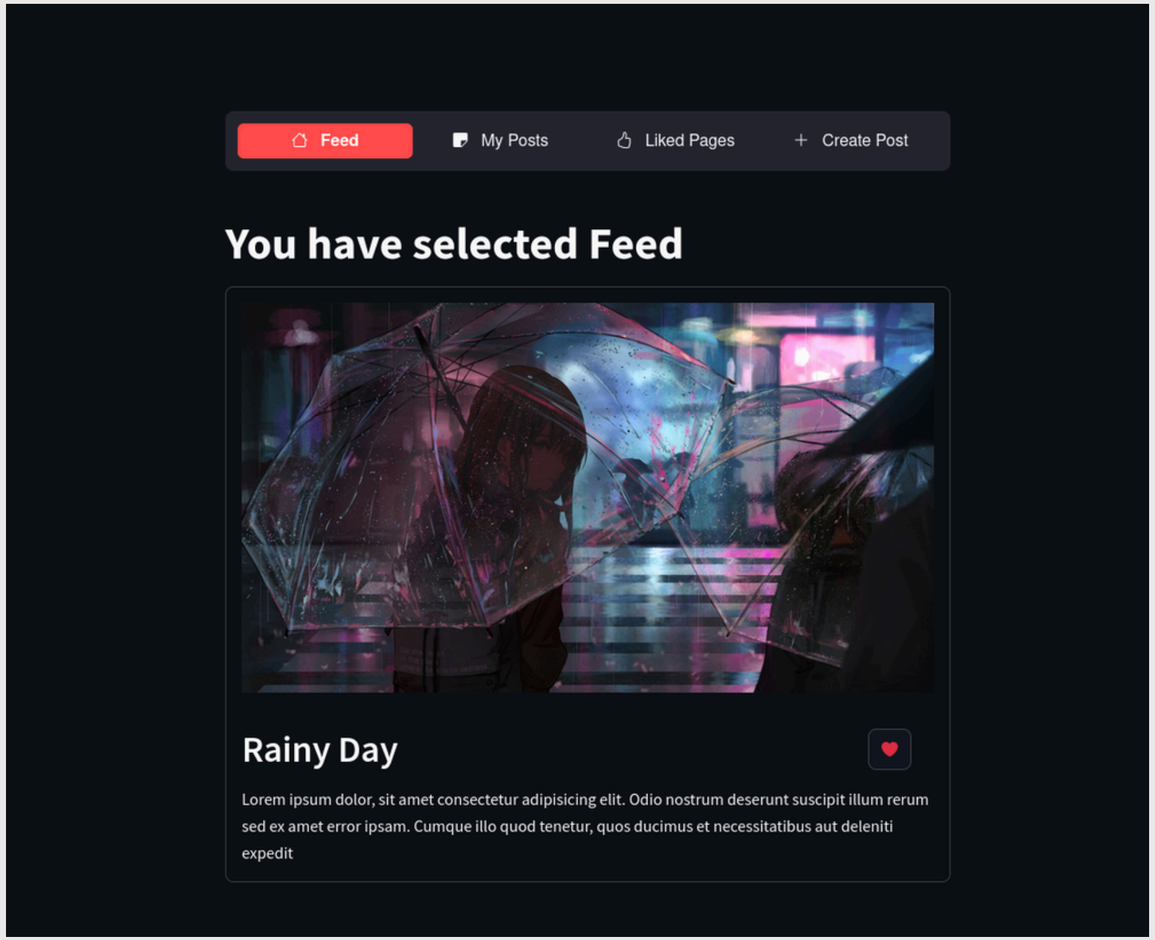
Social Media



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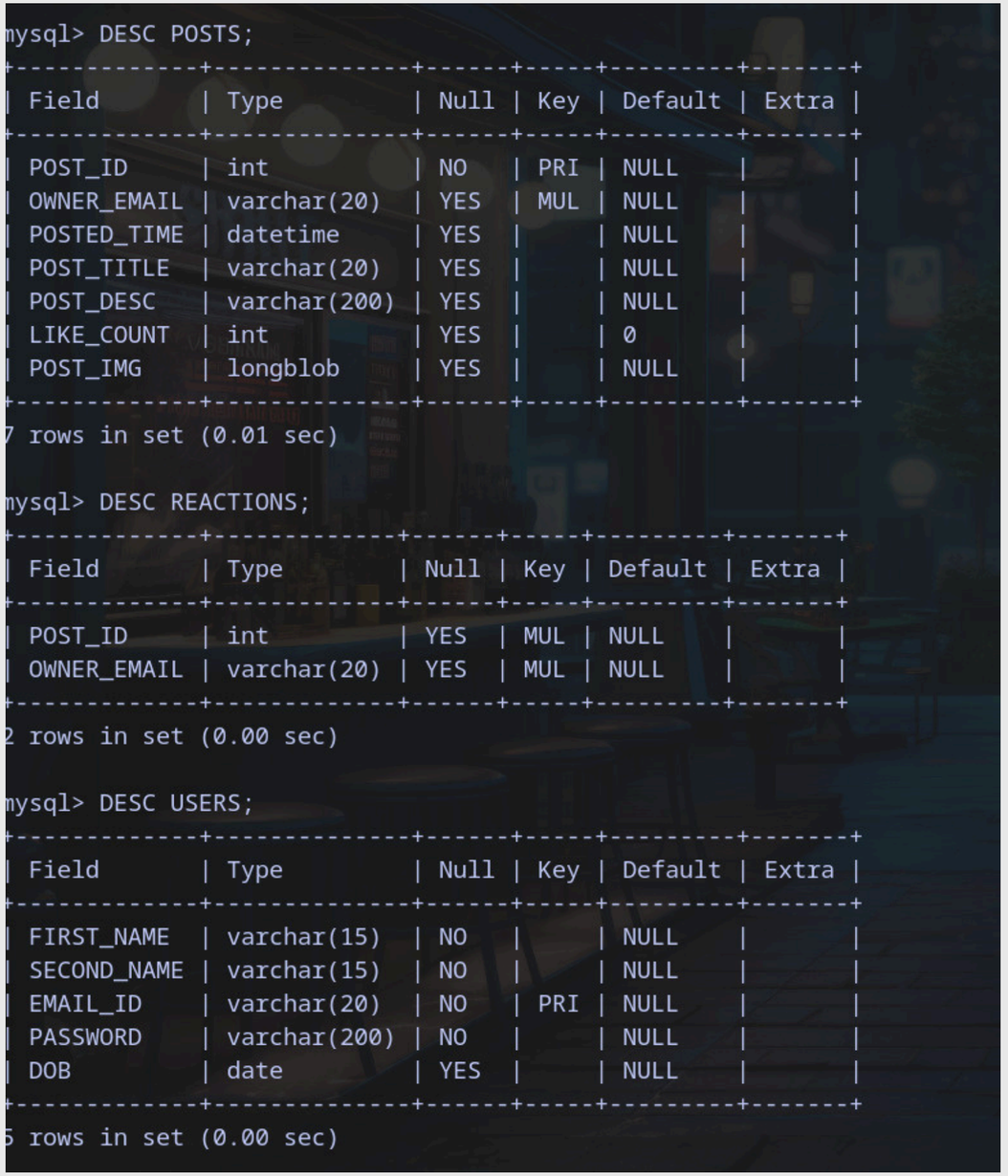
About the Project

This project entails the development of a simplified social networking platform centered around the creation and sharing of user-generated content. The platform will facilitate user interaction through post creation, liking, and viewing. To ensure a seamless user experience, the platform will incorporate user registration and authentication mechanisms. The core functionalities will include posting, liking, and displaying content in a user-friendly format. The project will focus on building a robust foundation for understanding the underlying database management principles required for such platforms.

