

Blog Post API Assignment

Objective: Create a RESTful API using Express.js to manage a collection of blog posts. This API will support operations to create, read, update, and delete blog posts.

Requirements:

- **Initialization:** Set up a new Node.js project with Express. Organize your code with distinct directories for routers, controllers, and middleware.
- **Data Model:** Use an array to simulate a database of blog posts, each with an `id`, `title`, `content`, and `author`.
- **Middleware:** Develop middleware to log requests and validate `title` and `content` fields in the body of POST and PUT requests.
- **Routing:** Implement a router to handle endpoints for blog posts, including GET (list and single by ID), POST, PUT, and DELETE operations.
- **Controllers:** Create controller functions to handle the business logic for each CRUD operation on blog posts.
- **Error Handling:** Incorporate error handling for non-existent resources and bad requests.
- **Bonus Challenges:** Optionally, add a middleware for 404 errors, implement search functionality in the GET route, and write unit tests.

Deliverables:

- A complete Express.js application.
- Documentation for setup and usage.
- A set of HTTP request examples, such as a Postman collection.

Evaluation Criteria:

- Clean and organized code.
- Effective use of routers, controllers, and middleware.
- Robust validation and error handling.

Submission:

- Provide a GitHub repository link.
- Include a README with setup and run instructions.