

A Internal Messaging System, Message Aggregations and Trend Analysis

Team Members :

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Overview :

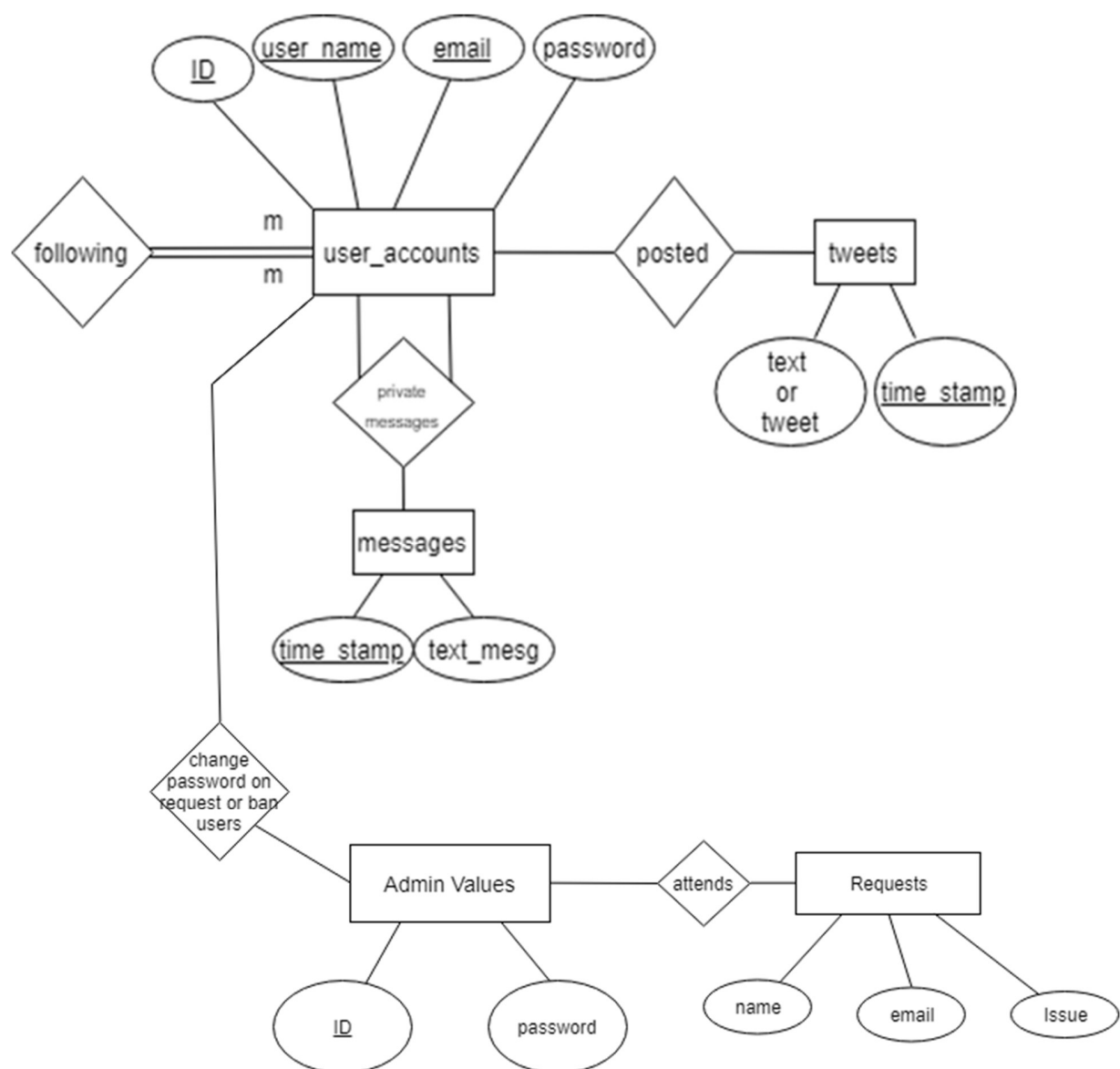
This application is Internal Messaging System. It can be used to send personal message or post to public about something. It does a keen analysis of the tags which are used to post a message. It efficiently finds the tags which are trending, to find the matter regarding which the locality is talking about.

Data Base Design :

The Database consists of three four table :

1. **Accounts** : This table contains all the data of the user's account, it contains attributes like ID, user_e-mail, user_name, password. The ID is set as the PRIMARY KEY and e-mail, user_name are set as UNIQUE and NOT NULL. These constraints are set to ensure data credibility.
2. **Feed_Messages** : This table saves all the tweets/posts posted by all the users. Each tuple contains sender_id, text, tags (regarding which the message is about) , time_stamp (time at which the post is posted). Here the sender_id references the ID attribute in accounts table as a foreign key.
3. **Personal_Messages** : This table saves the messages sent by a user to another user. Sender_id, Receiver_id, text message makeup the attributes of this table. We even store the time_stamp (time at which the message is sent). Both the sender_id and receiver_id reference the ID attribute of accounts table as foreign key.
4. **Following** : The follow functionality depends on this table. This table contains tuples of follower_id and following_id. Both the attribute reference the accounts table as foreign key using the ID attribute.

Entity-Relationship Diagram (ER Diagram) :



User Interface :

For User :

The user starts with the login page where he can login or sign-up (if he does not have a account already).

Login : The login.php file checks whether the particular user is banned and then checks whether the password matches or not.

Sign-Up : He can sign-up by giving his username, email, profile picture (optional) and by setting a password. Here form validation is done to ensure that he gives a valid email.

