

2. Surat Pengantar Dari Kaprodi Ke Perpustakaan



Jakarta, 4 November 2022

Nomor : 81-100 /SP/KAPRODI-IF/FASILKOM/UEU/EXT/XI/2022
 Lampiran : -
 Perihal : Surat Permohonan Izin Untuk Penelitian

Kepada Yth Kepala Dinas Perpustakaan dan Kearsipan Kota Tangerang Selatan
 Jl. Ciater Raya, Ciater, Kec. Serpong, Kota Tangerang Selatan, Banten 153106

Dengan Hormat,

Sehubungan dengan mata kuliah Skripsi/Tugas Akhir yang memerlukan data dan informasi bagi mahasiswa Fakultas Ilmu Komputer Program Studi Teknik Informatika, bersama ini kami sampaikan bahwa mahasiswa kami bermaksud untuk mencari beberapa data / informasi. Adapun nama mahasiswa tersebut adalah :

NIM	Nama	No HP	Judul
20190801234	Zody Arifiansyah	085714352080	Implementasi Business intelligence Dalam Melihat Minat Baca Anak Milenial Dengan Menggunakan Metode Nine-Step Kimball

Kami berharap Bapak/Ibu memberikan izin pengambilan data untuk Mahasiswa tersebut. Demikianlah atas perhatian dan kerjasamanya, kami ucapkan terima kasih

Hormat kami,



M. Bahrul Ulum, S.Kom, M.Kom
 Kaprodi Teknik Informatika

C.c : 1. Arsip

Note : pada saat pengambilan data bisa mengikuti protokol covid (memakai masker, handsanitizer dan pengecekan suhu tubuh, dan sangat disarankan untuk mengambil data secara online).

Gambar 5.1 Surat pengantar dari kaprodi ke perpustakaan

3. Surat Keterangan Menyatakan Melakukan Penelitian



PEMERINTAH KOTA TANGERANG SELATAN
DINAS PERPUSTAKAAN DAN KEARSIPAN
 Jl. Ciater Raya No. 101 RT 010 RW 008, Serpong – Kota Tangerang Selatan
 Email: dpad@tangerangselatankota.go.id Website: dpad.tangerangselatankota.go.id

Tangerang Selatan, 8 November 2022

<p>Nomor : 423.4 / 1580 /DPK/2022 Lampiran : - Perihal : Surat Pemberitahuan</p>	<p>Kepada, Yth. Dekan Ilmu Komputer Universitas Esa Unggul Di - Tempat</p>
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Disampaikan dengan hormat, menindaklanjuti surat dari Universitas Esa Unggul Nomor 81-100/SP/KAPRODI-IF/FASILKOM/UEU/EXT/XI/2022 Perihal permohonan izin untuk penelitian.

Sehubungan dengan hal tersebut diatas, pada prinsipnya kami tidak berkeberatan menerima mahasiswa tersebut dibawah ini :

Nama	: Zody Arifiansyah
NIM	: 20190801234
Fakultas	: Ilmu Komputer
Program Studi	: Teknik Informatika

Untuk melaksanakan penelitian di Dinas Perpustakaan dan Kearsipan Kota Tangerang Selatan.

Demikian kami sampaikan, atas kerjasamanya diucapkan terima kasih.

a.n. Kepala
 Kepala Sub Bagian Umum
 Kepegawaian dan Keuangan,



METI SUMIATI, S.E
 Pembina / III.d
 NIP. 19830505 200902 2 001

Gambar 5.2 Surat keterangan menyatakan melakukan penelitian

4. Transkrip Wawancara

Lampirkan ini berisikan hasil wawancara dengan dengan bapak Arif Tianto pada perpustakaan dan kearsipan kota tangerang selatan

Tempat : Dinas Perpustakaan dan Kearsipan Kota Tangerang Selatan

Tanggal Wawancara : 18 Januari 2023

Narasumber : Bapak Arif Tianto

Jabatan : Petugas pelayanan Sirkulasi Perpustakaan

1. Bisa dijelaskan secara singkat saja tentang dinas perpustakaan kota tangerang selatan

Jawaban:

Awal terbentuknya perpustakaan tahun 2011 dan masih kantor perpustakaan dan kantor arsip masih terpisah , seiring berjalannya waktu pada pada saat itu perpustakaan masih sangat minim dan arsip pun sama , kemudian pada tahun 2016 perpustakaan dan kearsipan mulai gabung ,keduanya awalnya masih ruko di daerah pamulang dan pada saat itu perkiraan pengunjung yang datang sampai 30 orang per hari karena di pamulang aksesnya sangat strategis, kemudian pada tahun 2018 akhir kemudian pindah ke daerah serpong tepatnya di jalan Ciater raya, di tahun 2019 penyimpanan arsip sudah berdiri , tetapi proses berkembangnya sempat terhenti dikarenakan adanya covid 2019 , kemudian di tahun 2021 dan covid mulai turun , perpustakaan ini mulai melakukan sosialisasi-sosialisasi ke sekolah sekolah. Selanjutnya pembenahan terus dilakukan sampai saat ini yang awalnya hanya bangku dan rak buku saja dan sekarang sudah ada ruang tunggu, melengkapi rak dan buku, memiliki ruang membaca yang nyaman dan juga ruang musik yang dimana ruang ini digunakan juga untuk melakukan sosialisasi untuk menarik kaum muda dan sekarang kearsipan sudah memiliki gedung baru yang dimana ruangan arsip ini terus melakukan pembenahan-

pembenahan apabila ada berkas dan laporan dari dinas untuk diarsipkan kedalam ruangan arsip, pada awal kepindahannya perpustakaan di jalan Ciater raya untuk pengunjung yang datang hanya 5 tetapi sekarang sudah cukup banyak hingga 50 sampai 200 orang per hari, di dinas perpustakaan kota tangerang selatan cukup banyak kegiatan untuk meningkatkan anak-anak membaca salah satunya yaitu field trip tetapi tergantung sekolah, dari dinas perpustakaan kota tangerang selatan menjadwalkan kegiatan field trip setiap hari rabu, untuk jumlah buku saat ini pada dinas perpustakaan dan kearsipan kota tangerang selatan hingga 6rb eksemplar tetapi terbagi untuk perpustakaan keliling 9 unit, untuk satu unit sekitar 2rb buku

- 2. Pada dinas perpustakaan dan kearsipan kota tangerang selatan apakah sudah ada sistem dalam pendataan peminjaman dan pengadaan buku? ,kalau sudah bagaimana sistem tersebut berjalan apakah ada kendala atau tidak ?**

Jawaban

untuk sistem sudah disediakan dari perpusnas sebatas mulai dari peminjaman, pengolahan, pengembalian, pendaftaran, untuk dashboard belum ada

- 3. Bagaimana penyampaian laporan peminjaman, pengembalian dan pengadaan buku ?**

Jawaban

Laporan dilakukan setiap bulan yang nantinya akan di total mulai dari peminjaman, pengembalian dan pengadaan yang ada di perpustakaan dan juga di perpustakaan keliling pada setiap akhir tahun, untuk penyampaiannya dalam bentuk tabel

4. Bisa di jelaskan secara singkat tentang proses pendaftaran anggota, peminjaman dan pengembalian buku pada Dinas Perpustakaan dan Kearsipan Kota Tangerang Selatan

Jawaban:

Dalam proses pendaftaran anggota , hal yang harus di bawa atau di miliki yaitu KTP, KIA atau kartu pelajar hanya salah satu saja, kemudiann mengisi form yang diberikan oleh petugas yang nantinya akan didata oleh petugas yang sedang bertugas

Kemudian dalam proses peminjaman harus wajib menjadi anggota terlebih dahulu , pengunjung yang ingin meminjam buku harus menyerahkan identitas ke petugas , kemudian petugas menerima buku yang ingin dipinjam dari pengunjung untuk di data buku apa yang akan dipinjam, serta petugas akan memberikan informasi tentang pengembalian kepada pengunjung

dan dalam proses pengembalian , pengunjung membawa buku yang akan dikembalikan dengan menunjukan identitas diri kepada petugas yang bertugas ,

5. Transkrip Code

```

1 <!DOCTYPE html>
2 <html lang="{{ str_replace('_', '-', app()->getLocale()) }}">
3
4 <head>
5   <meta charset="utf-8">
6   <meta name="viewport" content="width=device-width, initial-scale=1">
7
8   <title>Laravel</title>
9
10  <!-- Fonts -->
11  <link href="https://fonts.googleapis.com/css2?family=Nunito:wght@400;600;700&display=swap" rel="stylesheet">
12
13  <!-- Styles -->
14  <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css"
15        integrity="sha384-ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/IJTQUhcwR7x9JvoRxt2MzW1T" crossorigin="anonymous">
16  <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.7.2/css/all.css"
17        integrity="sha384-fnmOCqbTlWIlj8LyTjo7mOUStjsKC4pOpQbqy17Rrhn7udi19RwhKkMhPvLbHG9Sr" crossorigin="anonymous">
18

