

LAMPIRAN

- *Source code* Halaman Dashboard

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8" />
<meta name="viewport" content="width=device-width,
initial-scale=1.0" />
<title>Sistem Prediksi Tren Framework</title>
<!-- Custom fonts for this template-->
<link href="{{ asset('fontawesome-free/css/all.css') }}"
rel="stylesheet" type="text/css">
<link
href="https://fonts.googleapis.com/css?family=Nunito:200,2
00i,300,300i,400,400i,600,600i,700,700i,800,800i,900,900i"
rel="stylesheet">
<!-- Custom styles for this template-->
<link href="{{ asset('css/sb-admin-2.css') }}"
rel="stylesheet" type="text/css">
<link href="{{
asset('datatables/dataTables.bootstrap4.min.css') }}"
rel="stylesheet">
</head>
<body id="page-top">
@if ($errors->any())
<div class="container mt-4">
<div class="alert alert-danger alert-dismissible fade
show" role="alert">
<ul class="mb-0">
@foreach ($errors->all() as $error)
<li>{{ $error }}</li>
@endforeach
</ul>
<button type="button" class="close" data-dismiss="alert"
aria-label="Close">
<span aria-hidden="true">&times;</span>
</button>
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</div>
</div>
@endif
<!-- Page Wrapper -->
<div id="wrapper">
<!-- Sidebar -->
<ul class="navbar-nav sidebar sidebar-light accordion"
id="accordionSidebar">
<!-- Sidebar - Brand -->
<a class="sidebar-brand d-flex align-items-center justify-
content-center" href="/dashboard">
<div class="sidebar-brand-icon">

</div>
<div class="sidebar-brand-text mx-2">Sistem Prediksi</div>
</a>
<!-- Divider -->
<hr class="sidebar-divider my-0">
<!-- Nav Item - Dashboard -->
<li class="nav-item">
<div class="nav-link"></div>
<div class="nav-link"></div>
<div class="nav-link"></div>
<div class="nav-link"></div>
</li>
<!-- Divider -->
<hr class="sidebar-divider my-0">
<li class="nav-item {{ request() -> is('dashboard') ?
'active' : '' }}">
<a class="nav-link" href="/dashboard">
<i class="fas fa-fw fa-columns"></i>
<span>Dashboard</span>
</a>
</li>
<!-- Divider -->
<hr class="sidebar-divider my-0">

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<li class="nav-item {{ request() -> is('dataset') ?
'active' : '' }}">
<a class="nav-link" href="/dataset">
<i class="fas fa-database"></i>
<span>Dataset</span>
</a>
</li>
<!-- Divider -->
<hr class="sidebar-divider my-0">
<li class="nav-item {{ request() -> is('perhitungan') ?
'active' : '' }}">
<a class="nav-link" href="/perhitungan">
<i class="fas fa-chart-line"></i>
<span>Perhitungan</span>
</a>
</li>
<!-- Divider -->
<hr class="sidebar-divider my-0">
<li class="nav-item">
<form id="logout-form" action="{{ route('logout') }}"
method="POST" style="display: none;">
@csrf
</form>
<a class="nav-link" href="#"
onclick="event.preventDefault();
document.getElementById('logout-form').submit();">
<i class="fas fa-sign-out-alt"></i>
<span>Logout</span>
</a>
</li>
<!-- Divider -->
<hr class="sidebar-divider d-none d-md-block">
<br><br>
<!-- Sidebar Toggler (Sidebar) -->
<div class="text-center d-none d-md-inline">
<button class="rounded-circle border-0"
id="sidebarToggle"></button>

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</div>
</ul>
<!-- End of Sidebar -->
<!-- Content Wrapper -->
<div id="content-wrapper" class="d-flex flex-column">
<!-- Main Content -->
<div id="content">
  {{ $slot }}
</div>
<!-- End of Main Content -->
<!-- Footer -->
<footer class="sticky-footer bg-white">
  <div class="container my-auto">
    <div class="copyright text-center my-auto">
      <b>Copyright &copy; Fajri Izzul Haq 2025</b>
    </div>
  </div>
</footer>
<!-- End of Footer -->
</div>
<!-- End of Content Wrapper -->
</div>
<!-- End of Page Wrapper -->
<!-- Scroll to Top Button-->
<a class="scroll-to-top rounded" href="#page-top">
  <i class="fas fa-angle-up"></i>
</a>
<!-- Bootstrap core JavaScript-->
<script src="{{ asset('js/jquery.min.js') }}"></script>
<script src="{{ asset('js/bootstrap.bundle.min.js') }}"></script>
<!-- Core plugin JavaScript-->
<script src="{{ asset('js/jquery.easing.min.js') }}"></script>
<!-- Custom scripts for all pages-->
<script src="{{ asset('js/sb-admin-2.js') }}"></script>
<!-- Page level plugins -->

