



Convo - Real-Time Chatting App

Convo is a modern real-time chatting application designed to provide a seamless and secure messaging experience. It enables users to connect with friends, send instant messages, share files, and post updates, fostering a dynamic and engaging communication platform.

Convo Try here: <https://convo40-backend.onrender.com>

Github Repo: <https://github.com/Mdraihanahmad/Convo4.0.git>

Key Features of Convo



User Authentication

Secure sign-up and login process to protect user accounts.



Real-Time Messaging

Instantaneous sending and receiving of text messages.



Friend System

Search, send, accept, and decline friend requests for controlled connections.



Post Status

Share updates and daily moments with your connected friends.



Media Sharing

Effortlessly send images, documents, and other files.



Instant Notifications

Stay informed with alerts for new messages or friend requests.



Privacy & Security

Ensuring conversations and statuses are only visible to authorized friends.

Getting Started: A Step-by-Step Guide

01

Account Setup

Sign up with your email, username, and password, then log in to access the app.

03

Friend Request Management

Accept or decline incoming friend requests; once accepted, you become connected.

05

Share Content

Utilize the attachment icon to send various files and images directly in chats.

02

Find & Connect

Use the search bar to find friends by username and send them a friend request.

04

Start Chatting

Select a friend from your list to begin real-time conversations with instant message delivery.

06

Update Your Status

Share your current thoughts or activities in the status section for friends to view.

Behind the Scenes: Suggested Tech Stack

Frontend

- React / Next.js
- Tailwind CSS

Backend

- Node.js with Express

Database

- MongoDB

Authentication

- JWT / Firebase Auth

Real-Time Messaging

- [Socket.IO](#) / WebRTC

File Storage

- Cloudinary



Installation & Setup Guide

1

Clone the Repository

```
git clone https://github.com/yourusername/convo.git cd convo
```

2

Install Dependencies

```
npm install
```

Setup Environment Variables

3

```
PORT=5000 MONGO_URI=your_mongo_connection_string JWT_SECRET=your_secret_key
```

Create a `.env` file in the root directory and add the necessary variables.

4

Run Backend Server

```
npm run server
```

Run Frontend

5

```
cd client npm start
```

Access the app at <http://localhost:3000> in your browser.

- This streamlined flow ensures users can quickly connect and communicate in a secure and intuitive environment.



Upholding Security & Privacy

Encrypted Passwords

All user passwords are encrypted before being stored in the database.



Authenticated Access

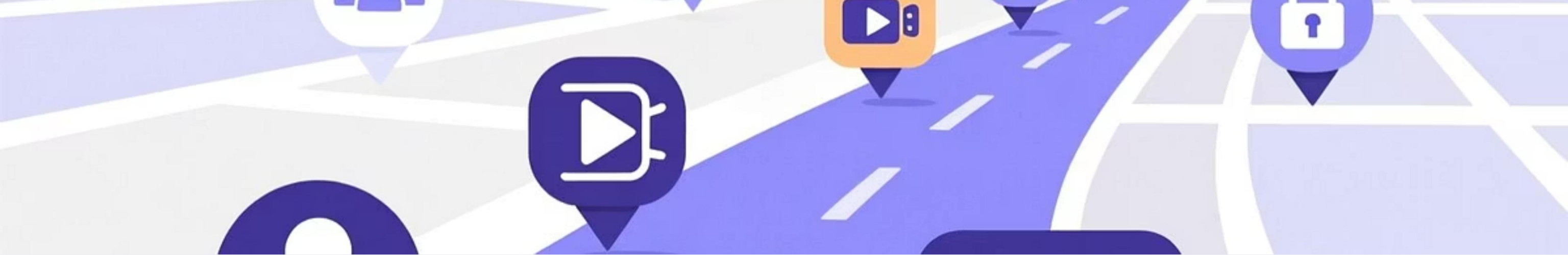
Only verified and authenticated users can access Convo's features.



Private Messages

Messages are strictly private and only visible to the intended recipients.

At Convo, we prioritize your security and privacy. Our robust measures ensure your data remains protected and your conversations stay confidential.



Convo's Evolution: Future Enhancements

We are continuously working to enhance Convo's capabilities, bringing you even more ways to connect and communicate.

Group video call

Expand your conversations by connecting with multiple friends in a single audio and video calls.

Voice/Video Calling

Experience richer interactions with integrated audio and video calls.

Emoji Reactions & Stickers

Express yourself more vividly with a wider range of reactions and fun stickers.

End-to-End Encryption

Further secure your messages with advanced end-to-end encryption for ultimate privacy.

Collaborate with Convo: Contribution Guide

We welcome contributions from the developer community to help make Convo even better. Follow these steps to contribute:



Fork the Repository



Create a New Branch

(e.g., `feature-branch`)



Commit Your Changes



Push to the Branch



Create a Pull Request

Your contributions are invaluable to the growth and improvement of Convo!

Connect with Us

Thank you for exploring Convo! For any queries, support, or collaboration inquiries, please feel free to reach out.

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