

LAPORAN TEORI

PEMOGRAMAN WEB FRAMEWORK

PERTEMUAN 5 dan 6



Disusun Oleh :

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JURUSAN : Rekayasa Perangkat Lunak Aplikasi

UNIVERSITAS TEKNOLOGI DIGITAL INDONESIA

- Database

Database Jurusan

				id	jurusan	created_at	updated_at
<input type="checkbox"/>	Edit	Copy	Delete	1	Informatika	2020-03-03 00:00:00	2020-03-03 00:00:00
<input type="checkbox"/>	Edit	Copy	Delete	2	Sistem Informasi	2020-03-03 00:00:00	2020-03-03 00:00:00
<input type="checkbox"/>	Edit	Copy	Delete	3	Rekayasa Perangkat Lunak Aplikasi	2020-03-03 00:00:00	2020-03-03 00:00:00
<input type="checkbox"/>	Edit	Copy	Delete	4	Sistem Informasi Akuntansi	2020-03-03 00:00:00	2020-03-03 00:00:00
<input type="checkbox"/>	Edit	Copy	Delete	5	Teknologi Komputer	2020-03-03 00:00:00	2020-03-03 00:00:00

Database Mahasiswa

				nim	nama	alamat	tanggal_lahir	agama	jenis_kelamin	jurusan_id	created_at	updated_at
<input type="checkbox"/>	Edit	Copy	Delete	18001	Ana Rihana	Solo	2001-02-02		1 P	4	2024-04-23 15:03:38	2024-04-23 15:03:38
<input type="checkbox"/>	Edit	Copy	Delete	18002	Bambang	Yogyakarta	2001-10-10		1 L	3	2024-04-23 15:03:38	2024-04-23 15:03:38
<input type="checkbox"/>	Edit	Copy	Delete	18003	Bejo	Untung Suropati	2020-02-02		2 L	1	2024-04-23 15:03:38	2024-04-23 15:03:38
<input type="checkbox"/>	Edit	Copy	Delete	18004	Untung Suropati	Bantul	2020-02-02		1 L	4	2024-04-23 15:03:38	2024-04-23 15:03:38
<input type="checkbox"/>	Edit	Copy	Delete	18005	Yuni Zahra	Bandung	2020-03-02		1 P	1	2024-04-23 15:03:38	2024-04-30 07:05:53
<input type="checkbox"/>	Edit	Copy	Delete	22321	jopih	seturan	2003-01-24		3 P	4	2024-04-30 07:29:45	2024-04-30 07:29:45

- Models

jurusan.php

```
<?php
namespace App\Models\models;
use Illuminate\Database\Eloquent\Model;
class Jurusan extends Model
{
    protected $table = 'jurusan'; //utk menghubungkan ke tabel
    protected $primaryKey = 'id';
    protected $fillable = ['id', 'jurusan'];
}
```

mahasiswa.php

```
<?php
namespace App\Models\models;
use Illuminate\Database\Eloquent\Model;
class Mahasiswa extends Model
{
    protected $table = 'mahasiswa'; //utk menghubungkan ke tabel mahasiswa
    protected $primaryKey = 'nim';
    protected $fillable = ['nim', 'nama', 'alamat', 'tanggal_lahir',
        'agama', 'jenis_kelamin', 'jurusan_id'];
    //method kode ke agama
    public function ag($kode)
    {
        if ($kode==1) return "Islam";
        else if ($kode==2) return "Protestan";
        else if ($kode==3) return "Katholik";
        else if ($kode==4) return "Hindu";
        else if ($kode==5) return "Budha";
        else return "Lainnya";
    }
    //relasi obyek
    public function getJurusan()
    {
        return $this->belongsTo('App\Models\models\Jurusan', 'jurusan_id');
    }
}
```

- **Controller**

MahasiswaController.php

```

<?php
namespace App\Http\Controllers;
use App\Models\models\Jurusan;
use Illuminate\Http\Request;
use App\Models\models\Mahasiswa;
class MahasiswaController extends Controller
{
    /**
     * Display a listing of the resource.
     *
     * @return \Illuminate\Http\Response
     */
    public function index()
    {
        $mhs = Mahasiswa::all();
        return view('mahasiswa.index', compact('mhs'));
    }
    /**
     * Show the form for creating a new resource.
     *
     * @return \Illuminate\Http\Response
     */
    public function create()
    {
        $jur=Jurusan::all();
        return view('mahasiswa.create',compact('jur'));
    }
    /**
     * Store a newly created resource in storage.
     *
     * @param \Illuminate\Http\Request $request
     * @return \Illuminate\Http\Response
     */
    public function store(Request $request)
    {
        $this->validate($request, [
            'nim' => 'required',
            'nama' => 'required',
            'alamat' => 'required',
            'tanggal_lahir' => 'required',
            'agama' => 'required',
            'jurusan_id' => 'required',
            'jenis_kelamin' => 'required',
        ]);
        $mhs = new Mahasiswa;
    }
}

