Building the chat component

To build a basic chat component in a Node.js application using Socket.io for real-time communication, follow these summarized steps:

- Setup the Project:
- Create a project directory and initialize a Node.js project with **npm init**.
- Install Dependencies:
- Install Express.js and Socket.io as dependencies with npm install express socket.io.
- Create the Server:
- Set up a Node.js server with Express and Socket.io to handle real-time chat.
- Use io.on('connection') to handle new client connections, messages, and disconnections.
- Create the Client HTML:
- Create an HTML file (public/index.html) with an input field, send button, and message display area.
- Include the necessary JavaScript files.
- Create the Client JavaScript:
- Create a client-side JavaScript file (public/client.js) to manage chat functionality.
- Use Socket.io to emit and listen for messages between the server and clients.
- Run the Application:
- Start the Node.js server with **node server.js**.
- Access the chat component in a web browser at http://localhost:3000 (or your specified port).