

LAMPIRAN

Lampiran 1 Source Code Halaman Bilangan Acak

```
@extends('tampilan.index')
@section('title', 'Halaman Bilangan Acak')
@section('container')
    <div class="content-header">
        <div class="container">
            <div class="row mb-2">
                <div class="col-sm-6">
                    <h1 class="m-0 text-dark">Bilangan Acak</h1>
                </div>
            </div>
        </div>
    </div>

    <div class="container">
        <div class="row justify-content-center">
            <div class="col-6">
                <form action="/hitungba" method="post">
                    @csrf
                    <div class="card-body">
                        <div class="form-group row text-center">
                            <label for="K" class="col-sm-1 col-form-label form-control bg-red">A</label>
                            <div class="col-sm-10">
                                <input type="text" class="form-control text-center" id="K" value="10" name="k">
                            </div>
                        </div>
                        <div class="form-group row text-center">
                            <label for="G" class="col-sm-1 col-form-label form-control bg-red">C</label>
                            <div class="col-sm-10">
                                <input type="text" class="form-control text-center" id="G" value="20" name="g">
                            </div>
                        </div>
                        <div class="form-group row text-center">
                            <label for="Z" class="col-sm-1 col-form-label form-control bg-red">X</label>
                            <div class="col-sm-10">
                                <input type="text" class="form-control text-center" id="Z" value="69" name="z">
                            </div>
                        </div>
                        <div class="form-group row text-center">
                            <label for="M" class="col-sm-1 col-form-label form-control bg-red">M</label>
                            <div class="col-sm-10">
                                <input type="text" class="form-control text-center" id="M" value="99" name="m">
                            </div>
                        </div>
                    </div>
                </form>
            </div>
        </div>
    </div>
```

```

        <div class="form-group row text-center">
            <button type="submit" class="btn btn-
info col-lg-11" name="hitung">Hitung</button>
        </div>
    </div>
</form>

    <div class="row">
        <div class="col-lg-11">
            @section('notif')
            <div class="alert alert-success alert-
dismissible fade show" role="alert">
                {{session('notif')}} Bilangan Acak
                <button type="button" class="close"
data-dismiss="alert" aria-label="Close">
                    <span aria-
hidden="true">&times;</span>
                </button>
            </div>
            @endsection
        </div>
    </div>
</div>
</div>
@endsection

```

Lampiran 2 Source Code Halaman Hitung Bilangan Acak

```

@extends('tampilan.index')
@section('title', 'Halaman Hasil Perhitungan Bilangan Acak')
@section('container')
    <div class="content-header">
        <div class="container">
            <div class="row mb-2">
                <div class="col-sm-6">
                    <h1 class="m-0 text-dark">Hasil Perhitungan Bilangan
Acak</h1>
                </div>
            </div>
        </div>
    </div>

    <div class="container">
        <div class="row justify-content-center">
            <div class="col-12">
                <form action="/simpanba" method="post">
                    @csrf
                    <div class="card-body">
                        <div class="form-group row text-center
justify-content-center">
                            <div class="col-sm-8">
                                <input type="text" class="form-
control text-center" id="K" value="{{ $hasil1 }}" name="hasil1"
readonly>

```

```

        </div>
    </div>
    <div class="form-group row text-center
justify-content-center">
        <div class="col-sm-8">
            <input type="text" class="form-
control text-center" id="K" value="{{ $hasil2 }}" name="hasil2"
readonly>
        </div>
    </div>
    <div class="form-group row text-center
justify-content-center">
        <div class="col-sm-8">
            <input type="text" class="form-
control text-center" id="K" value="{{ $hasil3 }}" name="hasil3"
readonly>
        </div>
    </div>
    <div class="form-group row text-center
justify-content-center">
        <div class="col-sm-8">
            <input type="text" class="form-
control text-center" id="K" value="{{ $hasil4 }}" name="hasil4"
readonly>
        </div>
    </div>
    <div class="form-group row text-center
justify-content-center">
        <div class="col-sm-8">
            <input type="text" class="form-
control text-center" id="K" value="{{ $hasil5 }}" name="hasil5"
readonly>
        </div>
    </div>
    <div class="form-group row text-center
justify-content-center">
        <div class="col-sm-8">
            <input type="text" class="form-
control text-center" id="K" value="{{ $hasil6 }}" name="hasil6"
readonly>
        </div>
    </div>
    <div class="form-group row text-center
justify-content-center">
        <div class="col-sm-8">
            <input type="text" class="form-
control text-center" id="K" value="{{ $hasil7 }}" name="hasil7"
readonly>
        </div>
    </div>
    <div class="form-group row text-center
justify-content-center">
        <div class="col-sm-8">
            <input type="text" class="form-
control text-center" id="K" value="{{ $hasil8 }}" name="hasil8"
readonly>
        </div>
    </div>

