Assignment 1

(confluence)

Scenario:

Confluence is a university app, where students can make their personal idea page, get page likes
from fellow students, and if the idea is compelling enough - also receive appreciation money (amounts less than Rs 1000) from the same. Students can also add each other as friends to their
friends list.

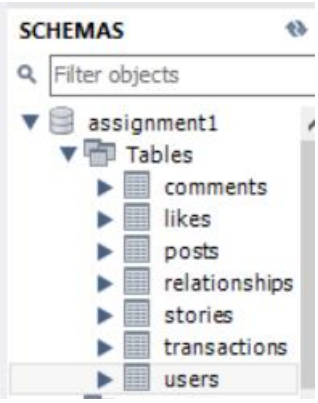
Tasks:

1. Create schema/tables with sample data to record the transactions (appreciation money send/receive) being made between the students; to maintain the friend list and track the page likes made.
[Points for listing out the reasons/assumptions behind the designed schema, and the entity relationship diagram. E.g. one student - one page]

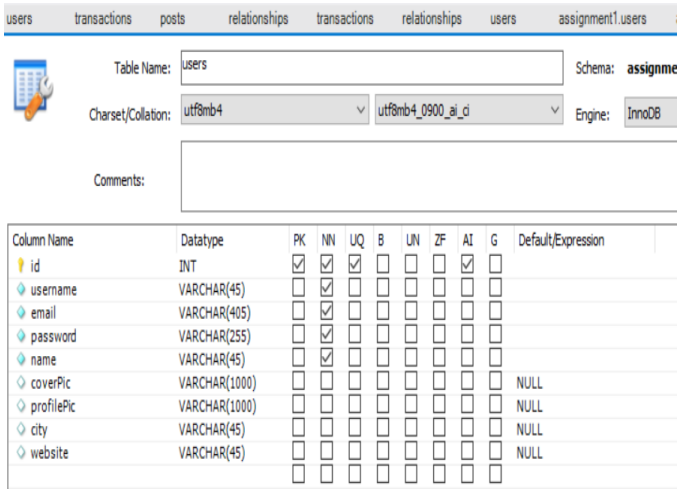
2. Create a dashboard with underlying SQL queries that takes processed data from these tables to:
a. Be able to see the winners and losers in terms of their net money made in descending order
b. Generate recommendations for each student to read new pages, based on the pages that their friends have liked and that they have not liked yet.
[for short-term assessment, fine with providing only the SQL query with results, however additional points for showing the results in the dashboard

Tasks 1

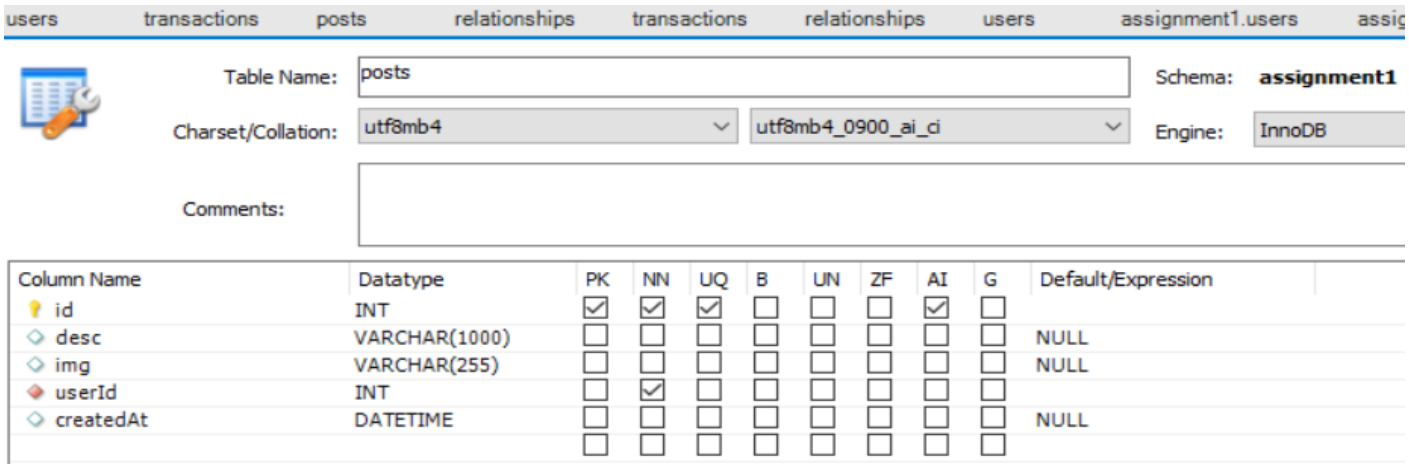
DB tables:



