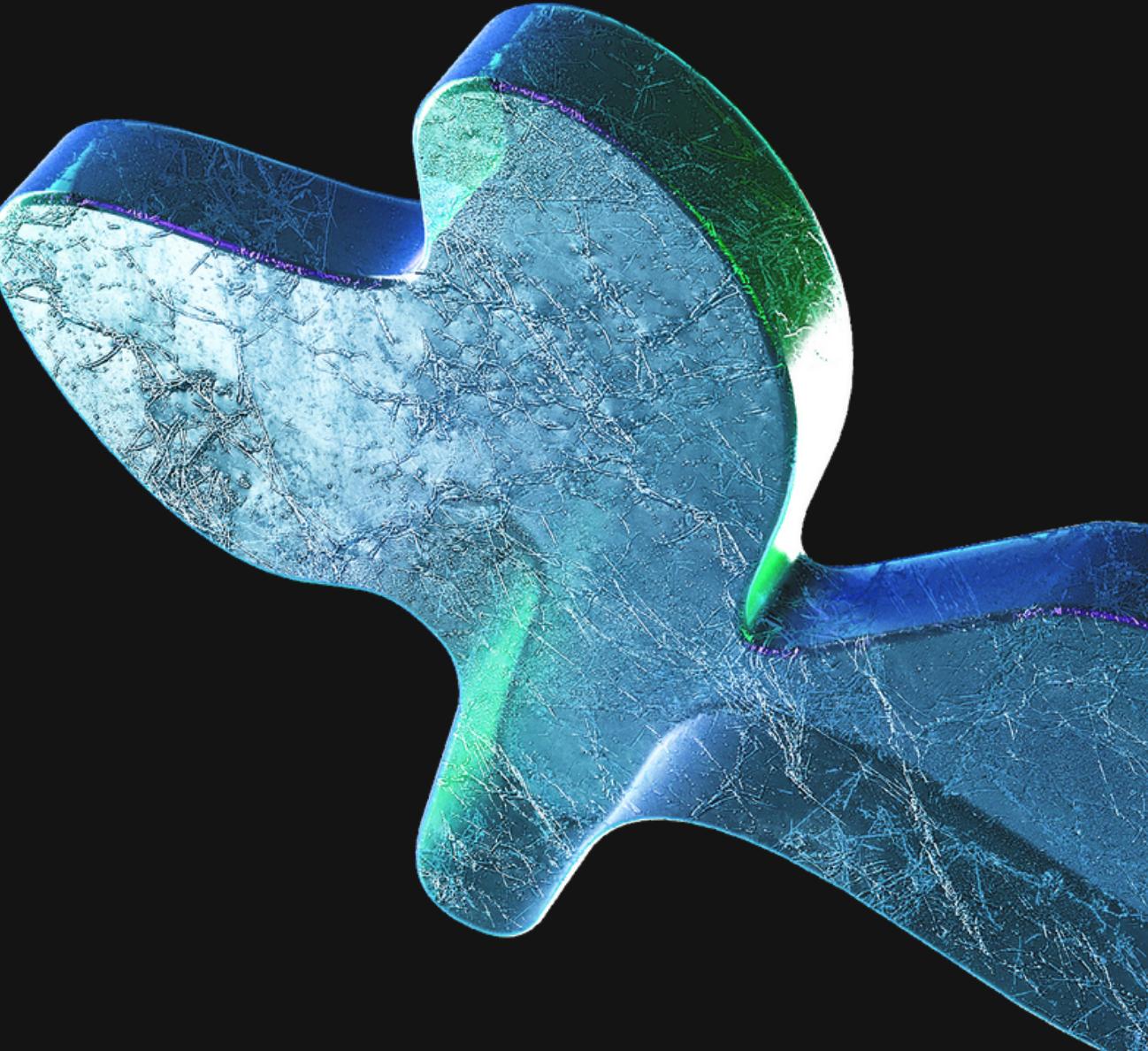




Project Report

commutify

A New Way to connect to your Community!



Commutify-Team Members

Teamwork is the ability to work together toward a common vision.

→ MENTORS

Dr. AMRITA CHATURVEDI

MR. UMANG JAIN

MR. ANURAG TIWARI

MR. SUSHANT KUMAR



TARUN ARORA

Roll No.: 20075092

tarun.arora.cse20@itbhu.ac.in

DEVASHISH RAI

Roll No.: 20075025

devashish.rai.cse20@itbhu.ac.in



Why Commutify?

Our Motivation Behind It.



Commutify provides a secure way to connect and share any information to anyone around the world.

