# **Lab Day 3: Express.js & Mongoose - Blog API**

## **Challenge**

Build a RESTful API for a blog platform with Express.js and Mongoose. Your task is to create a Post model and implement CRUD operations through API endpoints.

## **Setup**

1. Create a new project directory and initialize npm
2. Install: express, mongoose, morgan
3. Create your file structure:

blog-api/

├── server.js

├── models/

│ └── Post.js

└── routes/

└── postRoutes.js

1. Configure your MongoDB connection in server.js

## **Requirements**

### **1. Create Post Model**

Design a Mongoose schema for blog posts with the following:

* Title
* Content
* Author (reference to User model using ObjectId)
* Tags (array of strings)
* Comments (embedded documents with text, author reference, and date)
* Created/updated timestamps

### **2. Implement Post Routes**

Create the following endpoints:

* GET /api/posts
* GET /api/posts/:id
* POST /api/posts
* PUT /api/posts/:id
* DELETE /api/posts/:id
* POST /api/posts/:id/comments

### **3. Advanced Features (Choose at least 2)**

* Implement pagination
* Add search functionality by title or content
* Create an endpoint to get all posts by a specific user
* Add validation for post content (min/max length)
* Implement sorting options (by date, title, etc.)
* Add a feature to "like" posts

### **4. Error Handling**

Ensure proper error handling for all routes, including:

**5. Use morgan for logging**

## **Resources**

* [Mongoose Documentation](https://mongoosejs.com/docs/)
* [Express.js Documentation](https://expressjs.com/)