	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 or email sender.
Experiment No:- 09	**Date:- 15-04-2025**	**Enrollment No:-** 92200133003

Objective : Backend: Using NodeJS, build a real time chat application or email sender.

Index.js

```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) => {
  console.log('a user connected');
  socket.on('disconnect', () => {
    console.log('user disconnected');
  });

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

});

server.listen(3001, () => {
  console.log('listening on *:3000');
});
```

Index.html

```html
<!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: rgba(0, 0, 0, 0.15);
      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;
```

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```css
      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: #cddd9a;
    }
  </style>
</head>

<body>
  <ul id="messages"></ul>
  <form id="form" action="">
    <input id="input" autocomplete="off" /><button>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>
```

OUTPUT

User a:

Hy

Hey

How are you

Fine What about you

Good Just Learning MERN stack

Amazing!1

| | Send |

User b:

Hey

How are you

Fine What about you

Good Just Learning MERN stack

Amazing!1

| | Send |