

Chat-Byte

A MESSAGING SERVICE PROTOTYPE

PRESENTED BY:

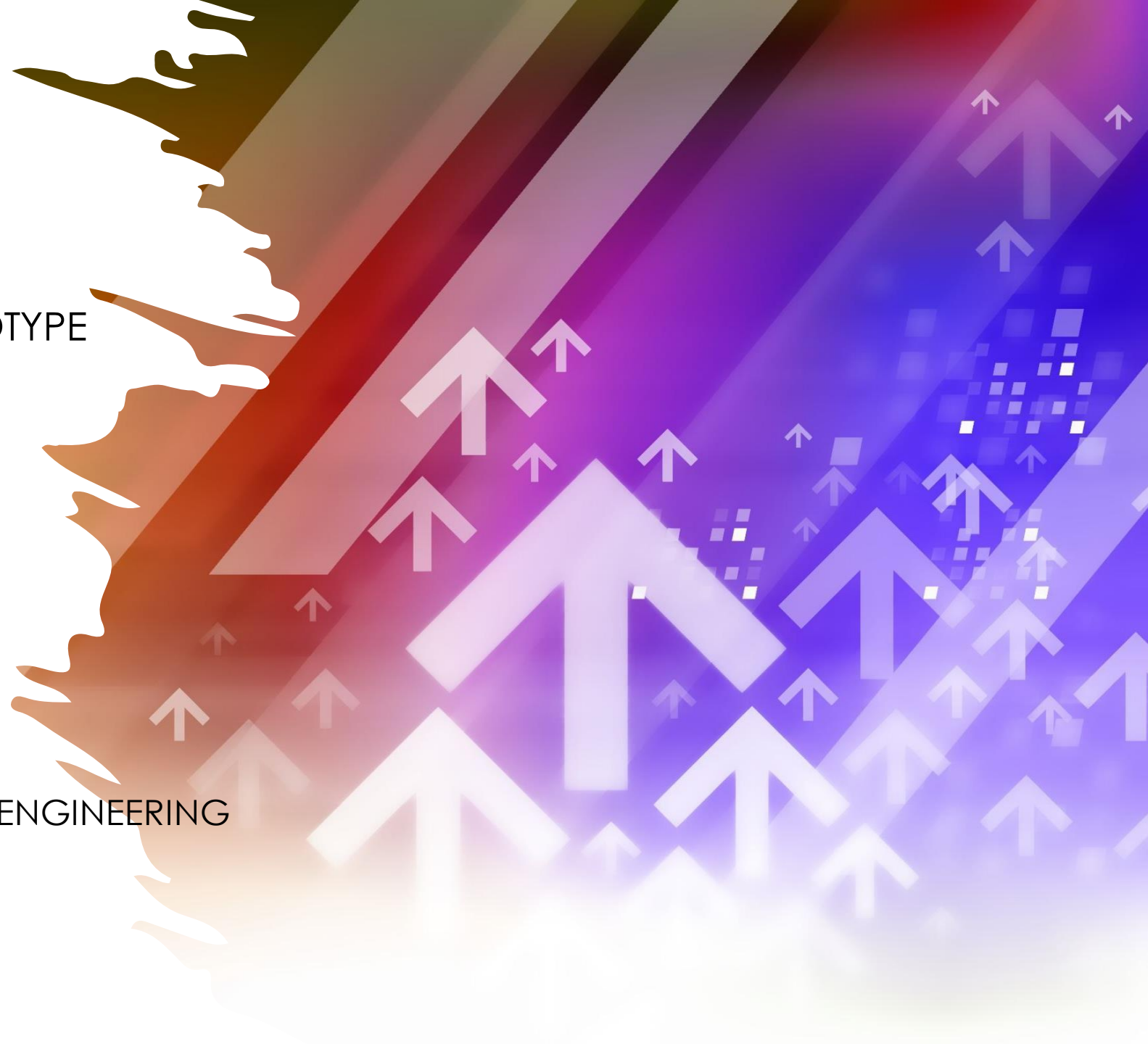
NANDITA GUPTA

2101MM12

B.TECH,

METALLURGICAL AND MATERIALS ENGINEERING

IIT PATNA



FEATURES

1. 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.