TABLES

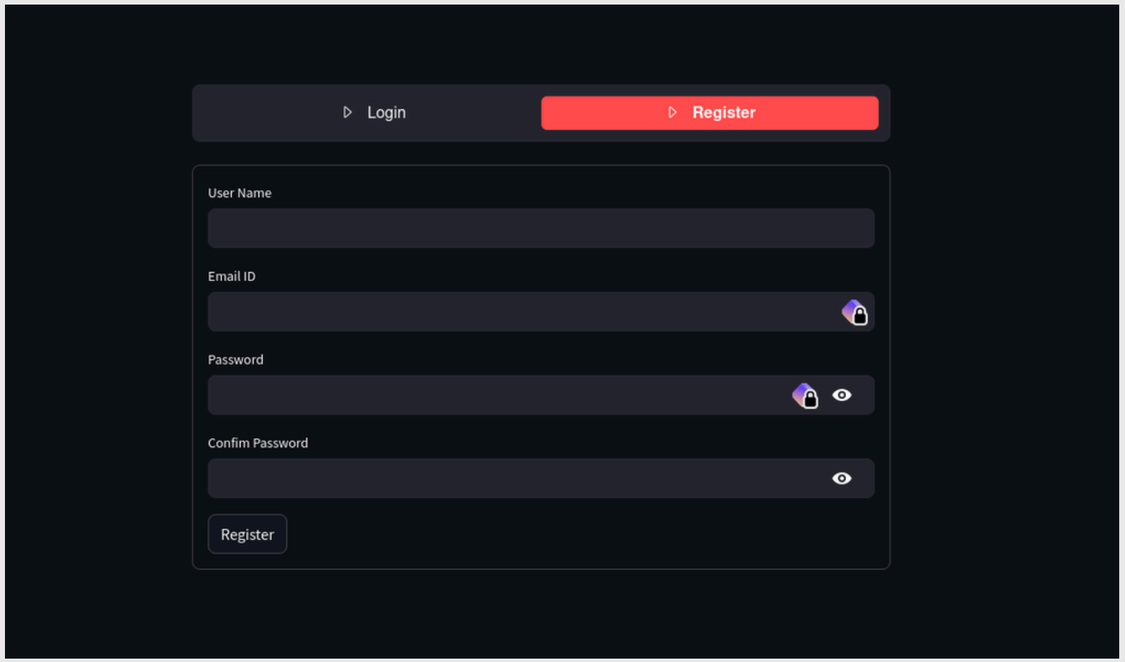
1. POSTS
   - To store post related information
   - Information in this table is displayed in the feed section of the website
   - A subset of this table is used in the MY POSTS section and LIKED PAGES section
2. USERS
   - To store user information
   - Used for login/register
   - Used to view owner information of posts
3. REACTIONS
   - To store liked posts and user who liked it.
   - This table is used to get like count of a post
   - This table along with POSTS table is used for LIKED POSTS section.



```
mysql> DESC POSTS;
+-------------+--------------+------+-----+---------+-------+
| Field       | Type         | Null | Key | Default | Extra |
+-------------+--------------+------+-----+---------+-------+
| POST_ID     | int          | NO   | PRI | NULL    |       |
| OWNER_EMAIL | varchar(20)  | YES  | MUL | NULL    |       |
| POSTED_TIME | datetime     | YES  |     | NULL    |       |
| POST_TITLE  | varchar(20)  | YES  |     | NULL    |       |
| POST_DESC   | varchar(200) | YES  |     | NULL    |       |
| LIKE_COUNT  | int          | YES  |     | 0       |       |
| POST_IMG    | longblob     | YES  |     | NULL    |       |
+-------------+--------------+------+-----+---------+-------+
7 rows in set (0.01 sec)

mysql> DESC REACTIONS;
+-------------+-------------+------+-----+---------+-------+
| Field       | Type        | Null | Key | Default | Extra |
+-------------+-------------+------+-----+---------+-------+
| POST_ID     | int         | YES  | MUL | NULL    |       |
| OWNER_EMAIL | varchar(20) | YES  | MUL | NULL    |       |
+-------------+-------------+------+-----+---------+-------+
2 rows in set (0.00 sec)

mysql> DESC USERS;
+-------------+--------------+------+-----+---------+-------+
| Field       | Type         | Null | Key | Default | Extra |
+-------------+--------------+------+-----+---------+-------+
| FIRST_NAME  | varchar(15)  | NO   |     | NULL    |       |
| SECOND_NAME | varchar(15)  | NO   |     | NULL    |       |
| EMAIL_ID    | varchar(20)  | NO   | PRI | NULL    |       |
| PASSWORD    | varchar(200) | NO   |     | NULL    |       |
| DOB         | date         | YES  |     | NULL    |       |
+-------------+--------------+------+-----+---------+-------+
5 rows in set (0.00 sec)
```