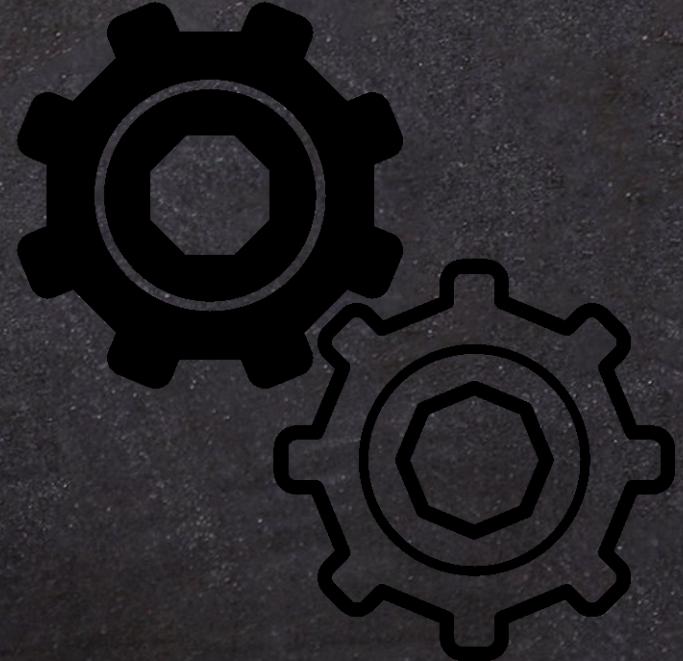
Users would require only the username to connect to someone i.e. no any sensitive information is not required.

User can send friend requests to anyone and get added to any private group just by a request.

A Simple cool UI so that users may not get addicted, and increase work productivity

Tech-Stack Used

It's all talk until the code runs.
— Ward Cunningham



MYSQL

MySQL being very fast, reliable, and easy to use for database management, has been used to create and manage databases.

DJANGO

Django is a high-level Python web framework and has been used for the development of this secure and maintainable website.

DJANGO REST FRAMEWORK

DRF has been used to build WEB APIs and provides authentication, validation, and serialization for website.

DJANGO WEBSOCKETS

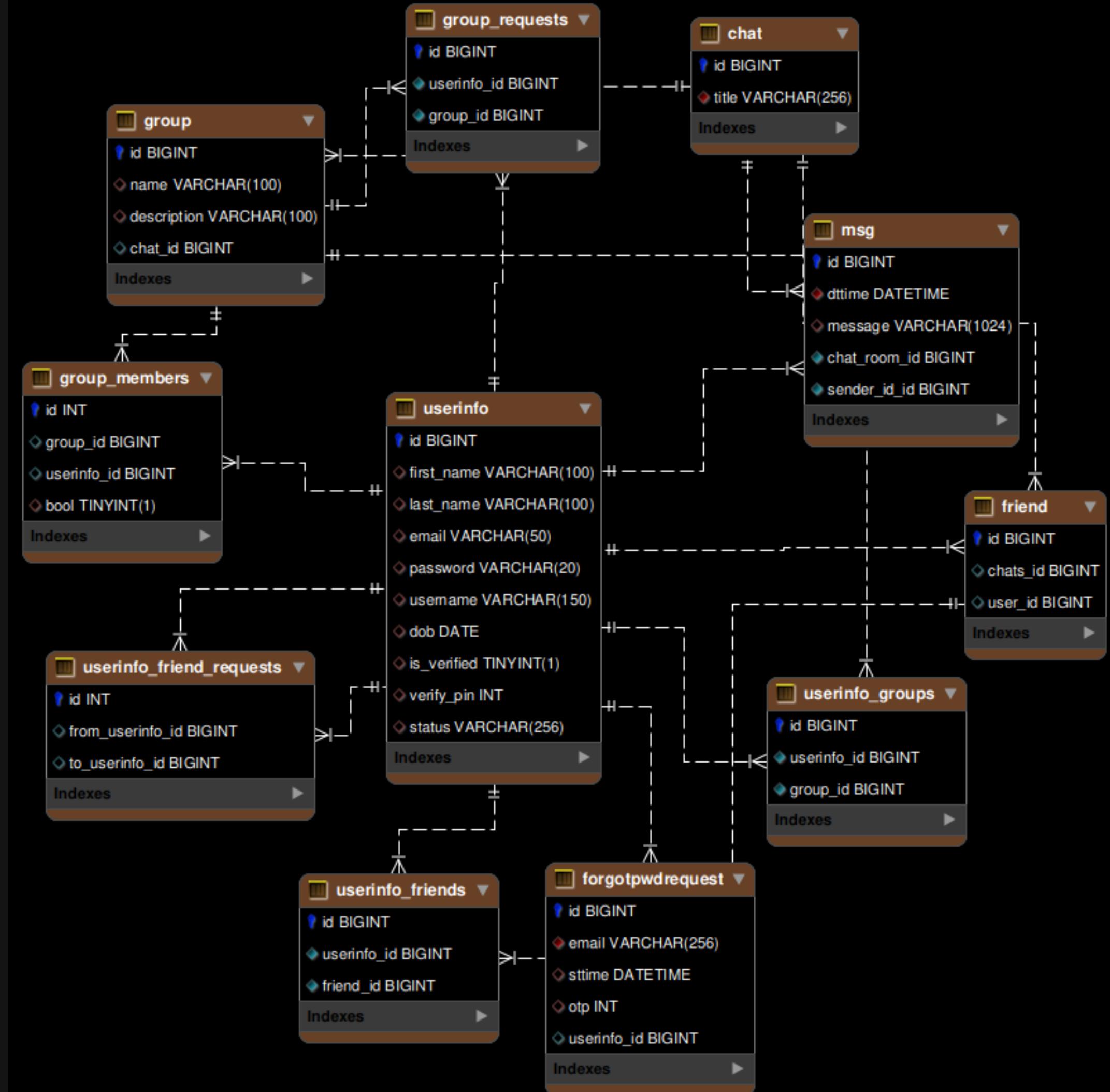
It facilitates the support of WebSockets in Django, which manages the communication between the client and the server on a live basis.

