



# Blogging Platform – Full-Stack Project



## Overview:

The Blogging Platform is a full-stack web application where users can **create, edit, read, and comment** on blog posts. Designed with a clean UI and responsive experience, the platform enables seamless user interactions and content management for writers and readers alike.

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## Project Idea:

The core goal was to build a production-ready blogging system where:

- Authors can write and manage their posts
  - Users can view and comment on blogs
  - Posts can be categorized and explored easily
  - The platform scales well and handles file uploads, authentication, and dynamic routing
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## Tech Stack:

### Frontend:

- **React.js** – Component-based UI development
- **Material UI (MUI)** – For responsive and modern UI components
- **Axios** – API calls to backend
- **React Router** – Navigation and dynamic routing

### Backend:

- **Node.js + Express.js** – RESTful API design
- **MongoDB** – NoSQL database for storing users, posts, and comments

- **GridFS + Busboy** – Efficient file upload handling (images, documents)
  - **JWT (JSON Web Tokens)** – User authentication and protected routes
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## ✨ **Key Features:**

- **User Authentication:**
  - Sign up / log in with JWT-based token system
  - Auth-protected routes for creating and editing posts
- **Post Management:**
  - Create, edit, and delete blog posts
  - Markdown-like text editor (optional enhancement)
  - Upload and serve post images using GridFS
- **Comment System:**
  - Logged-in users can comment on any blog post
  - Comments are listed in real-time under each post
- **Categorization and Routing:**
  - Posts are filterable by category
  - Dynamic URLs for individual posts: /post/:id
  - Edit post using /edit/:id with prefilled forms
- **Responsive UI & UX:**
  - Mobile and desktop-friendly layout
  - Clean navigation and intuitive user flows
- **AI-powered Description Generation:** *(if applicable)*

- Integrated OpenAI API to auto-generate blog descriptions
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## **My Role & Contributions:**

- Designed and implemented both frontend and backend from scratch
  - Built secure user authentication with JWT
  - Developed RESTful API endpoints for posts, comments, and file uploads
  - Integrated GridFS with MongoDB to store and serve uploaded images
  - Implemented dynamic form handling for blog creation/editing
  - Managed deployment pipelines for both frontend (Vercel) and backend (Render)
  - Optimized the UI using MUI for a better user experience
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## **GitHub Repository:**

[https://github.com/Priyanshu-Naik/Blogging\\_Platform](https://github.com/Priyanshu-Naik/Blogging_Platform)

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## **What I Learned:**

- Full-stack application lifecycle from design to deployment
- Real-world authentication and route protection
- File handling with GridFS and performance considerations
- Modular and clean React architecture
- Debugging and optimizing deployed apps on cloud platforms