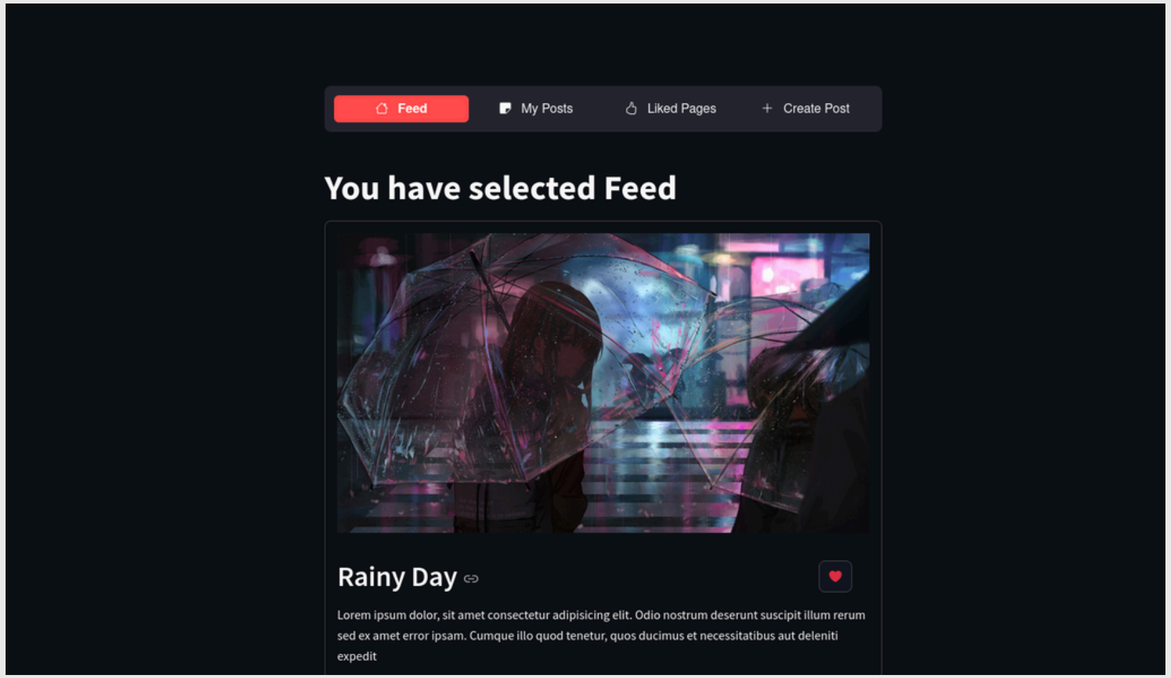


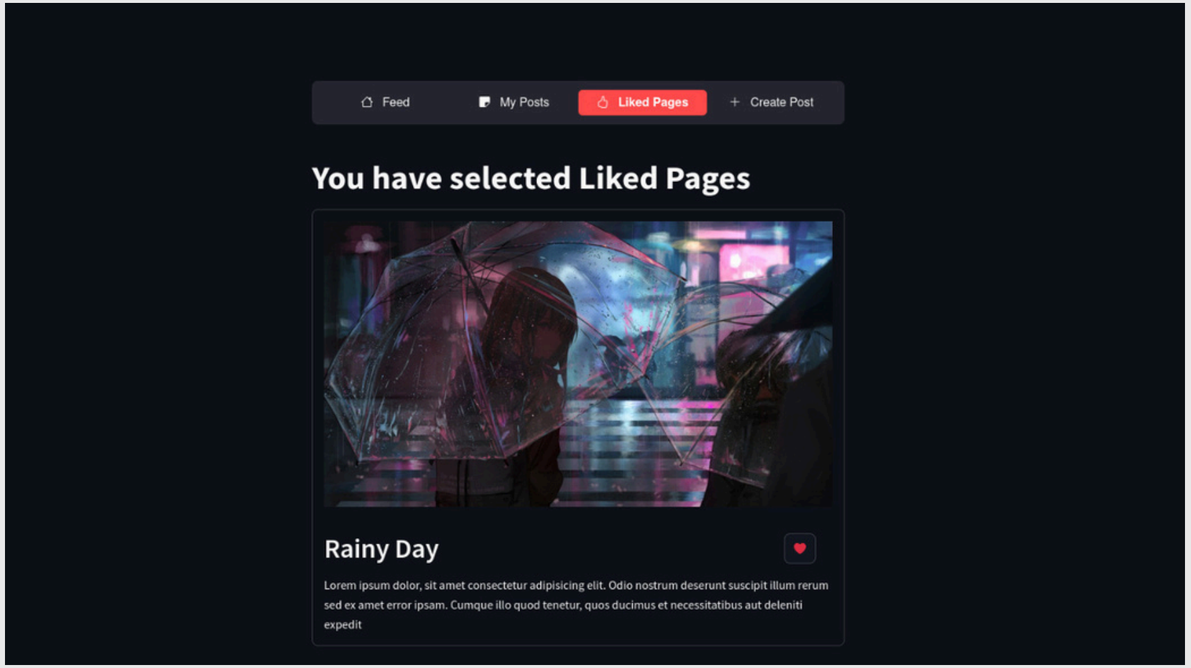
LOGIN / REGISTER PAGE

- For new registration, check if the email id already exists in database.
- If not insert new user info into database.
- For existing user login, check whether the email id and password is in database.

FEEDS PAGE

- Retrieve information about all posts, ordered by date and no. of likes.
- Retrieve username of the owner of the post from USER table.
- User can like a post which will add the post to LIKED PAGES and increment like count of the post