USER



POST



LIKES

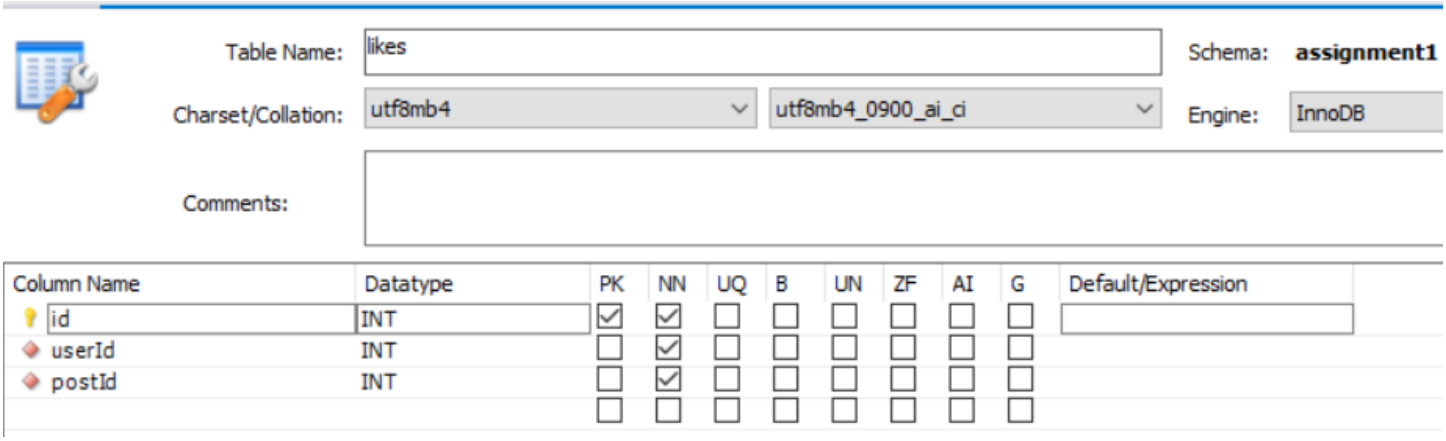


Table Name: likes
Schema: assignment1
Charset/Collation: utf8mb4 / utf8mb4_0900_ai_ci
Engine: InnoDB
Comments:

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
id	INT	☑	☑	☐	☐	☐	☐	☐	☐	
userId	INT	☐	☑	☐	☐	☐	☐	☐	☐	
postId	INT	☐	☑	☐	☐	☐	☐	☐	☐	
		☐	☐	☐	☐	☐	☐	☐	☐	

