TP MOD 14 WEBPRO

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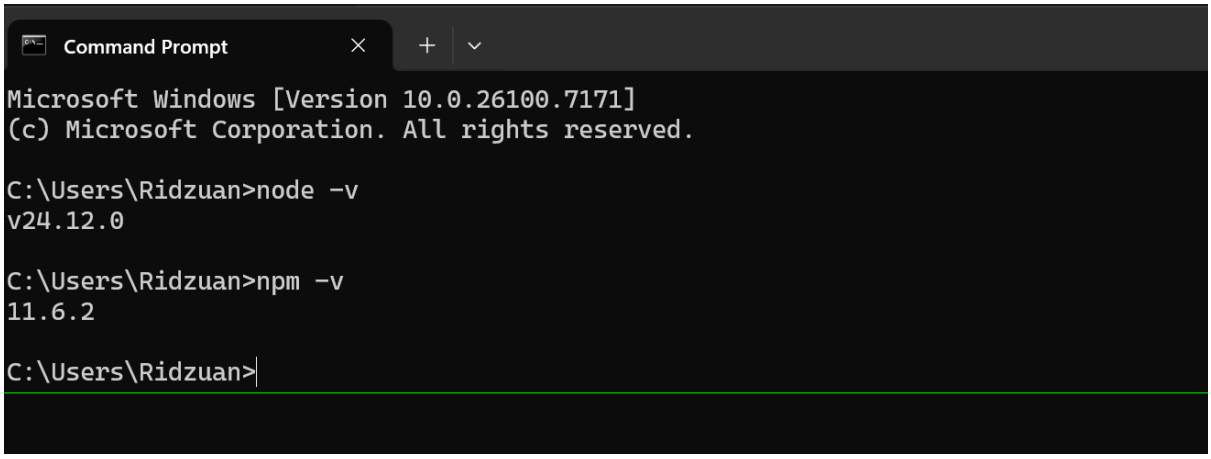
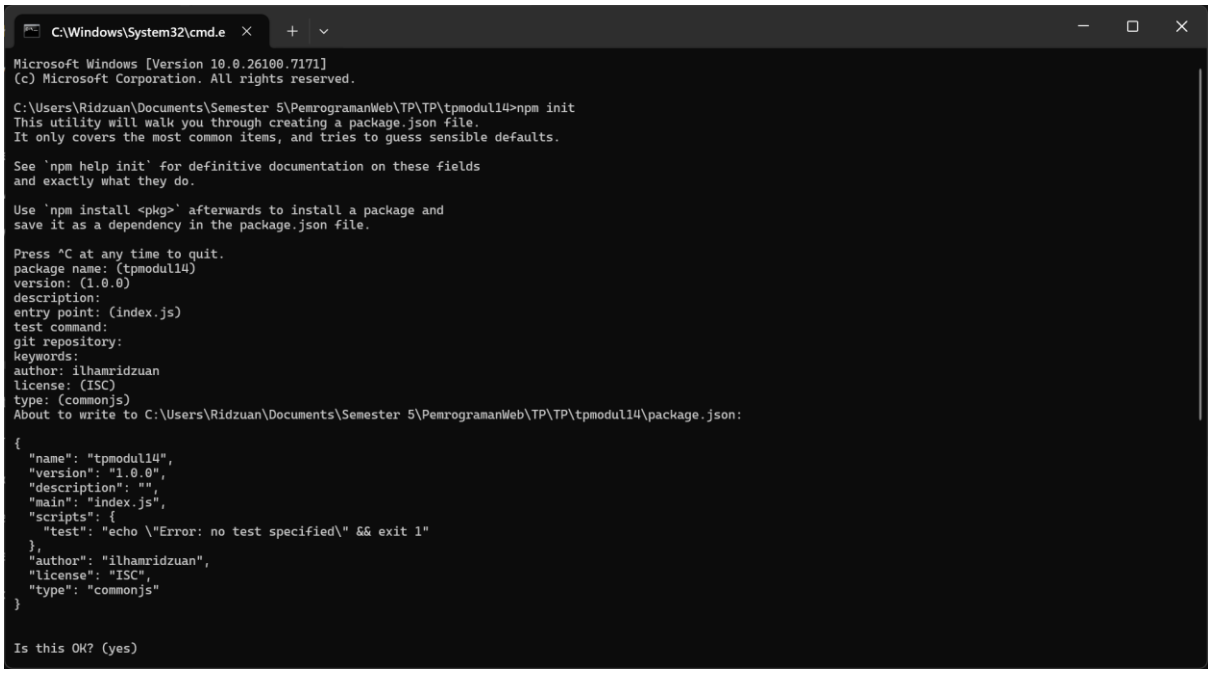
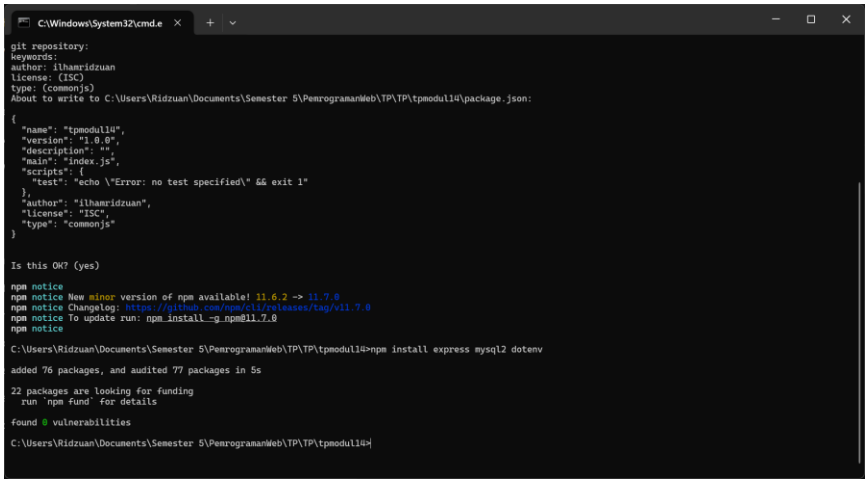
1. Download node.js



