

A MESSAGING SERVICE PROTOTYPE

#### **PRESENTED BY:**

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B.TECH,
METALLURGICAL AND MATERIALS ENGINEERING
IIT PATNA

- User registration and authentication using JSON Web Token(JWT) and Bcryptjs
- 2. Direct messaging: Two users can chat with each other
- 3. Group chat functionality
- 4. Real-time message updates
- 5. Typing indicator: When typing, the recipient gets notified
- 6. User status: Whether you are online or offline
- 7. When new message arrives, it shows notification.

#### **FEATURES**





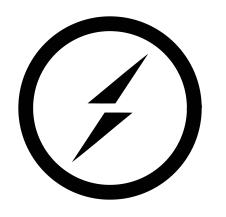


**Node.js and Express.js**Building the Backend of the website



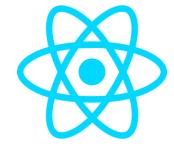
#### **MongoDB**

Storing user chats and group chats data



#### Socket.io

For building real-time connections between users

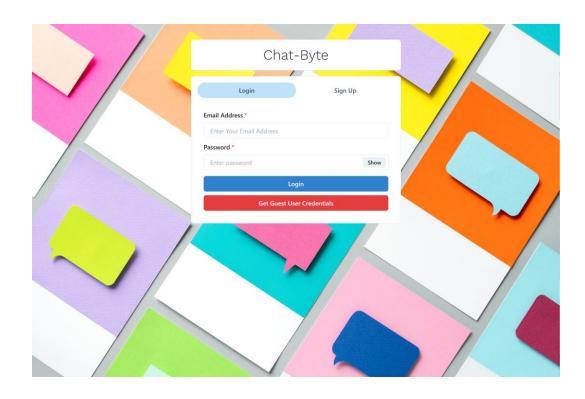


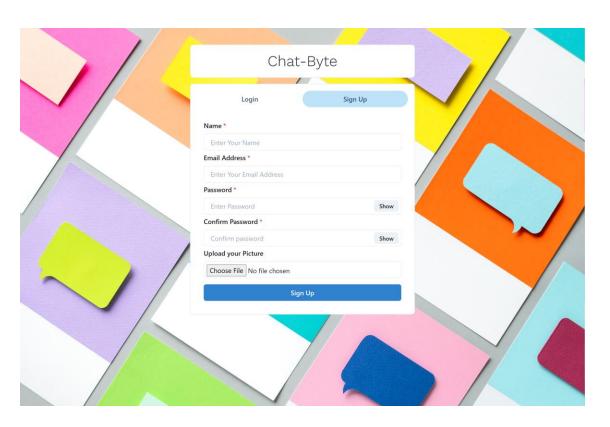


**React.js, Chakra UI**Building User Interface and Frontend

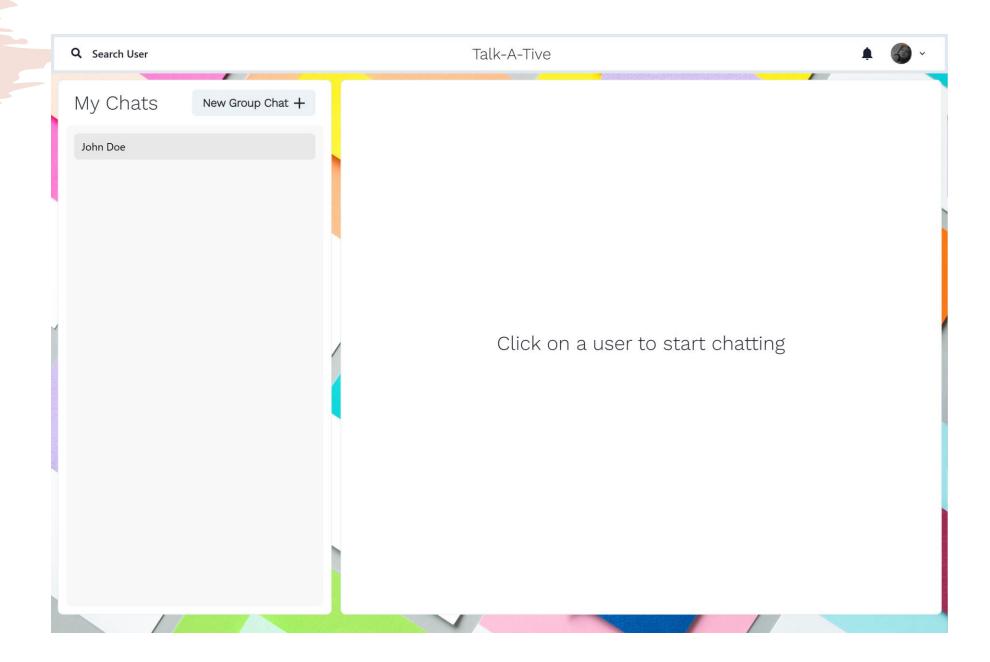


# Login and Signup Pages

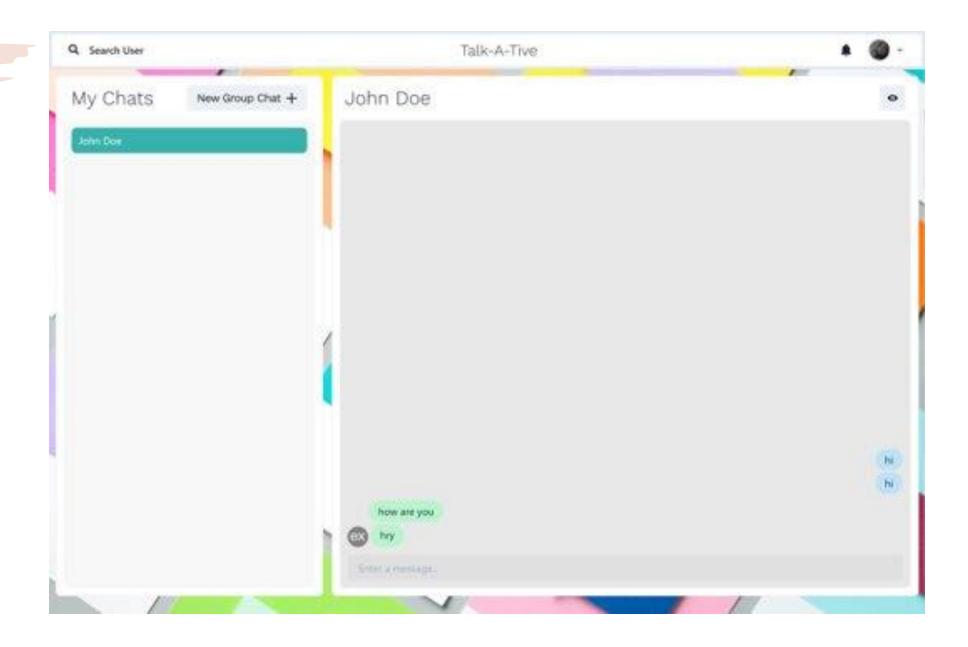


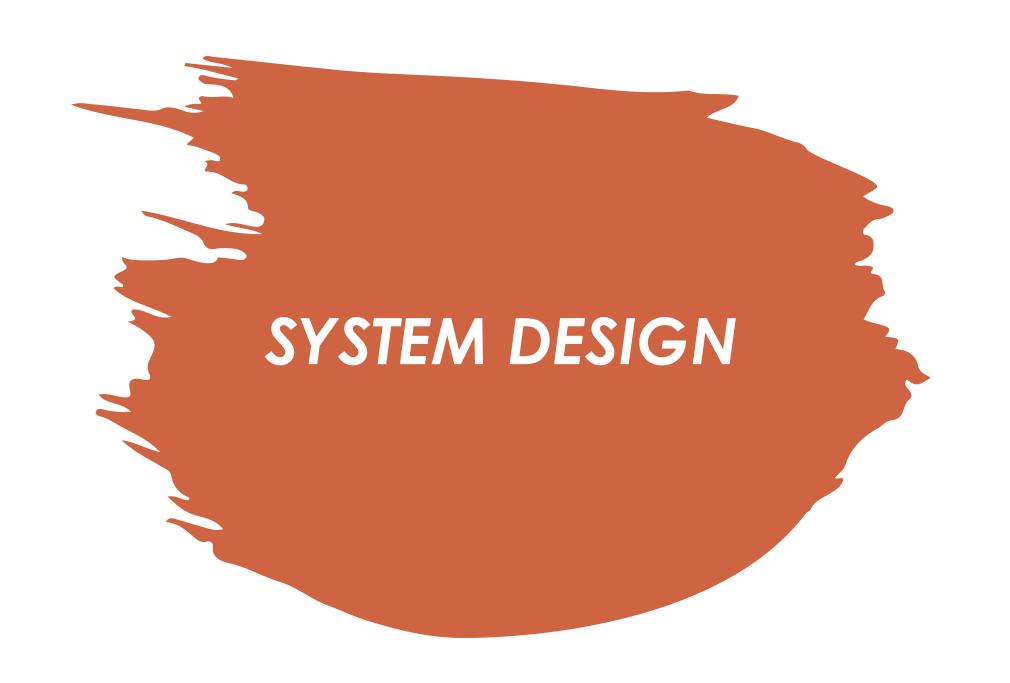