```

```

        </div>
        <div class="form-group row text-center
justify-content-center">
            <div class="col-sm-8">
                <input type="text" class="form-
control text-center" id="K" value="{{ $hasil9 }}" name="hasil9"
readonly>
            </div>
        </div>
        <div class="form-group row text-center
justify-content-center">
            <div class="col-sm-8">
                <input type="text" class="form-
control text-center" id="K" value="{{ $hasil10 }}" name="hasil10"
readonly>
            </div>
        </div>
        <div class="form-group row text-center
justify-content-center">
            <div class="col-sm-8">
                <input type="text" class="form-
control text-center" id="K" value="{{ $hasil11 }}" name="hasil11"
readonly>
            </div>
        </div>
        <div class="form-group row text-center
justify-content-center">
            <div class="col-sm-8">
                <input type="text" class="form-
control text-center" id="K" value="{{ $hasil12 }}" name="hasil12"
readonly>
            </div>
        </div>

        <div class="form-group row text-center
justify-content-center">
            <button type="submit" name="button"
class="btn btn-success col-sm-9">Simpan</button>
        </div>
    </div>
</form>
</div>
</div>
</div>
@endsection

```

Lampiran 3 Source Code Halaman Controller Bilangan Acak

```

<?php
namespace App\Http\Controllers;
use Illuminate\Http\Request;
use Illuminate\Support\Facades\DB;
class BAController extends Controller
{
    public function ba()

```

```

{
    return view('perhitungan.ba');
}

public function hitungba(Request $request)
{
    if ($request->has('hitung')) {
        $k = $request->k;
        $g = $request->g;
        $z = $request->z;
        $m = $request->m;
    }

    $hasil1 = ($k*$z+$g) % $m;
    $hasil2 = ($k*$hasil1+$g) % $m;
    $hasil3 = ($k*$hasil2+$g) % $m;
    $hasil4 = ($k*$hasil3+$g) % $m;
    $hasil5 = ($k*$hasil4+$g) % $m;
    $hasil6 = ($k*$hasil5+$g) % $m;
    $hasil7 = ($k*$hasil6+$g) % $m;
    $hasil8 = ($k*$hasil7+$g) % $m;
    $hasil9 = ($k*$hasil8+$g) % $m;
    $hasil10 = ($k*$hasil9+$g) % $m;
    $hasil11 = ($k*$hasil10+$g) % $m;
    $hasil12 = ($k*$hasil11+$g) % $m;

    return
view('perhitungan.hitungba',compact('hasil1','hasil2','hasil3','hasil4','hasil5','hasil6','hasil7','hasil8','hasil9','hasil10','hasil11','hasil12'));
}

public function simpanba(Request $request)
{
    // if ($request->has('button')){
    //     DB::table('bilangan_acak')->truncate();
    // }

    $data = [
        ['nilai' => $request->hasil1],
        ['nilai' => $request->hasil2],
        ['nilai' => $request->hasil3],
        ['nilai' => $request->hasil4],
        ['nilai' => $request->hasil5],
        ['nilai' => $request->hasil6],
        ['nilai' => $request->hasil7],
        ['nilai' => $request->hasil8],
        ['nilai' => $request->hasil9],
        ['nilai' => $request->hasil10],
        ['nilai' => $request->hasil11],
        ['nilai' => $request->hasil12],
    ];

    // dd($data);
    DB::table('bilangan_acak')->insert($data);
return redirect('/ba')->with('notif', 'Hasil Perhitungan Bilangan Acak Telah Di Simpan');
}