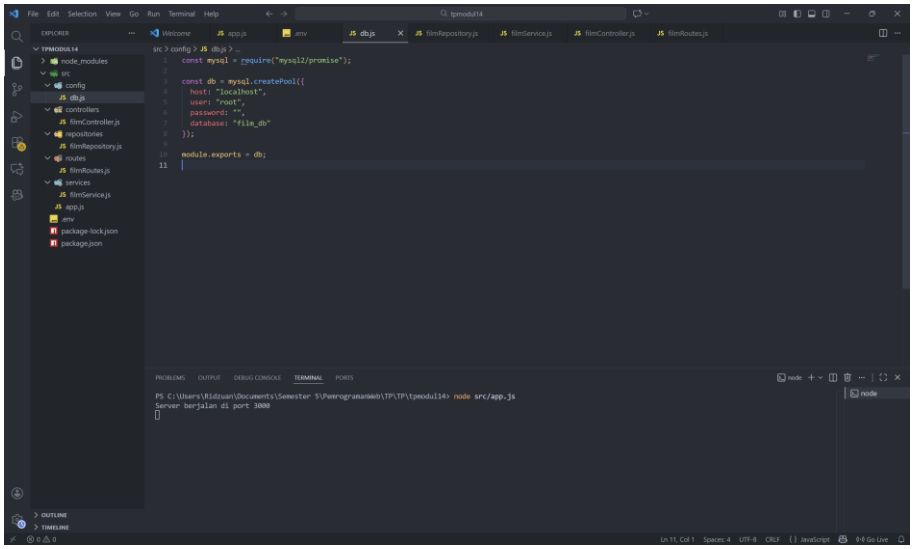
2.

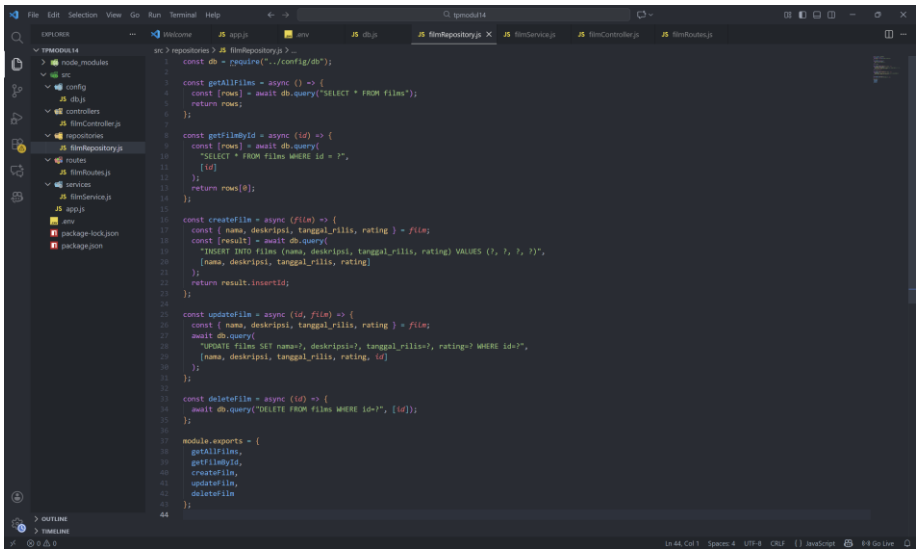


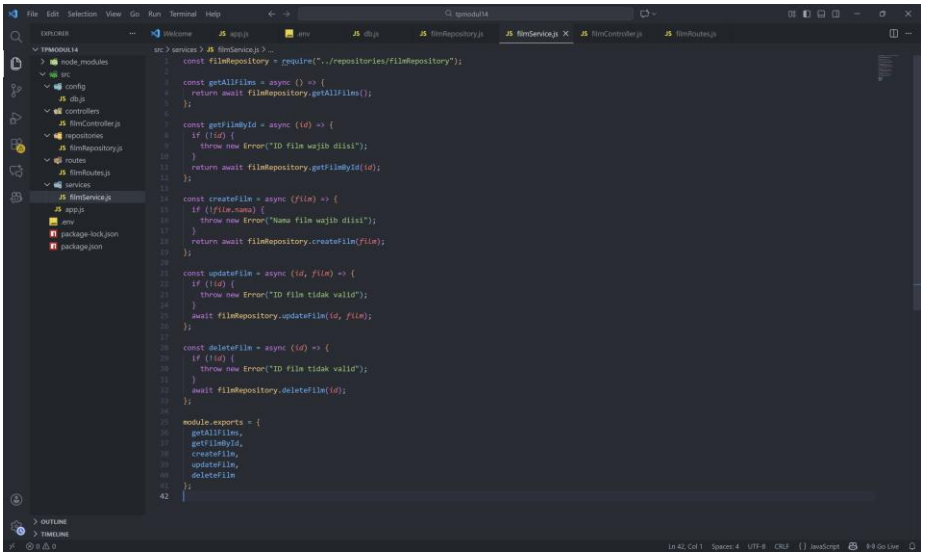
3. Install express & dependency tambahan