COMMENTS

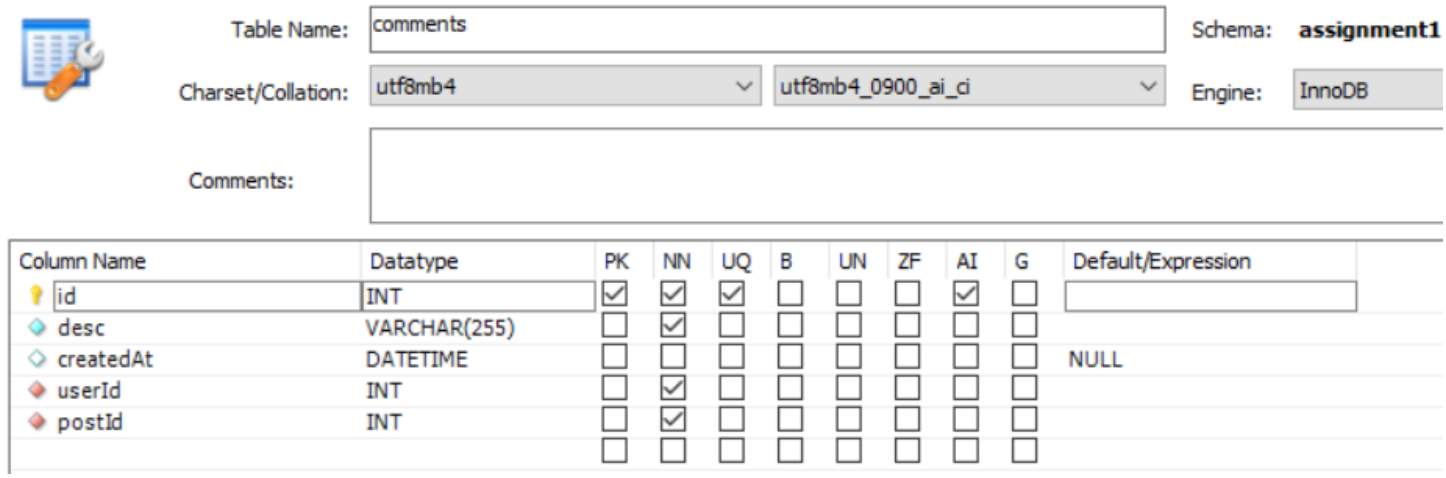
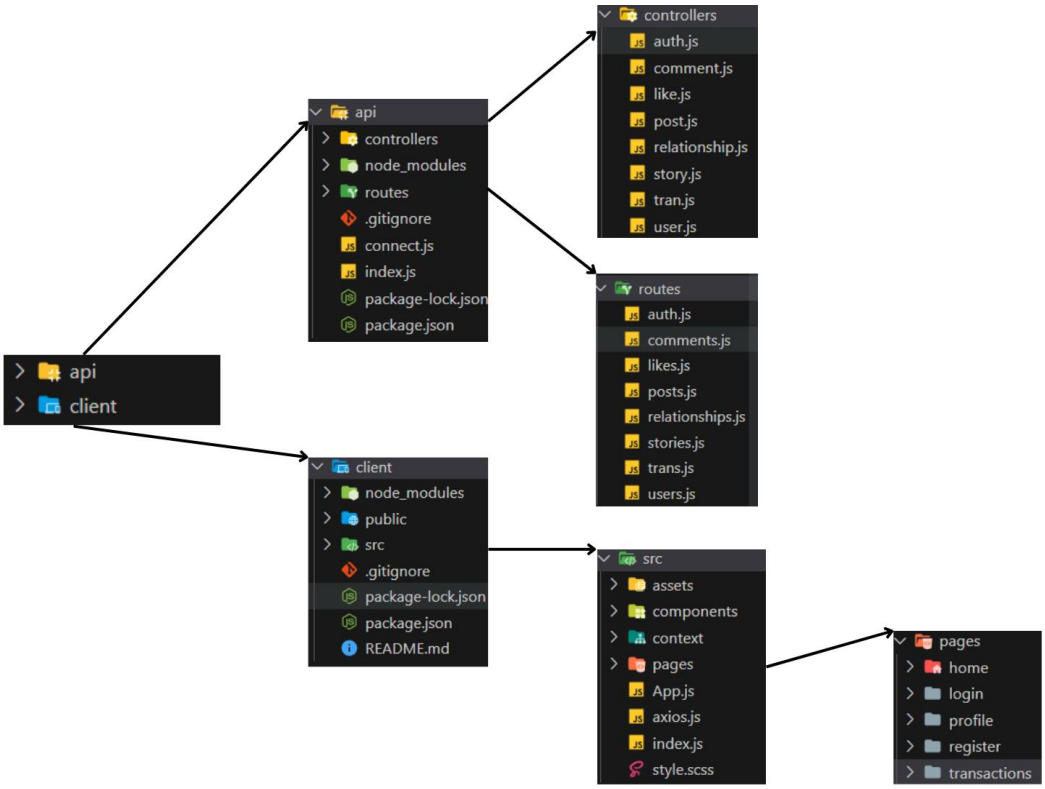
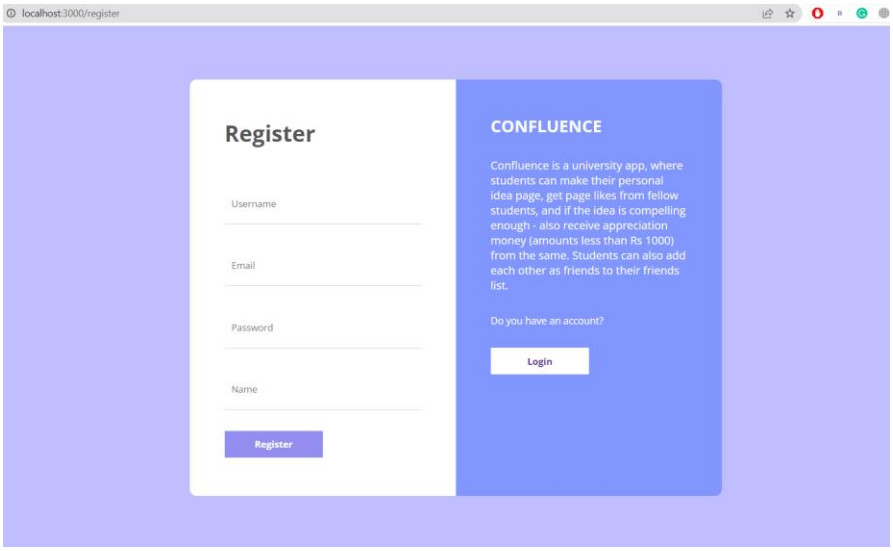