VUE.JS

Vue is used as a frontend JavaScript framework to develop UI with the help of Material UI, vuetify.

ER Diagram

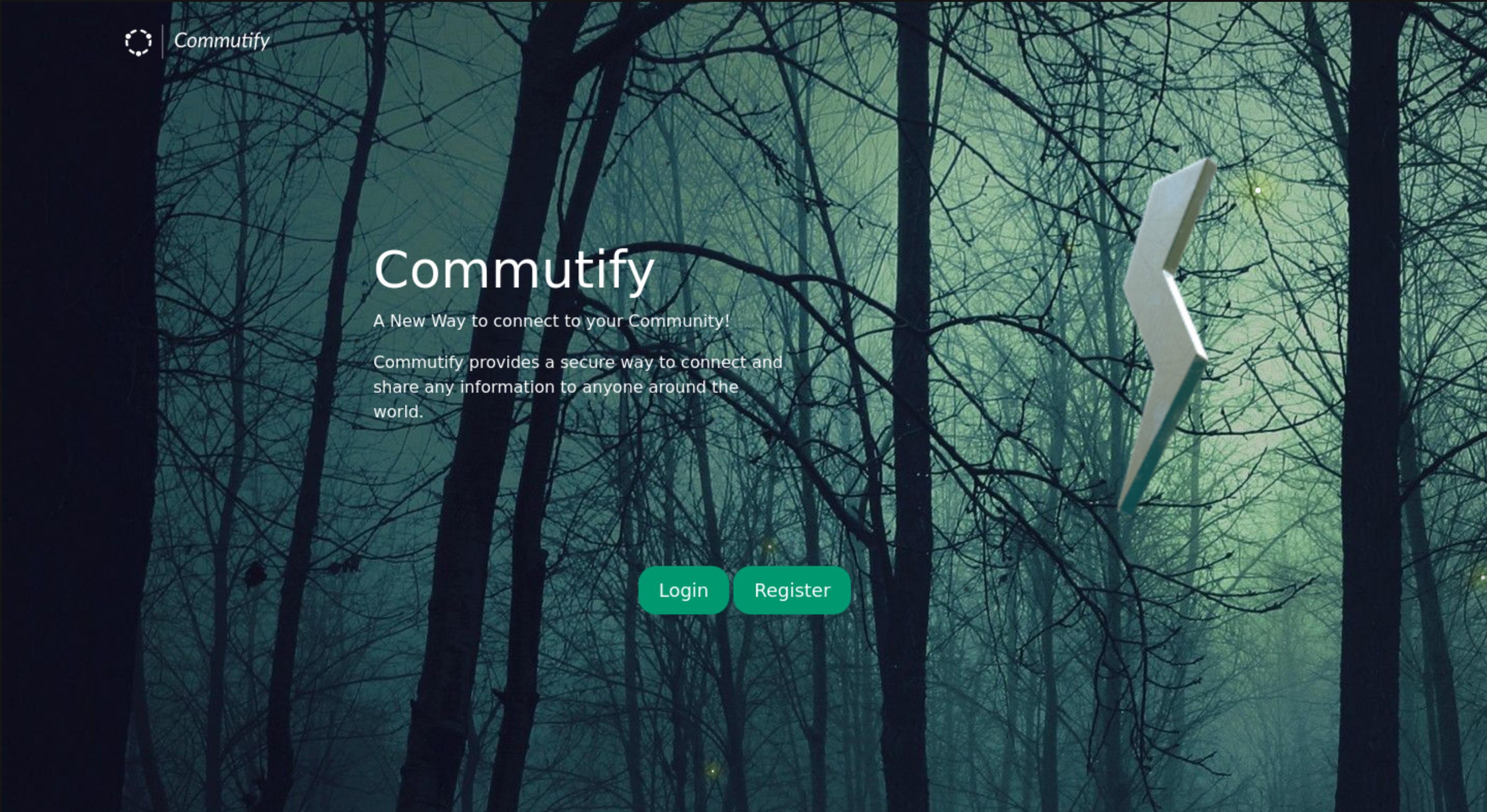
Entity-Relationship (ER) model/diagram is a data model utilized to represent the information or data aspects related to a database abstractly.