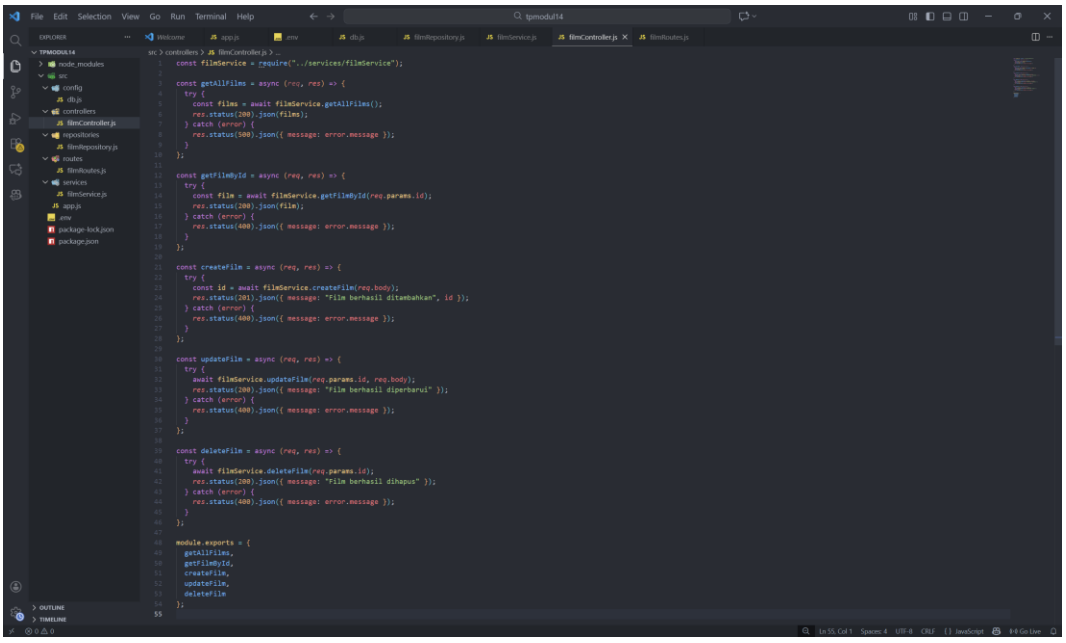
4. Project API FILM



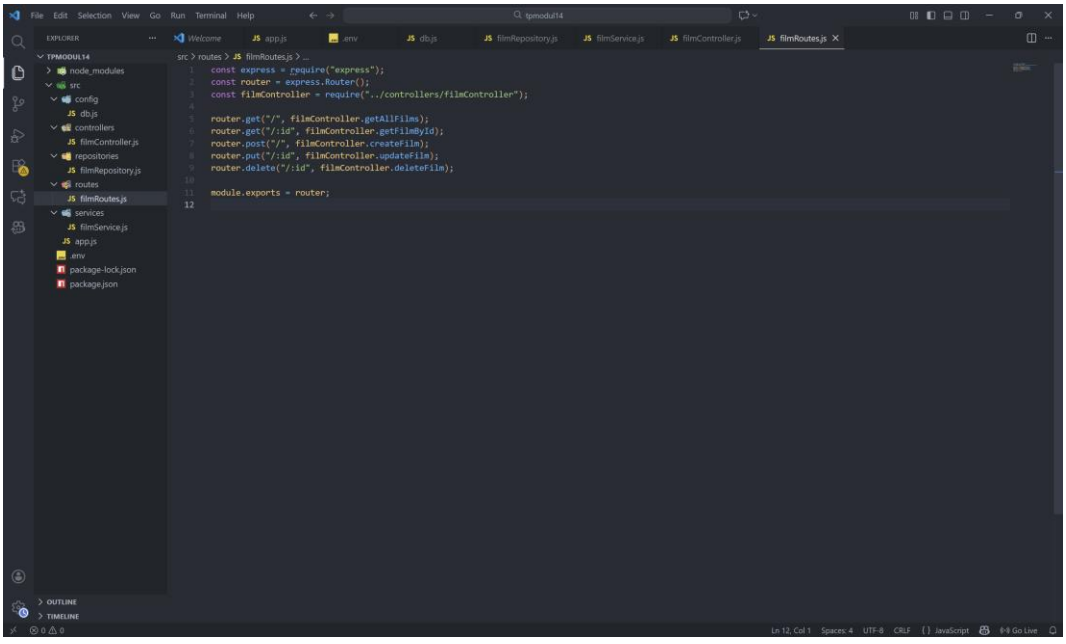




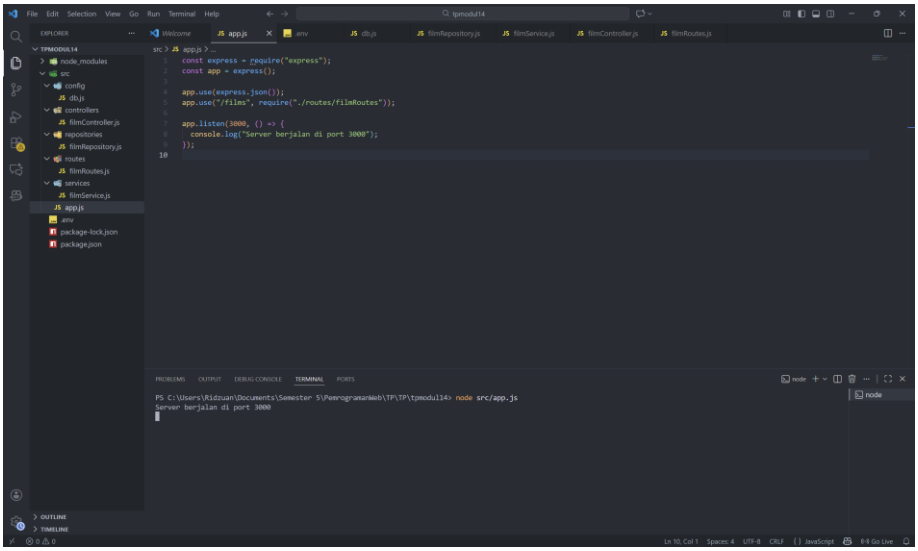
```
const filmRepository = require("../repositories/filmRepository");

const getAllFilms = async () => {
  return await filmRepository.getAllFilms();
};

const getFilmById = async (id) => {
  if (!id) {
    throw new Error("ID film wajib diisi");
  }
  return await filmRepository.getFilmById(id);
};

const createFilm = async (film) => {
  if (!film.nama) {
    throw new Error("Nama film wajib diisi");
  }
  return await filmRepository.createFilm(film);
};

const updateFilm = async (id, film) => {
  if (!id) {
    throw new Error("ID film tidak valid");
  }
  await filmRepository.updateFilm(id, film);
};

const deleteFilm = async (id) => {
  if (!id) {
    throw new Error("ID film tidak valid");
  }
  await filmRepository.deleteFilm(id);
};

module.exports = {
  getAllFilms,
  getFilmById,
  createFilm,
  updateFilm,
  deleteFilm
};
```



