di grafik.
 - **Grafik Pie:** Menampilkan total penjualan berdasarkan kategori dengan menggunakan `groupBy()` untuk mengelompokkan data penjualan berdasarkan kategori dan menghitung totalnya.
 - **Grafik Garis:** Menyiapkan data per hari untuk bulan ini dan bulan sebelumnya, dan menggabungkan data untuk menghasilkan perbandingan yang jelas.
- **Form Input dan Penyimpanan Data:**
 - Metode `form` menampilkan form untuk memasukkan data penjualan baru.
 - Metode `store` menangani penyimpanan data penjualan baru setelah diverifikasi.
- **Routing:**
 - Pastikan bahwa setiap proses seperti menampilkan grafik, form input, dan penyimpanan data dapat diakses melalui routing yang telah ditentukan dalam `web.php`.

Kesimpulan

Dalam studi kasus ini, saya berhasil menambahkan fitur-fitur baru yang memberikan fleksibilitas bagi pengguna untuk memfilter data berdasarkan tanggal dan menampilkan analisis penjualan menggunakan grafik. Struktur kode yang dibangun terorganisir dengan baik dan menggunakan query database yang efisien untuk memproses data sesuai kebutuhan tampilan yang diinginkan. Sistem ini memberikan pengalaman pengguna yang lebih baik dalam menganalisis data penjualan..

Setelah menambahkan fitur filter tanggal, grafik pie, dan grafik garis, saya juga menambahkan form input untuk memasukkan data penjualan baru ke dalam sistem. Form input ini memungkinkan pengguna untuk memasukkan tanggal, total penjualan, dan kategori makanan. Ketika form disubmit, data akan divalidasi terlebih dahulu untuk memastikan bahwa tanggal yang dimasukkan benar, total penjualannya berupa angka, dan kategori sesuai dengan list.

Jika semua data valid, saya menggunakan metode `create()` untuk menyimpan data tersebut ke dalam database. Setelah data berhasil disimpan, pengguna akan mendapatkan notifikasi sukses dan diarahkan kembali ke form input. Dengan cara ini, pengguna dapat terus menambah data penjualan dengan mudah.