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<script src="{{
asset('datatables/jquery.dataTables.min.js') }}"></script>
<script src="{{
asset('datatables/dataTables.bootstrap4.min.js')
}}"></script>
<!-- Page level custom scripts -->
<script src="{{ asset('js/datatables-demo.js')
}}"></script>
</body>
</html>
<x-layout>
<!-- Topbar -->
<nav class="navbar navbar-expand navbar-light bg-white
topbar mb-4 static-top shadow">
<!-- Sidebar Toggle (Topbar) -->
<button id="sidebarToggleTop" class="btn btn-link d-md-
none rounded-circle mr-3">
<i class="fa fa-bars"></i>
</button>
<h3 style="font-weight: bold; font-family: 'Bookman Old
Style';">
PREDIKSI TREN PENGGUNAAN FRAMEWORK
</h3>
</nav>
<!-- End of Topbar -->
<!-- Begin Page Content -->
<div class="container-fluid">
<div class="d-sm-flex align-items-center justify-content-
between mb-4">
<h1 class="h3 mb-0 text-gray-800 font-weight-bold section-
title">Dashboard</h1>
</div>
<center>
@foreach ($users->take(1) as $user)
<h4>Halo, {{ Auth::guard('user')->user()->nama_lengkap
}}.<br>Selamat Datang di Website Prediksi Tren Penggunaan
Framework</h4>

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@endforeach
</center>
<h5 class="mt-5" style="font-weight: bold; font-family:
'Bookman Old Style'; color: #4e4e4e;">
Grafik Analisis
</h5>
@if (count($dataGrafik) === 0)
<div class="alert alert-info">Belum ada framework yang
ditambahkan.</div>
@else
<div style="width: 100%;">
<canvas id="barChartAllFrameworks"></canvas>
</div>
<br><br>
<div class="row">
@foreach ($dataGrafik as $grafik)
<div class="col-md-6 mb-5">
<h5 class="text-gray-900 font-weight-bold">{{
$grafik['nama'] }}</h5>
<div style="width: 100%;">
<canvas id="chart-{{
\Illuminate\Support\Str::slug($grafik['nama'])
}}"></canvas>
</div></div>
@endforeach
</div>
@endif
</div>
<script
src="https://cdn.jsdelivr.net/npm/chart.js"></script>
@foreach ($dataGrafik as $grafik)
<script>
const ctx_{{
\Illuminate\Support\Str::slug($grafik['nama'], '_') }} =
document.getElementById('chart-{{
\Illuminate\Support\Str::slug($grafik['nama'])
}}').getContext('2d');

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new Chart(ctx_{{
  \Illuminate\Support\Str::slug($grafik['nama'], '_') }}, {
  type: 'line',
  data: {
  labels: {!! json_encode($grafik['labels']) !!},
  datasets: [
    {
    label: 'Data Aktual',
    data: {!! json_encode($grafik['aktual']) !!},
    borderColor: 'blue',
    fill: false
    },
    {
    label: 'Data Prediksi',
    data: {!! json_encode($grafik['prediksi']) !!},
    borderColor: 'red',
    borderDash: [5, 5],
    fill: false
    }
  ]
  },
  options: {
  responsive: true,
  plugins: {
  legend: { position: 'top' },
  title: { display: false }
  }
  }
  });
</script>
<script>
const ctxBar =
document.getElementById('barChartAllFrameworks').getContext('2d');
new Chart(ctxBar, {
  type: 'bar',
  data: {

```

```

labels: {!! json_encode($barLabelsAll) !!},
datasets: [
{
label: 'Data Aktual',
data: {!! json_encode($barDataAktualAll) !!},
backgroundColor: 'rgba(54, 162, 235, 0.7)'
},
{
label: 'Data Prediksi',
data: {!! json_encode($barDataPrediksiAll) !!},
backgroundColor: 'rgba(255, 99, 132, 0.7)'
}
]
},
options: {
responsive: true,
plugins: {
legend: { position: 'top' },
title: { display: false }
},
scales: {
y: {
beginAtZero: true
},
x: {
ticks: {
maxRotation: 90,
minRotation: 45
}
}
}
});
</script>
@endforeach
</x-layout>

```


- *Source code* Halaman Dataset