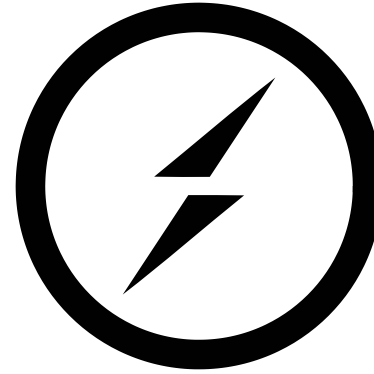
TECH STACK



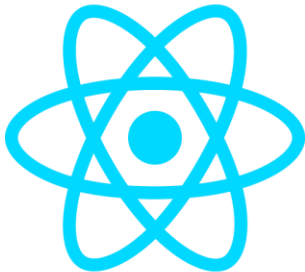
Node.js and Express.js
Building the Backend of the website



MongoDB
Storing user chats and group chats data



Socket.io
For building real-time connections between users

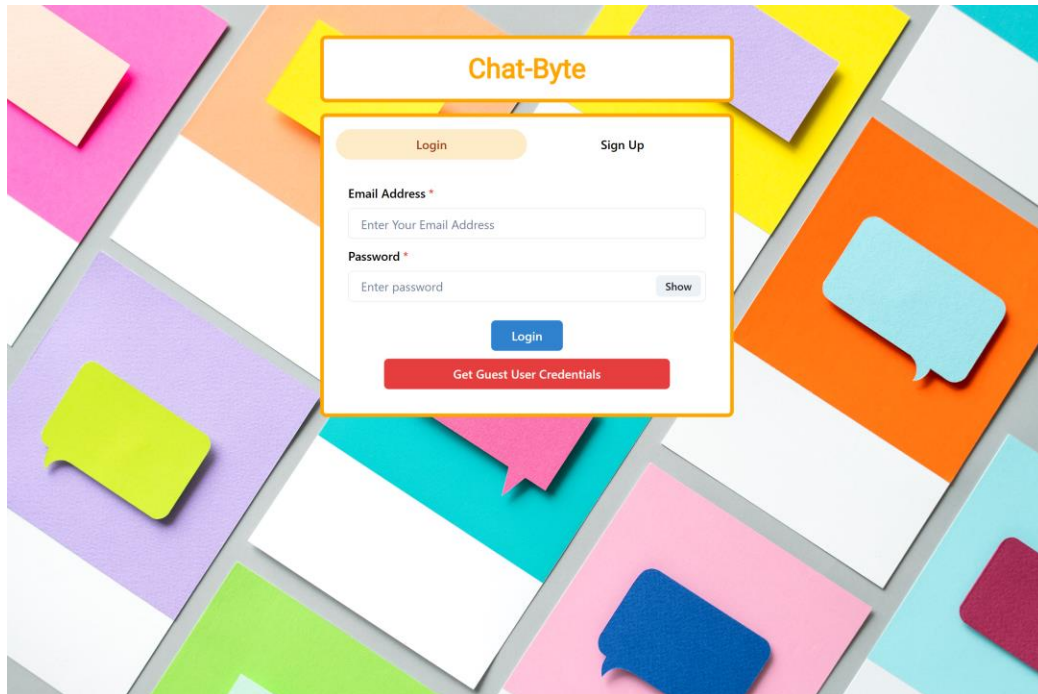


React.js, Chakra UI
Building User Interface and Frontend

A large, horizontal, orange brushstroke with a rough, textured edge, resembling a paint stroke, serves as the background for the text.

