

Movies.js

```
class Movie {  
  constructor(title, director, stars, description) {  
    this.Title = title;  
    this.Director = director;  
    this.Stars = stars;  
    this.Description = description;  
  }  
}  
  
module.exports = Movie;
```

Penjelasan:

File ini berisi definisi kelas Movie yang menjadi blueprint/model struktur data film, sehingga setiap objek film yang dibuat atau diproses di aplikasi memiliki atribut Title, Director, Stars, dan Description secara konsisten.

moviesApp.js

```

const express = require("express");
const bodyParser = require("body-parser");
const fs = require("fs");
const path = require("path");
const Movie = require("../Movie");
const swaggerUi = require("swagger-ui-express");
const swaggerJsdoc = require("swagger-jsdoc");

const app = express();
const port = 3000; // You can change this if needed

// Helper to read and write JSON
const moviesFile = path.join(__dirname, "movies.json");

function readMovies() {
  const data = fs.readFileSync(moviesFile, "utf-8");
  return JSON.parse(data);
}

function writeMovies(movies) {
  fs.writeFileSync(moviesFile, JSON.stringify(movies, null, 2), "utf-8");
}

app.use(bodyParser.json());

// Swagger setup
const options = {
  definition: {
    openapi: "3.0.0",
    info: {

```

EMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS

```

    info: {
      description: "API for Movies using Node.js and Express (JSON file storage)",
    },
    servers: [{ url: `http://localhost:${port}` }],
  },
  apis: ["./moviesApp.js"],
};
const swaggerSpec = swaggerJsdoc(options);
app.use("/swagger", swaggerUi.serve, swaggerUi.setup(swaggerSpec));

/**
 * @swagger
 * components:
 *   schemas:
 *     Movie:
 *       type: object
 *       properties:
 *         Title:
 *           type: string
 *         Director:
 *           type: string
 *         Stars:
 *           type: array
 *           items:
 *             type: string
 *         Description:
 *           type: string

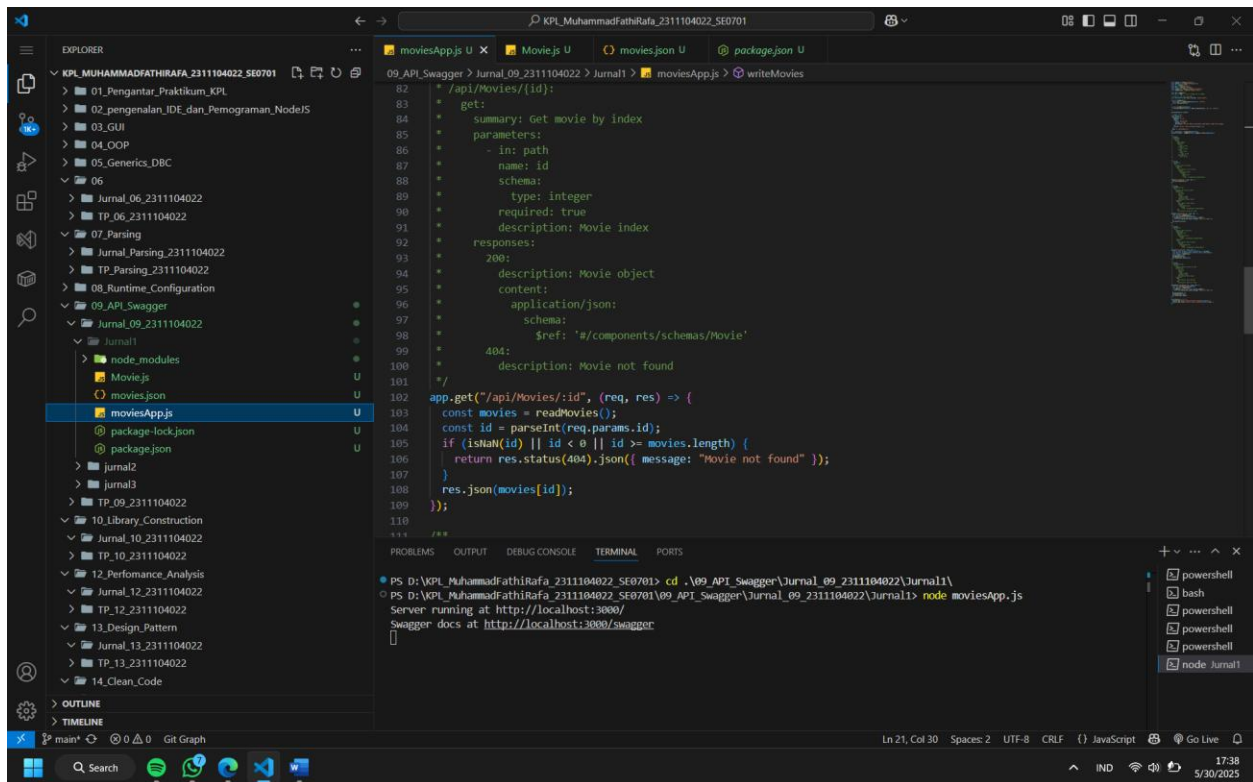
```

```

/**
 * @swagger
 * /api/Movies:
 *   get:
 *     summary: Get all movies
 *     responses:
 *       200:
 *         description: List of movies
 *         content:
 *           application/json:
 *             schema:
 *               type: array
 *               items:
 *                 $ref: '#/components/schemas/Movie'
 */
app.get("/api/Movies", (req, res) => {
  res.json(readMovies());
});

/**
 * @swagger
 * /api/Movies/{id}:
 *   get:
 *     summary: Get movie by index
 *     parameters:
 *       - in: path
 *         name: id
 *         schema:

