

* Java Blog Backend

① Resource and subresource -

method	http://localhost:8282/resource/{id}/sub-resource/{id}
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ex

GET http://localhost:8282/users/12/blog/2

↳ Get blog no ② of user no ①②.

② We want build a blog application where we
can write blogs and articles, also can
comment ⇒

Requirements

(a) Functional Requirements

- User should create, update, delete & list posts.
- User should add, update, delete comment on posts.
- Categorise the posts according to need.
i.e. sports, science etc.
- New user should be able to login to our application.
- Posts may include one picture at least.

(b) Technical Requirement

- Proper Login, Register, Post, comment APIs.
- Posts API includes pagination & sorting.

- Proper user input validation handling.
- Proper exception handling.
- Role based authentication & security with apis.
- JWT based authentication.
- REST API documentation using swagger.
- Deploy the backend application on any cloud platform (AWS / GCP).

© Technology we will use

→ Framework : spring boot Java Framework.

- Java 8+

- Maven → build tool

- STS roll for IDE

- Apache Tomcat server for development

Spring core, Spring security (jwt),
Spring data JPA (Hibernate) etc.
→ (Java Persistent Api)

→ Database - MySQL.

→ API Testing - Postman Rest client

→ Documentation - Swagger

→ Deployment - AWS-EC2 → VM creation & deployment.