USER INTERFACE

Login and Signup Pages



The image shows a web page for 'Chat-Byte' with a login and signup form. The background is a collage of colorful sticky notes and speech bubbles. The form is titled 'Chat-Byte' and has two tabs: 'Login' and 'Sign Up'. The 'Login' tab is selected. The form fields are: 'Email Address *' with a placeholder 'Enter Your Email Address', 'Password *' with a placeholder 'Enter password' and a 'Show' button, and a 'Login' button. Below the form is a red button labeled 'Get Guest User Credentials'.

Chat-Byte

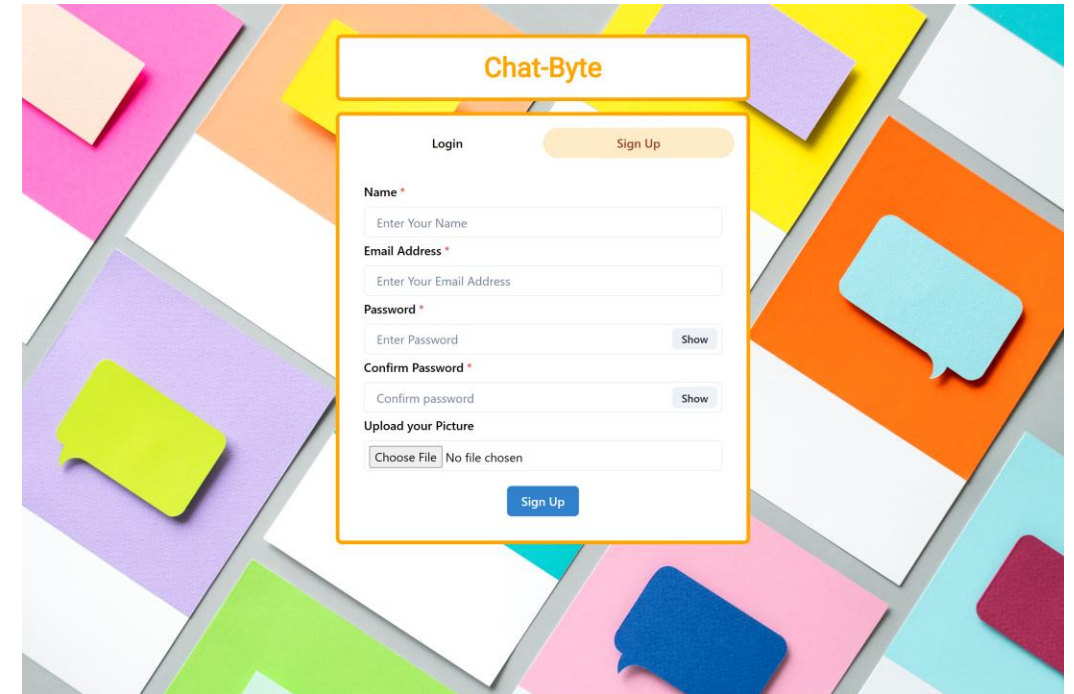
Login Sign Up

Email Address *
Enter Your Email Address

Password *
Enter password Show

Login

Get Guest User Credentials



The image shows a web page for 'Chat-Byte' with a login and signup form. The background is a collage of colorful sticky notes and speech bubbles. The form is titled 'Chat-Byte' and has two tabs: 'Login' and 'Sign Up'. The 'Sign Up' tab is selected. The form fields are: 'Name *' with a placeholder 'Enter Your Name', 'Email Address *' with a placeholder 'Enter Your Email Address', 'Password *' with a placeholder 'Enter Password' and a 'Show' button, 'Confirm Password *' with a placeholder 'Confirm password' and a 'Show' button, and 'Upload your Picture' with a 'Choose File' button and 'No file chosen' text. Below the form is a blue button labeled 'Sign Up'.

