**Rajalakshmanan C**

**E0219054**

Code:

Index.html:

<!DOCTYPE html>

<html>

    <head>

        <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">

        <title>

         simple

        </title>

        <style>

            .card {

                    box-shadow: 0 4px 8px 0 rgba(0, 0, 0, 0.2);

                    max-width: 300px;

                    margin: auto;

                    text-align: center;

                    }

                    .title {

                    color: grey;

                    font-size: 18px;

                    }

                    button {

                    border: none;

                    outline: 0;

                    display: inline-block;

                    padding: 8px;

                    color: white;

                    background-color:greenyellow;

                    text-align: center;

                    cursor: pointer;

                    width: 100%;

                    font-size: 18px;

                    }

                    a {

                    text-decoration: none;

                    font-size: 22px;

                    color: black;

                    }

                    button:hover, a:hover {

                    opacity: 0.7;

                    }

        </style>

        <script src = "/socket.io/socket.io.js"></script>

   <script>

      var socket = io();

      function setUsername() {

         socket.emit('setUsername', document.getElementById('name').value);

      };

      var user;

      socket.on('userExists', function(data) {

         document.getElementById('error-container').innerHTML = data;

      });

      socket.on('userSet', function(data) {

         user = data.username;

         document.body.innerHTML = ' <div class="card"><div style="border-style: inset;"><div id = "message-container"></div><div style="align-items: center;"><input type = "text" id = "message">\

                        <button type = "button" name = "button" onclick = "sendMessage()" class="btn btn-success" >Send</button>\

                </div></div></div>';

      });

      function sendMessage() {

         var msg = document.getElementById('message').value;

         if(msg) {

            socket.emit('msg', {message: msg, user: user});

         }

      }

      socket.on('newmsg', function(data) {

         if(user) {

            document.getElementById('message-container').innerHTML += '<div><b>' +

               data.user + '</b>: ' + data.message + '</div>'

         }

      })

   </script>

    </head>

    <body>

        <div class="card">

            <div id = "error-container"></div>

      <div style="border-style: inset;" >

         <input id = "name" type = "text" name = "name" value = ""

         placeholder = "Enter your name!">

      <button type = "button" name = "button" onclick = "setUsername()"  class="btn btn-success" >

         Let me chat!

      </button>

      </div>

          </div>

    </body>

</html>

Server.js

var app = require('express')();

var http = require('http').Server(app);

var io = require('socket.io')(http);

app.get('/', function(req, res) {

   res.sendfile('index.html');

});

users = [];

io.on('connection', function(socket) {

   console.log('A user connected');

   socket.on('setUsername', function(data) {

      console.log(data);

      if(users.indexOf(data) > -1) {

         socket.emit('userExists', data + ' username is taken! Try some other username.');

      } else {

         users.push(data);

         socket.emit('userSet', {username: data});

      }

   });

   socket.on('msg', function(data) {

      io.sockets.emit('newmsg', data);

   })

});

http.listen(3000, function() {

   console.log('listening on localhost:3000');

});