③ Resources for Blogging Application -

→ User

→ Category

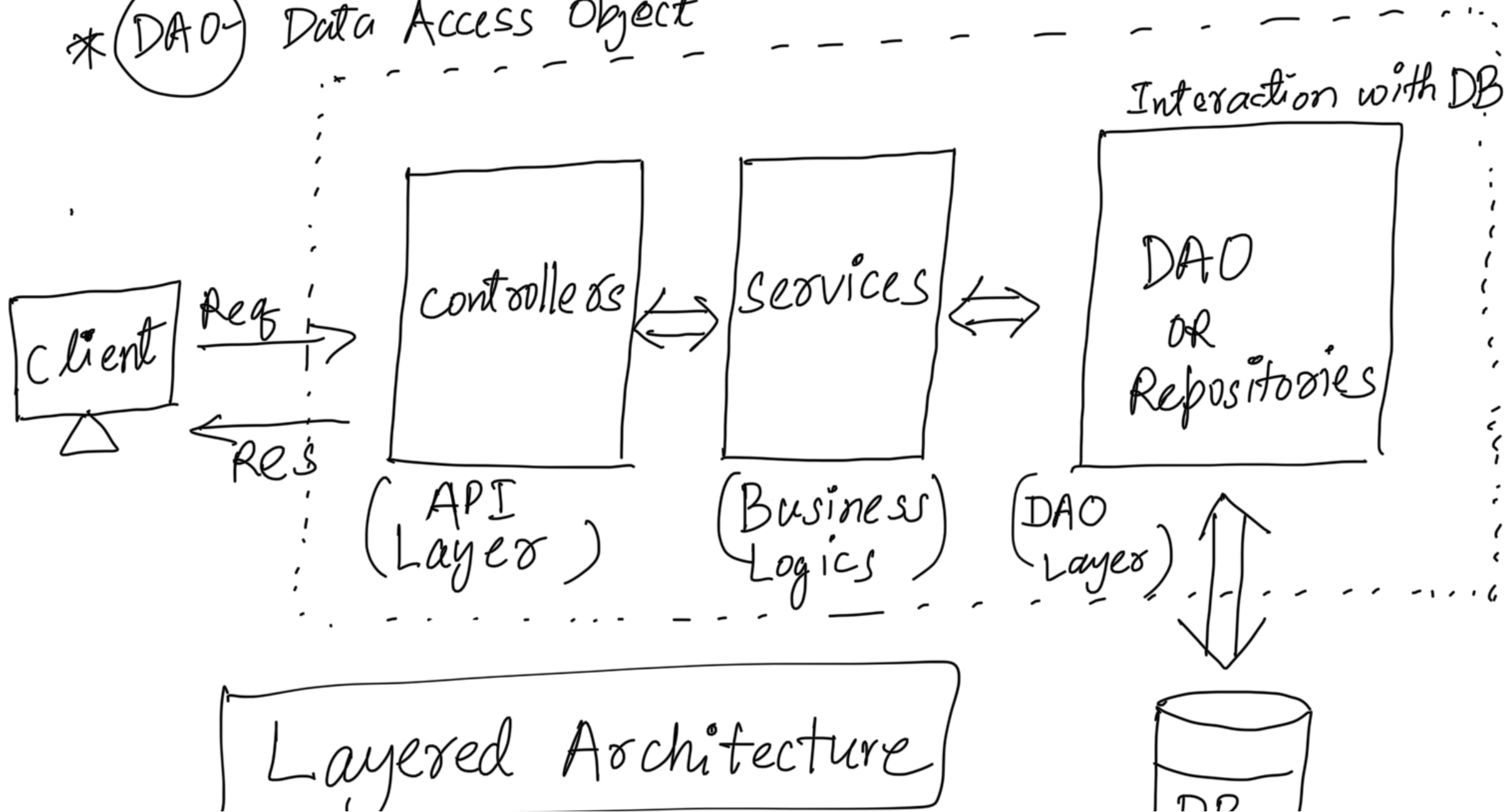
→ Post

→ Comments

→ Tag

④ Best architecture while design Backend APP-

