

SOCIAL MEDIA DATABASE ER MODEL

1. REQUIREMENTS Engineering (features and use case)

1. User_profile **have** friends & friends are also users
2. User **can** post
3. Post contains text, images and videos
4. Post have likes and comments

2. ENTITY SETS

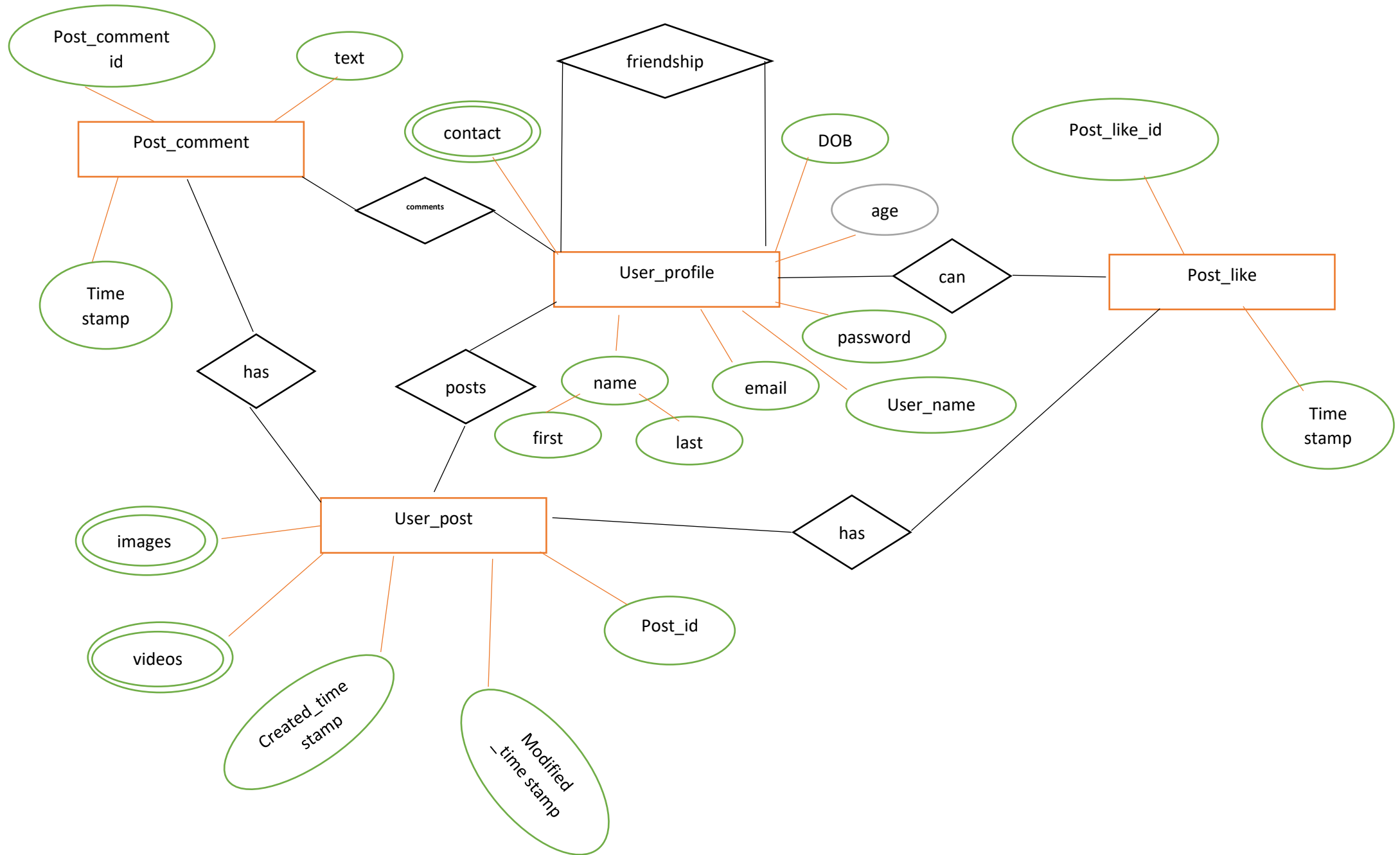
1. User_profile
2. User_post
3. Post comment
4. Post like

3. ATTRIBUTE AND TYPES

1. User_profile-name(composite),username(primary key), email(multivalued),password,contact(multivalued),DOB,age(derived)
2. User_post- post_id ,text_content,images(multivalued),videos(multivalued),created_timestamp,modified_timestamp
3. Post_comment-post_comment_id,text_content,time_stamp
4. Post_like-post_like_id,timestamp;

4. RELATION AND CONSTRAINTS

1. user_profile **friendship** user_profile(M:N)
2. user_profile **posts** user_post(1:N)
3. user_profile **can** post_likes(1:N)
4. user_profile **comments** post_comments(1:N)
5. user_post **has** post_comments(1:N)
6. user_post has post_likes



RELATIONAL MODEL

1. User_profile (username, name_first, name_last, password, DOB)
2. User_profile_email (username {F.K}, email)
3. User_profile_contact (username {F.K}, contact_number)
4. Friendship (profile_req {F.K}, profile_accept {F.K})
5. Post_like (post_like_id , time_stamp, post_id {F.K }, username {F.K})
6. User_post (post_id , created_time_stamp, modified_timestamp, text_context, username{F.K})
7. User_post_image (post_id {F.K}, image_url)
8. User_post_video (post_id {F.K}, video_url)
9. Post_comment(post_comment_id , text_content, time_stamp, post_id {F.K}, username{F.K})