```

```

1   <style>
2     body {
3       font-family: 'Nunito';
4     }
5   </style>
6
7 </head>
8
9 <body class="antialiased">
10 <nav class="navbar navbar-expand-lg d-flex justify-content-between text-lg" style="list-style: none;">
11   <div class="container-fluid">
12     <a class="navbar-brand" href="#">Perpustakaan</a>
13     @if (Route::has('login'))
14       <div class="fixed top-0 right-0 px-6 py-4 sm:block">
15         <div class="d-flex justify-content-center align-items-center">
16           <a class="text-sm text-black text-md-lg" href="{{ route('login') }}"
17             style="text-decoration: none">Login</a>
18           @if (Route::has('register'))
19             <a class="text-sm text-black ml-2 ml-md-4" href="{{ route('register') }}"
20               style="text-decoration: none">Register</a>
21           @endif
22         </div>
23       </div>
24     @endif
25   </div>
26 </nav>
27
28 <div class="container-fluid d-flex justify-content-center align-items-center sm:justify-content-center"
29   style="height: 100vh;">
30   <div class="column text-center">
31     <h3 class="font-weight-bold" style="font-size: 5em;">Welcome Library</h3>
32     <div class="m-auto" style="width: 40vw;">
33       <p class="text-wrap text-lg d-flex align-items-center">
34         Selamat datang di Dashboard Perpustakaan! Di sini Anda dapat mengelola koleksi buku, peminjaman, dan
35         informasi penting lainnya terkait perpustakaan.
36       </p>
37     </div>
38   </div>
39 </div>
40 </body>
41 </html>

```

Gambar 5.3 Welcome.balde.php

```

1 <?php
2
3 use Illuminate\Support\Facades\Route;
4 use App\Http\Controllers\Admin\DashboardController, RoleController, UserController, SettingController;
5 use App\Http\Controllers\Operator\BookController, LocationController, PublisherController, AuthorController, TransactionController, MemberController, RackController;
6
7
8 Route::get('/', function () {
9     return view('welcome');
10 });
11
12 Route::get('/home', function () {
13     return view('home');
14 });
15
16 Route::prefix('admin')->middleware(['auth'])->group(function () {
17     Route::get('/dashboard', [DashboardController::class, 'index'])->name('dashboard.index');
18     Route::get('/dashboard/chartdata', [DashboardController::class, 'getChartData'])->name('dashboard.chartdata');
19     Route::get('/dashboard/getDataPeminjamanTelat', [DashboardController::class, 'getDataPeminjamanTelat'])->name('dashboard.getDataPeminjamanTelat'); // routes/web.php
20     Route::get('datamart/index', [DashboardController::class, 'datamart'])->name('admin.datamart.index');
21     Route::get('roles/reload-permissions/{id}', [AdminRoleController::class, 'reloadPermissions'])->name('roles.update');
22     Route::get('roles/reload-permissions', [RoleController::class, 'reloadPermissions'])->name('roles.update');
23     Route::resource('roles', RoleController::class);
24     Route::resource('users', UserController::class);
25
26     Route::get('settings/remove/{id}', [SettingController::class, 'remove'])->name('settings.update');
27     Route::get('settings', [SettingController::class, 'index'])->name('settings.update');
28     Route::post('settings', [SettingController::class, 'update'])->name('settings.update');
29 });

```

```

1 // Route untuk role operator
2 Route::prefix('operator')->middleware(['auth'])->group(function () {
3     Route::prefix('book')->group(function () {
4         Route::get('/', [BookController::class, 'index'])->name('operator.book.index');
5         Route::any('ajax', [BookController::class, 'ajax'])->name('operator.book.ajax');
6         Route::get('create', [BookController::class, 'create'])->name('operator.book.create');
7         Route::post('store', [BookController::class, 'store'])->name('operator.book.store');
8         Route::get(
9             'edit/{id}',
10            [BookController::class, 'edit']
11        )->name('operator.book.edit');
12        Route::post('update/{id}', [BookController::class, 'update'])->name('operator.book.update');
13        Route::get('destroy/{id}', [BookController::class, 'destroy'])->name('operator.book.destroy');
14    });
15
16    Route::prefix('publisher')->group(function () {
17        Route::get('/', [PublisherController::class, 'index'])->name('operator.publisher.index');
18        Route::any('ajax', [PublisherController::class, 'ajax'])->name('operator.publisher.ajax');
19        Route::get('create', [PublisherController::class, 'create'])->name('operator.publisher.create');
20        Route::post('store', [PublisherController::class, 'store'])->name('operator.publisher.store');
21        Route::get(
22            'edit/{id}',
23            [PublisherController::class, 'edit']
24        )->name('operator.publisher.edit');
25        Route::post('update/{id}', [PublisherController::class, 'update'])->name('operator.publisher.update');
26        Route::get('destroy/{id}', [PublisherController::class, 'destroy'])->name('operator.publisher.destroy');
27    });
28
29    Route::prefix('location')->group(function () {
30        Route::get('/', [LocationController::class, 'index'])->name('operator.location.index');
31        Route::any('ajax', [LocationController::class, 'ajax'])->name('operator.location.ajax');
32        Route::get('create', [LocationController::class, 'create'])->name('operator.location.create');
33        Route::post('store', [LocationController::class, 'store'])->name('operator.location.store');
34        Route::get('edit/{id}', [LocationController::class, 'edit'])->name('operator.location.edit');
35        Route::post('update/{id}', [LocationController::class, 'update'])->name('operator.location.update');
36        Route::get('destroy/{id}', [LocationController::class, 'destroy'])->name('operator.location.destroy');
37    });

```

```

1 Route::prefix('author')->group(function () {
2     Route::get('/', [AuthorController::class, 'index'])->name('operator.author.index');
3     Route::any('ajax', [AuthorController::class, 'ajax'])->name('operator.author.ajax');
4     Route::get('create', [AuthorController::class, 'create'])->name('operator.author.create');
5     Route::post('store', [AuthorController::class, 'store'])->name('operator.author.store');
6     Route::get(
7         'edit/{id}',
8         [AuthorController::class, 'edit']
9     )->name('operator.author.edit');
10    Route::post('update/{id}', [AuthorController::class, 'update'])->name('operator.author.update');
11    Route::get('destroy/{id}', [AuthorController::class, 'destroy'])->name('operator.author.destroy');
12 });
13
14 Route::prefix('transaction')->group(function () {
15     Route::get('/', [TransactionController::class, 'index'])->name('operator.transaction.index');
16     Route::any('ajax', [TransactionController::class, 'ajax'])->name('operator.transaction.ajax');
17     Route::get('create', [TransactionController::class, 'create'])->name('operator.transaction.create');
18     Route::post('store', [TransactionController::class, 'store'])->name('operator.transaction.store');
19     Route::get(
20         'edit/{id}',
21         [TransactionController::class, 'edit']
22     )->name('operator.transaction.edit');
23     Route::post('update/{id}', [TransactionController::class, 'update'])->name('operator.transaction.update');
24     Route::get('destroy/{id}', [TransactionController::class, 'destroy'])->name('operator.transaction.destroy');
25 });
26
27 Route::prefix('member')->group(function () {
28     Route::get('/', [MemberController::class, 'index'])->name('operator.member.index');
29     Route::any('ajax', [MemberController::class, 'ajax'])->name('operator.member.ajax');
30     Route::get('create', [MemberController::class, 'create'])->name('operator.member.create');
31     Route::post('store', [MemberController::class, 'store'])->name('operator.member.store');
32     Route::get(
33         'edit/{id}',
34         [MemberController::class, 'edit']
35     )->name('operator.member.edit');
36     Route::post('update/{id}', [MemberController::class, 'update'])->name('operator.member.update');
37     Route::get('destroy/{id}', [MemberController::class, 'destroy'])->name('operator.member.destroy');
38 });
39
40 Route::prefix('rack')->group(function () {
41     Route::get('/', [RackController::class, 'index'])->name('operator.rack.index');
42     Route::any('ajax', [RackController::class, 'ajax'])->name('operator.rack.ajax');
43     Route::get('create', [RackController::class, 'create'])->name('operator.rack.create');
44     Route::post('store', [RackController::class, 'store'])->name('operator.rack.store');
45     Route::get(
46         'edit/{id}',
47         [RackController::class, 'edit']
48     )->name('operator.rack.edit');
49     Route::post('update/{id}', [RackController::class, 'update'])->name('operator.rack.update');
50     Route::get('destroy/{id}', [RackController::class, 'destroy'])->name('operator.rack.destroy');
51 });
52 });

