

Team name: “QWERTY” LAB4

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Annotated Use Case Specifications

Use Case 1: User Registration

Actors: New **User** (*entity*)

Description: Allows a new **user** to create an **account**(*entity attribute*).

Preconditions: The **user** has access to the sign-up page.

Flow:

1. **User** enters **username**, **email**, and **password** (*entity attributes*).
2. System **validates** inputs.
3. System **stores user information** securely.

Use Case 2: Post Creation

Actors: Registered **User**

Description: Allows **users** to **create** a **post** (*entity*) with text, images, or videos.

Preconditions: **User** is logged in.

Flow:

1. **User** clicks the "Create Post" button.
2. **User** enters **post content** and uploads optional **media** (*entity attributes*).
3. System validates input and uploads content.
4. System **stores** the **post** in the database.
5. The **post** appears in the **user's feed** .

Use Case 3: Commenting (Additional use case)

Actors: Registered **User**

Description: Allows **users** to **comment** (*entity*) on **posts** .

Preconditions: **User** is logged in and viewing a **post** .

Flow:

1. **User** writes **comment text** (*entity attribute*) in the comment field.
2. **User** submits the **comment** .

3. System **stores** the **comment** in the database.
4. **Comment** appears under the **post** (*relationship*).

Draft Entity Relationship Diagram

The following entities have been identified from the Use Case Specifications:

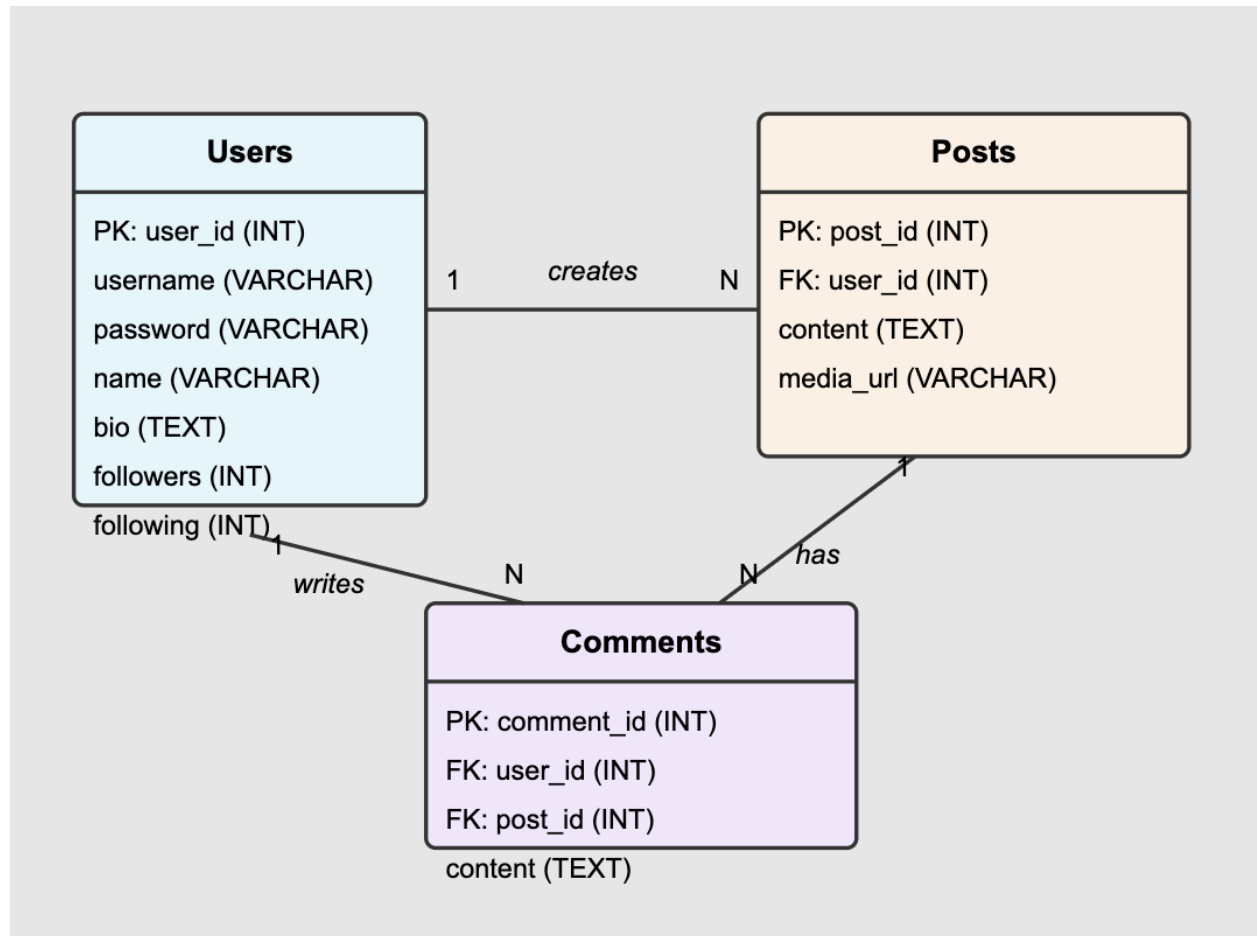
1. **Users** - Identified from "User" in all use cases
2. **Posts** - Identified from "post" in Use Case 2
3. **Comments** - Identified from additional use case for commenting

Entity Attributes Extracted:

- **Users**: user_id, username, email, password, name, bio, followers, following
- **Posts**: post_id, user_id (FK), content, media_url
- **Comments**: comment_id, user_id (FK), post_id (FK), content

Entity Relationships:

- Users (1) to Posts (N): One user can create many posts
- Users (1) to Comments (N): One user can write many comments
- Posts (1) to Comments (N): One post can have many comments



GitHub Repository: <https://github.com/DanyilT/WebDev-Project>

This Version on github: <https://github.com/DanyilT/WebDev-Project/tree/729e0ce412d16a88015b8064f6ccb5c952c16998>

This repository contains the latest version (3.0) of our project with the implemented database functionality.