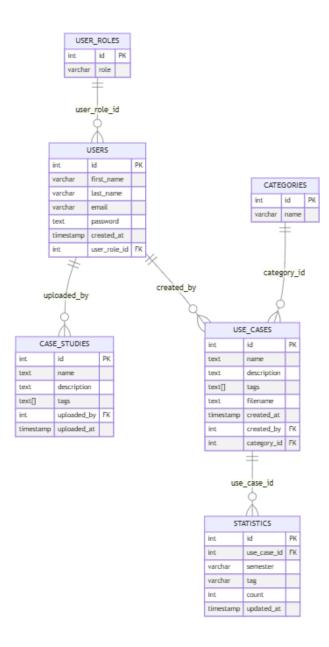
ERD - MOP - WebDev- Ishika Mandal (s223973381)

ERD Visualization



Mermaid Code

```
erDiagram
  USERS {
    int id PK
    varchar first_name
    varchar\ last\_name
    varchar email
    text password
    timestamp created_at
    int user_role_id FK
  }
  USER_ROLES {
    int id PK
    varchar role
 }
  CASE_STUDIES {
    int id PK
    text name
    text description
    text[] tags
    int uploaded_by FK
    time stamp\ uploaded\_at
 }
  USE_CASES {
    int id PK
    text name
    text description
    text[] tags
    text filename
```

```
timestamp created_at
  int created_by FK
  int category_id FK
}
CATEGORIES {
  int id PK
  varchar name
}
STATISTICS {
  int id PK
  int use_case_id FK
  varchar semester
  varchar tag
  int count
  timestamp updated_at
}
%% Relationships
USERS | | --o{ CASE_STUDIES : "uploaded_by"
USERS | |--o{ USE_CASES : "created_by"
{\sf USER\_ROLES~|~|--o\{~USERS:"user\_role\_id"}
USE_CASES | | --o{ STATISTICS : "use_case_id"
CATEGORIES | | -- o{ USE_CASES : "category_id"
```

Database Schema Overview

Entities & Relationships:

- **USERS:** Core user management with role-based access
- USER_ROLES: Defines user permissions and access levels
- CASE_STUDIES: Repository of case study documents uploaded by users
- **USE_CASES:** Categorized use case definitions with file attachments

- CATEGORIES: Classification system for organizing use cases
- STATISTICS: Usage tracking and analytics by semester and tags

Key Features:

- Role-based user management system
- Tag-based content organization
- File management for use cases
- Analytics and usage tracking
- Temporal data with timestamps