```

Gambar 5.4 Routes Web.php


```

1 <!DOCTYPE html>
2 <html lang="en">
3
4 <head>
5   <meta charset="UTF-8">
6   <meta content="width=device-width, initial-scale=1, maximum-scale=1, shrink-to-fit=no" name="viewport">
7   <meta name="description" content="{{ config('app.name', 'Laravel') }}">
8   <meta name="csrf-token" content="{{ csrf_token() }}">
9   <title>{{ config('app.name', 'Laravel') }}</title>
10
11   <!-- General CSS Files -->
12   <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css"
13     integrity="sha384-ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T" crossorigin="anonymous">
14   <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.7.2/css/all.css"
15     integrity="sha384-fnmOCqbTlWIlj8LyTjo7m0UStjsKC4pOpQbqyi7RrhN7udi9RwhKkMHpvLbHG9Sr" crossorigin="anonymous">
16
17   <!-- CSS Libraries -->
18   <link rel="stylesheet" href="{{ asset('admin/stisla/plugins/jqvmap/dist/jqvmap.min.css') }}">
19   <link rel="stylesheet" href="{{ asset('admin/stisla/plugins/summernote/dist/summernote-bs4.css') }}">
20   <link rel="stylesheet" href="{{ asset('admin/stisla/plugins/owl.carousel/dist/assets/owl.carousel.min.css') }}">
21   <link rel="stylesheet"
22     href="{{ asset('admin/stisla/plugins/owl.carousel/dist/assets/owl.theme.default.min.css') }}">
23   <link rel="stylesheet" href="{{ asset('admin/stisla/plugins/bootstrap-daterangepicker/daterangepicker.css') }}">
24   <link rel="stylesheet"
25     href="{{ asset('admin/stisla/plugins/bootstrap-timepicker/css/bootstrap-timepicker.min.css') }}">
26   <link rel="stylesheet" href="{{ asset('admin/stisla/plugins/select2/dist/css/select2.min.css') }}">
27   <!-- Template CSS -->
28   <link rel="stylesheet" href="{{ asset('admin/stisla/assets/css/style.css') }}">
29   <link rel="stylesheet" href="{{ asset('admin/stisla/assets/css/components.css') }}">
30   <link rel="stylesheet" href="{{ asset('admin/stisla/assets/css/custom.css') }}">
31
32   <link href="{{ URL::asset('/assets/libs/sweetalert2/dist/sweetalert2.min.css') }}" rel="stylesheet" type="text/css" />
33
34   <!-- Link Taleaau -->
35   <link rel="stylesheet"
36     href="https://public.tableau.com/views/Tugas_/Dashboard1?:language=en-US&display_count=n&origin=viz_share_link">
37
38   <style>
39     .btn-filter {
40       padding: .50rem .75rem;
41     }
42   </style>
43 </head>

```

```

1 <body>
2   <div id="app">
3     <div class="main-wrapper">
4       @include('admin.shared.navbar')
5       <div class="main-sidebar">
6         @include('admin.shared.sidebar')
7       </div>
8
9       <!-- Main Content -->
10      <div class="main-content">
11        @yield('content')
12      </div>
13      {{-- @include('admin.shared.footer') --}}
14    </div>
15  </div>
16
17  <!-- General JS Scripts -->
18  <script src="https://code.jquery.com/jquery-3.3.1.min.js"
19    integrity="sha256-FgpCb/KJQlLNfOu91ta32o/NMZxltwRo8QtmkMRdAu8=" crossorigin="anonymous"></script>
20  <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js"
21    integrity="sha384-U02eT0CpHqD5JQ6hJty5KVphtPhzWj9WO1clHTMGa3JDZwrnQq4sF86dIHNDz0W1" crossorigin="anonymous">
22  </script>
23  <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js"
24    integrity="sha384-JjSmVgyd0p3pXB1rRibZUAYoIIy60rQ6VrjIEaFf/nJGzIxFDsf4x0xIM+B07jRM" crossorigin="anonymous">
25  </script>
26  <script src="https://cdnjs.cloudflare.com/ajax/libs/jquery.nicescroll/3.7.6/jquery.nicescroll.min.js"></script>
27  <script src="https://cdnjs.cloudflare.com/ajax/libs/moment.js/2.24.0/moment.min.js"></script>
28  <script src="{{ asset('admin/stisla/assets/js/stisla.js') }}"></script>
29
30  <!-- JS Libraries -->
31  <script src="{{ asset('admin/stisla/plugins/jquery-sparkline/jquery.sparkline.min.js') }}"></script>
32  <script src="{{ asset('admin/stisla/plugins/chart.js/dist/Chart.min.js') }}"></script>
33  <script src="{{ asset('admin/stisla/plugins/owl.carousel/dist/owl.carousel.min.js') }}"></script>
34  <script src="{{ asset('admin/stisla/plugins/summernote/dist/summernote-bs4.js') }}"></script>
35  <script src="{{ asset('admin/stisla/plugins/chocolat/dist/js/jquery.chocolat.min.js') }}"></script>
36  <script src="{{ asset('admin/stisla/plugins/bootstrap-daterangepicker/daterangepicker.js') }}"></script>
37  <script src="{{ asset('admin/stisla/plugins/bootstrap-timepicker/js/bootstrap-timepicker.min.js') }}"></script>
38  <script src="{{ asset('admin/stisla/plugins/select2/dist/js/select2.min.js') }}"></script>
39
40  <!-- Template JS File -->
41  <script src="{{ asset('admin/stisla/assets/js/scripts.js') }}"></script>
42  <script src="{{ asset('admin/stisla/assets/js/custom.js') }}"></script>
43  <script>
44    $(document).ready(function() {
45      $('#select2').select2();
46      $(".select2-tags").select2({
47        tags: true
48      });
49      $('#authorSelect').select2();
50    });
51  </script>
52
53  <!-- Page Specific JS File -->
54  @if ($currentAdminMenu && $currentAdminMenu == 'dashboard')
55    {{-- <script src="{{ asset('admin/stisla/assets/js/page/index.js') }}"></script --}}
56  @endif
57
58 </body>
59
60 </html>

```

Gambar 5.5 Layouts Dashboard

```

1  @extends('layouts.dashboard')
2
3  @section('content')
4      <section class="section">
5
6          <div class="row">
7              {{-- Total Member --}}
8              <div class="col-lg-3 col-md-4 col-sm-6">
9                  <div class="card card-statistic-2">
10                     <div class="card-icon shadow-primary bg-primary">
11                         <i class="fas fa-dollar-sign"></i>
12                     </div>
13                     <div class="card-wrap">
14                         <div class="card-header">
15                             <h4>Total Member</h4>
16                         </div>
17                         <div class="card-body" id="totalMember">
18                             <!-- Data will be populated by AJAX -->
19                         </div>
20                     </div>
21                 </div>
22             </div>
23
24             <!-- Total Peminjaman Card -->
25             <div class="col-lg-3 col-md-4 col-sm-6">
26                 <div class="card card-statistic-2">
27                     <div class="card-icon shadow-primary bg-primary">
28                         <i class="fas fa-archive"></i>
29                     </div>
30                     <div class="card-wrap">
31                         <div class="card-header">
32                             <h4>Total Loans</h4>
33                         </div>
34                         <div class="card-body" id="totalLoans">
35                             <!-- Data will be populated by AJAX -->
36                         </div>
37                     </div>
38                 </div>
39             </div>
40
41             <!-- Total Pengguna Card -->
42             <div class="col-lg-3 col-md-4 col-sm-6">
43                 <div class="card card-statistic-2">
44                     <div class="card-icon shadow-primary bg-primary">
45                         <i class="fas fa-shopping-bag"></i>
46                     </div>
47                     <div class="card-wrap">
48                         <div class="card-header">
49                             <h4>Total Return</h4>
50                         </div>
51                         <div class="card-body" id="totalReturn">
52                             <!-- Data will be populated by AJAX -->
53                         </div>
54                     </div>
55                 </div>
56             </div>