```

```
}  
}
```

Lampiran 4 Source Code Halaman Perhitungan

```
@extends('tampilan.index')  
@section('title','Halaman Perhitungan Data Penjualan Oli')  
@section('container')  
  
<div class="content-header">  
    <div class="container">  
        <div class="row mb-2">  
            <div class="col-sm-6">  
                <h1 class="m-0 text-dark">Perhitungan Data Penjualan  
Oli</h1>  
            </div>  
        </div>  
    </div>  
</div>  
  
@php  
    // Total Penjualan: Sekarang mencakup semua 12 bulan  
    $totalP =  
$Januari+$Februari+$Maret+$April+$Mei+$Juni+$Juli+$Agustus+$September+$Oktober+$November+$Desember;  
  
    // Inisialisasi probkum di awal, PASTIKAN ini 0  
    $probkum = 0;  
@endphp  
<form action="/perhitungan" method="post">  
    @csrf  
    <div class="container ml-2 text-bold text-center">  
        <div class="row justify-content-center">  
            <div class="col-3">  
                <p>Tahun :<span class="ml-2">{{ $tahun }}<input  
type="hidden" name="tahun" value="{{ $tahun }}"></span></p>  
            </div>  
            <div class="col-3">  
                <p>Jenis Oli :<span class="ml-2">{{ $jenis_oli }}<input  
type="hidden" name="jenis_oli" value="{{ $jenis_oli }}"></span></p>  
            </div>  
            <div class="col-3">  
                <p>Total Penjualan :<span class="ml-2">{{ $totalP  
}}</span></p>  
            </div>  
            <div class="col-3">  
                <button class="btn btn-success px-5 mb-2" type="submit">+  
SIMPAN</button>  
            </div>  
        </div>  
    </div>  
  
@php  
    // Definisi nama-nama bulan
```

```

    $b1 = "Januari"; $b2 = "Februari"; $b3 = "Maret"; $b4 = "April"; $b5 =
    "Mei"; $b6 = "Juni";
    $b7 = "Juli"; $b8 = "Agustus"; $b9 = "September"; $b10 = "Oktober"; $b11
    = "November"; $b12 = "Desember";
@endphp

@php
    // Nomor urut bulan
    $n1 = 1; $n2 = 2; $n3 = 3; $n4 = 4; $n5 = 5; $n6 = 6;
    $n7 = 7; $n8 = 8; $n9 = 9; $n10 = 10; $n11 = 11; $n12 = 12;
@endphp

<div class="container">
    <table class="table table-striped text-center">
        <thead class="bg-white">
            <tr>
                <th scope="col" rowspan="2">No</th>
                <th scope="col" rowspan="2">Bulan</th>
                <th scope="col" rowspan="2">Jumlah Penjualan</th>
                <th scope="col" rowspan="2">D Probabilitas</th>
                <th scope="col" rowspan="2">D P Kumulatif</th>
                <th scope="col" colspan="2">Interval</th>
            </tr>
            <tr>
                <th>Awal</th>
                <th>Akhir</th>
            </tr>
        </thead>
        <tbody>
            <tr>
                <th scope="row">{{ $n1 }}<input type="hidden" name="n1"
value="{{ $n1 }}"></th>
                <td>{{ $b1 }}<input type="hidden" name="b1" value="{{ $b1
}}"></td>
                <td>{{ $Januari }}<input type="hidden" name="januari"
value="{{ $Januari }}"></td>
                {{-- PENTING: Perhitungan $p1 dilakukan tanpa pembulatan.
number_format hanya untuk tampilan. --}}
                <td>
                    @php $p1 = ($Januari != 0 && $totalP != 0) ? ($Januari /
$totalP) : 0; @endphp
                    {{ number_format($p1, 2) }}
                </td>
                {{-- PENTING: $probkum diakumulasi dengan nilai presisi
penuh dari $p1. number_format hanya untuk tampilan. --}}
                <td>{{ number_format($probkum += $p1, 2) }}</td>
                <td>@php $awal1 = 0; @endphp {{ $awal1 }}<input
type="hidden" name="awal1" value="{{ $awal1 }}"></td>
                {{-- PENTING: $akhir1 dihitung dengan $probkum presisi
penuh, lalu dibulatkan dengan round() agar tetap integer. --}}
                <td>{{ $akhir1 = round($probkum * 100) }}<input
type="hidden" name="akhir1" value="{{ $akhir1 }}"></td>
            </tr>
            <tr>
                <th scope="row">{{ $n2 }}<input type="hidden" name="n2"
value="{{ $n2 }}"></th>