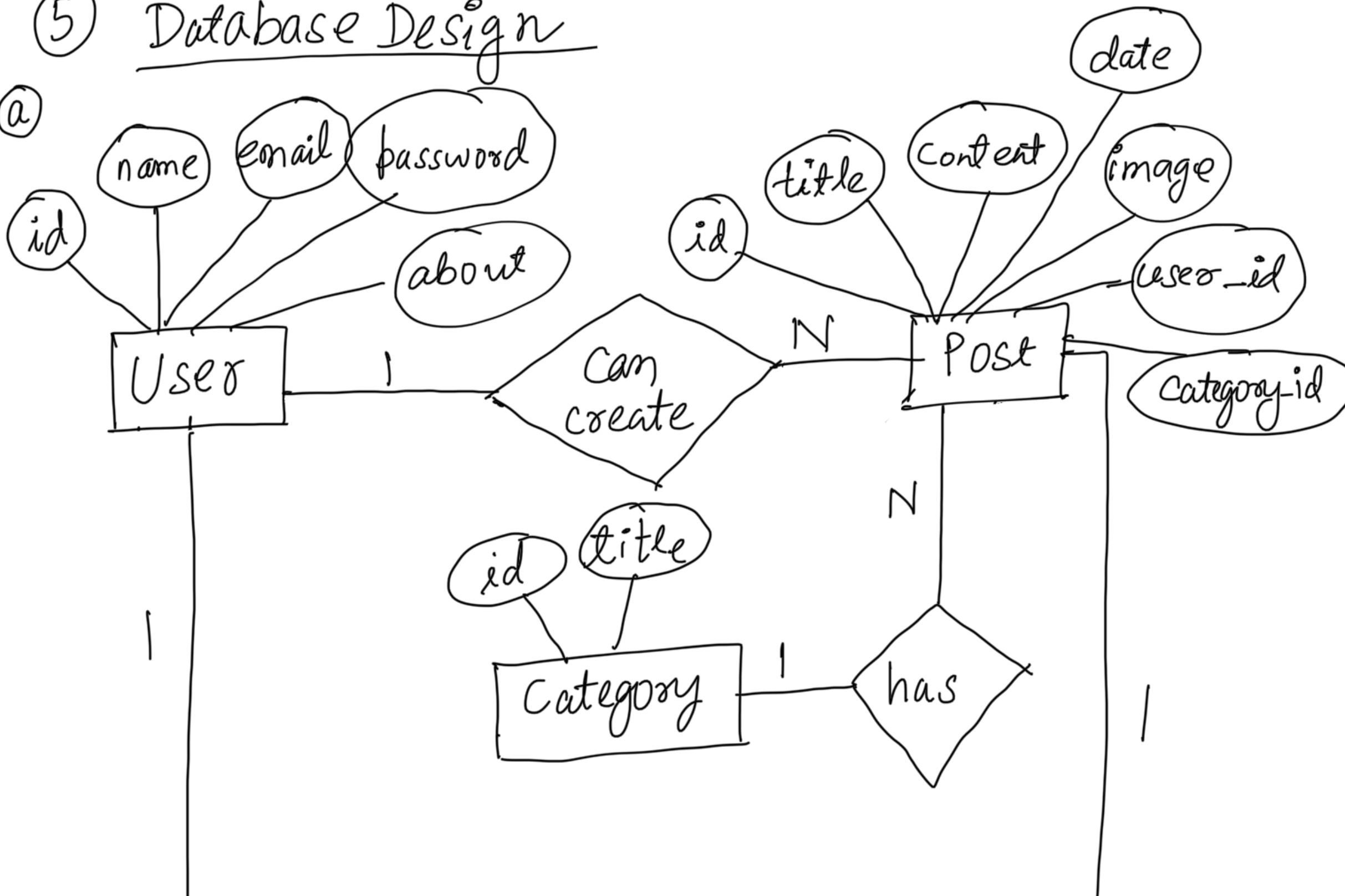
* (DAO) Data Access Object

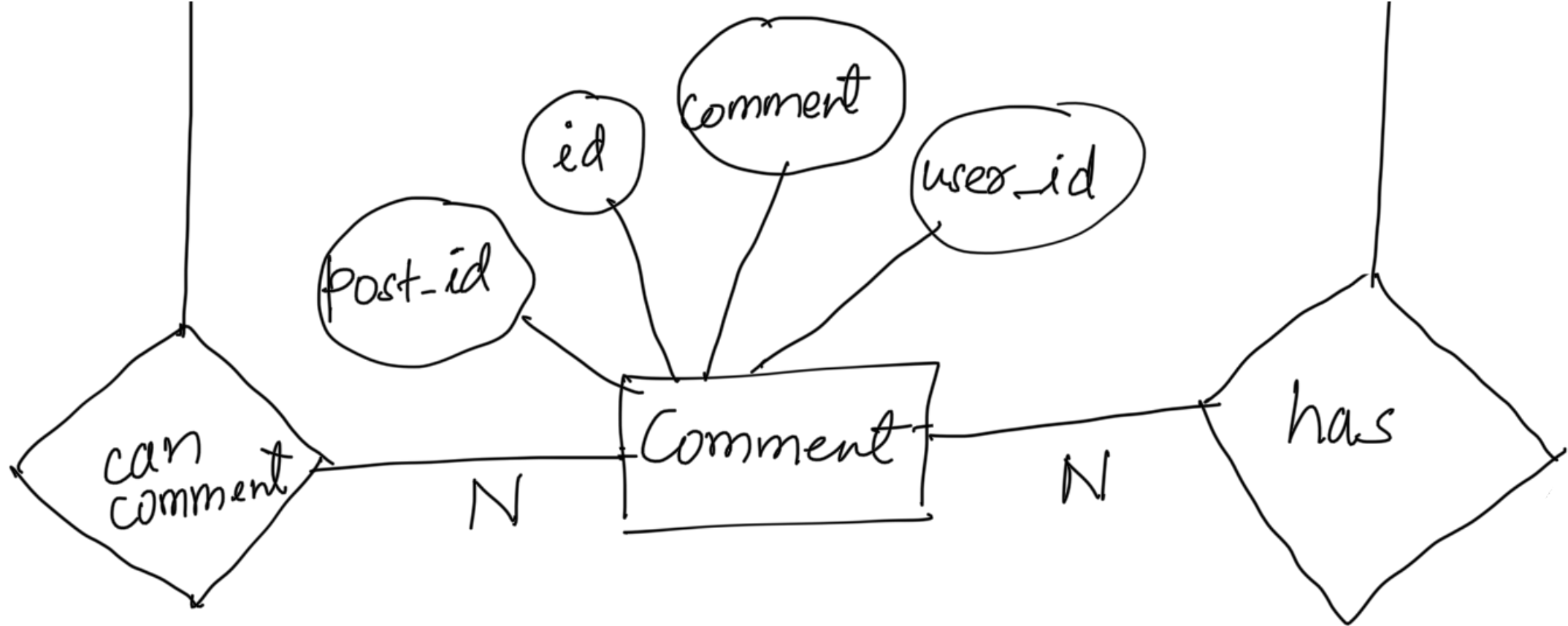


DB

⑤ Database Design

a





(b)