```

```

1
2 <!-- Total Buku Card -->
3 <div class="col-lg-3 col-md-4 col-sm-6">
4 <div class="card card-statistic-2">
5 <div class="card-icon shadow-primary bg-primary">
6 <i class="fas fa-shopping-bag"></i>
7 </div>
8 <div class="card-wrap">
9 <div class="card-header">
10 <h4>Total Book</h4>
11 </div>
12 <div class="card-body" id="totalBook">
13 <!-- Data will be populated by AJAX -->
14 </div>
15 </div>
16 </div>
17 </div>
18 </div>
19
20 <div class="row">
21 <div class="col-lg-12">
22 <div class="card">
23 <div class="card-header">
24 <h4>Chart</h4>
25 <!-- Dropdown for selecting the year -->
26 <div class="dropdown d-inline">
27 <a class="font-weight-600 dropdown-toggle" data-toggle="dropdown" href="#"
28 id="orders-year">{{ $selectedYear }}</a>
29 <ul class="dropdown-menu dropdown-menu-sm">
30 <li class="dropdown-title">Select Year</li>
31 @php
32 $currentYear = date('Y');
33 $years = range($currentYear, $currentYear - 10); // Change the range to meet your requirements
34 @endphp
35 @foreach ($years as $year)
36 <li><a href="{{ route('dashboard.index', ['selected_year' => $year]) }}"
37 class="dropdown-item">{{ $year }}</a></li>
38 @endforeach
39 </ul>
40 </div>
41 </div>
42 <div class="card-body">
43 <canvas id="myChart" height="308" style="display: block; width: 797px; height: 300px;"
44 width="1594" class="chartjs-render-monitor"></canvas>
45 </div>
46 </div>
47 </div>
48 </div>
49
50 <div class="row">
51 <div class="col-lg-12">
52 <div class="card">
53 <div class="card-header">
54 <h4>Invoices</h4>
55 </div>
56 <div class="card-body p-4">
57 <div class="table-responsive table-invoice">
58 <table class="table table-striped" id="peminjamTelat">
59 <thead>
60 <tr>
61 <th>
62 <th>Nama Peminjam</th>
63 <th>Tanggal Pengembalian</th>
64 <th>Keterangan</th>
65 </tr>
66 </thead>
67 </table>
68 </div>
69 </div>
70 </div>
71 </div>
72 </div>

```



```

1 <!-- Script untuk mendapatkan data dari AJAX dan menampilkan chart -->
2 <script src="https://code.jquery.com/jquery-3.3.1.min.js"></script>
3 <script src="https://cdn.datatables.net/1.10.0/js/jquery.dataTables.min.js"></script>
4 <script src="https://cdn.jsdelivr.net/npm/chart.js/2.9.4/Chart.min.js"></script>
5
6
7 <script>
8   jQuery.noConflict();
9   jQuery(document).ready(function($) {
10    // AJAX untuk menampilkan data chart dan mengisi total member, total loans, dll.
11    $.ajax({
12      url: "{{ route('dashboard.chartdata') }}",
13      method: 'GET',
14      dataType: 'json',
15      data: {
16        selected_year: "{{ $selectedYear }}"
17      },
18      success: function(response) {
19        // Populate data for each card
20        $('#totalMember').text(response.memberCounts.reduce((a, b) => a + b, 0));
21        $('#totalLoans').text(response.transactionCounts.reduce((a, b) => a + b, 0));
22        $('#totalReturn').text(response.transactionCountReturn);
23        $('#totalBook').text(response.booksCount);
24
25        // Your existing success handling code for the chart
26        const labels = response.labels;
27        const transactionCounts = response.transactionCounts;
28        const memberCounts = response.memberCounts;
29
30        const ctx = document.getElementById('myChart').getContext('2d');
31        const myChart = new Chart(ctx, {
32          type: 'line',
33          data: {
34            labels: labels,
35            datasets: [{
36              label: 'Peminjaman',
37              data: transactionCounts,
38              backgroundColor: 'rgba(75, 192, 192, 0.2)',
39              borderColor: 'rgba(75, 192, 192, 1)',
40              borderWidth: 1
41            }, {
42              label: 'Jumlah Pengguna',
43              data: memberCounts,
44              backgroundColor: 'rgba(192, 75, 192, 0.2)',
45              borderColor: 'rgba(192, 75, 192, 1)',
46              borderWidth: 1
47            }
48          ]
49        },
50        options: {
51          responsive: true,
52          scales: {
53            y: {
54              beginAtZero: true
55            }
56          }
57        }
58      });

```

```

1 // Tabel telat pengembalian
2 $('#peminjamTelat').DataTable({
3     processing: true,
4     serverSide: true,
5     ajax: {
6         url: '{{ route('dashboard.getDataPeminjamTelat') }}',
7         type: 'GET',
8         dataType: 'json',
9         data: {
10             selected_year: "{{ $selectedYear }}"
11         },
12     },
13     columns: [{
14         data: 'nama_peminjam',
15         name: 'nama_peminjam'
16     },
17     {
18         data: 'tanggal_pengembalian',
19         name: 'tanggal_pengembalian'
20     },
21     {
22         data: 'keterangan',
23         name: 'keterangan',
24         orderable: false,
25         searchable: false,
26         render: function(data, type, row) {
27             // Add red color to the 'Telat' status
28             if (data === 'Telat') {
29                 return '<span style="color: red;">' + data +
30                     '</span>';
31             } else {
32                 return data;
33             }
34         }
35     }
36 ],
37     language: {
38         // Customize the index display
39         paginate: {
40             first: "&lquo;",
41             previous: "&lquo;",
42             next: "&rsaquo;",
43             last: "&raquo;",
44             info: "Menampilkan _START_ hingga _END_ dari _TOTAL_ data",
45             infoEmpty: "Menampilkan 0 hingga 0 dari 0 data",
46             infoFiltered: "(disaring dari _MAX_ total data)",
47             lengthMenu: "Tampilkan _MENU_ data",
48             search: "Cari:",
49         }
50     },
51     // Custom pagination rendering
52     drawCallback: function(settings) {
53         const pagination = $(this).closest('.dataTables_wrapper').find(
54             '.dataTables_paginate');
55         pagination.find('.pagination').addClass(
56             'pagination-sm'); // Optional, add small pagination class
57         pagination.find('.paginate_button').addClass('page-item')
58             .removeClass('paginate_button');
59         pagination.find('.pagination a').addClass('page-link');
60         pagination.find('.pagination .active a').addClass('active');
61         pagination.find('.pagination .disabled a').addClass('disabled');
62     }
63 });
64 },
65     error: function(error) {
66         console.error('Error:', error);
67     }
68 });
69 });
70 </script>
71 @endsection

```

Gambar 5.6 Index.blade.php Untuk Dashboard

```

1 @php
2     $activeClass = 'active';
3 @endphp
4 <aside id="sidebar-wrapper">
5     <div class="sidebar-brand">
6         <a href="{{ url('/') }}">{{ config('app.name', 'PERPUSTAKAAN') }}</a>
7     </div>
8     <div class="sidebar-brand sidebar-brand-sm">
9         <a href="{{ url('/') }}">PS</a>
10    </div>
11    <ul class="sidebar-menu">
12        @if (auth()->user()->hasRole(App\Models\Role::ADMIN))
13            <li class="{{ $currentAdminMenu == 'dashboard' ? $activeClass : '' }}"><a class="nav-link"
14                href="{{ url('admin/dashboard') }}"><i class="fas fa-fire"></i> <span>Dashboard</span></a></li>
15            @foreach ($moduleAdminMenus as $moduleAdminMenu)
16                @foreach ($moduleAdminMenu['admin_menus'] as $moduleMenu)
17                    @can($moduleMenu['permission'])
18                        <li class="{{ $currentAdminMenu == strtolower($moduleMenu['name']) ? $activeClass : '' }}"><a
19                            class="nav-link" href="{{ url($moduleMenu['route']) }}"><i
20                                class="{{ $moduleMenu['icon'] }}"></i> <span>{{ $moduleMenu['name'] }}</span></a></li>
21                    @endcan
22                @endforeach
23            @endforeach
24        @can('view_users')
25            <li class="{{ $currentAdminMenu == 'users' ? $activeClass : '' }}"><a class="nav-link"
26                href="{{ url('admin/users') }}"><i class="fas fa-user"></i> <span>Users</span></a></li>
27        @endcan
28        <li class="{{ $currentAdminMenu == 'datamart' ? $activeClass : '' }}"><a class="nav-link"
29            href="{{ url('admin/datamart/index') }}"><i class="fas fa-cogs"></i> <span>Visualisasi
30                Data</span></a>
31        </li>
32    </ul>
33 @endif

```

```

1 @if (auth()->user()->hasRole('Operator'))
2     <li class="{{ $currentAdminMenu == 'rack' ? $activeClass : '' }}">
3         <a class="nav-link" href="{{ route('operator.rack.index') }}">
4             <i class="fas fa-book"></i> <span>Rack</span>
5         </a>
6     </li>
7
8
9     <li class="{{ $currentAdminMenu == 'publisher' ? $activeClass : '' }}">
10        <a class="nav-link" href="{{ route('operator.publisher.index') }}">
11            <i class="fas fa-book"></i> <span>Publisher</span>
12        </a>
13    </li>
14
15    <li class="{{ $currentAdminMenu == 'author' ? $activeClass : '' }}">
16        <a class="nav-link" href="{{ route('operator.author.index') }}">
17            <i class="fas fa-book"></i> <span>Author</span>
18        </a>
19    </li>
20
21    <li class="{{ $currentAdminMenu == 'book' ? $activeClass : '' }}">
22        <a class="nav-link" href="{{ route('operator.book.index') }}">
23            <i class="fas fa-book"></i> <span>Book</span>
24        </a>
25    </li>
26
27    <li class="{{ $currentAdminMenu == 'location' ? $activeClass : '' }}">
28        <a class="nav-link" href="{{ route('operator.location.index') }}">
29            <i class="fas fa-book"></i> <span>Location</span>
30        </a>
31    </li>
32
33    <li class="{{ $currentAdminMenu == 'member' ? $activeClass : '' }}">
34        <a class="nav-link" href="{{ route('operator.member.index') }}">
35            <i class="fas fa-book"></i> <span>Member</span>
36        </a>
37    </li>
38
39    <li class="{{ $currentAdminMenu == 'transaction' ? $activeClass : '' }}">
40        <a class="nav-link" href="{{ route('operator.transaction.index') }}">
41            <i class="fas fa-book"></i> <span>Transaction</span>
42        </a>
43    </li>
44 @endif
45 </ul>
46 </aside>

