

```
1  <!DOCTYPE html>
2
3  <html>
4  <head>
5      <title> Chat App</title>
6      <script defer src = "http://localhost:5000/socket.io/socket.io.js"></script>
7      <script defer src = "script.js"></script>
8  </head>
9
10 <body>
11     <div id = "message-container"></div>
12     <form id = "send-container">
13         <input type = "text" id = "message-input">
14         <button type = "submit" id = "submit-button"> Send</button>
15     </form>
16 </body>
17 </html>
```

```
1 const socket = io("http://localhost:5000")
2 const messageform = document.getElementById("send-container")
3 const messagecontainer = document.getElementById("message-container")
4 const messageinput = document.getElementById("message-input")
5
6 const name = prompt("What is your name?")
7 showMessage("You joined")
8 socket.emit("new-user", name)
9
10 socket.on("chat-message", data => {
11     showMessage(` ${data.name}: ${data.message}`)
12 })
13
14 socket.on("user-connected", name => {
15     showMessage(`${name} connected`)
16 })
17
18 socket.on("user-disconnected", name => {
19     showMessage(`${name} disconnected`)
20 })
21
22 messageform.addEventListener("submit", e => {
23     e.preventDefault()
24     const message = messageinput.value
25     showMessage(`You: ${message}`)
26     socket.emit("send-chat-message", message)
27     messageinput.value = ""
28 })
29
30 function showMessage(message) {
31     const messageElement = document.createElement("div")
32     messageElement.innerText = message
33     messagecontainer.append(messageElement)
34 }
```

```
1 const io = require("socket.io")(5000)
2
3 const users = {}
4 io.on("connection", socket => {
5     socket.on("new-user", name => {
6         users[socket.id] = name
7         socket.broadcast.emit("user-connected", name)
8     })
9     socket.on("send-chat-message", message => {
10        socket.broadcast.emit("chat-message", { message: message, name:
11            users[socket.id] })
12    })
13    socket.on("disconnect-user", () => {
14        socket.broadcast.emit("user-disconnected", users[socket.id])
15        delete users[socket.id]
16    })
})
```