1. Entity Relationship Diagram (ERD)

Our project is a simple blog platform that allows users to register, log in, create blog posts, and delete or manage their own content. The system also supports comments on blog posts.

The ERD consists of **three main entities**:

User

- `user_id` (Primary Key)

- `username`

- `email`

- `password`

- `created_at`

Post

- `post_id` (Primary Key)

- `title`

- `content`
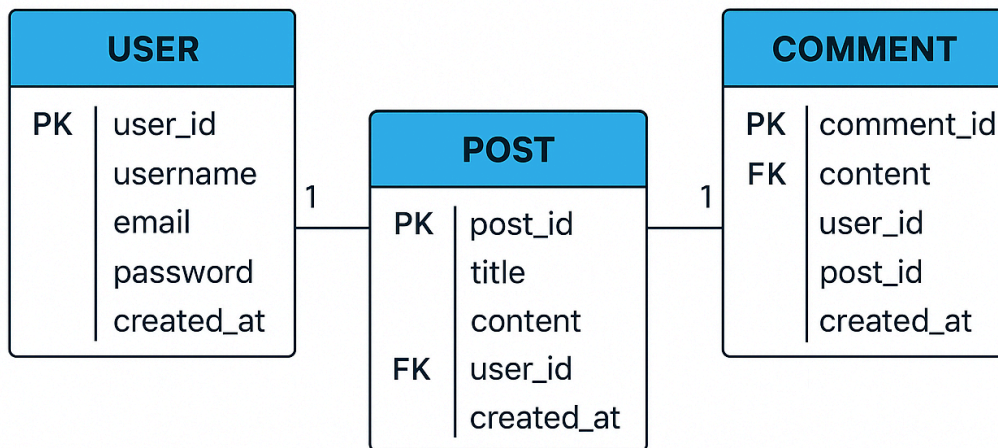
- `user_id` (Foreign Key → User)

- `created_at`

Comment

- `comment_id` (Primary Key)

- `content`

- `user_id` (Foreign Key → User)

- `post_id` (Foreign Key → Post)

- `created_at`

Relationships

- A **User** can create **multiple Posts**.

- A **Post** can have **multiple Comments**.

- A **User** can write **multiple Comments**.

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2. API Endpoints for the Backend

Authentication

Method	Endpoint	Description
POST	`/auth/register`	Create a new user account
POST	`/auth/login`	Log in and receive a token

Posts

Method	Endpoint	Description
GET	`/posts`	Get all posts
GET	`/posts/:id`	Get a specific post
POST	`/posts`	Create a new post (requires login)
PUT	`/posts/:id`	Update a post (owner only)
DELETE	`/posts/:id`	Delete a post (owner only)

Comments

Method	Endpoint	Description
GET	`/posts/:id/comments`	Get comments for a post
POST	`/posts/:id/comments`	Add a comment (requires login)
DELETE	`/comments/:id`	Delete a comment (owner only)