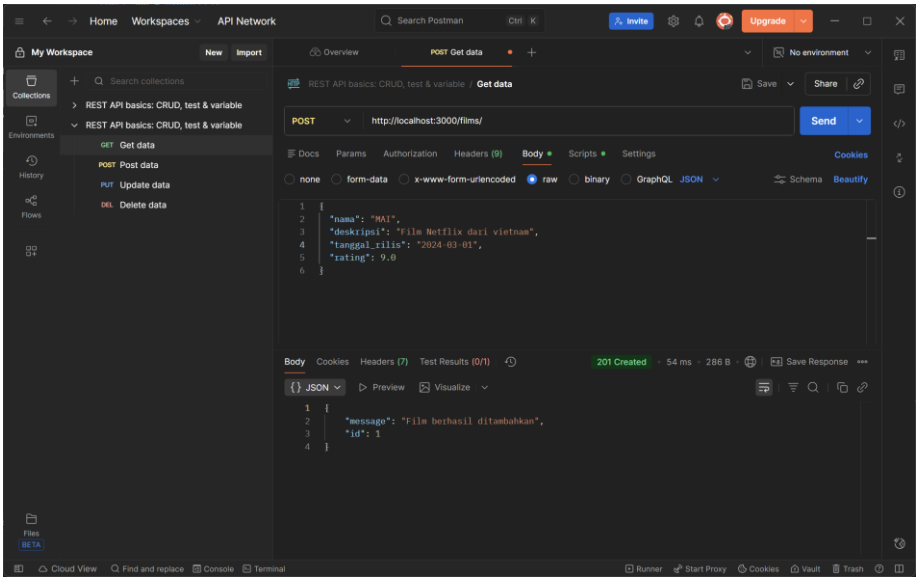
```
const filmService = require("../services/filmService");

const getAllFilms = async (req, res) => {
  try {
    const films = await filmService.getAllFilms();
    res.status(200).json(films);
  } catch (error) {
    res.status(500).json({ message: error.message });
  }
};

const getFilmById = async (req, res) => {
  try {
    const film = await filmService.getFilmById(req.params.id);
    res.status(200).json(film);
  } catch (error) {
    res.status(400).json({ message: error.message });
  }
};

const createFilm = async (req, res) => {
  try {
    const id = await filmService.createFilm(req.body);
    res.status(201).json({ message: "Film berhasil ditambahkan", id });
  } catch (error) {
    res.status(400).json({ message: error.message });
  }
};

const updateFilm = async (req, res) => {
  try {
    await filmService.updateFilm(req.params.id, req.body);
    res.status(200).json({ message: "Film berhasil diperbarui" });
  } catch (error) {
    res.status(400).json({ message: error.message });
  }
};

const deleteFilm = async (req, res) => {
  try {
    await filmService.deleteFilm(req.params.id);
    res.status(200).json({ message: "Film berhasil dihapus" });
  } catch (error) {
    res.status(400).json({ message: error.message });
  }
};

module.exports = {
  getAllFilms,
  getFilmById,
  createFilm,
  updateFilm,
  deleteFilm
};
```

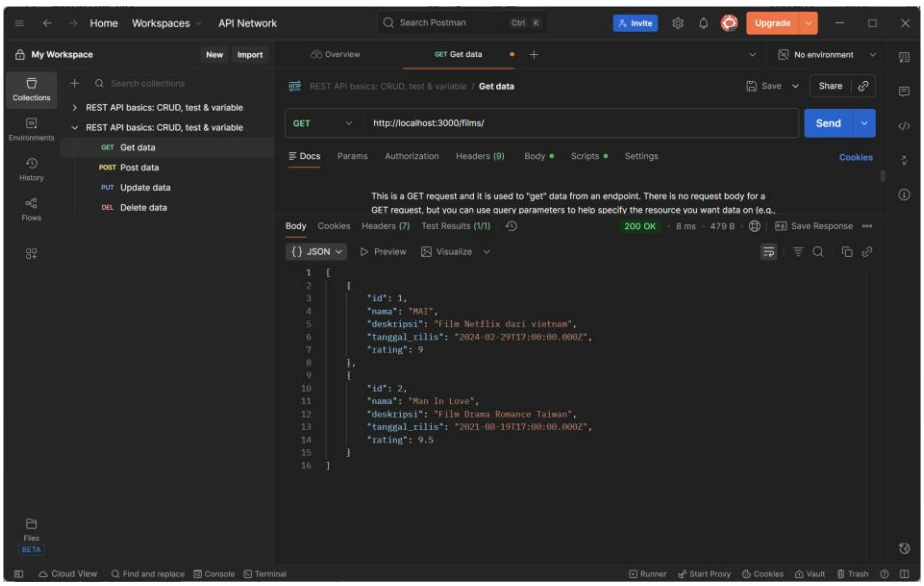


```
const express = require("express");
const router = express.Router();
const filmController = require("../controllers/filmController");

router.get("/", filmController.getAllFilms);
router.get("/:id", filmController.getFilmById);
router.post("/", filmController.createFilm);
router.put("/:id", filmController.updateFilm);
router.delete("/:id", filmController.deleteFilm);

module.exports = router;
```


const express = require("express");
const app = express();
app.use(express.json());
app.use("/films", require("./routes/filmRoutes"));
app.listen(3000, () => {
console.log("Server berjalan di port 3000");
});
PS C:\Users\Ridzuan\Documents\Semester 5\Pemrogramanweb\TP\TP\tpmodul14> node src/app.js
Server berjalan di port 3000