Main Features of Commutify

- Users can interact through real-time messaging which has been implemented using web sockets.
- In order to chat with any person, you first need to send a friend request which the other person has to accept, hence making it a secure social networking site.
- Users can add profile picture and short description in their profile, and send and receive friend requests through user name
- Feature to make groups for chatting with multiple people, with a separate section showing details of group members, and their admin/non-admin status
- Group admins can change group name, description and group photo, can add and remove people, and toggle their admin status.

Main Page



The background of the main page features a dark, atmospheric forest scene. A large, bright white lightning bolt strikes a central tree trunk from the top right, illuminating the surrounding branches and creating a dramatic contrast against the dark foliage.

Commutify

A New Way to connect to your Community!

Commutify provides a secure way to connect and share any information to anyone around the world.

[Login](#) [Register](#)

Profile Page

The image shows a profile page from a social networking application called Commutify. The background features a dark theme with a grid of light gray diamond shapes. At the top left is the Commutify logo and name. At the top right is a blue house icon. The central feature is a circular profile picture of a young man with dark hair and glasses, wearing a white t-shirt. Below the picture, the name "Devashish Rai" is displayed in large white text, followed by the handle "deva" in smaller blue text. A green link text "Check for the profile page." is visible. At the bottom left is a blue button labeled "Edit Profile". At the bottom center, there is a red heart icon and the text "3 Friends".

Commutify

Devashish Rai

deva

Check for the profile page.

Edit Profile

3 Friends

Requests Page

The screenshot shows the Requests Page of the Commutify app. At the top left is the Commutify logo and name. At the top right is a house icon. Below the header is a search bar with a yellow background and a purple 'SEARCH USER' button. A dark overlay box contains a 'Welcome' message and a 'Description' of 'Welcome to commutify chat server.' On the right side of this box is a red 'Group Request' button. The main content area displays three user profiles in separate dark boxes:

- tarora**
Tarun Arorra
Friend Request
- ashish**
Ashish Rai
Friend Request
- devrai**
Devavish Rai
Friend Request

Friend Chat

Commutify

FRIENDS

Ashish Rai

Tarun Arorra

Devashish Rai

GROUPS

2

Ashish Rai

←

Oops! Probably Codeforces can't be reached right now or your Internet connection is broken.

if you are taking part in the official round right now

13/11/2021 04:20

The first line of each test case contains a single integer n ($2 \leq n \leq 10^6$) — the length of the string s.

13/11/2021 04:21

The second line of each test case contains a string s consisting only of characters 'a', 'b' and 'c'.

13/11/2021 09:51

It is guaranteed that the sum of n over all test cases does not exceed 106.

13/11/2021 09:52

Message

REMOVE FRIEND

VIEW PROFILE

13/11/2021 04:20

13/11/2021 04:21

13/11/2021 09:51

13/11/2021 09:52

Message

Location

Microphone

Group Chat

The screenshot displays a mobile application interface for a group chat. The top navigation bar shows the app logo "Commutify" and a search icon. The main screen is titled "lol" and features a large, scenic background image of a tree at sunset.

Left Side (Friends and Groups):

- FRIENDS:** A list of contacts including "lol", "Welcome", "try", and "a".
- GROUPS:** A list of groups with 1 member, including "a" (last message from tarora on 20/10/2021 15:25), "tarora" (last message from tarora on 20/10/2021 15:26), "Hey!" (last message from tarora on 20/10/2021 15:27), "check" (last message from ashish on 13/11/2021 04:15), and "send message" (last message from ashish on 13/11/2021 04:15).

Bottom Left (Input):

- Message input field with a smiley face icon and placeholder "Message".
- Location and microphone icons for media sharing.

Top Right (Group Information):

- Group name: "lol".
- Group photo: A white rabbit.
- Description: "Description" with a "change" button.
- Edit button: "EDIT".

Bottom Right (Group Users):

- Section title: "Group Users".
- Invitation button: "INVITE USER +".
- List of users:
 - deva (Devashish Rai): You Admin
 - ashish (Ashish Rai): Admin
 - tarora (Tarun Arorra): Member
 - dovrai (Dovrai): [partially visible]



Thank You!

Keep Guiding Us!

THANKYOU