

1 Users Table (users)

Stores all users of the system (students, faculty, organizations, councils, admins).

Primary Key: user_id

Fields:

username (unique)

email (unique)

password

role (defines the user's role: student, faculty, organization, council, or admin)

created_at (timestamp when the user was created)

2 Organizations Table (organizations)

Stores registered organizations/councils.

Primary Key: org_id

Fields:

org_name (unique)

description (optional text)

created_at (timestamp)

3 Posts Table (posts)

Stores all posts made by organizations/councils.

Primary Key: post_id

Foreign Keys:

org_id → References organizations.org_id

user_id → References users.user_id

Fields:

title

content (text of the post)

category (can be "event", "announcement", or "news")

status (draft, published, scheduled)

scheduled_at (date/time when post is scheduled)

created_at & updated_at (timestamps)

4 Comments Table (comments)

Stores comments on posts made by users.

Primary Key: comment_id

Foreign Keys:

post_id → References posts.post_id

user_id → References users.user_id

Fields:

content (text of the comment)

created_at (timestamp)

5 Likes Table (likes)

Stores likes on posts from users.

Primary Key: like_id

Foreign Keys:

post_id → References posts.post_id

user_id → References users.user_id

Fields:

created_at (timestamp when the like was made)

6 Notifications Table (notifications)

Stores notifications sent to users.

Primary Key: notification_id

Foreign Key:

user_id → References users.user_id

Fields:

message (text of notification)

status (unread or read)

created_at (timestamp)

7 Appointments Table (appointments)

Stores appointments scheduled between organizations and OSWS.

Primary Key: appointment_id

Foreign Keys:

org_id → References organizations.org_id

requested_by → References users.user_id

Fields:

osws_status (pending, approved, rejected)

appointment_date (date/time of appointment)

created_at (timestamp)

8 Letters Table (letters)

Stores letters submitted to OSWS.

Primary Key: letter_id

Foreign Keys:

org_id → References organizations.org_id

user_id → References users.user_id

Fields:

title

content (letter text)

status (pending, approved, rejected)

created_at (timestamp)

Relationships in the ERD

Users can create posts, comment, and like posts.

Organizations create posts and submit letters.

Users get notifications.

Users can schedule appointments with organizations.

How This Works in Your System

Organizations and Councils create posts, which can be categorized as announcements, news, or events.

Users (students, faculty, etc.) can comment on and like posts.

OSWS and Organizations schedule appointments through the appointment system.

Letters can be submitted by organizations for official approvals.

Notifications alert users about new posts, comments, approvals, etc.