```



```

/**
 * @swagger
 * /api/Movies:
 *   post:
 *     summary: Add a new movie
 *     requestBody:
 *       required: true
 *       content:
 *         application/json:
 *           schema:
 *             $ref: '#/components/schemas/Movie'
 *     responses:
 *       201:
 *         description: Movie created
 *         content:
 *           application/json:
 *             schema:
 *               $ref: '#/components/schemas/Movie'
 */
app.post("/api/Movies", (req, res) => {
  const { Title, Director, Stars, Description } = req.body;
  const movie = new Movie(Title, Director, Stars, Description);
  const movies = readMovies();
  movies.push(movie);
  writeMovies(movies);
  res.status(201).json(movie);
});

```

S    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS

```

*
*   parameters:
*     - in: path
*       name: id
*       schema:
*         type: integer
*         required: true
*         description: Movie index
*   responses:
*     204:
*       description: Movie deleted
*     404:
*       description: Movie not found
*/
app.delete("/api/Movies/:id", (req, res) => {
  const id = parseInt(req.params.id);
  const movies = readMovies();
  if (isNaN(id) || id < 0 || id >= movies.length) {
    return res.status(404).json({ message: "Movie not found" });
  }
  movies.splice(id, 1);
  writeMovies(movies);
  res.status(204).send();
});

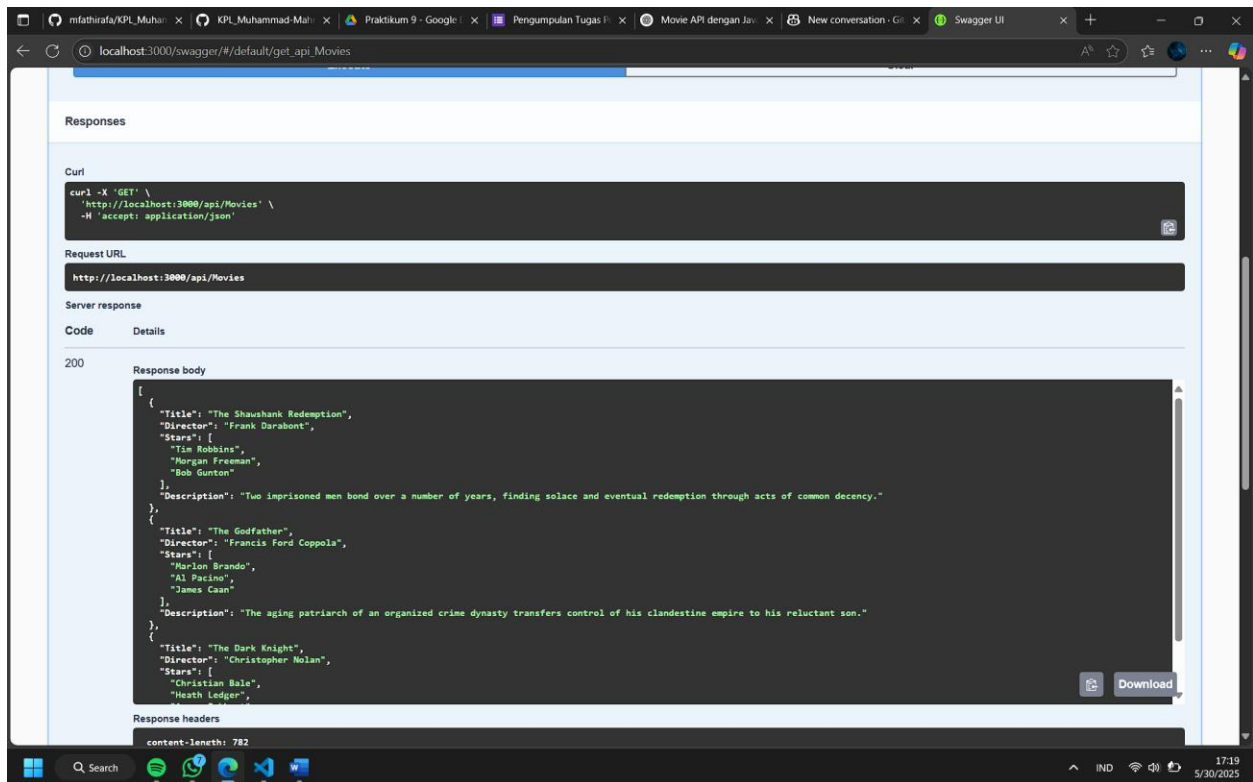
app.listen(port, () => {
  console.log(`Server running at http://localhost:${port}/`);
  console.log(`Swagger docs at http://localhost:${port}/swagger`);
});