Table Name: comments
Schema: assignment1
Charset/Collation: utf8mb4 / utf8mb4_0900_ai_ci
Engine: InnoDB
Comments:

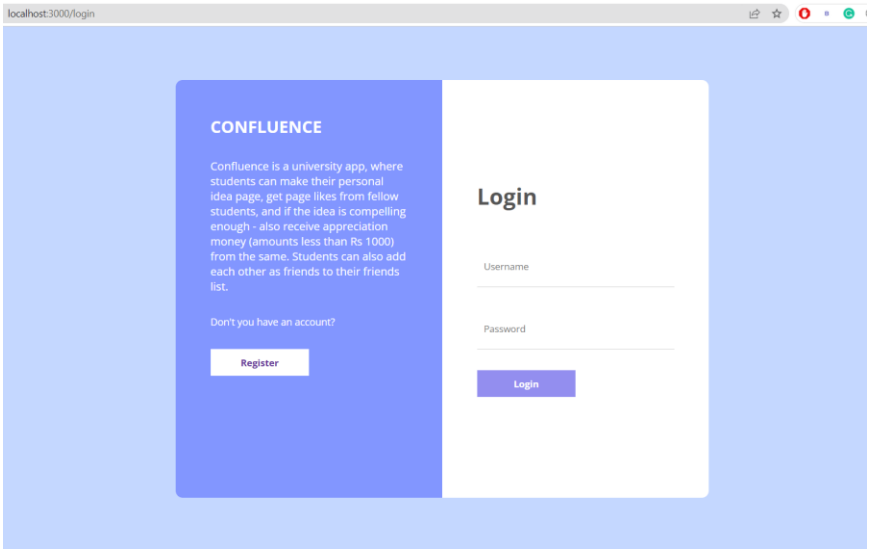
Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
id	INT	☑	☑	☑	☐	☐	☐	☑	☐	
desc	VARCHAR(255)	☐	☑	☐	☐	☐	☐	☐	☐	
createdAt	DATETIME	☐	☐	☐	☐	☐	☐	☐	☐	NULL
userId	INT	☐	☑	☐	☐	☐	☐	☐	☐	
postId	INT	☐	☑	☐	☐	☐	☐	☐	☐	
		☐	☐	☐	☐	☐	☐	☐	☐	