## Home Page

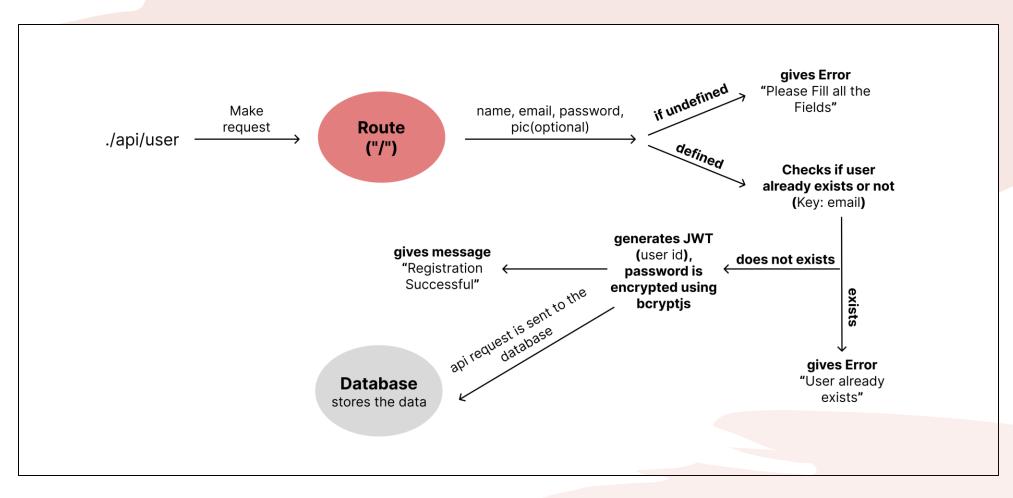


## Chat Page



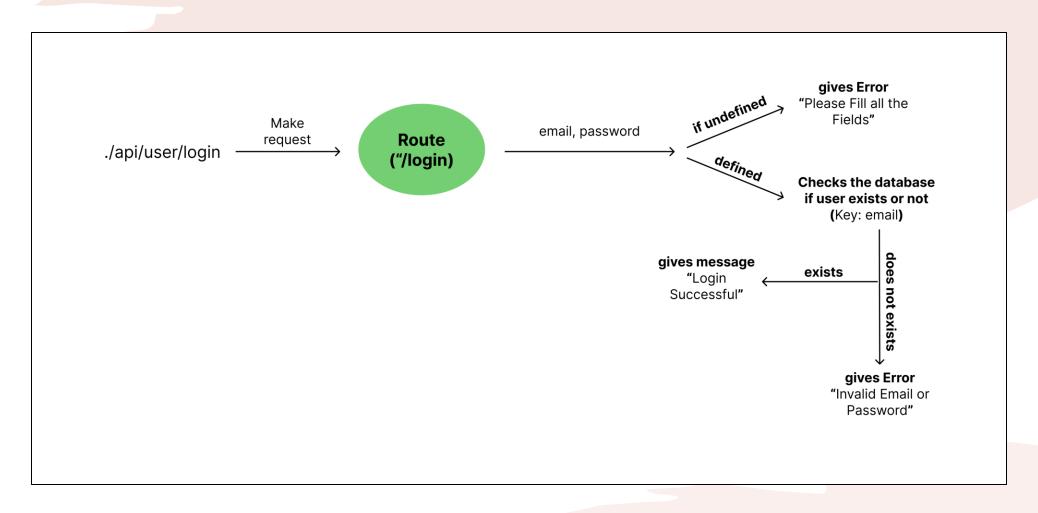


## User Login and Registration



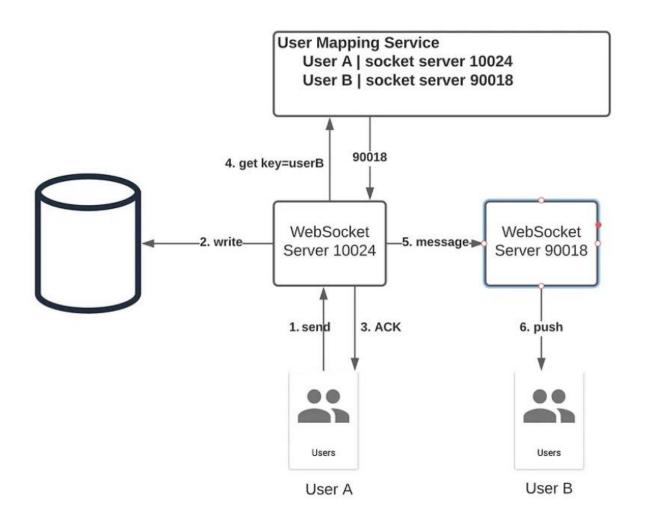
Diagrammatic Representation of User Registration

#### User Login and Registration



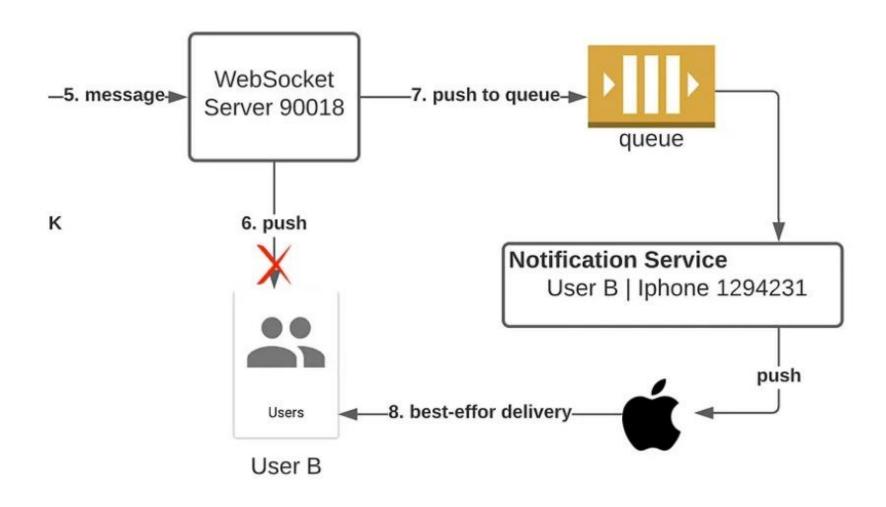
Diagrammatic Representation of User Login