```

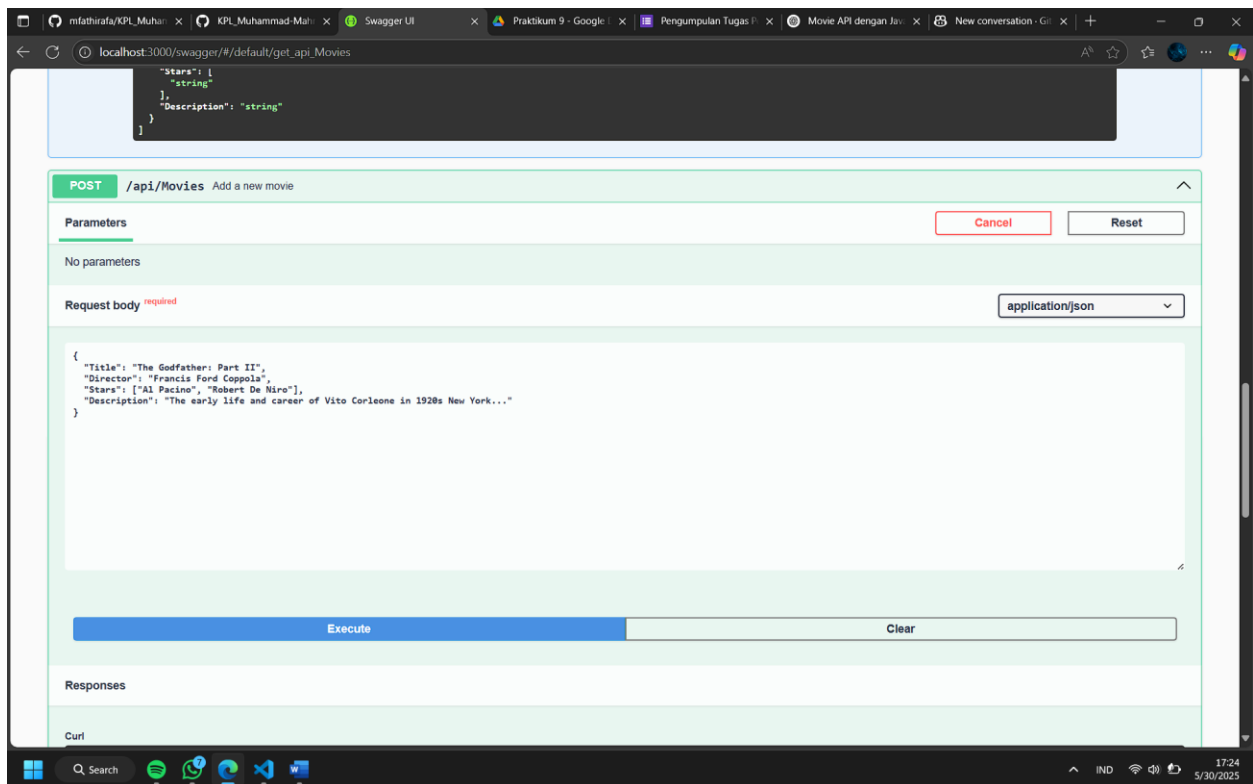
Penjelasan:

File ini merupakan inti aplikasi yang menjalankan server Express, mengatur endpoint RESTful untuk operasi CRUD pada data film (GET, POST, DELETE), melakukan pembacaan dan penulisan data ke file movies.json, serta menyediakan dokumentasi dan antarmuka uji API menggunakan Swagger UI di endpoint /swagger.