TESTING API


Home
Workspaces
API Network
Search Postman
Invite
Upgrade
My Workspace
New
Import
Collections
Environments
History
Flows
REST API basics: CRUD, test & variable
GET Get data
POST Post data
PUT Update data
DEL Delete data
POST Get data
No environment
Save
Share
POST
http://localhost:3000/films/
Send
Docs
Params
Authorization
Headers (9)
Body
Scripts
Settings
Cookies
none
form-data
x-www-form-urlencoded
raw
binary
GraphQL
JSON
Schema
Beautify
{
"nama": "MAI",
"deskripsi": "Film Netflix dari vietnam",
"tanggal_rilis": "2024-03-01",
"rating": 9.0
}
Body
Cookies
Headers (7)
Test Results (0/1)
201 Created
54 ms
286 B
Save Response
JSON
Preview
Visualize
{
"message": "Film berhasil ditambahkan",
"id": 1
}
Files
BETA
Cloud View
Find and replace
Console
Terminal
Runner
Start Proxy
Cookies
Vault
Trash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GET Get data
No environment
Save
Share
GET
http://localhost:3000/films/
Send
Docs
Params
Authorization
Headers (9)
Body
Scripts
Settings
Cookies
This is a GET request and it is used to "get" data from an endpoint. There is no request body for a GET request, but you can use query parameters to help specify the resource you want data on (e.g.,
Body
Cookies
Headers (7)
Test Results (1/1)
200 OK
8 ms
479 B
Save Response
JSON
Preview
Visualize
[
{
"id": 1,
"nama": "MAI",
"deskripsi": "Film Netflix dari vietnam",
"tanggal_rilis": "2024-02-29T17:00:00.000Z",
"rating": 9
},
{
"id": 2,
"nama": "Man In Love",
"deskripsi": "Film Drama Romance Taiwan",
"tanggal_rilis": "2021-08-19T17:00:00.000Z",
"rating": 9.5
}
]
Files
BETA
Cloud View
Find and replace
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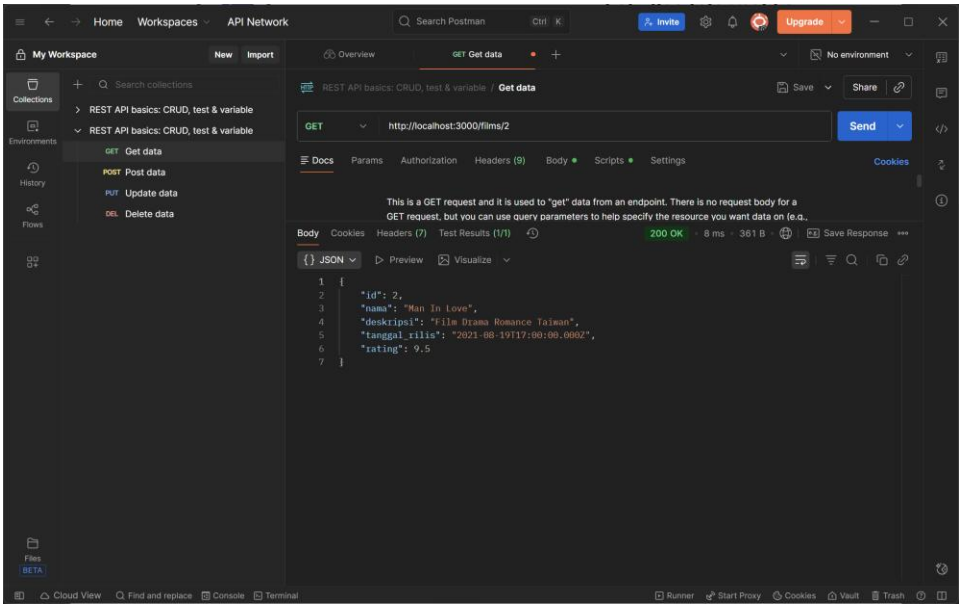
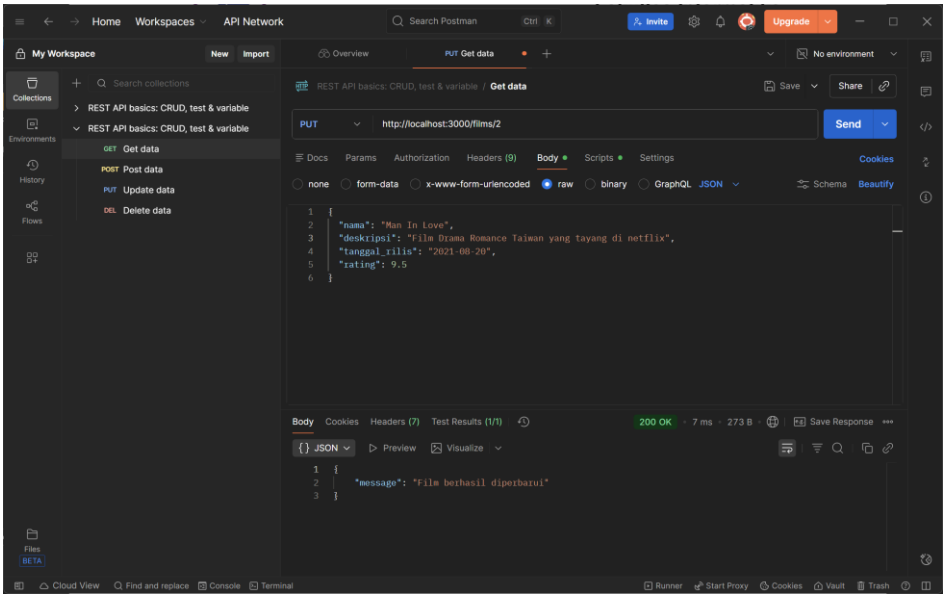
Start Proxy
Cookies
Vault
Trash


