Index.html file

<!DOCTYPE html>

<html>

  <head>

    <title>Socket.IO chat</title>

    <style>

      body { margin: 0; padding-bottom: 3rem; font-family: -apple-system, BlinkMacSystemFont, "Segoe UI", Roboto, Helvetica, Arial, sans-serif; }

      #form { background:red; padding: 0.25rem; position: fixed; bottom: 0; left: 0; right: 0; display: flex; height: 3rem; box-sizing: border-box; backdrop-filter: blur(10px); }

      #input { border: none; padding: 0 1rem; flex-grow: 1; border-radius: 2rem; margin: 0.25rem; }

      #input:focus { outline: none; }

      #form > button { background: #333; border: none; padding: 0 1rem; margin: 0.25rem; border-radius: 3px; outline: none; color: #fff; }

      #messages { list-style-type: none; margin: 0; padding: 0; }

      #messages > li { padding: 0.5rem 1rem; }

      #messages > li:nth-child(odd) { background: green; }

    </style>

  </head>

  <body>

    <ul id="messages"></ul>

    <form id="form" action="">

      <input id="input" autocomplete="off" /><button>Send</button>

    </form>

    <script src="https://cdn.socket.io/4.7.2/socket.io.min.js"></script>

<script>

     var socket = io();

     var form = document.getElementById('form');

     var input = document.getElementById('input');

     var messages = document.getElementById('messages');

     var form = document.getElementById("form");

   form.addEventListener('submit', function(e) {

    e.preventDefault();

    if (input.value) {

      socket.emit('chat message', input.value);

      input.value = '';

    }

  });

  socket.on('chat message' , (msg)=>

  {

    console.log(("chat message"))

       var item = document.createElement("li");

        item.textContent = msg;

        messages.appendChild(item);

        window.scrollTo(0, document.body.scrollHeight);

  });

</script>

  </body>

</html>

Index.js

import express from "express";

const app = express();

import path from "path";

import http  from 'http';

import {Server} from 'socket.io';

const server = http.createServer(app);

const io = new Server(server);

// import { ConnectionPoolMonitoringEvent } from "mongodb";

io.on('connection', (socket)=>

{

socket.on('chat message', (msg)=>

    {  console.log(msg)

   io.emit('chat message',msg);

// console.log("a user has connected")

socket.on('disconnect',()=>

{

    console.log("user has disonncted")

})

});

});

app.get("/", (req,res)=>

{

    console.log(("home page"))

    res.sendFile(path.resolve("index.html"))

})

server.listen(3000, (req, res)=>

{

console.log("server started")

})