

Data Design

A. Entity Relationship Diagram

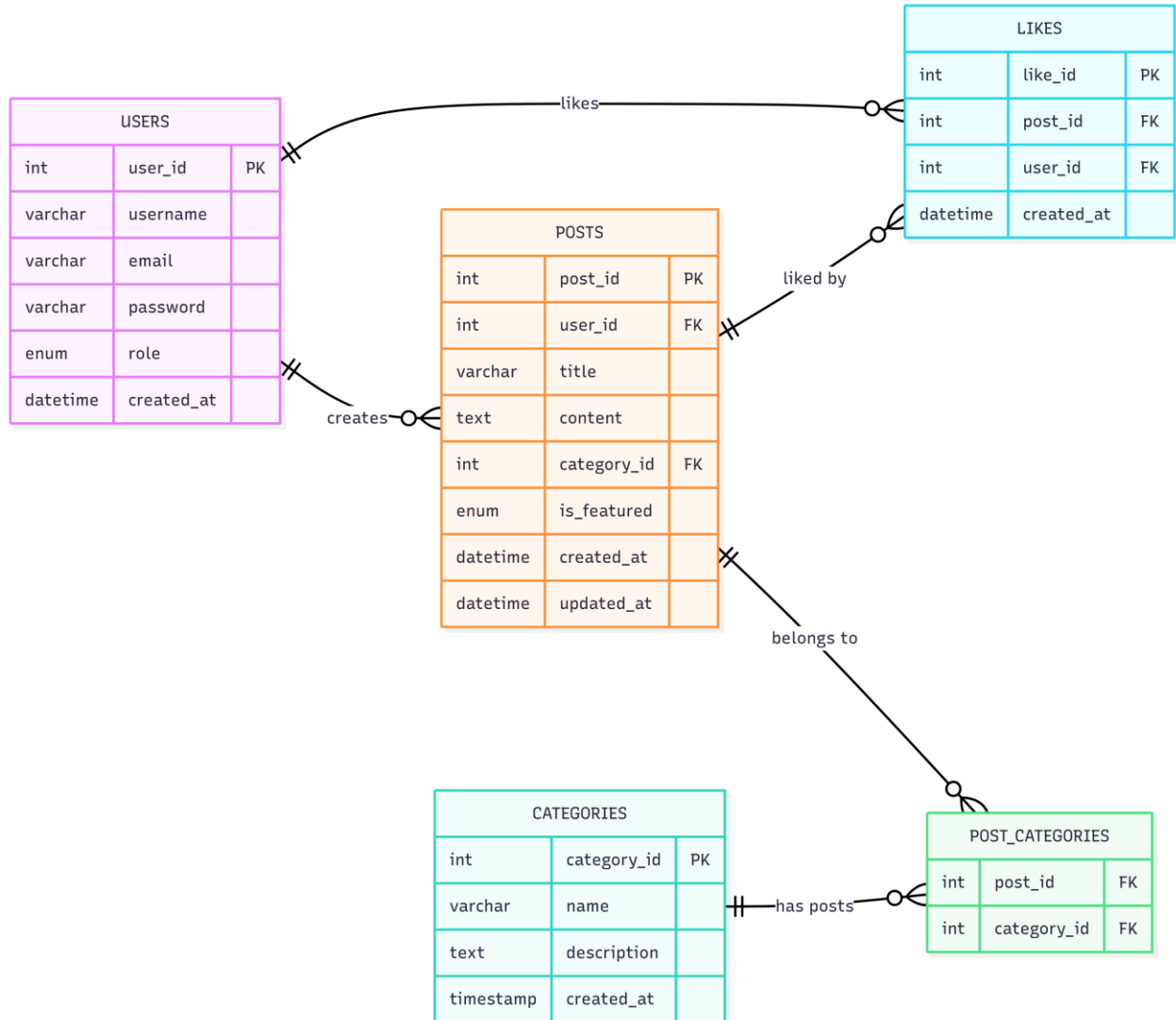


Figure 39: Data Design

B. Data Dictionary

Attribute	Data Type	Description
user_id	int (PK)	Unique identifier for each user.
username	varchar	The display name of the user.
email	varchar	User's email address (used for login).
password	varchar	Hashed password for authentication.
role	enum	Role of the user ('admin', 'student').
Created_at	datetime	Timestamp when the user was created.

Table 1 – 1: Users

Attribute	Data Type	Description
post_id	int (PK)	Unique identifier for each post.
user_id	int (FK)	References user_id from the users table the author of the post.
title	varchar	Title of the post.
content	text	content of the post.
category_id	int (FK)	References category_id from the categories table
is_featured	enum	Indicates if the post is featured (approved, draft, pending or denied).
created_at	datetime	Timestamp when the post was created.
updated_at	datetime	Timestamp when the post was last updated.

Table 1 – 2: Posts

Attribute	Data Type	Description
category_id	int (PK)	Unique identifier for each category.
name	varchar	Name of the category (Projects, Research, Art, Photography, Writing, Internship, Volunteering, Competitions, Reflections).
description	text	Description of the category.
created_at	timestamp	Timestamp when the category was created.

Table 1 – 3: Categories

Attribute	Data Type	Description
post_id	int (FK)	References post_id from the posts table where the post being tagged.
category_id	int (FK)	References category_id from the categories table

Table 1 – 3: Post Categories

Attribute	Data Type	Description
like_id	int (PK)	Unique identifier for each like.
post_id	int (FK)	References post_id in the post table where the post being liked.
user_id	int (FK)	References user_id in the users table where the user who liked the post.
created_at	datetime	Timestamp when the like was made.

Table 1 – 4: Likes