

Nama : Yudhistira Kusuma
 NPM : 202310067
 Kelas : TI-20-PA1
 Matkul : Pemrograman Web Lanjut

1. Buatlah penggunaan websocket seperti contoh kasus diatas dengan menambahkan inputan user account.

Source Code	
<pre>const app = require('express')(); const http = require('http').Server(app); const io = require('socket.io')(http); const port = 3002; app.get('/', (req, res) => { res.sendFile(__dirname + '/index.html'); }); io.on('connection', (socket) => { console.log('a user connected'); // Mengirimkan data user account saat koneksi dibuat socket.on('user account', (account) => { console.log('User account: ' + account); io.emit('user account', account); }); socket.on('chat message', (msg) => { console.log('message: ' + msg); io.emit('chat message', msg); }); socket.on('disconnect', () => { console.log('user disconnected'); }); }); http.listen(3002, () => { console.log('listening on *:3002'); });</pre>	<pre><!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; 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"> <form id="form" action=""> <input id="input" autocomplete="off" /><button>Send</button> </form> <script src="/socket.io/socket.io.js"></script></pre>

```

<script>
    var socket = io();

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

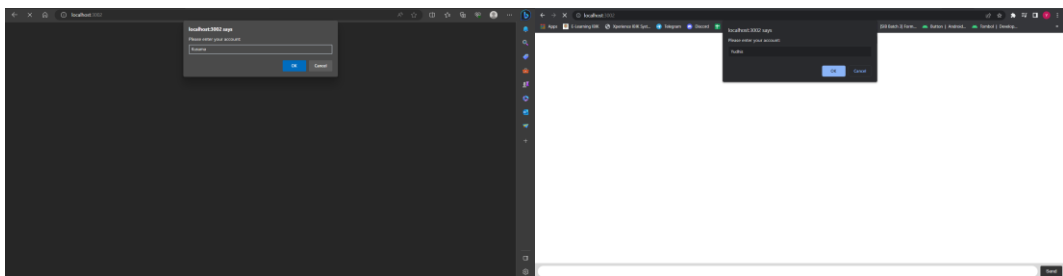
    // Mengirimkan data akun
pengguna saat koneksi baru dibuat
    var account = prompt('Please enter
your account:');
    socket.emit('user account',
account);

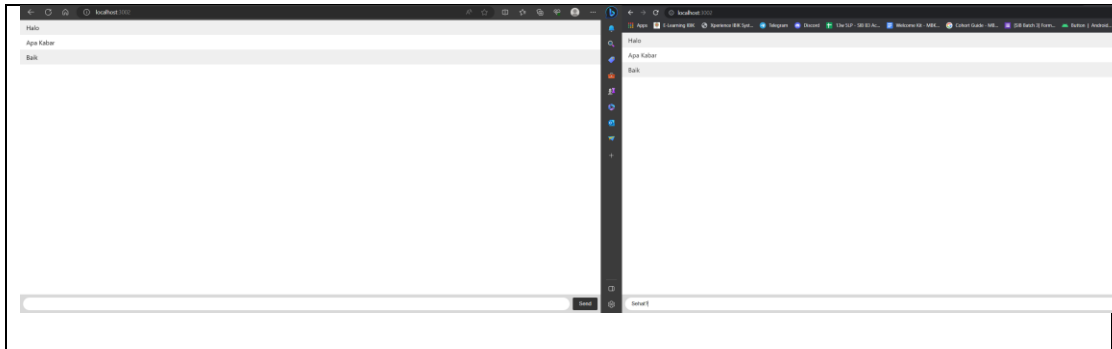
    form.addEventListener('submit',
function(e) {
        e.preventDefault();
        if (input.value) {
            socket.emit('chat message',
input.value);
            input.value = "";
        }
    });

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

```

Screenshot





2. Dapatkah anda membuat replica dari soal nomor 1 kedalam bentuk React JS.

Source Code

```
import React, { useEffect } from 'react';
import io from 'socket.io-client';

const App = () => {
  useEffect(() => {
    const socket = io('http://localhost:3002');

    socket.on('connect', () => {
      console.log('Connected');
      const account = prompt('Please enter your account:');
      socket.emit('user account', account);
    });

    socket.on('disconnect', () => {
      console.log('Disconnected');
    });

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

    return () => {
      socket.disconnect();
    };
  }, []);

  const handleSubmit = (e) => {
    e.preventDefault();
    const input = e.target.elements.message;
    const message = input.value;
    input.value = '';

    // Mengirim pesan ke server
    // Ganti 'chat message' dengan event yang sesuai di server
    // Misalnya 'send message'
    // socket.emit('send message', message);
  };

  return (
```

```
    <div>
      <ul id="messages"></ul>
      <form id="form" onSubmit={handleSubmit}>
        <input id="input" name="message" autoComplete="off" />
        <button type="submit">Send</button>
      </form>
    </div>
  );
};
```

```
export default App;
```