```

```

<td>{{ $b2 }}<input type="hidden" name="b2" value="{{ $b2
}}"></td>
<td>{{ $Februari }}<input type="hidden" name="februari"
value="{{ $Februari }}"></td>
<td>
@php $p2 = ($Februari != 0 && $totalP != 0) ? ($Februari /
$totalP) : 0; @endphp
{{ number_format($p2, 2) }}
</td>
<td>{{ number_format($probkum += $p2, 2) }}</td>
<td>@php $awal2 = $akhir1 + 1 @endphp {{ $awal2 }}<input
type="hidden" name="awal2" value="{{ $awal2 }}"></td>
<td>{{ $akhir2 = round($probkum * 100) }}<input
type="hidden" name="akhir2" value="{{ $akhir2 }}"></td>
</tr>
<tr>
<th scope="row">{{ $n3 }}<input type="hidden" name="n3"
value="{{ $n3 }}"></th>
<td>{{ $b3 }}<input type="hidden" name="b3" value="{{ $b3
}}"></td>
<td>{{ $Maret }}<input type="hidden" name="maret" value="{{
$Maret }}"></td>
<td>
@php $p3 = ($Maret != 0 && $totalP != 0) ? ($Maret /
$totalP) : 0; @endphp
{{ number_format($p3, 2) }}
</td>
<td>{{ number_format($probkum += $p3, 2) }}</td>
<td>@php $awal3 = $akhir2+1; @endphp {{ $awal3 }}<input
type="hidden" name="awal3" value="{{ $awal3 }}"></td>
<td>{{ $akhir3 = round($probkum * 100) }}<input
type="hidden" name="akhir3" value="{{ $akhir3 }}"></td>
</tr>
<tr>
<th scope="row">{{ $n4 }}<input type="hidden" name="n4"
value="{{ $n4 }}"></th>
<td>{{ $b4 }}<input type="hidden" name="b4" value="{{ $b4
}}"></td>
<td>{{ $April }}<input type="hidden" name="april" value="{{
$April }}"></td>
<td>
@php $p4 = ($April != 0 && $totalP != 0) ? ($April /
$totalP) : 0; @endphp
{{ number_format($p4, 2) }}
</td>
<td>{{ number_format($probkum += $p4, 2) }}</td>
<td>@php $awal4 = $akhir3+1; @endphp {{ $awal4 }}<input
type="hidden" name="awal4" value="{{ $awal4 }}"></td>
<td>{{ $akhir4 = round($probkum * 100) }}<input
type="hidden" name="akhir4" value="{{ $akhir4 }}"></td>
</tr>
<tr>
<th scope="row">{{ $n5 }}<input type="hidden" name="n5"
value="{{ $n5 }}"></th>
<td>{{ $b5 }}<input type="hidden" name="b5" value="{{ $b5
}}"></td>

