

Problem Statement: Blog Management System (Backend)

Design and develop a **Blog Management System backend** similar to platforms like Medium, where users can create, publish, and interact with blog content based on their assigned roles. The system should support **secure access, content management, and user engagement features** while ensuring proper authorization and data integrity.

The platform must handle **three types of users—Admin, Author, and Reader**, each with clearly defined permissions. Authors should be able to create, edit, and manage their own blog posts, while Admins should have complete control over all content on the platform. Readers should be able to view published blogs and interact with them through likes and comments.

The system should allow blogs to be **published or unpublished**, ensuring that only published content is visible to readers. Users must be able to **like blog posts and add comments**, enabling engagement and feedback. To improve content discoverability, the platform should support **search functionality** that allows users to find blogs based on their titles or content.

The backend must enforce **role-based access control**, ensuring that only authorized users can perform specific actions. It should also provide **secure authentication and authorization mechanisms** to protect user data and restrict access to protected resources.

Overall, the system should be designed as a **scalable and secure backend service** that supports content creation, moderation, user interaction, and efficient retrieval of blog posts in a structured and controlled manner.