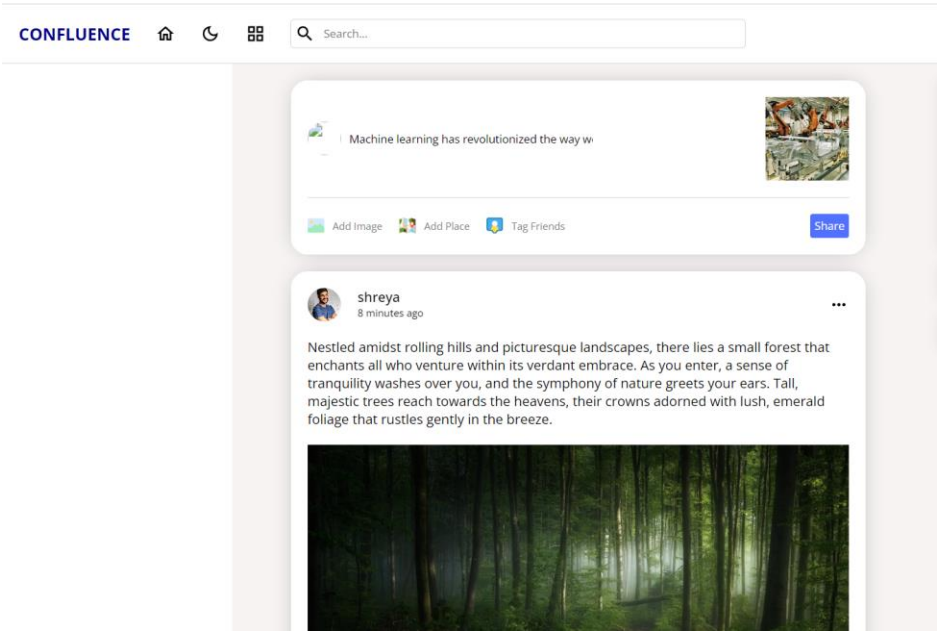
Register page for user

Registration and enters user values to db with password in encrypted format



Login page

for user login and verify user values in db with password in decrypted format



HOME pg

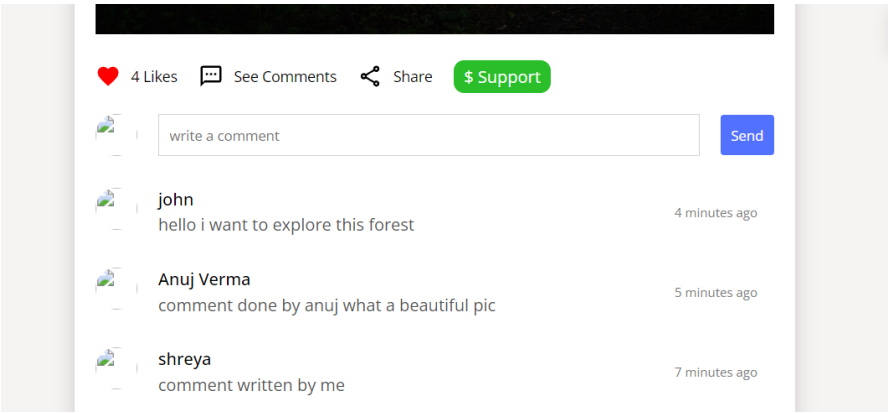
Here the user can view the post and blogs of other user

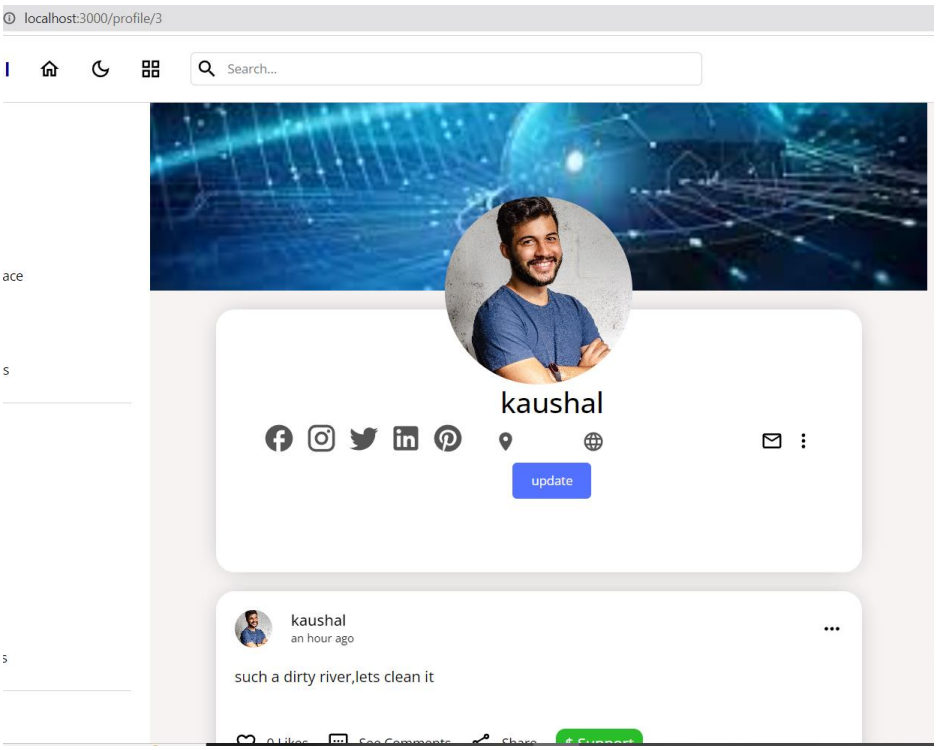
+

He can add his new post

Post Functionalities

Other users can like the post
Comment on post
Support the post by making transactions too