```

```

$mhs->nim = $request->nim;
$mhs->nama = $request->nama;
$mhs->alamat = $request->alamat;
$mhs->tanggal_lahir= $request->tanggal_lahir;
$mhs->agama = $request->agama;
$mhs->jenis_kelamin= $request->jenis_kelamin;
$mhs->jurusan_id = $request->jurusan_id;
$mhs->save();
return redirect()->route('mahasiswa.index')
->with('message',
'Mahasiswa baru berhasil ditambahkan!');
}
/**
 * Display the specified resource.
 *
 * @param int $id
 * @return \Illuminate\Http\Response
 */
public function show($id)
{
//
}
/**
 * Show the form for editing the specified resource.
 *
 * @param int $id
 * @return \Illuminate\Http\Response
 */
public function edit($id)
{
    $mhs = Mahasiswa::find($id);
    $jur = Jurusan::all();
    return view('mahasiswa.edit',compact('mhs','jur'));
}
/**
 * Update the specified resource in storage.
 *
 * @param \Illuminate\Http\Request $request
 * @param int $id
 * @return \Illuminate\Http\Response
 */
public function update(Request $request, $id)
{
    $this->validate($request, [
        'nim' => 'required',

```

```

        'nama' => 'required',
        'alamat' => 'required',
        'tanggal_lahir' => 'required',
        'agama' => 'required',
        'jurusan_id' => 'required',
        'jenis_kelamin' => 'required',
    ]);
    $mhs = Mahasiswa::find($id);
    $mhs->nama = $request->nama;
    $mhs->alamat = $request->alamat;
    $mhs->tanggal_lahir = $request->tanggal_lahir;
    $mhs->agama = $request->agama;
    $mhs->jenis_kelamin = $request->jenis_kelamin;
    $mhs->jurusan_id = $request->jurusan_id;
    $mhs->save();
    return redirect()->route('mahasiswa.index')
        ->with('message',
            'Mahasiswa berhasil diubah!');
    }
    /**
     * Remove the specified resource from storage.
     *
     * @param int $id
     * @return \Illuminate\Http\Response
     */
    public function destroy($id)
    {
        // Temukan data mahasiswa berdasarkan ID
        $mahasiswa = Mahasiswa::findOrFail($id);

        // Hapus data mahasiswa
        $mahasiswa->delete();

        // Redirect kembali ke halaman daftar mahasiswa dengan pesan sukses
        return redirect()->route('mahasiswa.index')->with('success', 'Mahasiswa berhasil dihapus.');
```

- View

app.blade.php

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width,
initial-scale=1.0">
  <meta http-equiv="X-UA-Compatible" content="ie=edge">
  <link href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.6/css/bootstrap
.min.css" rel="stylesheet">
  <title>Propinisi - CRUD</title>
  <style>
    .martop-sm {margin-top: 15px;}
    .martop-lg {margin-top: 70px;}
  </style>
</head>
<body>
  <div class="container martop-lg">
    <div class="panel panel-default">
      <div class="panel-body">@yield('content')</div>
    </div>
  </div>

  <script src=
  "https://maxcdn.bootstrapcdn.com/bootstrap/3.3.6/js/bootstrap.min.js">
</script>
</body>
</html>
```

index.blade.php.

```
@extends('layouts.app')
@section('content')
<h4>Menajemen Tabel Mahasiswa</h4>
<a href="{{ route('mahasiswa.create') }}"
class="btn btn-info btn-sm">Mahasiswa Baru</a>
<table class="table table-responsive mtop-sm">
<thead>
<th>NIM</th>
<th>NAMA</th>
<th>ALAMAT</th>
<th>TGL LHR</th>
<th>AGAMA</th>
<th>JENIS KL</th>
<th>JURUSAN</th>
<th>ACTION</th>
</thead>
<tbody>
@foreach ($mhs as $m)
<tr>
<td>{{ $m->nim }}</td>
<td>{{ $m->nama }}</td>
<td>{{ $m->alamat }}</td>
<td>{{ $m->tanggal_lahir }}</td>
<td>{{ $m->ag($m->agama) }}</td>
<td>{{ $m->jenis_kelamin=="L" ?
"Laki-laki" : "Perempuan" }}</td>
<td>{{ $m->getJurusan->jurusan }}</td>
<td>
<form action="{{ route('mahasiswa.destroy', $m->nim) }}"
method="post">
{{ csrf_field() }}
{{ method_field('DELETE') }}
<a href="{{ route('mahasiswa.edit', $m->nim) }}"
class="btn btn-warning btn-sm">Ubah</a>
<button type="submit"
class="btn btn-danger btn-sm">Hapus</button>
</form>
</td>
</tr>
@endforeach
</tbody>
</table>
@endsection
```


web.php