```

Gambar 5.7 Index.blade.php Untuk Sidebar

```

1  @extends('layouts.dashboard')
2
3  @section('content')
4      <div class="row">
5
6          <div class="col-lg-12">
7              <div class="card">
8                  <div class="tableauPlaceholder" id="viz1689911643353" style="position: relative"><noscript><a
9                      href="#"></a></noscript><object class="tableauViz" style="display:none">
12
13                     <param name="host_url" value="https://public.tableau.com/" />
14                     <param name="embed_code_version" value="3" />
15                     <param name="site_root" value="" />
16                     <param name="name" value="Tugas_8/Dashboard1" />
17                     <param name="tabs" value="no" />
18                     <param name="toolbar" value="yes" />
19                     <param name="static_image"
20                         value="https://public.tableau.com/static/images/Tu/Tugas_8/Dashboard1&1.png" />
21                     <param name="animate_transition" value="yes" />
22                     <param name="display_static_image" value="yes" />
23                     <param name="display_spinner" value="yes" />
24                     <param name="display_overlay" value="yes" />
25                     <param name="display_count" value="yes" />
26                     <param name="language" value="en-US" />
27                     <param name="filter" value="publish=yes" />
28                 </object></div>
29                 <script type="text/javascript">
30                     var divElement = document.getElementById('viz1689911643353');
31                     var vizElement = divElement.getElementsByTagName('object')[0];
32                     vizElement.style.width = '100%';
33                     vizElement.style.height = (divElement.offsetWidth * 0.50) + 'px';
34                     var scriptElement = document.createElement('script');
35                     scriptElement.src = 'https://public.tableau.com/javascripts/api/viz_v1.js';
36                     vizElement.parentNode.insertBefore(scriptElement, vizElement);
37                 </script>
38             </div>
39         </div>
40     </div>
41 @endsection
42
43
44 <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
45 <script src="https://cdn.datatables.net/1.10.25/js/jquery.dataTables.min.js"></script>
46
47
48 <script src="{{ URL::asset('assets/js/axios.min.js') }}"></script>
49 <script src="{{ URL::asset('assets/js/jquery.validate.js') }}"></script>
50 <script src="{{ URL::asset('assets/js/jquery.serializejson.js') }}"></script>
51 <script src="{{ URL::asset('assets/libs/swal2/dist/sweetalert2.min.js') }}"></script>
52
53 <script src="{{ URL::asset('js/m_swal.js') }}"></script>
54 <script src="{{ URL::asset('js/book.js') }}"></script>

```

Gambar 5.8 Index.blade.php Untuk Datamart


```

1  @extends('layouts.dashboard')
2
3  @section('content')
4      <div class="row">
5
6          <div class="col-lg-12">
7              <div class="card">
8
9                  <div class="card-header">
10                     <h4>Books</h4>
11                     <div class="card-header-action">
12                         <button type="button" class="btn btn-outline-success btn-sm float-right" onclick="create()"
13                             style="margin-right:5px">
14                             <i class="fas fa-plus"></i> Create Book
15                         </button>
16                     </div>
17                 </div>
18
19             </div>
20
21             <div class="card-body">
22                 <table class="table table-bordered book_table">
23                     <thead>
24                         <tr>
25                             <th>Book Name</th>
26                             <th>Author Name</th>
27                             <th>Publisher Name</th>
28                             <th>Location</th>
29                             <th>Rack</th>
30                             <th>Actions</th>
31                         </tr>
32                     </thead>
33                     <tbody>
34                     </tbody>
35                 </table>
36             </div>
37         </div>
38     </div>
39 @endsection
40
41 <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
42 <script src="https://cdn.datatables.net/1.10.25/js/jquery.dataTables.min.js"></script>
43
44 <script src="{{ URL::asset('assets/js/axios.min.js') }}"></script>
45 <script src="{{ URL::asset('assets/js/jquery.validate.js') }}"></script>
46 <script src="{{ URL::asset('assets/js/jquery.serializejson.js') }}"></script>
47 <script src="{{ URL::asset('assets/libs/sweetalert2/dist/sweetalert2.min.js') }}"></script>
48
49 <script src="{{ URL::asset('js/m_swal.js') }}"></script>
50 <script src="{{ URL::asset('js/book.js') }}"></script>

```

Gambar 5.9 Index tampilan Untuk Books

```

1 <style>
2   .error {
3     color: red;
4     font-size: 1rem;
5     /* font-family: Arial, sans-serif; */
6   }
7 </style>
8
9
10 <form action="post" id="form">
11   <div class="card-body">
12     <div class="row">
13
14       <!-- col Here -->
15       <div class="col-md-6 col-sm-12 col-12">
16         <div class="form-group">
17           <label for="name">Book Name</label>
18           <input type="text" class="form-control" id="name" name="name" onkeyup="validate();"
19             placeholder="Enter Book Name Here..">
20         </div>
21       </div>
22
23       <!-- col Here -->
24       <div class="col-md-6 col-sm-12 col-12">
25         <div class="form-group">
26           <label for="category">Category</label>
27           <input type="text" class="form-control" id="category" name="category" onkeyup="validate();"
28             placeholder="Enter Category Here..">
29         </div>
30       </div>
31
32       <!-- col Here -->
33       <div class="col-md-6 col-sm-12 col-12">
34         <div class="form-group">
35           <label for="type">Type</label>
36           <input type="text" class="form-control" id="type" name="type" onkeyup="validate();"
37             placeholder="Enter Type Here..">
38         </div>
39       </div>
40
41       <!-- col Here -->
42       <div class="col-md-6 col-sm-12 col-12">
43         <div class="form-group">
44           <label for="year">Year</label>
45           <input type="number" class="form-control" id="year" name="year" onkeyup="validate();"
46             placeholder="YYYY">
47         </div>
48       </div>
49
50       <!-- col Here -->
51       <div class="col-md-6 col-sm-12 col-12">
52         <div class="form-group">
53           <label for="author_id">
54             Author
55           </label>
56           <select class="form-control" name="author_id" id="author_id">
57             <option value="">- Select Author --</option>
58             @foreach ($authors as $author)
59               <option value="{{ $author->id }}">{{ $author->name }}</option>
60             @endforeach
61           </select>
62         </div>
63       </div>

```

```

1 <!-- col Here -->
2 <div class="col-md-6 col-sm-12 col-12">
3 <div class="form-group">
4 <label for="publisher_id">Publisher</label>
5 <select class="form-control" name="publisher_id" id="publisher_id" onkeyup="validate();"
6 <option value="">-- Pilih Publisher --</option>
7 @foreach ($publishers as $key => $val)
8 <option value="{{ $val->id }}">
9 {{ $val->name }}
10 </option>
11 @endforeach
12 </select>
13 </div>
14 </div>
15
16 <!-- col Here -->
17 <div class="col-md-6 col-sm-12 col-12">
18 <div class="form-group">
19 <label for="location_id">Location</label>
20 <select class="form-control" name="location_id" id="location_id" onkeyup="validate();"
21 <option value="">-- Pilih Location --</option>
22 @foreach ($locations as $key => $val)
23 <option value="{{ $val->id }}">
24 {{ $val->name }}
25 </option>
26 @endforeach
27 </select>
28 </div>
29 </div>
30
31 <!-- col Here -->
32 <div class="col-md-6 col-sm-12 col-12">
33 <div class="form-group">
34 <label for="rack_id">Rack</label>
35 <select class="form-control" name="rack_id" id="rack_id">
36 <option value="">-- Pilih Rack --</option>
37 @foreach ($racks as $val)
38 <option value="{{ $val->id }}">{{ $val->block_code }}</option>
39 @endforeach
40 </select>
41 </div>
42 </div>
43
44 <!-- buttons -->
45 <div class="col-6"></div>
46
47 <div class="col-6">
48 <div class="row">
49 <div class="col-sm-6 col-6">
50 <button type="button" class="btn btn-success btn-block float-right" onclick="store();">
51 Submit
52 </button>
53 </div>
54 <div class="col-sm-6 col-6">
55 <button type="button" class="btn btn-secondary btn-block float-right close_swal"
56 onclick="swal_close();">
57 Cancel
58 </button>
59 </div>
60 </div>
61 </div>
62
63 </div>
64 </div>
65 </form>