```



```
 <td>{{ $Mei }}<input type="hidden" name="mei" value="{{ $Mei }}"></td>   @php $p5 = ($Mei != 0 && $totalP != 0) ? ($Mei / $totalP) : 0; @endphp {{ number_format($p5, 2) }} </td>  <td>{{ number_format($probkum += $p5, 2) }}</td>  @php $awal5 = $akhir4+1; @endphp {{ $awal5 }}<input type="hidden" name="awal5" value="{{ $awal5 }}"></td>  <td>{{ $akhir5 = round($probkum * 100) }}<input type="hidden" name="akhir5" value="{{ $akhir5 }}"></td> </tr> <td>{{ $b6 }}<input type="hidden" name="b6" value="{{ $b6 }}"></td>  <td>{{ $Juni }}<input type="hidden" name="juni" value="{{ $Juni }}"></td>  @php $p6 = ($Juni != 0 && $totalP != 0) ? ($Juni / $totalP) : 0; @endphp {{ number_format($p6, 2) }} </td>  <td>{{ number_format($probkum += $p6, 2) }}</td>  @php $awal6 = $akhir5+1; @endphp {{ $awal6 }}<input type="hidden" name="awal6" value="{{ $awal6 }}"></td>  <td>{{ $akhir6 = round($probkum * 100) }}<input type="hidden" name="akhir6" value="{{ $akhir6 }}"></td> </tr> <td>{{ $b7 }}<input type="hidden" name="b7" value="{{ $b7 }}"></td>  <td>{{ $Juli }}<input type="hidden" name="juli" value="{{ $Juli }}"></td>  @php $p7 = ($Juli != 0 && $totalP != 0) ? ($Juli / $totalP) : 0; @endphp {{ number_format($p7, 2) }} </td>  <td>{{ number_format($probkum += $p7, 2) }}</td>  @php $awal7 = $akhir6+1; @endphp {{ $awal7 }}<input type="hidden" name="awal7" value="{{ $awal7 }}"></td>  <td>{{ $akhir7 = round($probkum * 100) }}<input type="hidden" name="akhir7" value="{{ $akhir7 }}"></td> </tr> <td>{{ $b8 }}<input type="hidden" name="b8" value="{{ $b8 }}"></td>  <td>{{ $Agustus }}<input type="hidden" name="agustus" value="{{ $Agustus }}"></td>  <td> | | | | | | | | | | | | | | | | |
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```

        @php $p8 = ($Agustus != 0 && $totalP != 0) ? ($Agustus /
$totalP) : 0; @endphp
        {{ number_format($p8, 2) }}
    </td>
    <td>{{ number_format($probkum += $p8, 2) }}</td>
    <td>@php $awal8 = $akhir7+1; @endphp {{ $awal8 }}<input
type="hidden" name="awal8" value="{{ $awal8 }}"></td>
    <td>{{ $akhir8 = round($probkum * 100) }}<input
type="hidden" name="akhir8" value="{{ $akhir8 }}"></td>
</tr>
<tr>
    <th scope="row">{{ $n9 }}<input type="hidden" name="n9"
value="{{ $n9 }}"></th>
    <td>{{ $b9 }}<input type="hidden" name="b9" value="{{ $b9
}}"></td>
    <td>{{ $September }}<input type="hidden" name="september"
value="{{ $September }}"></td>
    <td>
        @php $p9 = ($September != 0 && $totalP != 0) ?
($September / $totalP) : 0; @endphp
        {{ number_format($p9, 2) }}
    </td>
    <td>{{ number_format($probkum += $p9, 2) }}</td>
    <td>@php $awal9 = $akhir8+1; @endphp {{ $awal9 }}<input
type="hidden" name="awal9" value="{{ $awal9 }}"></td>
    <td>{{ $akhir9 = round($probkum * 100) }}<input
type="hidden" name="akhir9" value="{{ $akhir9 }}"></td>
</tr>
    {{-- Oktober - Desember --}}
<tr>
    <th scope="row">{{ $n10 }}<input type="hidden" name="n10"
value="{{ $n10 }}"></th>
    <td>{{ $b10 }}<input type="hidden" name="b10" value="{{ $b10
}}"></td>
    <td>{{ $Oktober }}<input type="hidden" name="oktober"
value="{{ $Oktober }}"></td>
    <td>
        @php $p10 = ($Oktober != 0 && $totalP != 0) ? ($Oktober
/ $totalP) : 0; @endphp
        {{ number_format($p10, 2) }}
    </td>
    <td>{{ number_format($probkum += $p10, 2) }}</td>
    <td>@php $awal10 = $akhir9+1; @endphp {{ $awal10 }}<input
type="hidden" name="awal10" value="{{ $awal10 }}"></td>
    <td>{{ $akhir10 = round($probkum * 100) }}<input
type="hidden" name="akhir10" value="{{ $akhir10 }}"></td>
</tr>
<tr>
    <th scope="row">{{ $n11 }}<input type="hidden" name="n11"
value="{{ $n11 }}"></th>
    <td>{{ $b11 }}<input type="hidden" name="b11" value="{{ $b11
}}"></td>
    <td>{{ $November }}<input type="hidden" name="november"
value="{{ $November }}"></td>
    <td>
        @php $p11 = ($November != 0 && $totalP != 0) ?
($November / $totalP) : 0; @endphp

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```

                {{ number_format($p11, 2) }}
            </td>
            <td>{{ number_format($probkum += $p11, 2) }}</td>
            <td>@php $awal11 = $akhir10+1; @endphp {{ $awal11 }}<input
type="hidden" name="awal11" value="{{ $awal11 }}"></td>
            <td>{{ $akhir11 = round($probkum * 100) }}<input
type="hidden" name="akhir11" value="{{ $akhir11 }}"></td>
        </tr>
        <tr>
            <th scope="row">{{ $n12 }}<input type="hidden" name="n12"
value="{{ $n12 }}"></th>
            <td>{{ $b12 }}<input type="hidden" name="b12" value="{{ $b12
}}"></td>
            <td>{{ $Desember }}<input type="hidden" name="desember"
value="{{ $Desember }}"></td>
            <td>
                @php $p12 = ($Desember != 0 && $totalP != 0) ?
($Desember / $totalP) : 0; @endphp
                {{ number_format($p12, 2) }}
            </td>
            <td>{{ number_format($probkum += $p12, 2) }}</td>
            <td>@php $awal12 = $akhir11+1; @endphp {{ $awal12 }}<input
type="hidden" name="awal12" value="{{ $awal12 }}"></td>
            <td>{{ $akhir12 = round($probkum * 100) }}<input
type="hidden" name="akhir12" value="{{ $akhir12 }}"></td>
        </tr>
    </tbody>
</tfoot class="bg-dark">
    <tr>
        <td>--</td>
        <td>--</td>
        <td>{{ $totalP }}</td>
        <td>--</td>
        <td>{{-- Ini akan menampilkan 1.00 jika perhitungan presisi
penuh hasilnya 1 --}}
        <td>{{ number_format($probkum, 2) }}</td>
        <td>--</td>
        <td>--</td>
    </tr>
</tfoot>
</table>
</div>
</form>
@endsection