```

<x-layout>
  <!-- Topbar -->
  <nav class="navbar navbar-expand navbar-light bg-white
topbar mb-4 static-top shadow">
    <!-- Sidebar Toggle (Topbar) -->
    <button id="sidebarToggleTop" class="btn btn-link
d-md-none rounded-circle mr-3">
      <i class="fa fa-bars"></i>
    </button>
    <h3 style="font-weight: bold; font-family:
'Bookman Old Style';">
      PREDIKSI TREN PENGGUNAAN FRAMEWORK
    </h3>
  </nav>
  <!-- End of Topbar -->
  <!-- Begin Page Content -->
  <div class="container-fluid">
    <div class="d-sm-flex align-items-center justify-
content-between mb-4">
      <h1 class="h3 mb-0 text-gray-800 font-weight-
bold section-title">Dataset</h1>
    </div>
    @if (session('success'))
      <div class="alert alert-success alert-
dismissible fade show" role="alert">
        {{ session('success') }}
        <button type="button" class="close" data-
dismiss="alert" aria-label="Tutup">
          <span aria-
hidden="true">&times;</span>
        </button>
      </div>
    @endif
  <!-- Page Heading -->
  <div id="accordionFrameworks">
    @foreach ($frameworks as $framework)

```

```

<div class="card">
  <div class="card-header"
  id="heading{{$framework->id}}">
    <div class="d-flex justify-content-
  between align-items-center">
      <h5 class="mb-0">
        <button class="btn btn-link
  accordion-title font-weight-bold" data-toggle="collapse"
  data-target="#collapse{{$framework->id}}" aria-
  expanded="true" aria-controls="collapse{{$framework-
  >id}}">
          <i class="fas fa-chevron-
  down mr-2 toggle-icon"></i>
          {{$framework-
  >nama_framework}}
        </button>
      </h5>
      <div>
        <button class="btn btn-sm btn-
  outline-primary" data-toggle="modal" data-
  target="#editFramework{{$framework->id}}">
          <i class="fas fa-
  edit"></i>
        </button>
        <button class="btn btn-sm btn-
  outline-danger" data-toggle="modal" data-
  target="#deleteFramework{{$framework->id}}">
          <i class="fas fa-trash-
  alt"></i>
        </button>
      </div>
    </div>
  </div>
  <div id="collapse{{$framework->id}}"
  class="collapse" aria-labelledby="heading{{$framework-
  >id}}" data-parent="#accordionFrameworks">
    <div class="card-body">

```

```

        <a class="btn btn-sm btn-secondary
mb-3" href="" data-toggle="modal" data-
target="#myModal{{$framework->id}}">
        <i class="fas fa-fw fa-
plus"></i> Tambah Data
    </a>
    <table class="table table-
bordered" width="100%" cellspacing="0">
        <thead>
            <tr class="text-center">
                <th>Tahun</th>
                <th>Jumlah
Publikasi</th>
                <th>Aksi</th>
            </tr>
        </thead>
        <tbody>
            @foreach ($datasets-
>where('id_framework', $framework->id)->sortBy('tahun') as
$dataset)
                <tr class="text-center">
                    <td>{{$dataset-
>tahun}}</td>
                    <td>{{$dataset-
>jumlah}}</td>
                    <td>
                        <a class="btn btn-
warning btn-icon-split mb-3" href="" data-toggle="modal"
data-target="#myModaledit{{$dataset->id}}">
                            <span
class="icon text-white-50">
                                <i
class="fas fa-edit"></i>
                            </span>
                            <span
class="text">Edit</span>
                        </a>

```