```

Gambar 5.10 Create Tabel Books

```

1 <style>
2   .error {
3     color: red;
4     font-size: 1rem;
5     /* font-family: Arial, sans-serif; */
6   }
7 </style>
8
9 <form action="#" id="form">
10  <div class="card-body">
11    <div class="row">
12
13      <!-- col Here -->
14      <div class="col-md-6 col-sm-12 col-12">
15        <div class="form-group">
16          <label for="name">
17            Book Name
18          </label>
19          <input type="text" class="form-control" id="name" name="name" onkeyup="validate();"
20            value="{{ isset($data['name']) ? $data['name'] : '' }}" placeholder="Enter Book Name Here..">
21        </div>
22      </div>
23
24      <!-- col Here -->
25      <div class="col-md-6 col-sm-12 col-12">
26        <div class="form-group">
27          <label for="icon">
28            Category
29          </label>
30          <input type="text" class="form-control" id="category" name="category" onkeyup="validate();"
31            value="{{ isset($data['category']) ? $data['category'] : '' }}" placeholder="Enter Type Here..">
32        </div>
33      </div>
34
35      <!-- col Here -->
36      <div class="col-md-6 col-sm-12 col-12">
37        <div class="form-group">
38          <label for="icon">
39            Type
40          </label>
41          <input type="text" class="form-control" id="type" name="type" onkeyup="validate();"
42            value="{{ isset($data['type']) ? $data['type'] : '' }}" placeholder="Enter Type Here..">
43        </div>
44      </div>
45
46      <!-- col Here -->
47      <div class="col-md-6 col-sm-12 col-12">
48        <div class="form-group">
49          <label for="year">
50            Year
51          </label>
52          <input type="text" class="form-control" id="year" name="year" onkeyup="validate();"
53            value="{{ isset($data['year']) ? $data['year'] : '' }}" placeholder="YYYY">
54        </div>
55      </div>
56
57      <!-- col Here -->
58      <div class="col-md-6 col-sm-12 col-12">
59        <div class="form-group">
60          <label for="author_id">Author</label>
61          <select class="form-control" name="author_id" id="author_id">
62            @foreach ($author as $val)
63              <option value="{{ $val->id }}" {{ $val->id == $data->author_id ? 'selected' : '' }}>
64                {{ $val->name }}
65              </option>
66            @endforeach
67          </select>
68        </div>
69      </div>
70    </div>
71  </div>
72 </form>

```



```

1 <!-- col Here -->
2 <div class="col-md-6 col-sm-12 col-12">
3 <div class="form-group">
4 <label for="publisher_id">Publisher</label>
5 <select class="form-control" name="publisher_id" id="publisher_id">
6 @foreach ($publisher as $key => $val)
7 <option value="{{ $val->id }}" {{ $val->id == $data->publisher_id ? 'selected' : '' }}>
8 <font style="vertical-align: inherit;">
9 <font style="vertical-align: inherit;">{{ $val->name }}</font>
10 </font>
11 </option>
12 @endforeach
13 </select>
14 </div>
15 </div>
16
17
18 <!-- col Here -->
19 <div class="col-md-6 col-sm-12 col-12">
20 <div class="form-group">
21 <label for="location_id">Location</label>
22 <select class="form-control" name="location_id" id="location_id">
23 @foreach ($location as $key => $val)
24 <option value="{{ $val->id }}"
25 {{ $val->id == $data->location_id ? 'selected' : '' }}>
26 <font style="vertical-align: inherit;">
27 <font style="vertical-align: inherit;">{{ $val->name }}</font>
28 </font>
29 </option>
30 @endforeach
31 </select>
32 </div>
33 </div>
34
35 <!-- col Here -->
36 <div class="col-md-6 col-sm-12 col-12">
37 <div class="form-group">
38 <label for="rack_id">Rack</label>
39 <select class="form-control" name="rack_id" id="rack_id">
40 @foreach ($rack as $key => $val)
41 <option value="{{ $val->id }}" {{ $val->id == $data->rack_id ? 'selected' : '' }}>
42 <font style="vertical-align: inherit;">
43 <font style="vertical-align: inherit;">{{ $val->block_code }}</font>
44 </font>
45 </option>
46 @endforeach
47 </select>
48 </div>
49 </div>
50 <!-- buttons -->
51 <div class="col-6"></div>
52
53 <div class="col-6">
54 <div class="row">
55 <div class="col-sm-6 col-6">
56 <button type="button" class="btn btn-success btn-block float-right"
57 onclick="update('{{ $data['id'] }}');">
58 Submit
59 </button>
60 </div>
61 <div class="col-sm-6 col-6">
62 <button type="button" class="btn btn-secondary btn-block float-right close_swal"
63 onclick="swal_close();">
64 Cancel
65 </button>
66 </div>
67 </div>
68 </div>
69
70 </div>
71 </div>
72 </form>

```

Gambar 5.11 Edit Tabel Books

JavaScript

```

1  jQuery.noConflict();
2
3  (function ($) {
4
5      $.ajaxSetup({
6          headers: {
7              'X-CSRF-TOKEN': $('meta[name="csrf-token"]').attr('content')
8          }
9      });
10
11     ready = () => {
12         ajax();
13     };
14
15     ajax = async () => {
16         $('#book_table').DataTable({
17             processing: true,
18             serverSide: true,
19             ajax: {
20                 'url': 'book/ajax',
21                 'type': 'POST',
22                 'headers': {
23                     'X-CSRF-TOKEN': $('meta[name="csrf-token"]').attr('content')
24                 }
25             },
26             columns: [
27                 {
28                     data: 'books.name', name: 'books.name'
29                 },
30                 {
31                     data: 'books.author_id', name: 'books.author_id'
32                 },
33                 {
34                     data: 'books.publisher_id', name: 'books.publisher_id'
35                 },
36                 {
37                     data: 'books.location_id', name: 'books.location_id'
38                 },
39                 {
40                     data: 'books.rack_id', name: 'books.rack_id'
41                 },
42                 {
43                     data: 'action', name: 'action',
44                     orderable: true, searchable: true
45                 },
46             ]
47         })
48     }
49
50     // ->rawColumns(['books.name', 'books.author_id', 'books.publisher_name', 'books.location_name', 'books.block_code', 'action'])
51
52     create = async () => {
53         try {
54             await axios.get('book/create').then((res) => {
55                 swal_html(res['data']);
56             }).catch((error) => {
57                 swal_error(error);
58             }).then(() => {
59                 });
60         } catch (error) {
61             swal_error(error);
62         }
63     }
64 }

```

```

1 store = async () => {
2   try {
3     if (validate() == true) {
4       let form_data = $('#form').serializeJSON();
5       await axios.post('book/store', form_data).then((res) => {
6         if (res["data"]["status"] == 200) {
7           swal_done(res["data"]["message"])
8           setTimeout(function () {
9             location.reload();
10          }, 3000);
11          } else {
12            swal_error(res["data"]["message"])
13          }
14        }).catch((error) => {
15          swal_error(error);
16        });
17      }
18    } catch (error) {
19      swal_error(error);
20    }
21  }
22
23
24 edit = async (id) => {
25   try {
26     await axios.get(`book/edit/${id}`).then((res) => {
27       swal_html(res["data"]);
28     }).catch((error) => {
29       swal_error(error);
30     });
31     }).then(() => {
32     });
33   } catch (error) {
34     swal_error(error);
35   }
36
37 update = async (id) => {
38   try {
39     if (validate() == true) {
40       let form_data = $('#form').serializeJSON();
41       await axios.post(`book/update/${id}`, form_data).then((res) => {
42         if (res["data"]["status"] == 200) {
43           swal_done(res["data"]["message"])
44           setTimeout(function () {
45             location.reload();
46          }, 3000);
47          } else {
48            swal_error(res["data"]["message"])
49          }
50        }).catch((error) => {
51          swal_error(error);
52        });
53      }
54    } catch (error) {
55      swal_error(error);
56    }
57  }
58
59
60 destroy = async (id) => {
61   try {
62     await axios.get(`book/destroy/${id}`).then((res) => {
63       if (res["data"]["status"] == 200) {
64         swal_done(res["data"]["message"])
65         setTimeout(function () {
66           location.reload();
67          }, 3000);
68          } else {
69            swal_error(res["data"]["message"])
70          }
71        }).catch((error) => {
72          swal_error(error);
73        });
74      }
75    } catch (error) {
76      swal_error(error);
77    }
78  }