```

Lampiran 4 Source Code Halaman Hasil Prediksi

```

@extends('tampilan/index')
@section('title', 'Halaman Hasil Prediksi')
@section('container')
<div class="content-header">
    <div class="container-fluid">
        <div class="row mb-2">
            <div class="col-sm-6">
                <h1 class="m-0 text-dark">Hasil Prediksi Penjualan</h1>
            </div>
        </div>
    </div>
</div>

```

```

        </div>
    </div>
</div>
</div>

<div class="content">
    <div class="container-fluid">
        <div class="row">
            <div class="col-lg-12">

                <div class="card">
                    <div class="card-header">
                        {{-- Filter Form: Menggunakan flexbox untuk
menata elemen secara horizontal --}}
                        <form action="/hp" method="GET" class="flex
items-center"> {{-- Menghapus 'space-x-3' karena sudah ada 'gap' di CSS -
-}}
                            <select class="form-control bg-light"
name="jp">
                                <option value="1" {{ request('jp') == '1'
? 'selected' : '' }}>Yamalube</option>
                                <option value="2" {{ request('jp') == '2'
? 'selected' : '' }}>Mesran</option>
                                <option value="3" {{ request('jp') == '3'
? 'selected' : '' }}>Castrol</option>
                                <option value="4" {{ request('jp') == '4'
? 'selected' : '' }}>Top 1</option>
                            </select>
                            <select class="form-control bg-light"
name="thn">
                                <option value="2023" {{ request('thn') ==
'2023' ? 'selected' : '' }}>2023</option>
                                <option value="2024" {{ request('thn') ==
'2024' ? 'selected' : '' }}>2024</option>
                                <option value="2025" {{ request('thn') ==
'2025' ? 'selected' : '' }}>2025</option>
                                <option value="2027" {{ request('thn') ==
'2027' ? 'selected' : '' }}>2027</option>
                                <option value="2028" {{ request('thn') ==
'2028' ? 'selected' : '' }}>2028</option>
                                <option value="2029" {{ request('thn') ==
'2029' ? 'selected' : '' }}>2029</option>
                            </select>
                            <button class="btn btn-default bg-success"
type="submit"><i class="fas fa-search"></i></button>
                        </form>
                    </div>

                    {{-- Tabel --}}
                    <div class="card-body table-responsive">
                        {{-- Menambahkan ID ke thead agar sticky header
DataTables bekerja lebih baik --}}
                        <table id="table" class="table table-head text-
nowrap display nowrap table table-striped table-bordered">
                            <thead class="bg-primary">
                                <tr>
                                    <th style="width: 10px">No</th>