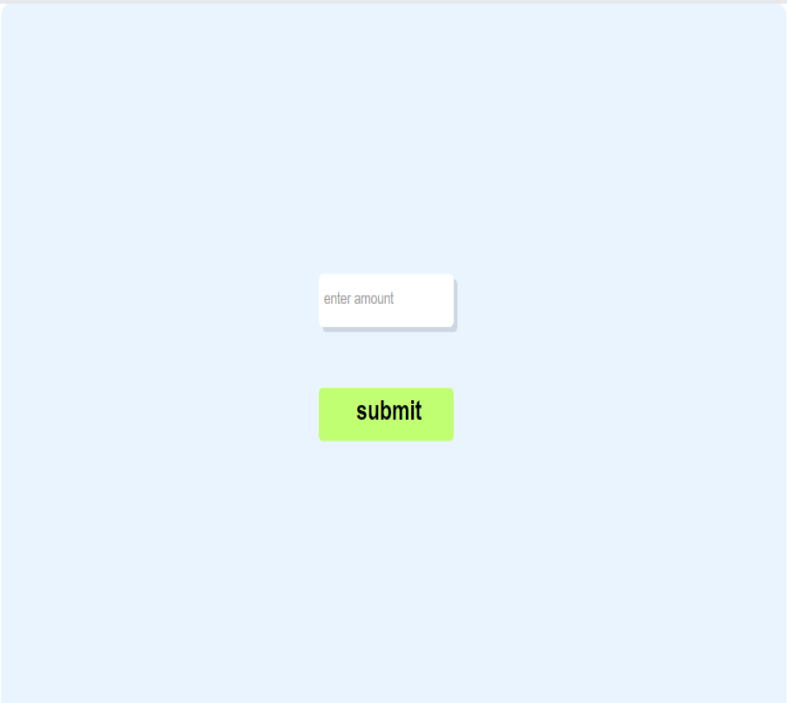


Profile Pg

Users can view the public profiles and also **follow** then and see their posts

```jsx
import React from "react";
import { useParams } from "react-router-dom";

const TransPage = () => {
  const { userId, postId } = useParams();

  const [amount, setAmount] = useState("");

  const handleAmountChange = (event) => {
    setAmount(event.target.value);
  };

  const handleSubmit = async (event) => {
    event.preventDefault();

    try {
      // Make a request to store the amount in the database
      await makeRequest.post("/money", { amount });
      // Redirect to the below page without using useHistory
      navigate("/")
    } catch (error) {
      console.error(error);
    }
  };
```

```jsx
  return (
    <div className="home">
      <div>
      <h1>Hello Transaction</h1>
      <p>User ID: {userId}</p>
      <p>Post ID: {postId}</p>
      </div>
      <form onSubmit={handleSubmit}>
      <label>
        Enter Amount:
        <input type="number" value={amount} onChange={handleAmountChange} />
      </label>
      <button type="submit">Submit</button>
      </form>
    </div>

  );
};

export default TransPage;
```