Get- all film

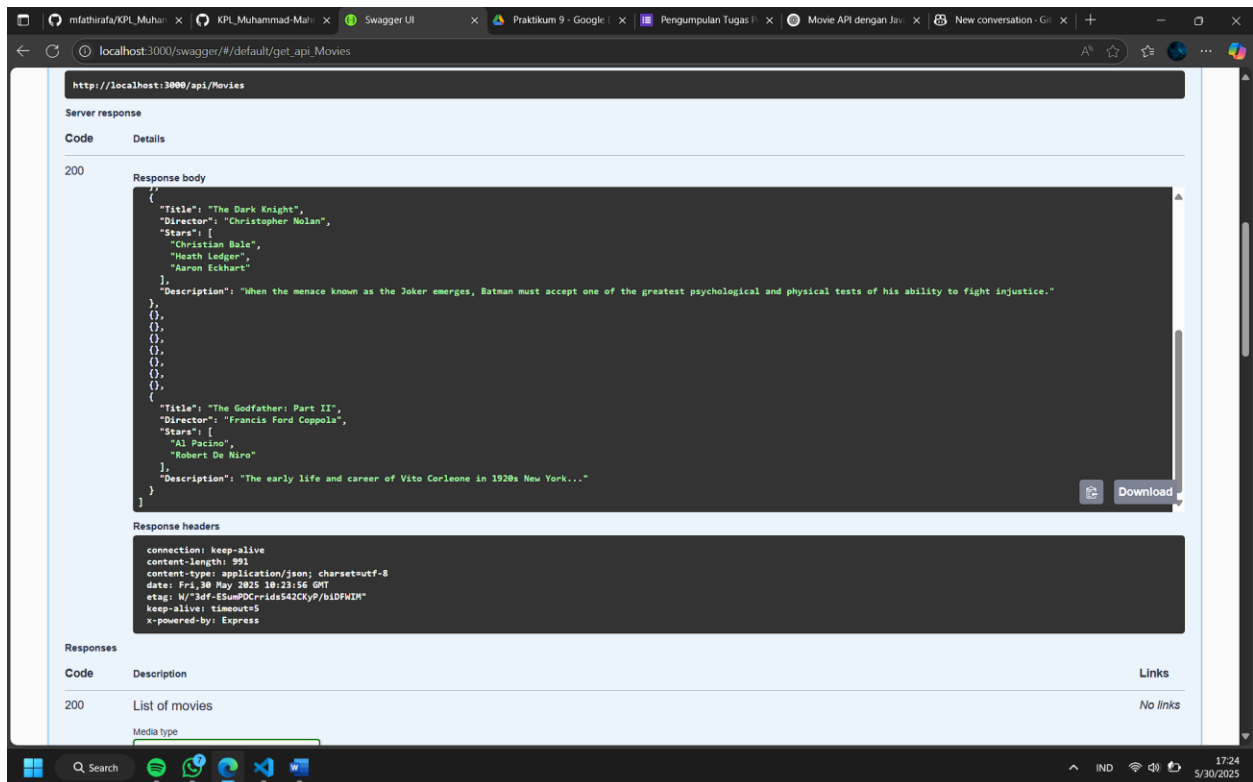


Post-menambahkan data film baru

