 Marwadi University Marwadi Chandarana Group	NAAC A+	Marwadi University Faculty of Technology Department of Information and Communication Technology
Subject: Advanced Web Technology (01CT1625)	Aim: Backend: Using NodeJS, build a real time chat application with Socket.io	
Practical Task :- 10	Date:-	Enrollment No:- 92200133030

Objective:- Backend: Using NodeJS, build a real time chat application with Socket.io.

Code :-

index.js

```
const express = require('express');
const app = express();
const http = require('http');
const server = http.createServer(app);
const { Server } = require("socket.io");
const io = new Server(server);

app.get('/', (req, res) => {
  res.sendFile(__dirname + '/index.html');
});

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


  socket.on('chat message', (msg) => {
    console.log('message: ' + msg);
    io.emit('chat message', msg);
  });
});

server.listen(3000, () => {
  console.log('listening on *:3000');
});
```

index.html

```
<!DOCTYPE html>
<html lang="en">
<meta name="viewport" content="width=device-width, initial-scale=1">
<html>
  <head>
    <meta charset="utf-8">
    <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: rgba(0, 0, 0, 0.15);
        padding: 0.25rem;
        position: fixed;
        bottom: 0;
        left: 0;
```

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```

    right: 0;
    display: flex;
    height: 3rem;
    box-sizing: border-box;
    -webkit-backdrop-filter: blur(10px);
    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: #efefef; }
</style>
</head>
<body>
  <ul id="messages"></ul>
  <form id="form" action="">
    <input id="input" autocomplete="off" placeholder="Type your message..." type="text" /><button
type="submit">Send</button>
  </form>



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

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

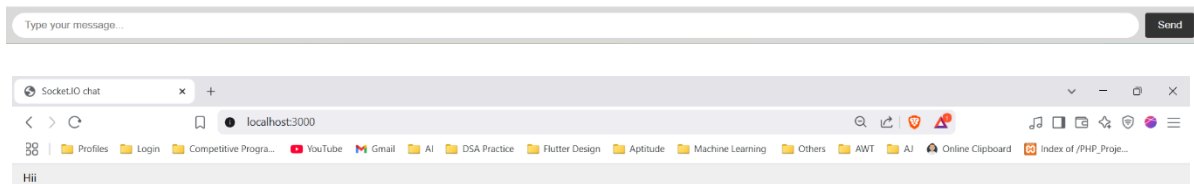
    form.addEventListener('submit', function(e) {
      e.preventDefault();
      if (input.value) {
        socket.emit('chat message', input.value);
        input.value = '';
      }
    });


    socket.on('chat message', function(msg) {
      var item = document.createElement('li');
      item.textContent = msg;
      messages.appendChild(item);
      window.scrollTo(0, document.body.scrollHeight);
    });
  </script>
</body>
</html>

```

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Output :-



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