# **💬 Real-Time Chat App**

A full-stack real-time chat application built using **React**, **Node.js**, **Express**, and **Socket.io**.

## **✨ Features**

* 🔌 Real-time messaging with WebSockets (Socket.io)
* 💻 Built with React and Node.js
* 🔄 Bidirectional event-based communication
* 📦 Clean UI and responsive design
* 🌍 Easy to deploy (Render for backend, Vercel for frontend)

## **📁 Tech Stack**

|  |  |  |  |
| --- | --- | --- | --- |
| **Frontend** | **Backend** | **Real-Time** | **Deployment** |
| React 18 | Node.js | Socket.io | Vercel |
| Socket.io-client | Express.js |  | Render |

## **🚀 Getting Started**

### **📦 Clone the Project**

bash

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git clone <https://github.com/your-username/chat-app.git>cd chat-app

### **🛠️ Backend Setup**

bash

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cd backend  
npm install  
npm start

Backend runs on: <http://localhost:5000>

### **🎨 Frontend Setup**

bash

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cd ../frontend  
npm install  
npm start

Frontend runs on: <http://localhost:3000>

## **🔄 How It Works**

1. User connects to frontend.
2. React app connects to backend via Socket.io.
3. Messages are sent in real-time and broadcast to all connected users.