Chat-Byte

Login Sign Up

Name *
Enter Your Name

Email Address *
Enter Your Email Address

Password *
Enter Password Show

Confirm Password *
Confirm password Show

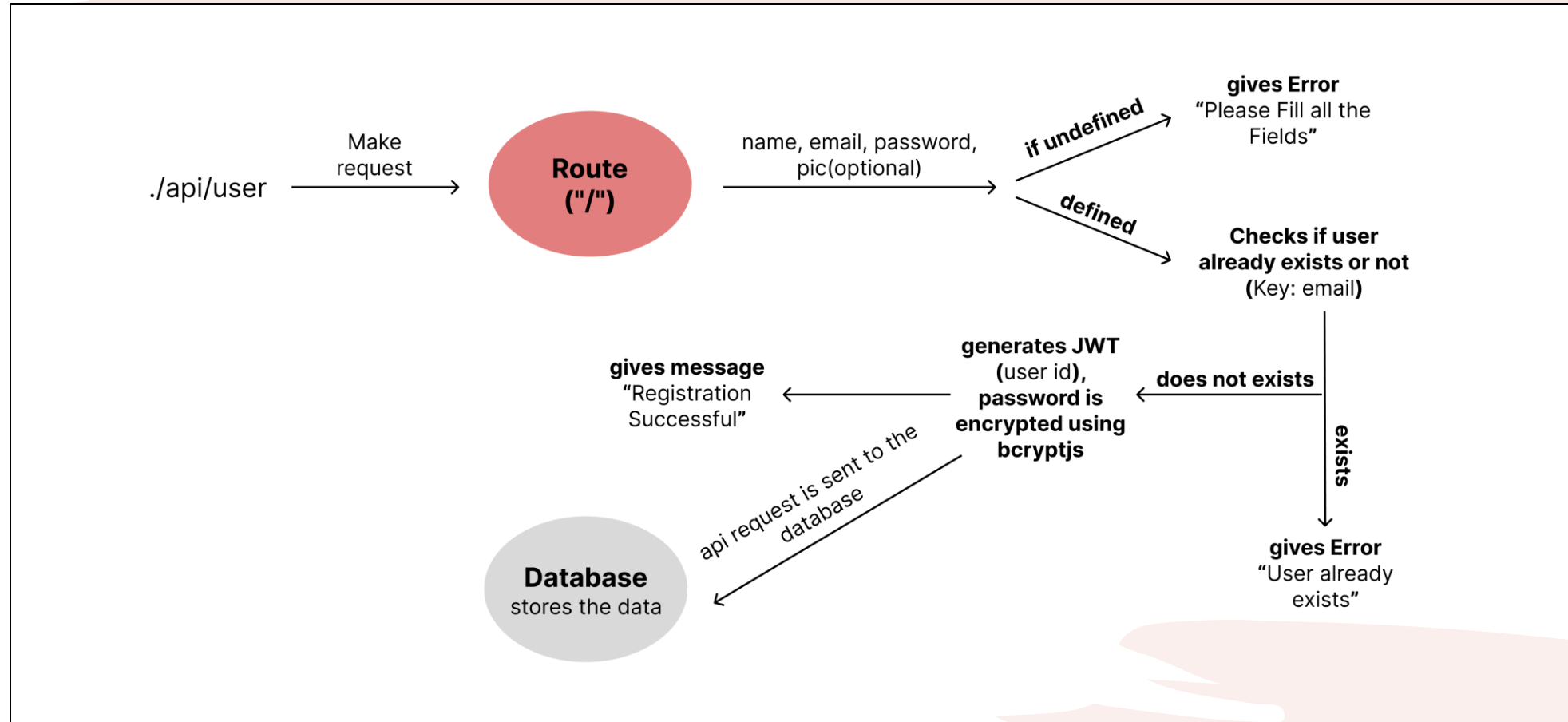
Upload your Picture
Choose File No file chosen

Sign Up

A large, horizontal, orange brushstroke with a rough, textured edge, resembling a paint stroke. It is centered on a white background.