```

    </div>
  </div>
</x-layout>

```

- *Source code* Halaman Perhitungan

```

<x-layout>
  <!-- Topbar -->
  <nav class="navbar navbar-expand navbar-light bg-white
topbar mb-4 static-top shadow">
    <!-- Sidebar Toggle (Topbar) -->
    <button id="sidebarToggleTop" class="btn btn-link
d-md-none rounded-circle mr-3">
      <i class="fa fa-bars"></i>
    </button>
    <h3 style="font-weight: bold; font-family:
'Bookman Old Style';">
      PREDIKSI TREN PENGGUNAAN FRAMEWORK
    </h3>
  </nav>
  <!-- End of Topbar -->
  <!-- Begin Page Content -->
  <div class="container-fluid">
    <div class="d-sm-flex align-items-center justify-
content-between mb-4">
      <h1 class="h3 mb-0 text-gray-800 font-weight-
bold section-title">Perhitungan</h1>
    </div>
    <!-- Page Heading -->
    <div class="card shadow mb-4">
      <div class="card-body">
        <div class="table-responsive">
          <table class="table table-bordered"
id="dataTable" width="100%" cellpadding="0">
            <thead>
              <tr class="text-center">
                <th>No</th>
                <th>Framework</th>

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                <th>Proses</th>
            </tr>
        </thead>
        <tbody>
            @php($i = 1)
            @foreach ($frameworks as
$framework)
                <tr class="text-center">
                    <td>{{ $i++ }}</td>
                    <td>{{ $framework->nama_framework }}</td>
                    <td>
                        <!--button-->
                        <a class="btn btn-
secondary btn-icon-split mb-3" href="{{
route('user.proses_perhitungan', ['id' => $framework->id])
}}">
                            <span
class="text">Proses Perhitungan</span>
                        </a>
                    </td>
                </tr>
            @endforeach
        </tbody>
    </table>
</div>
</div>
</div>
</div>
</x-layout>

```

- **Source code Halaman Proses Perhitungan**

```

<x-layout>
    <!-- Topbar -->
    <nav class="navbar navbar-expand navbar-light bg-white
topbar mb-4 static-top shadow">
        <!-- Sidebar Toggle (Topbar) -->

```

```

        <button id="sidebarToggleTop" class="btn btn-link
d-md-none rounded-circle mr-3">
            <i class="fa fa-bars"></i>
        </button>
        <h3 style="font-weight: bold; font-family:
'Bookman Old Style';">
            PREDIKSI TREN PENGGUNAAN FRAMEWORK
        </h3>
    </nav>
    <!-- End of Topbar -->
    <!-- Begin Page Content -->
    <div class="container-fluid">
        <div class="d-sm-flex align-items-center justify-
content-between mb-4">
            <h1 class="h3 mb-0 text-gray-800 font-weight-
bold section-title">
                Proses Perhitungan - {{ $framework-
>nama_framework }}
            </h1>
        </div>
        <!-- Page Heading -->
        <div class="card shadow mb-4">
            <div class="card-body">
                <form method="GET" action="{{{
route('user.proses_perhitungan', $id_framework) }}"
class="form-inline mb-3">
                    <label for="tahun_latih" class="mr-2
font-weight-bold">
                        Pilih jumlah tahun data latih :
                    <i class="fas fa-info-circle text-
info ml-1"
                        data-toggle="tooltip"
                        data-placement="top"
                        title="Data latih akan digunakan
untuk membuat model untuk prediksi,
                        sedangkan data uji akan digunakan
untuk perbandingan hasil prediksi.">

```

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        </i>
    </label>
    <select name="tahun_latih"
id="tahun_latih" class="form-control mr-2">
        @for ($i = 1; $i < $totalData;
    $i++)
            <option value="{{ $i }}" {{
request('tahun_latih') == $i ? 'selected' : '' }}>
                {{ $i }} tahun pertama
            (uji: {{ $totalData - $i }} tahun)
        </option>
    @endfor
    </select>
    <button type="submit" class="btn btn-
primary">Terapkan</button>
</form>
</div>
<div class="card-header py-3">
    <h5 class="m-0 font-weight-bold text-
secondary">Tabel Perhitungan</h5>
</div>
<div class="card-body">
    @if (!request()->has('tahun_latih'))
        <div class="alert alert-warning text-
center my-3">
            Pembagian data belum dilakukan.
            Silakan pilih jumlah tahun data latih terlebih dahulu.
        </div>
    @else
        <div class="table-responsive">
            <table class="table table-bordered">
                <thead>
                    <tr class="text-center">
                        <th>Tahun</th>
                        <th>Jumlah Publikasi</th>
                        <th>X</th>
                        <th>Y</th>
                    </tr>
                </thead>
            </table>
        </div>
    @endif
</div>