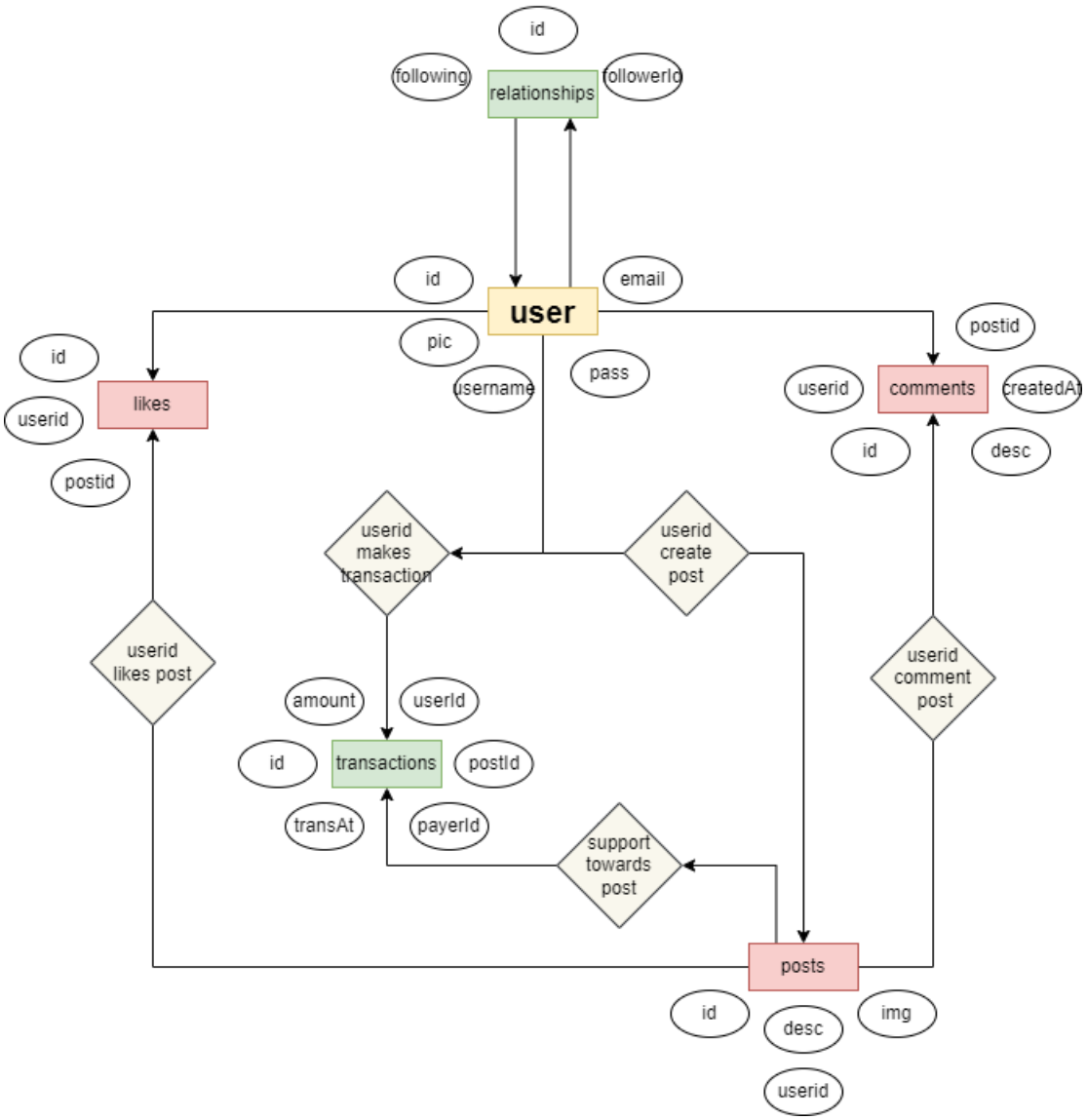
transaction Pg

Users can enter the support amount and transfer to the post owner

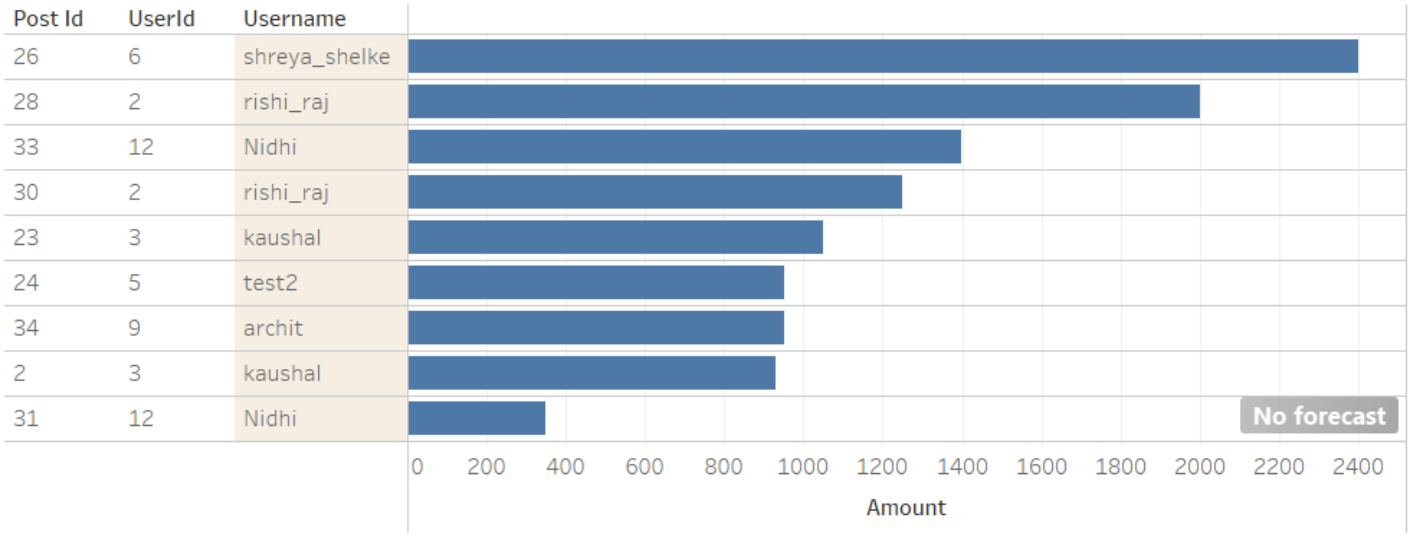
Tasks 2

ER diagram

Confluence



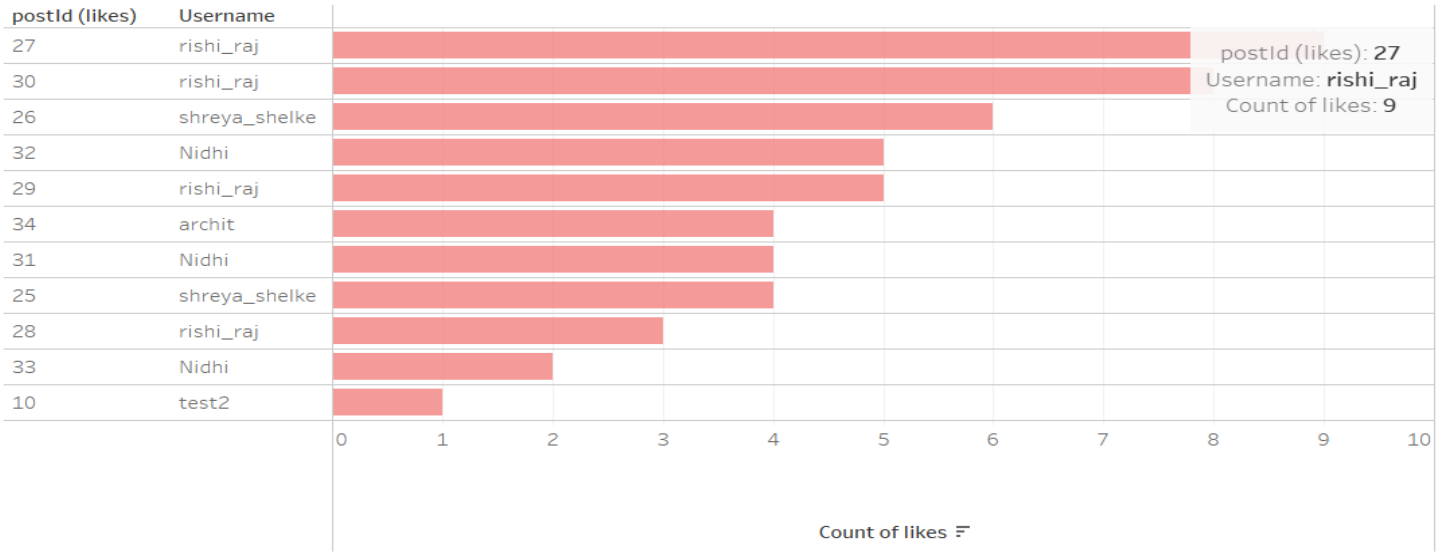
Support amounts



Summary	
Count:	9
SUM(Amount)	
Sum:	11,277
Average:	1,253.00
Minimum:	350
Maximum:	2,400
Median:	1,049.00

the above data shows that username “Shreya Shelke” has received most amount of transaction/support amount, whereas Nidhi has the least

POST likes



the above data shows that username “rishi_raj” has received most amount of likes on his postId 27, whereas test2 has the least. Therefore its most probable that the post 27 of rishi_raj would be recommended to his followers and other users.

THANK YOU SIR,

(Kaushal Shelke)