Presenting...

Bol Bachchan

K-explore’s finest two-way communication app, built using the principles of chat servers in networks

Our Team

Akarshi Srivastava

2206071

Devdeep Chatterjee

2206087

Anshuman Ghosh

2206074

Divyanshu Mishra

2206090

Anushree Singhania

2206077

Our Team

Kritika Singh

2206098

Rajdeep Thakur

2206113

Madhur Mishra

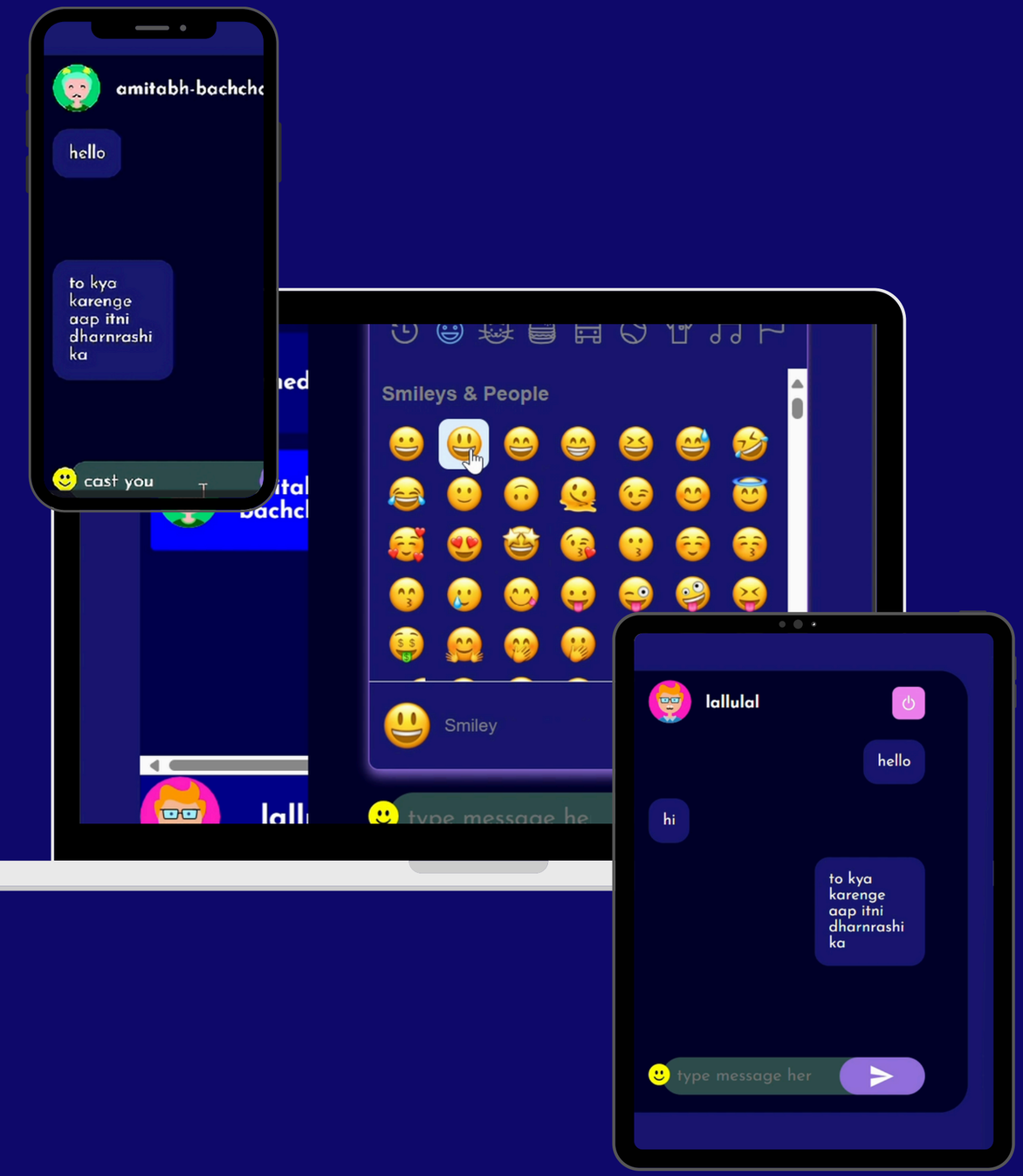
2206100

Aniket kumar

2206157

Mansi Tiwari

2206104



Project overview

What is Bol Bachchan?