```

```
1  validate = () => {
2      let form = $('#form').validate({
3          rules: {
4              name: {
5                  required: true,
6              },
7              type: {
8                  required: true,
9              },
10             },
11             category: {
12                 required: true,
13             },
14             year: {
15                 required: true
16             },
17             author_id: {
18                 required: true,
19             },
20             publisher_id: {
21                 required: true,
22             },
23             location_id: {
24                 required: true,
25             },
26             rack_id: {
27                 required: true,
28             },
29             },
30             messages: {
31                 name: {
32                     required: "Please enter name"
33                 },
34                 type: {
35                     required: "Please enter type"
36                 },
37                 category: {
38                     required: "Please enter type"
39                 },
40                 year: {
41                     required: "Please enter year"
42                 },
43                 author_id: {
44                     required: "Please enter author name"
45                 },
46                 publisher_id: {
47                     required: "Please enter author name"
48                 },
49                 location_id: {
50                     required: "Please enter author name"
51                 },
52                 rack_id: {
53                     required: "Please enter author name"
54                 },
55             },
56         });
57     };
58     if (form.valid()) {
59         $(this).prop("disabled", false);
60         return true;
61     }
62     $(this).prop("disabled", true);
63     return false;
64 }
65
66 $(document).ready(ready);
67 })(jQuery);
```

Gambar 5.12 Javascript Untuk Books

Model

```

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\SoftDeletes;
8  use App\Models\Concerns\UuidTrait;
9
10 use App\Models\Transaction;
11
12
13 class Book extends Model
14 {
15     use HasFactory, SoftDeletes, UuidTrait;
16
17     protected $table = 'books';
18
19     protected $primaryKey = 'id';
20     protected $dates = ['deleted_at'];
21
22     protected $fillable = [
23         'name',
24         'category',
25         'type',
26         'year',
27         'author_id',
28         'publisher_id',
29         'location_id',
30         'rack_id',
31         'created_by',
32     ];
33
34     public function transactions()
35     {
36         return $this->hasMany(Transaction::class);
37     }
38 }
39

```

Gambar 5.13 Models Untuk Books

```

1  <?php
2
3  namespace App\Models;
4
5  use Illuminate\Database\Eloquent\Factories\HasFactory;
6  use Illuminate\Database\Eloquent\Relations\HasMany;
7  use Illuminate\Database\Eloquent\Model;
8  use Illuminate\Database\Eloquent\SoftDeletes;
9  use App\Models\Concerns\UuidTrait;
10
11 class Author extends Model
12 {
13     use HasFactory, SoftDeletes, UuidTrait;
14
15     protected $table = 'authors';
16
17     protected $primaryKey = 'id';
18     protected $dates = ['deleted_at'];
19
20     protected $fillable = [
21         'name',
22         'birthdate',
23         'country',
24         'email',
25         'created_by'
26     ];
27
28     public function books(): HasMany
29     {
30         return $this->hasMany(Book::class);
31     }
32 }
33

```

Gambar 5.14 Models Untuk Authors

```

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\SoftDeletes;
8  use App\Models\Concerns\UuidTrait;
9
10 class Location extends Model
11 {
12     use HasFactory, SoftDeletes, UuidTrait;
13
14     protected $table = 'locations';
15
16     protected $primaryKey = 'id';
17     protected $dates = ['deleted_at'];
18
19     protected $fillable = [
20         'name',
21         'address',
22         'city',
23         'province',
24         'created_by'
25     ];
26 }

```

Gambar 5.15 Models Untuk Location

```

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\SoftDeletes;
8  use App\Models\Concerns\UuidTrait;
9  use App\Notifications\LateReturnNotification;
10 use Carbon\Carbon;
11
12 class Transaction extends Model
13 {
14     use HasFactory, SoftDeletes, UuidTrait;
15
16     protected $table = 'transactions';
17
18     protected $primaryKey = 'id';
19     protected $dates = ['deleted_at'];
20
21     protected $fillable = [
22         'book_id',
23         'member_id',
24         'status_id',
25         'loan_date',
26         'return_date',
27         'due_date',
28         'created_by'
29     ];
30
31     public function member()
32     {
33         return $this->belongsTo(Member::class);
34     }
35
36     public function book()
37     {
38         return $this->belongsTo(Book::class);
39     }
40
41     public function status()
42     {
43         return $this->belongsTo(Status::class);
44     }
45 }

```

Gambar 5.16 Models Untuk Transaction

```

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\SoftDeletes;
8  use App\Models\Concerns\UuidTrait;
9
10 class Publisher extends Model
11 {
12     use HasFactory, SoftDeletes, UuidTrait;
13
14     protected $table = 'publishers';
15
16     protected $primaryKey = 'id';
17     protected $dates = ['deleted_at'];
18
19     protected $fillable = [
20         'name',
21         'address',
22         'city',
23         'email',
24         'website',
25         'created_by'
26     ];
27 }

```

Gambar 5.17 Models Untuk Publisher

```

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\SoftDeletes;
8  use App\Models\Concerns\UuidTrait;
9
10 use Illuminate\Notifications\Notifiable;
11
12 class Member extends Model
13 {
14     use HasFactory, SoftDeletes, UuidTrait, Notifiable;
15
16     protected $table = 'members';
17
18     protected $primaryKey = 'id';
19     protected $dates = ['deleted_at'];
20
21     protected $fillable = [
22         'user_id',
23         'location_id',
24         'created_by'
25     ];
26
27     public function user()
28     {
29         return $this->belongsTo(User::class, 'user_id');
30     }
31
32     public function location()
33     {
34         return $this->belongsTo(Location::class, 'location_id');
35     }
36 }

```

Gambar 5.18 Models Untuk Member

Controllers

```

1 <?php
2
3 namespace App\Http\Controllers\Operator;
4
5 use App\Http\Controllers\Controller;
6 use Illuminate\Http\Request;
7 use Datatables;
8 use Auth;
9
10 use App\Models\{Book, Location, Author, Publisher, Rack};
11 use App\Http\Controllers\LogController;
12
13 class BookController extends Controller
14 {
15     /**
16      * Display a listing of the resource.
17      *
18      * @return \Illuminate\Http\Response
19      */
20     public function index()
21     {
22         $this->data['currentAdminMenu'] = 'book';
23         return view('operator.book.index', $this->data);
24     }

```

```

1 public function ajax(Request $request)
2 {
3     $query = Book::join('authors', 'books.author_id', '=', 'authors.id')
4     ->join('publishers', 'books.publisher_id', '=', 'publishers.id')
5     ->join('locations', 'books.location_id', '=', 'locations.id')
6     ->join('racks', 'books.rack_id', '=', 'racks.id')
7     ->select('books.*', 'authors.name as author_name', 'publishers.name as publisher_name',
8     'locations.name as location_name', 'racks.block_code as block_code')
9     ->orderBy('books.created_at', 'desc');
10
11
12     return Datatables::of($query)
13     ->filter(function ($q) use ($request) {
14         if ($request->has('search')) {
15             $searchValue = $request->search['value'];
16             $q->where('books.name', 'LIKE', "%$searchValue%");
17             $q->orWhere('block_code', 'LIKE', "%$searchValue%");
18             $q->orWhere('books.type', 'LIKE', "%$searchValue%");
19             $q->orWhereNull('books.author_id');
20         }
21     })
22     ->editColumn('books.name', function ($row) {
23         return '
24         <div class="badge badge-success"> . $row->name . </div>
25         <h6> . $row->category . </h6>
26         <h6> . $row->type . </h6>
27         <h6> . $row->year . </h6>';
28     })
29     ->editColumn('books.author_id', function ($row) {
30         return '<h6> . $row->author_name . </h6>';
31     })
32     ->editColumn('books.publisher_id', function ($row) {
33         return '<h6> . $row->publisher_name . </h6>';
34     })
35     ->editColumn('books.location_id', function ($row) {
36         return '<h6> . $row->location_name . </h6>';
37     })
38     ->editColumn('books.rack_id', function ($row) {
39         return '<h6> . $row->block_code . </h6>';
40     })
41
42     ->addColumn('action', function ($row) {
43         return '
44         <button class="btn btn-primary btn-action mr-1"
45         data-toggle="tooltip" title="Edit"
46         onclick="edit(' . $row->id . ')">
47         <i class="fas fa-pencil-alt"></i>
48         </button>
49         <button class="btn btn-danger btn-action trigger--fire-modal-2"
50         data-toggle="tooltip" title="Delete"
51         onclick="destroy(' . $row->id . ')">
52         <i class="fas fa-trash"></i>
53         </button>;'
54     })
55     ->rawColumns(['books.name', 'books.author_id', 'books.publisher_id', 'books.location_id', 'books.rack_id', 'action'])
56     ->make(true);
57 }