Both Sign-Up and Login is done by login.php

After logging-in, the home page consists of the following buttons/functionalities :

1. Adding to Feed : This function is for the user to post his tweet/message including the tag/tags (regarding the message), he can even post a photo. Done by add_to_feed.php and add_post.php .
2. Home : Here the user can see the posts posted by him. Done by home.php.
3. View Feed : This function allows the user to view the posts/tweets of the people followed by the user. Done by scroll.php and feed.php.
4. Search : User uses this functionality to search for post using the tags. The user can even see the most talked about topic using the trending tags. Done by search.php.
5. Send Personal Messages : User can make a conversation with other user using this option. Done by message_form.php and chat.php.
6. Get Personal Messages : User can see their notification for messages which are received when they are offline. Done by personal_msg.php.
7. Notification Button : This button allows users to view messages which he/she received when he is offline.
8. Profile Pages : Each user gets a profile page which showing his public data, photo, tweets/posts posted by him and a follow button to let others users to follow him.
9. Log-Out : This ensures the ability for the user to log-out and destroy the session.

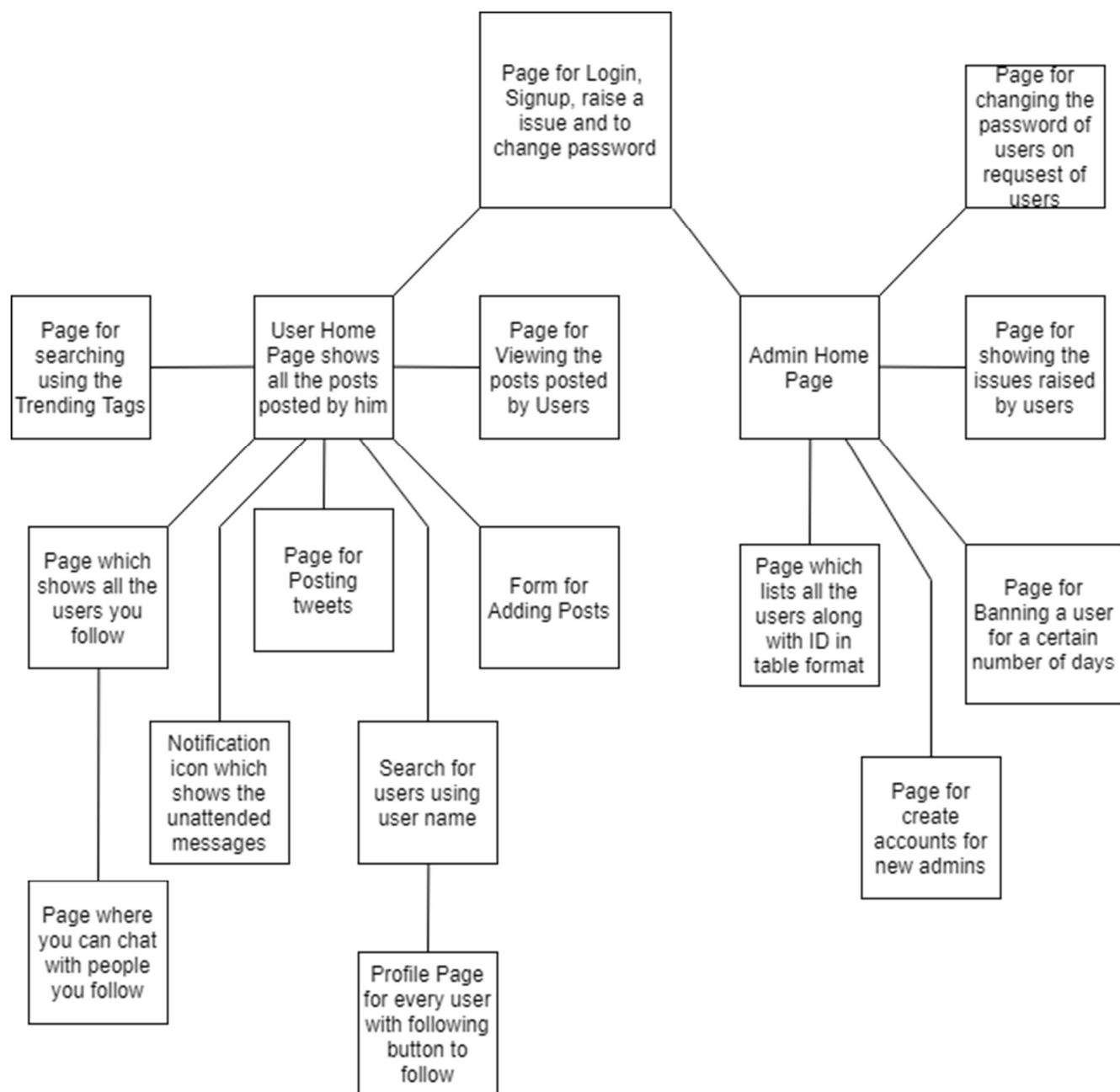
For Admin :

This is a page for the admin to control abusive users, it allows the admin to ban users for a certain number of days,

1. Blocking a User : This allows the admin to block a user for a certain number of days specified by him.
2. Issues : This allows the admin to view and attend issues raised by a particular user.

3. Creating Admin : An admin can create accounts for new admins.
4. Change Password : An admin can change password of the users on request.

Page Direction :



Plat Form Used :

The Plat Form used are,

Postgres : As the database for the application

PHP : For designing of the webpages and their functionality

AJAX, JQuery : For designing dynamic webpages

CSS : For creating attractive web-pages