Bol Bachchan is a straightforward one-on-one chatting app, perfect for casual conversations. Designed to keep things simple and enjoyable, it's all about helping users connect without the bells and whistles—no fancy AI or complex features here! With just the essentials like form validation, password hashing, sessions, emojis, and avatar options, Bol Bachchan offers a clean, user-friendly interface for seamless, everyday chats. Built to focus on what matters—human-to-human interaction—it's the perfect go-to for those looking for easy, direct, and secure conversations

Project Objectives

Defining the core development goals of Bol Bachchan - a real-time communication platform built for seamless, secure, and scalable messaging experience.

Real-Time Message Exchannge

- Socket.IO for instant messaging
- Live
- Chat history storage in MongoDB

Secure User Authentication & Data Protection:

- User authentication with bcrypt
- Express session management
- React form validation

Responsive & Intuitive UI/UX

- Responsive design with Material UI
- Emoji and media support
- Cross-device compatibility

Scalable System Architecture

- Efficient MongoDB schemas using Mongoose
- Robust error handling and logging
- UUID for unique identifiers

Key Features

1

Real time message exchange without delay via socket.io WebSocket

2

Avatar selection and Emoji feature available for better interaction

3

Provides form validation during signup/login, saves the password in hash during signup

4

Allows one-on-one chatting with multiple different users, creates sessions for each user

Technology Stack

Frontend Technologies

- React.js
- Vite
- HTML & CSS

Backend Technologies

- Node.js
- Express.js
- Socket.io

Databases and Libraries

- MongoDB
- Mongoose

Other Libraries

Axios, Styled Components, React Icons, Material UI, Emoji Picker, Material Icons, Socket.io Client, UUID, Bcrypt

Strengths & Weaknesses

Strength

1. **Real-time Conversations: "Bol Bachchan" can offer instant messaging capabilities, allowing users to connect and interact in real-time. This is a key feature that attracts users seeking immediate communication.**
2. **Customizable User Experience: Users can personalize their profiles through avatar and emoji selection, adding a fun and expressive layer to the messaging experience.**
3. **Security Features: Bol Bachan prioritizes user security with essential safeguards, such as form validation, password encryption and session management, which provide a secure and reliable platform for users.**