Home Workspaces API Network
Search Postman Ctrl K
Invite Upgrade
My Workspace New Import
Collections Environments History Flows
REST API basics: CRUD, test & variable
GET Get data
POST Post data
PUT Update data
DEL Delete data
Overview GET Get data
No environment
REST API basics: CRUD, test & variable / Get data
Save Share
GET http://localhost:3000/films/2
Send
Docs Params Authorization Headers (9) Body Scripts Settings Cookies
This is a GET request and it is used to "get" data from an endpoint. There is no request body for a GET request, but you can use query parameters to help specify the resource you want data on (e.g.,
Body Cookies Headers (7) Test Results (1/1)
200 OK 8 ms 361 B Save Response
{ } JSON Preview Visualize
{
"id": 2,
"nama": "Man In Love",
"deskripsi": "Film Drama Romance Taiwan",
"tanggal_rilis": "2021-08-19T17:00:00.000Z",
"rating": 9.5
}
Files BETA
Cloud View Find and replace Console Terminal
Runner Start Proxy Cookies Vault Trash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Overview PUT Get data
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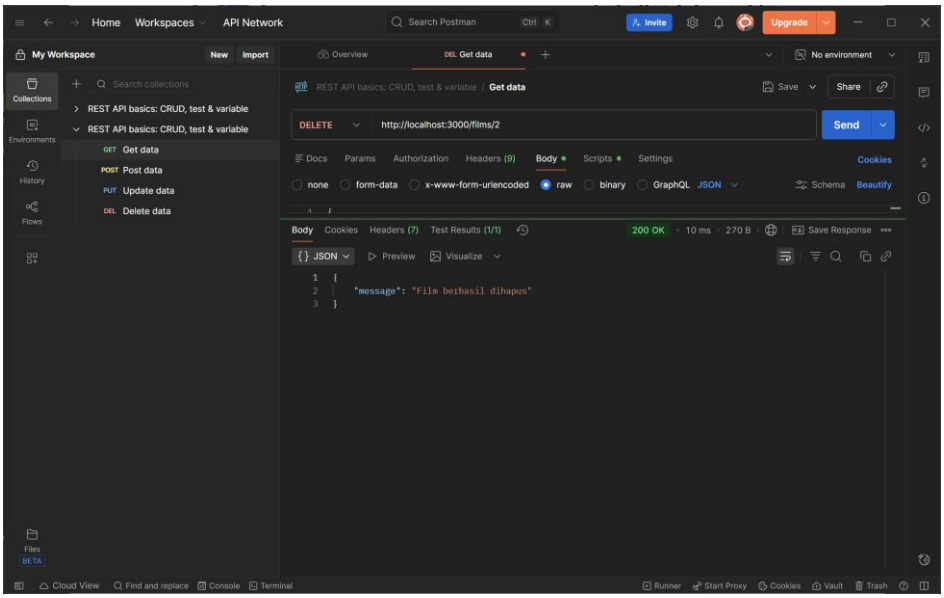
REST API basics: CRUD, test & variable / Get data
Save Share