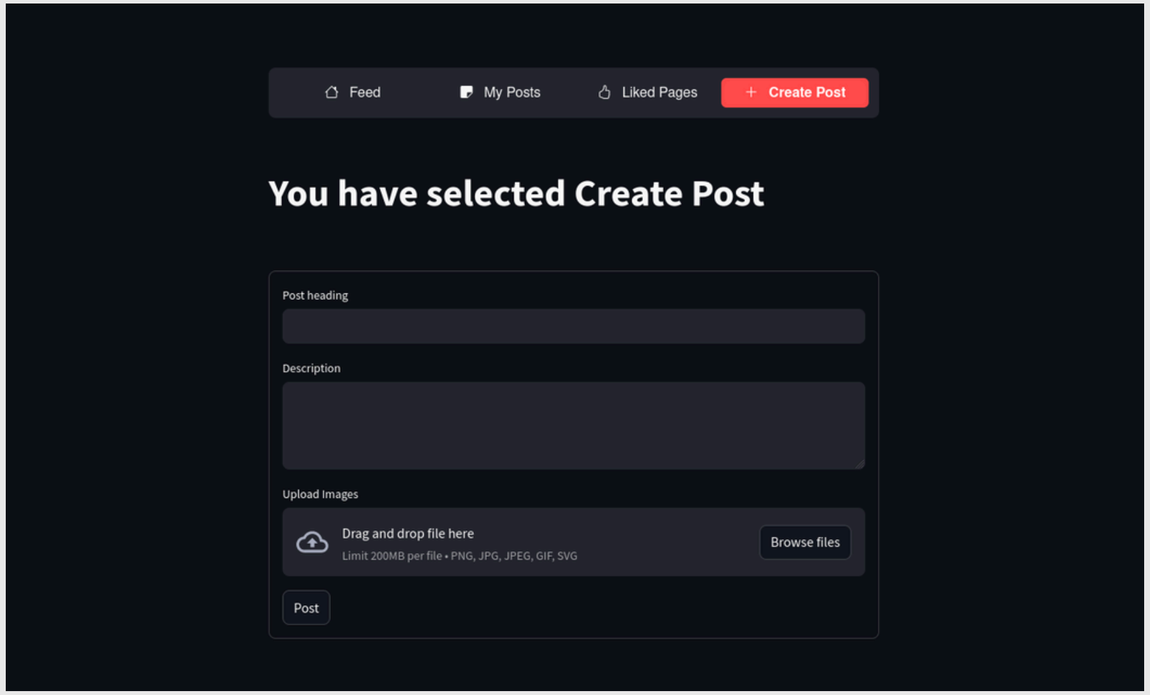


LIKED POSTS PAGE

- Shows all posts that are liked by the current user.

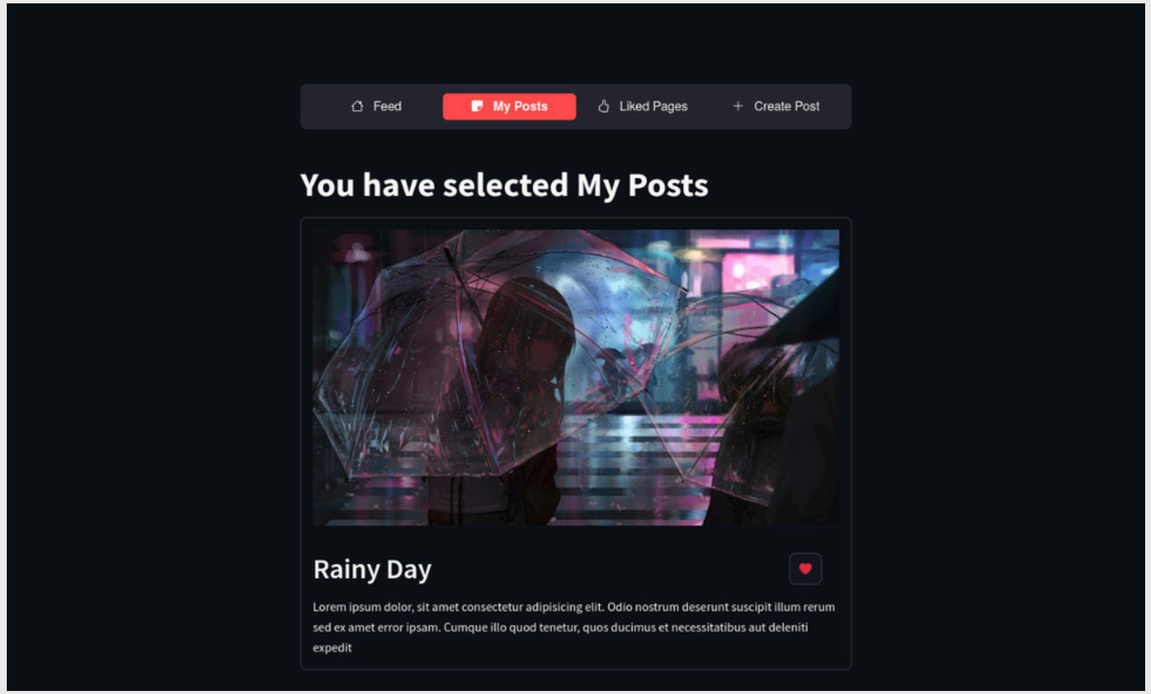
CREATE POST PAGE

- User can enter title, description and an image for a post.
- After pressing the post button post information is added to POSTS table.
- This post will now be visible in the FEED section as well as MY POSTS section.



MY POSTS

- Subset of POSTS table.
- Shows only those posts for which posts's owner email matches current user email.
- The posts is ordererd by date and time.



Thank you!