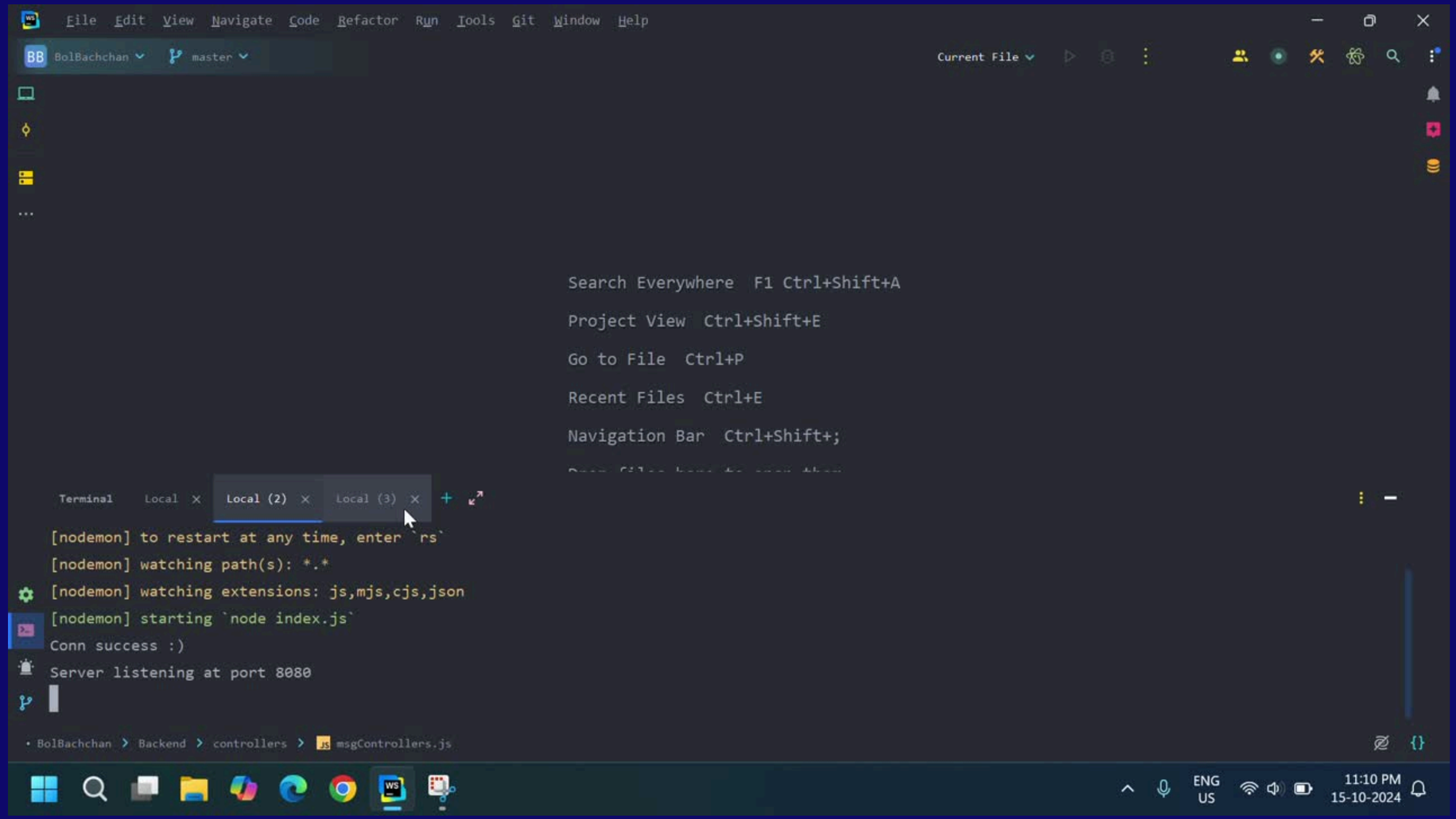
Weakness

1. **Dependency on internet connectivity: Like most messaging apps, "Bol Bachchan" would rely on a stable internet connection for its functioning. This could be a limitation in areas with poor network coverage or during network outages.**
2. **Security concerns: As with any online platform, "Bol Bachchan" would need to implement robust security measures to protect user data, including privacy and preventing unauthorized access.**

Future Scope

1. **End-to-End Encryption: Implementing end-to-end encryption to enhance user privacy and data security, ensuring that only the intended recipients can access the content of conversations.**
2. **Media Sharing Capabilities: Expanding functionality to allow users to send images, videos, and audio files, making the platform more versatile for different types of communication.**
3. **Stickers and GIFs Support: Adding stickers and GIFs to give users more ways to express themselves and make conversations more engaging and enjoyable.**
4. **Group Chat Functionality: Introducing group chat features to enable conversations among multiple users, fostering a more social and community-oriented experience.**
5. **Message Forwarding and Tagging: Allowing users to forward messages and tag specific messages to improve conversation flow and referencing within chats.**

Video Demonstration



Thank you

So, if you’re ready for a messaging app (a.k.a. jugaad technology at its best!), Bol Bachchan is ready to keep you talking! Remember, as any Indian will say, sab kuch milega, thoda intezaar to karo!"

धन्यवाद