```
<?php

use Illuminate\Support\Facades\Route;
use App\Http\Controllers\MahasiswaController;

/*
|-----
| Web Routes
|-----
|
| Here is where you can register web routes for your application. These
| routes are loaded by the RouteServiceProvider within a group which
| contains the "web" middleware group. Now create something great!
|
*/

Route::get('/', function () {
    return view('welcome');
});
Route::resource('/mahasiswa', MahasiswaController::class);
```

- Menambah Data/Rekaman

create.blade.php

```
@extends('layouts.app')
@section('content')
<h4>Tambah Masiswa Baru</h4>
<form action="{{ route('mahasiswa.store') }}" method="post">
    {{csrf_field()}}
    @if (count($errors) > 0)
    <div class="alert alert-danger">
        Terdapat beberapa kasalahan pada saat mengisi yang harus diperbiki.<br><br>
        <ul>
            @foreach ($errors->all() as $error)
            <li>{{ $error }}</li>
            @endforeach
        </ul>
    </div>
    @endif
    <div class="form-group">
        <label for="nim" class="control-label">Nomor Mahasiswa</label>
        <input type="text" class="form-control" name="nim"
        placeholder="nomor mahasiswa">
    </div>

    <div class="form-group">
        <label for="nama" class="control-label">Nama</label>
        <input type="text" class="form-control" name="nama"
        placeholder="nama">
    </div>
    <div class="form-group">
        <label for="alamat" class="control-label">Alamat</label>
        <input type="text" class="form-control" name="alamat"
        placeholder="alamat">
    </div>
    <div class="form-group">
        <label for="tanggal_lahir" class="control-label">Tanggal Lahir</label>
        <input type="date" class="form-control" name="tanggal_lahir"
        placeholder="tanggal lahir">
    </div>

    <div class="form-group">
        <label>Jenis Kelamin :</label>
        <input type="radio" name="jenis_kelamin" value="L"> Laki-laki
        <input type="radio" name="jenis_kelamin" value="P"> Perempuan
    </div>
</form>
</section>
```

```

</div>
<div class="form-group">
<label for="agama">Agama</label>

<select class="form-control" name="agama">
<option value="">--pilihan--</option>
<option value="1">Islam</option>
<option value="2">Protestan</option>
<option value="3">Katholik</option>
<option value="4">Hindu</option>
<option value="5">Buda</option>
</select>
</div>
<div class="form-group">
<label for="jurusan_id">Jurusan</label>
<select class="form-control" name="jurusan_id">
<option value="">--pilihan--</option>
@foreach($jur as $j)
<option value="{{ $j->id }}">{{ $j->jurusan }}</option>
@endforeach
</select>
</div>

<div class="form-group">
<button type="submit" class="btn btn-info">Simpan</button>
<a href="{{ route('mahasiswa.index') }}"
class="btn btn-default">Kembali</a>
</div>
</form>
@endsection

```

File Ubah Rekaman

```
@extends('layouts.app')
@section('content')
<h4>Mengubah Masiswa Baru</h4>
<form action="{{ route('mahasiswa.update',$mhs->nim) }}" method="post">
    {{csrf_field()}}
    {{ method_field('PUT') }}
    @if (count($errors) > 0)
    <div class="alert alert-danger">
        Terdapat beberapa kasalahan pada saat mengisi yang harus diperbiki.<br><br>
        <ul>
            @foreach ($errors->all() as $error)
            <li>{{ $error }}</li>
            @endforeach
        </ul>
    </div>
    @endif
    <div class="form-group">
        <label for="nim" class="control-label">Nomor Mahasiswa</label>
        <input type="text" class="form-control" name="nim"
        value="{{ $mhs->nim }}">
    </div>

    <div class="form-group">
        <label for="nama" class="control-label">Nama</label>
        <input type="text" class="form-control" name="nama"
        value="{{ $mhs->nama }}">
    </div>
    <div class="form-group">
        <label for="alamat" class="control-label">Alamat</label>
        <input type="text" class="form-control" name="alamat"
        value="{{ $mhs->alamat }}">
    </div>
    <div class="form-group">
        <label for="tanggal_lahir" class="control-label">Tanggal Lahir</label>
        <input type="date" class="form-control" name="tanggal_lahir"
        value="{{ $mhs->tanggal_lahir }}">
    </div>

