

API Project: Comments & Posts Management

Simple Overview

This project is a RESTful API built with Node.js and Express.js. It provides endpoints to manage users, posts, and comments. The API is designed for learning purposes and demonstrates basic CRUD operations with in-memory data storage.

Description

This API allows users to:

- Manage posts and comments.
- Retrieve posts by user or post ID.
- Add, retrieve, and manage comments associated with posts or users.
- Use query parameters and route parameters to filter data.

The project is beginner-friendly and demonstrates the use of Express.js middleware, route handling, and modular code organization.

Getting Started

Dependencies

Before running the program, ensure you have the following installed:

- [Node.js](#) (v14 or higher recommended)
- [npm](#) (comes with Node.js)
- A modern operating system (e.g., Windows 10, macOS, or Linux)

Installing

1. Clone the repository:
2. `bash`

```
git clone https://github.com/your-repo-name.git  
cd your-repo-name
```

3. Install dependencies:
4. `bash`

```
npm install
```

5. Ensure the following files are present:
 - `app.js` (or `index.js`) for the main server logic.
 - `routes/` directory containing route files (`comments.js`, `posts.js`, `users.js`).
 - `data/` directory containing mock data logic (`comments.js`, `posts.js`, etc.).

Executing Program

To run the program locally:

1. Start the server using nodemon.js:
2. `bash`

```
npm start
```

3. Or if you're using nodemon:
4. `bash`

```
npx nodemon app.js
```

5. Open Postman or any API testing tool to interact with the API.
6. Use the following base URL for requests:

```
http://localhost:3000/api
```

7. Example Endpoints:
 - GET `/api/comments`: Retrieve all comments.
 - `bash`

- POST `/api/comments`: Add a new comment.

Help

If you encounter issues:

1. Ensure your Node.js version is up-to-date.
2. Verify that no other application is using port `3000`.
3. Check that all required dependencies are installed by running:
4. `bash`

```
npm install
```

For additional debugging, use:

```
bash
```

```
npx nodemon app.js
```

This will restart the server automatically when changes are made.

Version History

- 0.2
 - Added comments functionality (basic CRUD operations).
 - Improved error handling for invalid routes.
 - See commit history for details.
- 0.1
 - Initial release with basic user and post management.

License

This project is licensed under the MIT License - see the LICENSE.md file for details.

Acknowledgments

Special thanks to:

- [Node.js](#) for providing a robust runtime environment.
- [Express.js](#) for simplifying server-side development.
- [Postman](#) for making API testing easy.