

```
<!DOCTYPE html>
<html>
  <head>
    <title>Random Private chat</title>
    <style>
      * {
        margin: 0;
        padding: 0;
        box-sizing: border-box;
      }
      body {
        font: 13px Helvetica, Arial;
      }
      .ip {
        background: #000;
        padding: 3px;
        position: fixed;
        bottom: 0;
        width: 100%;
      }
    </style>
  </head>
  <body>
```

```

        input {
            border: 0;
            padding: 10px;
            width: 90%;
            margin-right: 0.5%;
        }
        button {
            width: 9%;
            background: rgb(130, 224, 255);
            border: none;
            padding: 10px;
        }
        #messages li {
            padding: 5px 10px;
        }
        #messages li:nth-child(odd) {
            background: #eee;
        }
    </style>
</head>
<body>
    <ul id="messages"></ul>
    <div class="ip">
        Enter your display name
        <input
            placeholder="Enter your display name"
            id="name"
            autocomplete="off"
        /><button id="submitBtn">
            Chat
        </button>
    </div>
    <script>
        const name = document.getElementById("name");
        name.addEventListener("keyup", function (event) {
            // Number 13 is the "Enter" key on the keyboard
            if (event.keyCode === 13) {

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        event.preventDefault();
        // document.getElementById("submitBtn").click();
        submitName();
    }
});
function submitName() {
    document.cookie = "user=" + name.value;
    document.cookie =
        "id=" + Math.floor(Math.random() * 999999999) +
100000000;

    window.location = "/chat";
}
</script>
</body>
</html>

```

index.html

```

<!DOCTYPE html>
<html>
    <head>
        <title>Random Private Chat</title>
        <style>
            * {
                margin: 0;
                padding: 0;
                box-sizing: border-box;
            }
            body {
                font: 13px Helvetica, Arial;
            }
            .ip {
                background: #000;
                padding: 3px;
                position: fixed;
                bottom: 0;
                width: 100%;
            }
            input {

```

```

        border: 0;
        padding: 10px;
        width: 90%;
        margin-right: 0.5%;
    }
    button {
        width: 9%;
        background: rgb(130, 224, 255);
        border: none;
        padding: 10px;
    }
    #messages {
        list-style-type: none;
        margin: 0;
        padding: 0;
    }
    #messages li {
        padding: 5px 10px;
    }
    #messages .me li {
        background: #eee;
    }
    #messages .notme li {
        background: #888;
    }
</style>
</head>
<body>
    <ul id="messages"></ul>
    <div class="ip">
        <input id="m" autocomplete="off" /><button
            id="submitBtn"
            onclick="sendMsg()"
        >
            Send
        </button>
    </div>

```

```

<script src="/socket.io/socket.io.js"></script>
<script>
    const socket = io();
    var toUser;

    const cookies = document.cookie.split(";");

    var cookieMap = {};
    for (var i = 0; i < cookies.length; i++) {
        cookieMap[cookies[i].split("=")[0]] =
cookies[i].split("=")[1];
    }

    const msg = document.getElementById("m");

    //to get the enter key press in input field
    msg.addEventListener("keyup", function (event) {
        // Number 13 is the "Enter" key on the keyboard
        if (event.keyCode === 13) {
            event.preventDefault();
            document.getElementById("submitBtn").click();
        }
    });
    socket.emit("init", cookieMap[" id"]);

    socket.on("peer", function (peer) {
        toUser = peer;
    });
    socket.on("receivedmsg", function (msg) {
        document.getElementById("messages").innerHTML +=
            "<div class='notme'><li>" +
            msg.name +
            ": " +
            msg.message +
            "</li></div>";
    });

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        function sendMsg() {
            document.getElementById("messages").innerHTML +=
                "<div class='me'> <li>You: " + msg.value +
"</li></div>";

            socket.emit("message", {
                from: cookieMap.id,
                message: msg.value,
                to: toUser,
                name: cookieMap.user
            });
            msg.value = "";
        }
    </script>
</body>
</html>

```

index.js

```

var app = require("express")();
var http = require("http").createServer(app);
var io = require("socket.io")(http);

app.get("/chat", function (req, res) {
    res.sendFile(__dirname + "/index.html");
});
app.get("/", function (req, res) {
    res.sendFile(__dirname + "/mainpage.html");
});

var users = {};
var connected = [];
var usersAvail = [];

io.on("connection", function (socket) {
    socket.on("init", function (msg) {
        users[msg] = socket;
        print(usersAvail);
        for (var k in users) if (!usersAvail.includes(k))
usersAvail.push(k);

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    if (usersAvail.length > 0) {
        users[msg].emit("peer", usersAvail[0]);
        connected.push(usersAvail[0]);
        connected.push(msg);
        users[usersAvail[0]].emit("peer", msg);
    }

    users[msg].on("message", function (mess) {
        print(mess);
        users[mess.to].emit("receivedmsg", {
            message: mess.message,
            name: mess.name
        });
    });

    users[msg].on("disconnect", function () {
        connected.splice(connected.indexOf(msg), 1);
        delete users[msg];
    });
});

http.listen(3000, function () {
    console.log("listening on *:3000");
});

function print(msg) {
    console.log(msg);
}

```

package.json

```

{
    "name": "assignment",

```

```
"version": "1.0.0",
"description": "Web Technologies assignment",
"main": "index.js",
"scripts": {
  "test": "echo \"Error: no test specified\" && exit 1"
},
"author": "Aneesh Jose Roll no. 25",
"license": "ISC",
"dependencies": {
  "express": "^4.17.1"
}
}
```