```

```

<th>Bulan</th>
<th>Terjual (Histori)</th>
<th>Bilangan Acak</th>
<th>Interval Awal</th>
<th>Interval Akhir</th>
<th>Hasil Prediksi</th>
<th>Penjualan Aktual Tahun {{
(int)request()->thn + 1 }}</th>

<th>APE (%)</th>
<th>Akurasi (%)</th> {{-- New Akurasi
column --}}

</tr>
</thead>
<tbody>
    @php
        $totalApe = 0;
        $totalAccuracy = 0;
        $hitungBulanDenganData = 0;
    @endphp

    @foreach ($hp as $dhp)
    <tr>
        <td>{{ $loop->iteration }}</td>
        <td>{{ $dhp->bulan }}</td>
        <td>{{ $dhp->terjual }}</td> {{--
Terjual (Histori) --}}

        <td>{{ $dhp->nilai }}</td> {{--
Bilangan Acak --}}

        <td>{{ $dhp->interval_awal }}</td>
        <td>{{ $dhp->interval_akhir }}</td>
        <td>
            @if(isset($dhp->hasil_prediksi))
                {{ $dhp->hasil_prediksi }}
            @else
                -
            @endif
        </td>
        <td>
            @if(isset($dhp->
>terjual_tahun_berikutnya))
                {{ $dhp->
>terjual_tahun_berikutnya }}
            @else
                N/A
            @endif
        </td>
        <td>
            @if(isset($dhp->hasil_prediksi)
&& isset($dhp->terjual_tahun_berikutnya) && $dhp->
>terjual_tahun_berikutnya != 0)
                @php
                    // Calculate APE:
                    $ape = abs(($dhp->
>hasil_prediksi - $dhp->terjual_tahun_berikutnya) / $dhp->
>terjual_tahun_berikutnya) * 100;
                    $totalApe += $ape;

```

```

$hitungBulanDenganData++;
$accuracy = 100 - $ape;

// Calculate Accuracy
$accuracy;

$totalAccuracy +=

@endphp
{{ number_format($ape, 2) }}
@else
@php
$ape = null; // Set APE
$accuracy = null; // Set
Accuracy to null if not calculable

@endphp
-
@endif
</td>
<td> {{-- Akurasi column --}}
@if(isset($accuracy))
{{ number_format($accuracy,
2) }}

@else
-
@endif
</td>
</tr>
@endforeach
</tbody>
</table>
</div>
{{-- End Tabel --}}

{{-- MAPE and Accuracy Box --}}
<div class="card-footer bg-white py-4 px-6 text-
center">

<div class="calculation-box-container">
<div class="calculation-box">
<h3>
@if($hitungBulanDenganData > 0)
MAPE (Mean Absolute Percentage
Error): {{ number_format($totalApe / $hitungBulanDenganData, 2) }}%
@else
MAPE (Mean Absolute Percentage
Error): Tidak ada data yang cukup untuk dihitung.
@endif
</h3>
</div>
<div class="calculation-box">
<h3>
@if($hitungBulanDenganData > 0)
Akurasi Rata-rata: {{
number_format($totalAccuracy / $hitungBulanDenganData, 2) }}%
@else
Akurasi Rata-rata: Tidak ada data
yang cukup untuk dihitung.
@endif
</h3>

```

```

        </div>
    </div>
</div>
{{-- End MAPE and Accuracy Box --}}

</div>
</div>
</div>
</div>
</div>
</div>
@endsection

@section('script')
<script>
    $(function () {
        $('[data-toggle="tooltip"]').tooltip();

        $('#table').DataTable({
            "paging": true,
            "lengthChange": false,
            "searching": false,
            "ordering": false,
            "info": false,
            "autoWidth": false,
            "responsive": true,
            "pageLength": 12, // Ini sudah benar untuk menampilkan 12
baris per halaman
            "scrollY": "800px", // *** PENTING: Sesuaikan dengan tinggi
di CSS '.table-responsive' ***
            "scrollCollapse": true, // Collapses the table if it's
smaller than scrollY
            // Menambahkan dom: 'Bfrtip' jika Anda ingin tombol (export,
print)
            // Atau cukup biarkan default jika tidak butuh tombol
DataTables
        });
    });
</script>
@endsection

```