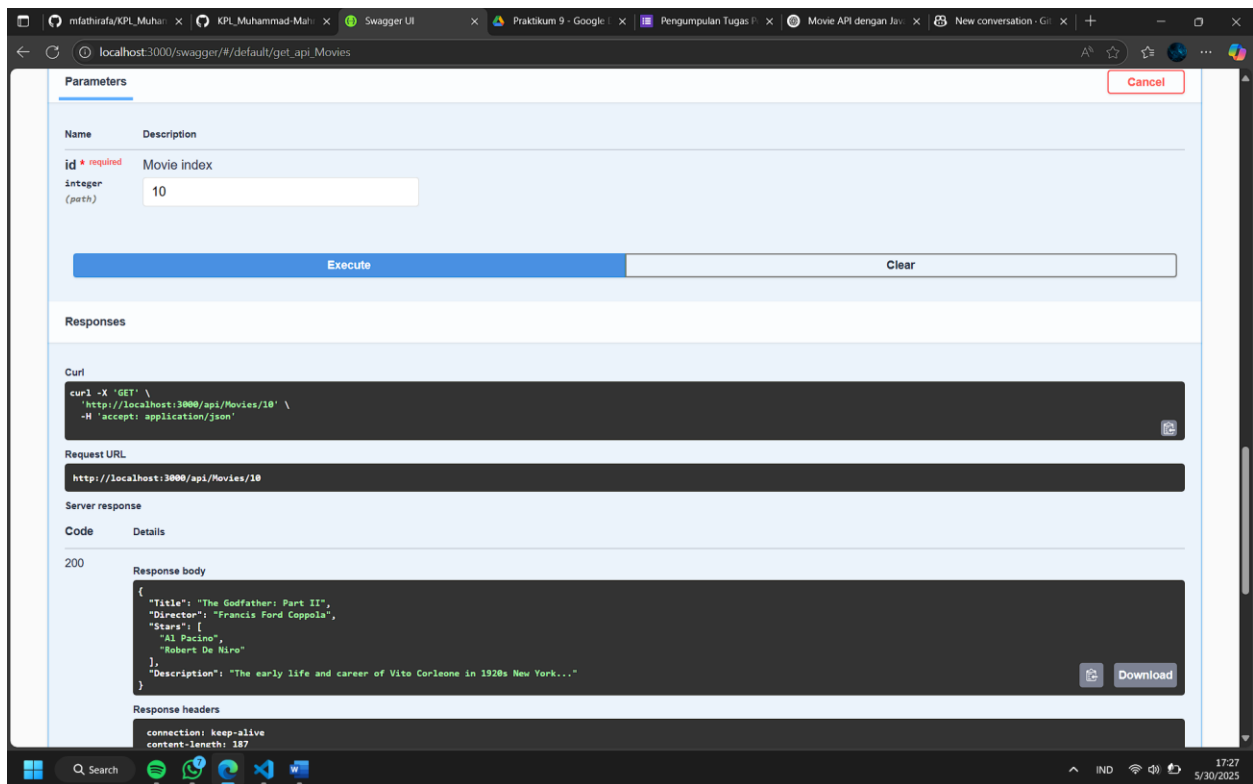


Get-melihat film yang ditambahkan

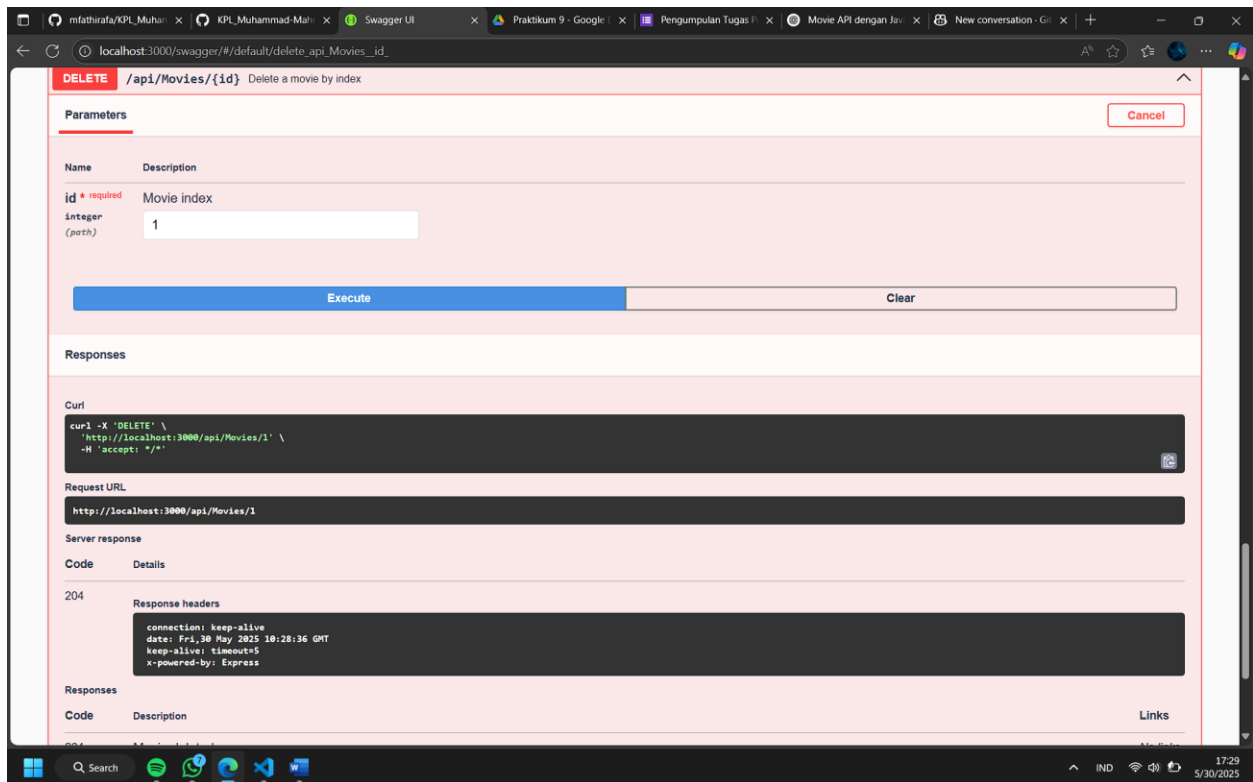




Get-berdasarkan id



Delete-id 1



Get-menengecek film yang telah didelete