PUT http://localhost:3000/films/2
Send
Docs Params Authorization Headers (9) Body Scripts Settings Cookies
none form-data x-www-form-urlencoded raw binary GraphQL JSON
Schema Beautify
{
"nama": "Man In Love",
"deskripsi": "Film Drama Romance Taiwan yang tayang di netflix",
"tanggal_rilis": "2021-08-20",
"rating": 9.5
}
Body Cookies Headers (7) Test Results (1/1)
200 OK 7 ms 273 B Save Response
{ } JSON Preview Visualize
{
"message": "Film berhasil diperbarui"
}
Files BETA
Cloud View Find and replace Console Terminal
Runner Start Proxy Cookies Vault Trash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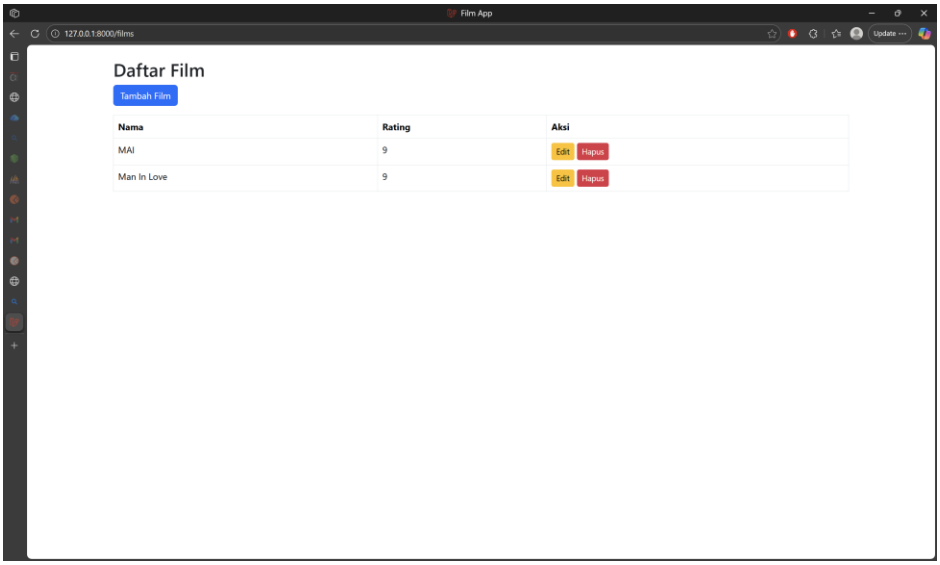
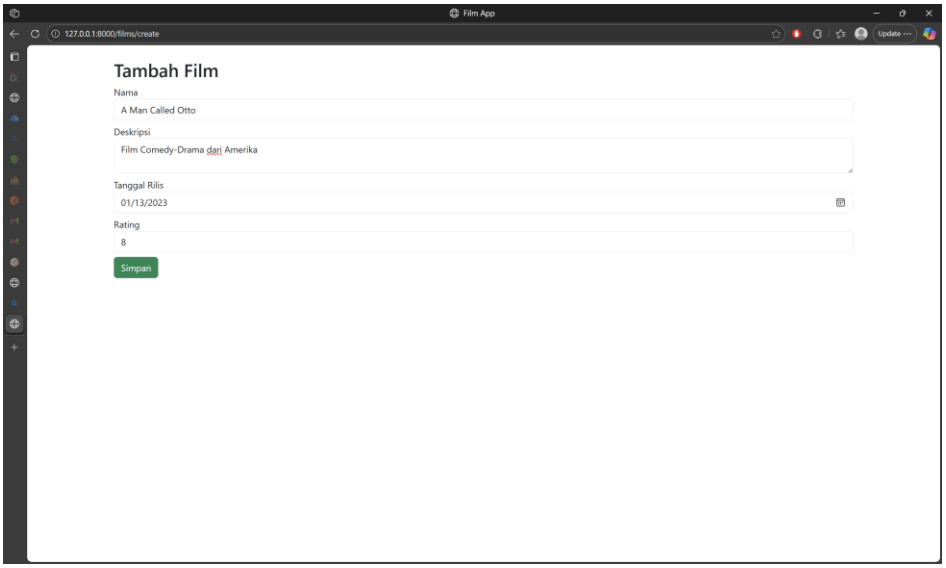
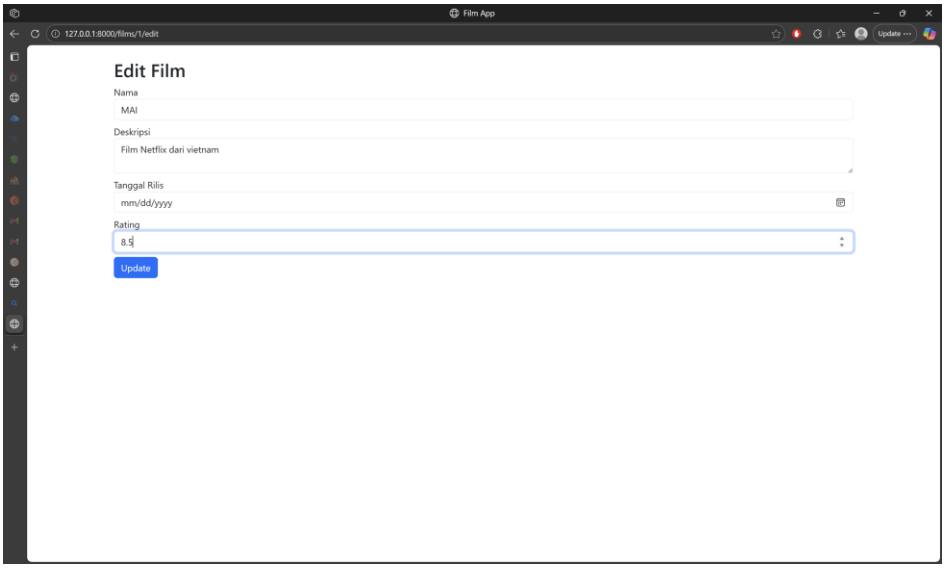
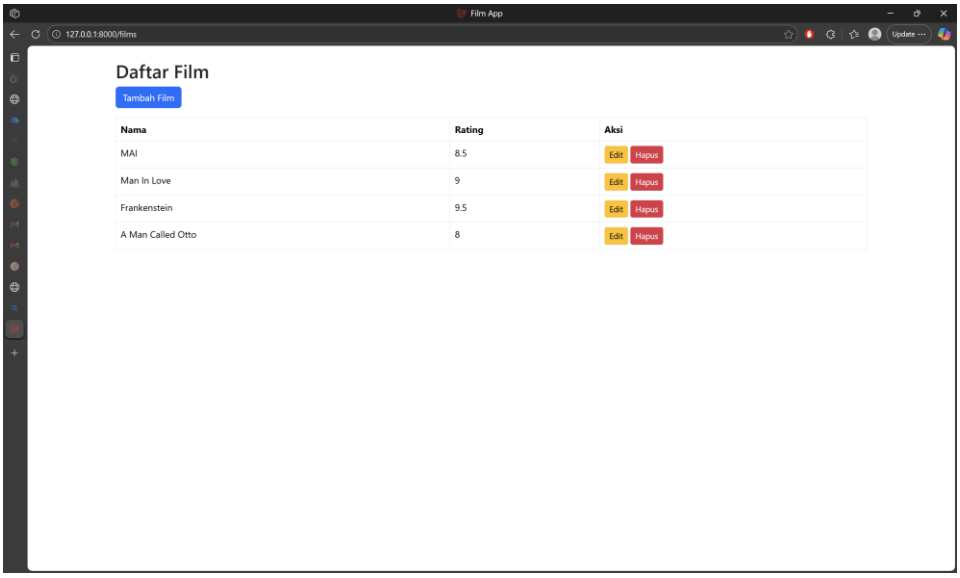
Save Share
DELETE http://localhost:3000/films/2
Send
Docs Params Authorization Headers (9) Body Scripts Settings Cookies
none form-data x-www-form-urlencoded raw binary GraphQL JSON
Schema Beautify
Body Cookies Headers (7) Test Results (1/1)
200 OK 10 ms 270 B Save Response
{ } JSON Preview Visualize
{
"message": "Film berhasil dihapus"
}
Files BETA
Cloud View Find and replace Console Terminal
Runner Start Proxy Cookies Vault Trash