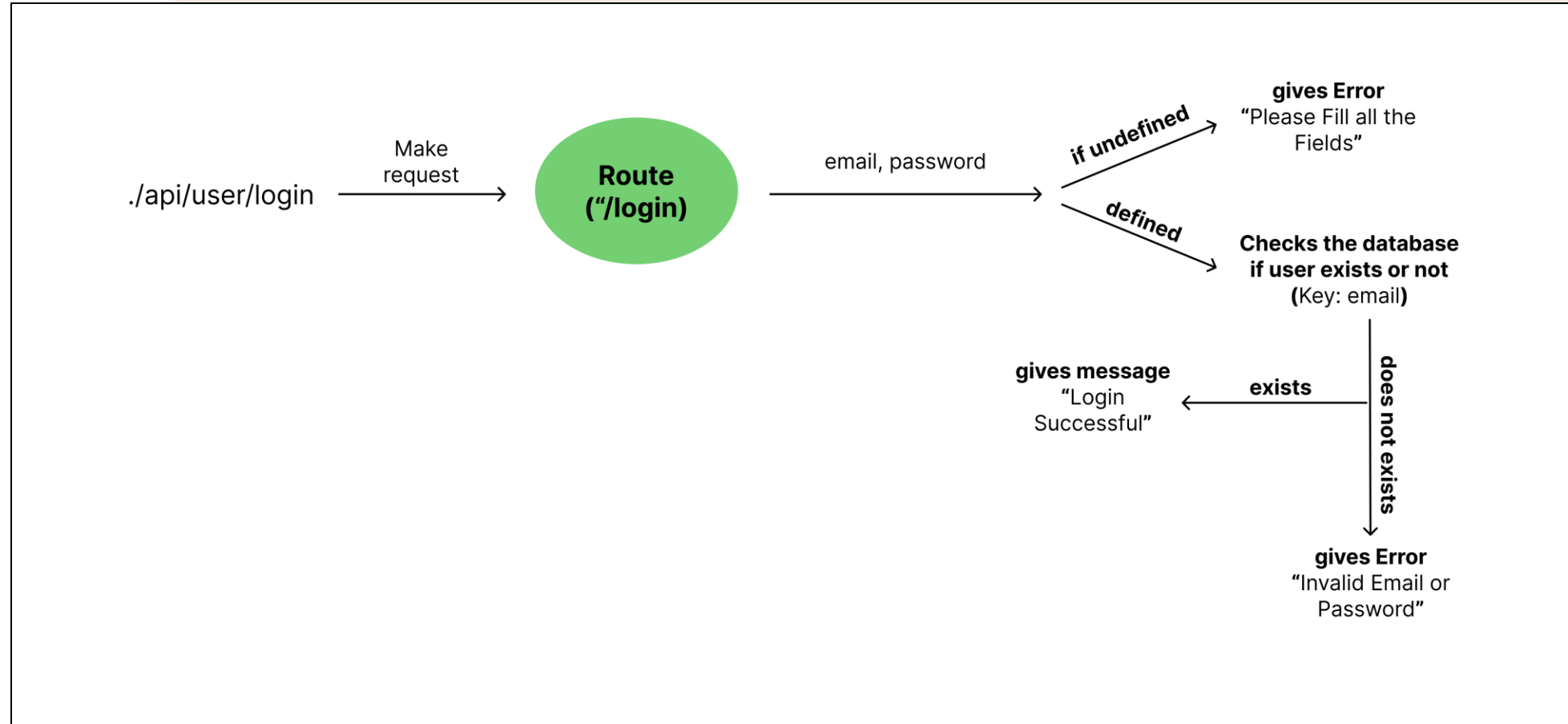
SYSTEM DESIGN

User Login and Registration



Diagrammatic Representation of User Registration

User Login and Registration



Diagrammatic Representation of User Login

A pink brushstroke graphic on the left side of the slide, with the word "Deployment" written in black text over it.

Deployment

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