#### Sending Messages between users

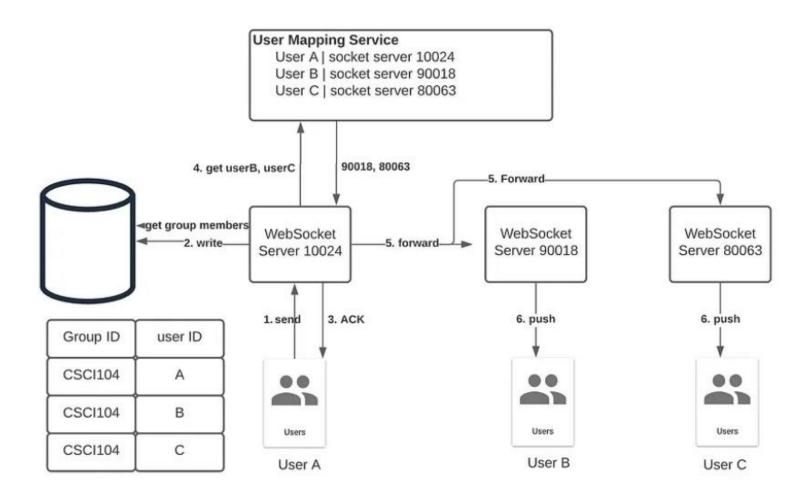


Normal Message Delivery

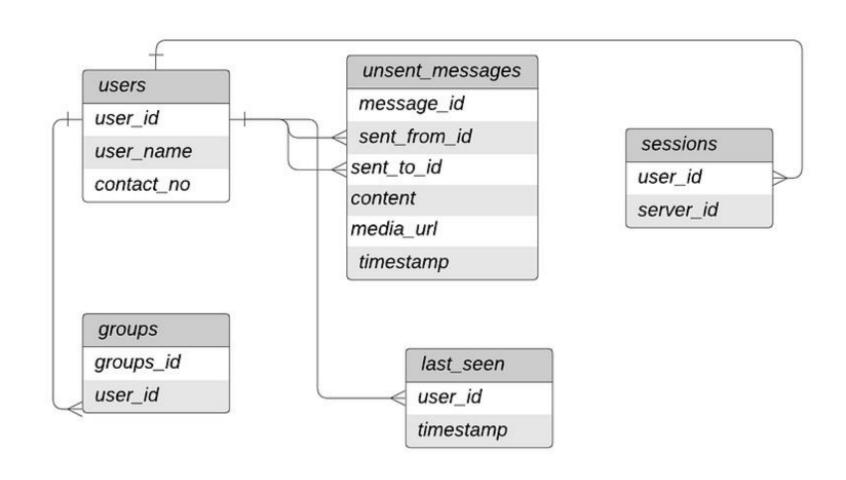
#### Failed Message Delivery



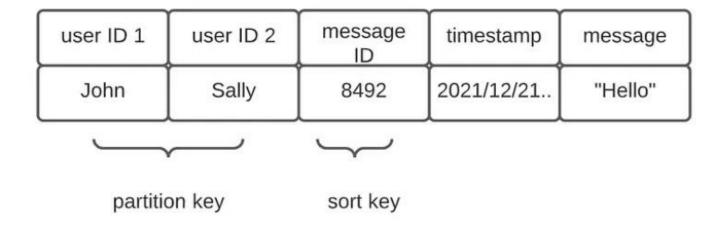
## Group Message Delivery



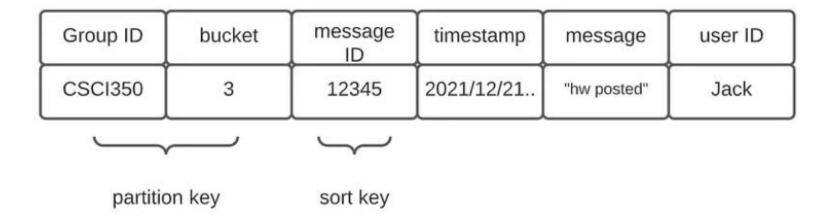
## DB Schema



#### Private Chat Table



#### Group Chat Table



## Deployment

Using herokku functionality

#### SOCIAL IMPACT AND USEFULNESS

- 1. Conversations in a virtual environment are more interactive and engaging.
- 2. A text message with features like personalized emojis, reactions, gifs & media is more interesting than just plain language
- 3. In-app Chat is an instantaneous form of communication
- 4. Brings people closer virtually even if they live far off from each other
- 5. Able to handle a high volume of users, sessions and channels
- 6. Customer can get all the information and queries sorted within an app via live customer service chats

# THANK YOU