Project Laravel

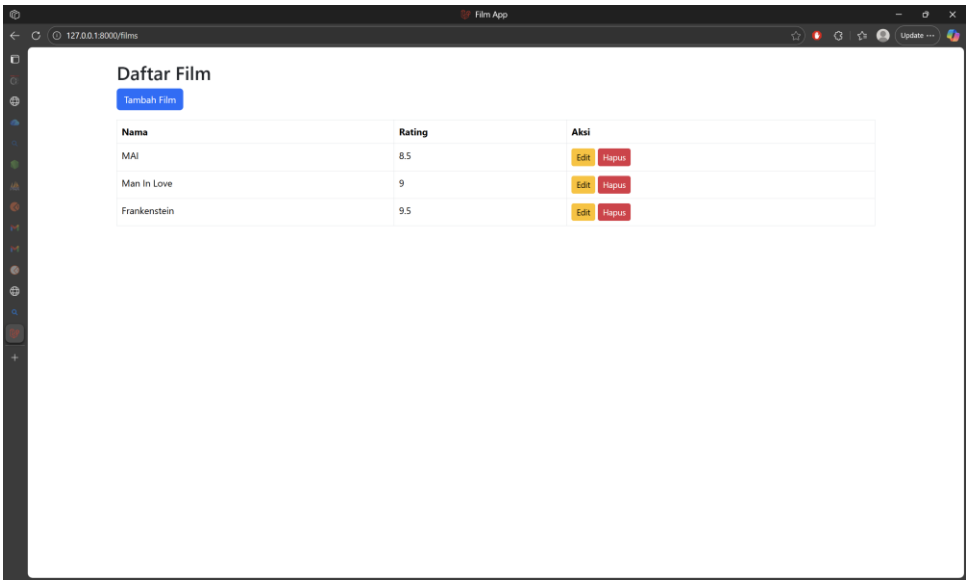








Setelah hapus film ke-4



Code Laravel :

FilmController

```php
<?php

namespace App\Http\Controllers;

use Illuminate\Http\Request;
use Illuminate\Support\Facades\Http;

class FilmController extends Controller
{
    private $apiUrl = 'http://localhost:3000/films';

    public function index()
    {
```

```
        $response = Http::get($this->apiUrl);
        $films = $response->json();
        return view('index', compact('films'));
    }

    public function create()
    {
        return view('create');
    }

    public function store(Request $request)
    {
        Http::post($this->apiUrl, $request->all());
        return redirect('/films');
    }

    public function edit($id)
    {
        $film = Http::get($this->apiUrl.'/'.$id)->json();
        return view('edit', compact('film'));
    }

    public function update(Request $request, $id)
    {
        Http::put($this->apiUrl.'/'.$id, $request->all());
        return redirect('/films');
    }

    public function destroy($id)
    {
        Http::delete($this->apiUrl.'/'.$id);
        return redirect('/films');
    }
}
```

Routes

```
<?php

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

Route::get('/films', [FilmController::class, 'index']);
Route::get('/films/create', [FilmController::class, 'create']);
Route::post('/films', [FilmController::class, 'store']);
Route::get('/films/{id}/edit', [FilmController::class, 'edit']);
Route::put('/films/{id}', [FilmController::class, 'update']);
Route::delete('/films/{id}', [FilmController::class, 'destroy']);
```

App.blade.php

```
<!DOCTYPE html>
<html>
<head>
    <title>Film App</title>
    <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css"
rel="stylesheet">
</head>
<body>
<div class="container mt-4">
    @yield('content')
</div>
</body>
</html>
```

index.blade.php

```
@extends('app')

@section('content')
<h2>Daftar Film</h2>

<a href="/films/create" class="btn btn-primary mb-3">Tambah Film</a>

<table class="table table-bordered">
    <tr>
        <th>Nama</th>
        <th>Rating</th>
        <th>Aksi</th>
    </tr>
    @foreach ($films as $film)
    <tr>
        <td>{{ $film['nama'] }}</td>
        <td>{{ $film['rating'] }}</td>
        <td>
            <a href="/films/{{ $film['id'] }}/edit" class="btn btn-warning
btn-sm">Edit</a>
            <form action="/films/{{ $film['id'] }}" method="POST"
style="display:inline;">
                @csrf
                @method('DELETE')
                <button class="btn btn-danger btn-sm">Hapus</button>
            </form>
        </td>
    </tr>
    @endforeach
```

```
</table>
@endsection
```

create.blade.php

```
@extends('app')

@section('content')
<h2>Tambah Film</h2>

<form method="POST" action="/films">
@csrf
<div class="mb-2">
    <label>Nama</label>
    <input type="text" name="nama" class="form-control">
</div>

<div class="mb-2">
    <label>Deskripsi</label>
    <textarea name="deskripsi" class="form-control"></textarea>
</div>

<div class="mb-2">
    <label>Tanggal Rilis</label>
    <input type="date" name="tanggal_rilis" class="form-control">
</div>

<div class="mb-2">
    <label>Rating</label>
    <input type="number" step="0.1" name="rating" class="form-control">
</div>

<button class="btn btn-success">Simpan</button>
</form>
@endsection
```

edit.blade.php

```
@extends('app')

@section('content')
<h2>Edit Film</h2>

<form method="POST" action="/films/{{ $film['id'] }}">
@csrf
@method('PUT')
```

```
<div class="mb-2">
    <label>Nama</label>
    <input type="text" name="nama" value="{{ $film['nama'] }}" class="form-
control">
</div>

<div class="mb-2">
    <label>Deskripsi</label>
    <textarea name="deskripsi" class="form-control">{{ $film['deskripsi']
}}</textarea>
</div>

<div class="mb-2">
    <label>Tanggal Rilis</label>
    <input type="date" name="tanggal_rilis" value="{{ $film['tanggal_rilis']
}}" class="form-control">
</div>

<div class="mb-2">
    <label>Rating</label>
    <input type="number" step="0.1" name="rating" value="{{ $film['rating']
}}" class="form-control">
</div>

<button class="btn btn-primary">Update</button>
</form>
@endsection
```