```



```

        <th>XY</th>
        <th>X<sup>2</sup></th>
    </tr>
</thead>
<tbody>
    @php($i = 1)
    @foreach ($datasets as
$dataset)
        <tr class="text-center">
            <td>{{ $dataset->tahun
}}</td>
            <td>{{ $dataset->
>jumlah }}</td>
            <td>{{ $i }}</td>
            <td>{{ $dataset->
>jumlah }}</td>
            <td>{{ $dataset->
>jumlah * $i }}</td>
            <td>{{ $i * $i }}</td>
        </tr>
        @php($i++)
    @endforeach
</tbody>
<tfoot>
    <tr class="text-center font-
weight-bold">
        <td colspan="2">Total</td>
        <td>{{ $totalX }}</td>
        <td>{{ $totalY }}</td>
        <td>{{ $totalXY }}</td>
        <td>{{ $totalX2 }}</td>
    </tr>
    <tr class="font-weight-bold">
        <td colspan="2"
class="text-center">Koefisien (b)</td>
        <td class="text-center"
colspan="4">{{ number_format($b, 4) }}</td>

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        </tr>
        <tr class="font-weight-bold">
            <td colspan="2"
class="text-center">Konstanta (a)</td>
            <td class="text-center"
colspan="4">{{ number_format($a, 4) }}</td>
        </tr>
    </tfoot>
</table>
</div>
<div class="px-3 pb-3">
    <p>
        Berdasarkan nilai koefisien
        dan konstanta yang diperoleh, maka didapatkan model
        persamaan sebagai berikut :
    </p>
    @if ($modelStatus == 'belum_ada')
        <div class="alert alert-
warning py-2 px-3">
            Model belum tersedia untuk
            framework ini.
        </div>
    @elseif ($modelStatus == 'sama')
        <div class="alert alert-
success py-2 px-3">
            Model sudah tersimpan dan
            belum mengalami perubahan.
        </div>
    @elseif ($modelStatus ==
'berbeda')
        <div class="alert alert-danger
py-2 px-3">
            Model ini berbeda dengan
            model yang sudah tersimpan. Silakan simpan ulang jika
            ingin memperbarui.
        </div>
    @endif

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```

        <form action="{{
route('models.store') }}" method="POST" class="d-flex
align-items-center justify-content-start flex-wrap gap-2">
            @csrf
            <input type="hidden"
name="id_framework" value="{{ $id_framework }}">
            <input type="hidden"
name="koefisien" value="{{ $b }}">
            <input type="hidden"
name="konstanta" value="{{ $a }}">
            <span class="font-weight-
bold">
                Y = {{ number_format($a,
4) }} + {{ number_format($b, 4) }}X
            </span>
            @if ($modelStatus != 'sama')
                <button type="submit"
class="btn btn-sm btn-success ml-5">
                    {{ $modelStatus ==
'berbeda' ? 'Perbarui Model' : 'Simpan Model' }}
                </button>
            @endif
        </form>
    </div>
</div>
    <div class="text-center mb-3">
        <button id="togglePrediksi" class="btn btn-
primary">Tampilkan Hasil Prediksi</button>
    </div>
    @if (!request()->has('tahun_latih'))
        <div class="alert alert-warning text-center
my-3">
            Pembagian data belum dilakukan. Silakan
pilih jumlah tahun data latih terlebih dahulu.
        </div>
    </div>

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    @elseif (count($prediksi))
        <div class="card shadow mb-4"
id="hasilPrediksi" style="display: none;">
            <div class="card-header py-3">
                <h5 class="m-0 font-weight-bold text-
secondary">Hasil Prediksi</h5>
            </div>
            <div class="card-body">
                @if ($modelStatus !== 'sama')
                    <div class="alert alert-warning
text-center my-3">
                        Model prediksi tidak sesuai.
Harap simpan model terbaru terlebih dahulu.
                    </div>
                @endif
                <div class="table-responsive">
                    <table class="table table-bordered">
                        <thead>
                            <tr class="text-center">
                                <th>Tahun</th>
                                <th>Data Aktual</th>
                                <th>Data Prediksi</th>
                            </tr>
                        </thead>
                        <tbody>
                            @foreach ($prediksi as $row)
                                <tr class="text-center {{
$row['aktual'] === null ? 'table-secondary' : '' }}">
                                    <td>{{ $row['tahun']
}}</td>
                                    <td>{{ $row['aktual']
}}</td>
                                    <td>{{
$row['prediksi'] }}</td>
                                </tr>
                            @endforeach
                        </tbody>

```