```



```

1  /**
2   * Show the form for creating a new resource.
3   *
4   * @return \Illuminate\Http\Response
5   */
6  public function create()
7  {
8      $authors = Author::get();
9      $publishers = Publisher::get();
10     $locations = Location::get();
11     $racks = Rack::get();
12
13     return view('operator.book.create', compact('authors', 'publishers', 'locations', 'racks'));
14 }
15
16 /**
17 * Store a newly created resource in storage.
18 *
19 * @param \Illuminate\Http\Request $request
20 * @return \Illuminate\Http\Response
21 */
22 public function store(Request $request)
23 {
24     $data = [
25         'name' => ucwords($request['name']),
26         'category' => ucwords($request['category']),
27         'type' => ucwords($request['type']),
28         'year' => $request['year'],
29         'author_id' => ($request['author_id']),
30         'publisher_id' => $request['publisher_id'],
31         'location_id' => $request['location_id'],
32         'rack_id' => $request['rack_id'],
33         'created_by' => Auth::id()
34     ];
35
36     $create = Book::create($data);
37
38     if ($create) {
39         LogController::store([
40             'current_data' => json_encode($data),
41             'existing_data' => null,
42             'created_by' => Auth::id()
43         ]);
44
45         return response()
46             ->json([
47                 "status" => 200,
48                 "message" => "Book Successfully Stored"
49             ]);
50     }
51
52     return response()
53         ->json([
54             "status" => 400,
55             "message" => "Book Failed to be Stored"
56         ]);
57 }

```

```

1  /**
2  * Show the form for editing the specified resource.
3  *
4  * @param int $id
5  * @return \Illuminate\Http\Response
6  */
7  public function edit($id)
8  {
9      $data = Book::where("id", $id)->first();
10     $author = Author::all();
11     $publisher = Publisher::get();
12     $location = Location::get();
13     $rack = Rack::get();
14     return view('operator.book.edit', compact('data', 'author', 'publisher', 'location', 'rack'));
15 }
16
17 /**
18 * Update the specified resource in storage.
19 *
20 * @param \Illuminate\Http\Request $request
21 * @param int $id
22 * @return \Illuminate\Http\Response
23 */
24 public function update(Request $request, $id)
25 {
26     $existing_data = Book::where("id", $id)->first();
27     $current_data = [
28         'name' => $request['name'],
29         'category' => $request['category'],
30         'type' => $request['type'],
31         'year' => $request['year'],
32         'author_id' => $request['author_id'],
33         'publisher_id' => $request['publisher_id'],
34         'location_id' => $request['location_id'],
35         'rack_id' => $request['rack_id'],
36     ];
37
38     $update = Book::where("id", $id)->update($current_data);
39
40     if ($update) {
41         LogController::store([
42             'current_data' => json_encode($current_data, true),
43             'existing_data' => json_encode($existing_data->getAttributes(), true),
44             'created_by' => Auth::id()
45         ]);
46
47         return response()
48             ->json([
49                 "status" => 200,
50                 "message" => "Book Successfully Updated"
51             ]);
52     }
53
54     return response()
55         ->json([
56             "status" => 400,
57             "message" => "Book Failed to be Updated"
58         ]);
59 }

```

```

1  /**
2   * Remove the specified resource from storage.
3   *
4   * @param int $id
5   * @return \Illuminate\Http\Response
6   */
7  public function destroy($id)
8  {
9      $data = Book::where("id", $id)->first();
10     if ($data->delete()) {
11         return response()
12             ->json([
13                 "status" => 200,
14                 "message" => "Book Successfully Deleted"
15             ]);
16     }
17
18     return response()
19         ->json([
20             "status" => 400,
21             "message" => "Book Failed to be Deleted"
22         ]);
23 }
24 }

```

Gambar 5.19 Contollers Untuk BooksContollers

```

1  <?php
2
3  namespace App\Http\Controllers\Admin;
4
5  use App\Http\Controllers\Controller;
6  use Illuminate\Http\Request;
7  use App\Models\Book;
8  use App\Models\Member;
9  use App\Models\Transaction;
10 use Illuminate\Support\Carbon;
11 use DataTables;
12
13
14 class DashboardController extends Controller
15 {
16     public function index(Request $request)
17     {
18
19         $members = Member::join('users', 'members.user_id', '=', 'users.id')
20             ->join('transactions', 'members.id', '=', 'transactions.member_id')
21             ->join('books', 'transactions.book_id', '=', 'books.id')
22             ->join('status', 'transactions.status_id', '=', 'status.id')
23             ->select('members.*', 'users.name as user_name', 'books.name as book_name', 'status.name as status_name')
24             ->get();
25
26         // Ambil tahun yang dipilih dari dropdown, default ke tahun saat ini jika tidak ada yang dipilih
27         $selectedYear = $request->input('selected_year', date('Y'));
28
29         // Filter data buku, anggota, dan transaksi berdasarkan tahun yang dipilih
30         $booksCount = Book::whereYear('created_at', '=', $selectedYear)->count();
31         $membersCount = Member::whereYear('created_at', '=', $selectedYear)->count();
32         $transactionCount = Transaction::where('status_id', '=', 1)->whereYear('loan_date', '=', $selectedYear)->count();
33         $transactionCountReturn = Transaction::where('status_id', '=', 2)->whereYear('created_at', '=', $selectedYear)->count();
34         $peminjamTelat = Transaction::whereDate('due_date', '<', Carbon::today())->get();
35
36         // Pass the selected year to the view
37         $data = [
38             'currentAdminMenu' => 'dashboard',
39             'booksCount' => $booksCount,
40             'membersCount' => $membersCount,
41             'transactionCount' => $transactionCount,
42             'selectedYear' => $selectedYear,
43             'transactionCountReturn' => $transactionCountReturn,
44             'peminjamTelat' => $peminjamTelat,
45             'members' => $members,
46         ];
47
48         return view('admin.dashboard.index', $data);
49     }

```

```

1 public function getChartData(Request $request)
2 {
3     $selectedYear = $request->input('selected_year', date('Y'));
4
5     $labels = ['January', 'February', 'March', 'April', 'May', 'June', 'July', 'August', 'September', 'October', 'November', 'December'];
6
7     $transactionCounts = [];
8     $memberCounts = [];
9
10    for ($i = 0; $i < 12; $i++) {
11        $month = str_pad($i + 1, 2, '0', STR_PAD_LEFT);
12        $startDate = $selectedYear . '-' . $month . '-01';
13        $endDate = Carbon::createFromDate($selectedYear, $i + 1, 1)->lastOfMonth()->toDateString();
14
15        $transactionCount = Transaction::whereBetween('loan_date', [$startDate, $endDate])->count();
16        $memberCount = Member::whereBetween('created_at', [$startDate, $endDate])->count();
17
18        $transactionCounts[] = $transactionCount;
19        $memberCounts[] = $memberCount;
20    }
21
22    // Get the total count of transactions and books for the selected year
23    $transactionCountReturn = Transaction::where('status_id', '=', 2)->whereYear('created_at', '=', $selectedYear)->count();
24    $booksCount = Book::whereYear('created_at', '=', $selectedYear)->count();
25
26    // Debugging: Tampilkan nilai dari $memberCounts di dalam terminal atau Log server
27
28
29    return response()->json([
30        'labels' => $labels,
31        'transactionCounts' => $transactionCounts,
32        'memberCounts' => $memberCounts,
33        'transactionCountReturn' => $transactionCountReturn,
34        'booksCount' => $booksCount,
35    ]);
36 }

```

```

1 public function getDataPeminjamTelat(Request $request)
2 {
3     // Menggunakan Eloquent dengan eager loading untuk memuat data member dan user
4     $peminjamTelat = Transaction::with('member,user')
5         ->whereDate('due_date', '<', Carbon::now()) // Ambil peminjam yang tanggal pengembalian sudah lewat
6         ->whereNull('return_date') // Ambil peminjam yang belum mengembalikan buku
7         ->get();
8
9     return DataTables::of($peminjamTelat)
10        ->addColumn('nama_peminjam', function ($peminjam) {
11            if ($peminjam->member && $peminjam->member->user) {
12                return $peminjam->member->user->name;
13            } else {
14                return '-';
15            }
16        })
17        ->addColumn('tanggal_pengembalian', function ($peminjam) {
18            if ($peminjam->due_date) {
19                return Carbon::parse($peminjam->due_date)->format('d-m-Y');
20            } else {
21                return '-';
22            }
23        })
24        ->addColumn('keterangan', function ($peminjam) {
25            if ($peminjam->status_id == 2) { // Return
26                return '<span class="text-success">Tidak Telat</span>';
27            } else {
28                $keterangan = $peminjam->due_date && Carbon::parse($peminjam->due_date)->isPast() ? 'Telat' : 'Tidak Telat';
29                return $keterangan;
30            }
31        })
32        ->rawColumns(['keterangan']) // Menggunakan rawColumns untuk mengabaikan escape HTML
33        ->make(true);
34 }
35
36
37 public function datamart()
38 {
39     $currentAdminMenu = 'datamart'; // Atur nilai $currentAdminMenu sesuai dengan halaman datamart
40     return view('admin.datamart.index', compact('currentAdminMenu'));
41 }
42 }

```

Gambar 5.20 Contollers Untuk DashboardContoller



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