    <div class="form-group">
        <label for="jenis_kelamin" class="control-label">Jenis Kelamin :</label>
        <input type="radio" name="jenis_kelamin" value="L"
        {{ $mhs->jenis_kelamin == 'L' ? 'checked' : '' }}> Laki-laki<br>
        <input type="radio" name="jenis_kelamin" value="P"
        {{ $mhs->jenis_kelamin == 'P' ? 'checked' : '' }}> Perempuan<br>
    </div>
</form>
```

```

</div>
<div class="form-group">
<label for="agama">Agama</label>
<select class="form-control" name="agama">
<option value="">--pilihan--</option>
<option value="1" {{ $mhs->agama == 1 ? 'selected' : '' }}>Islam</option>
<option value="2" {{ $mhs->agama == 2 ? 'selected' : '' }}>Protestan</option>
<option value="3" {{ $mhs->agama == 3 ? 'selected' : '' }}>Katholik</option>
<option value="4" {{ $mhs->agama == 4 ? 'selected' : '' }}>Hindhu</option>
<option value="5" {{ $mhs->agama == 5 ? 'selected' : '' }}>Buda</option>
</select>
</div>
<div class="form-group">
<label for="jurusan_id">Jurusan</label>
<select class="form-control" name="jurusan_id">
<option value="">--pilihan--</option>
@foreach($jur as $j)
<option disable="true" value="{{ $j->id }}"
{{ ($j->id == $mhs->jurusan_id) ? 'selected' : '' }}>{{ $j->jurusan }}
</option>
@endforeach
</select>
</div>
<div class="form-group">
<button type="submit" class="btn btn-info">Simpan</button>
<a href="{{ route('mahasiswa.index') }}"
class="btn btn-default">Kembali</a>
</div>
</form>
@endsection
<!-- edit.blade.php -->

<form id="deleteForm" action="{{ route('mahasiswa.destroy', $mhs->nim) }}" method="POST">
    {{ csrf_field() }}
    {{ method_field('DELETE') }}

    <!-- Tombol hapus dengan konfirmasi JavaScript -->
    <button type="button" class="btn btn-danger" onclick="confirmDelete()">
        | Hapus
    </button>
</form>

```

```

<script>
function confirmDelete() {
    if (confirm('Apakah Anda yakin ingin menghapus mahasiswa ini? Semua data terkait akan dihapus secara permanen.')) {
        // Jika pengguna menyetujui, kirimkan form penghapusan
        document.getElementById('deleteForm').submit();
    }
}
</script>

```

- **Tampilan**

Data.

Menajemen Tabel Mahasiswa

Mahasiswa Baru

NIM	NAMA	ALAMAT	TGL LHR	AGAMA	JENIS KL	JURUSAN	ACTION
18001	Ana Rihana	Solo	2001-02-02	Islam	Perempuan	Sistem Informasi Akuntansi	<button>Ubah</button> <button>Hapus</button>
18002	Bambang	Yogyakarta	2001-10-10	Islam	Laki-laki	Rekayasa Perangkat Lunak Aplikasi	<button>Ubah</button> <button>Hapus</button>
18003	Bejo	Untung Suropati	2020-02-02	Protestan	Laki-laki	Informatika	<button>Ubah</button> <button>Hapus</button>
18004	Untung Suropati	Bantul	2020-02-02	Islam	Laki-laki	Sistem Informasi Akuntansi	<button>Ubah</button> <button>Hapus</button>
18005	Yuni Zahra	Bandung	2020-03-02	Islam	Perempuan	Informatika	<button>Ubah</button> <button>Hapus</button>
22321	Jopin	seturan	2003-01-24	Katholik	Perempuan	Sistem Informasi Akuntansi	<button>Ubah</button> <button>Hapus</button>

Tambah Mahasiswa

Tambah Masiswa Baru

Nomor Mahasiswa

23121

Nama

ajek

Alamat

gedongan

Tanggal Lahir

23/02/2002

Jenis Kelamin :

☐ Laki-laki ☒ Perempuan

Agama

Buda

Jurusan

Rekayasa Perangkat Lunak Aplikasi

Simpan

Kembali

Data setelah di tambah

22321	Jopin	seturan	24-01-2003	Katholik	Perempuan	Sistem Informasi Akuntansi	Ubah	Hapus
23121	ajek	gedongan	23-02-2002	Budha	Perempuan	Rekayasa Perangkat Lunak Aplikasi	Ubah	Hapus
18005	Yuni Zahra	Bandung	2020-03-02	Islam	Perempuan	Informatika	Ubah	Hapus
22302	Muhammad Arif Rifal	kotagede	2024-04-30	Islam	Laki-laki	Rekayasa Perangkat Lunak Aplikasi	Ubah	Hapus