Backend

Npm init -y

Npm install cors express nodemon socket.io

Index.js – server

const app = require("express")();

const server = require("http").createServer(app);

const cors = require("cors");

const io = require("socket.io")(server, {

  cors: {

    origin: "\*",

    method: ["GET", "POST"],

  },

});

app.use(cors());

const PORT = process.env.PORT || 5000;

app.get("/", (req, res) => {

  res.send("server is running");

});

io.on("connection", (socket) => {

  socket.emit("me", socket.id);

  socket.on("disconnect", () => {

    socket.broadcast.emit("callended");

  });

  socket.on("calluser", ({ userToCall, signalData, from, name }) => {

    io.to(userToCall).emit("calluser", { signal: signalData, from, name });

  });

  socket.on("answercall", (data) => {

    io.to(data.to).emit("callaccepted", data.signal);

  });

});

server.listen(PORT, () => console.log(`Server is listening on port ${PORT}`));

frontend

stop server ctrc c

npx create-react-app ./client

cd .\client\

npm install @material-ui/core @material-ui/icons react-copy-to-clipboard simple-peer socket.io-client

delete src folder

create new empty src folder – index.js

import React from "react";

import ReactDOM from "react";

import App from "./App";

import "styles.css";

ReactDOM.render(<App />, document.getElementById("root"));

Styles.css

|  |
| --- |
| body { |
|  | background: |
|  | linear-gradient( |
|  | rgba(0, 0, 0, 0.3), |
|  | rgba(0, 0, 0, 0.3) |
|  | ), |
|  | url(https://i.pinimg.com/originals/8f/14/57/8f14578ef69a4c53352955d1e072eda6.png); |
|  | background-repeat: no-repeat; |
|  | background-attachment: fixed; |
|  | background-size: cover; |
|  | } |
|  |  |
|  | \* { |
|  | margin: 0; |
|  | padding: 0; |
|  | } |

App.js

import React from 'react'

export default function App() {

  return (

    <div>

      Video Chat App

    </div>

  )

}

Cd .\client\

Npm start

import React from "react";

import { Typography, AppBar } from "@material-ui/core";

const App = () => {

  return (

    <div>

      <AppBar position="static" color="inherit">

        <Typography variant="h2" align="center">

          Video Chat

        </Typography>

      </AppBar>

    </div>

  );

};

export default App;

const App = () => {

  return (

    <div>

      <AppBar position="static" color="inherit">

        <Typography variant="h2" align="center">

          Video Chat

        </Typography>

      </AppBar>

      <VideoPlayer />

      <Options>

        <Notifications />

      </Options>

    </div>

  );

};

import React from "react";

const Options = ({ children }) => {

  return (

    <div>

      Options

      {children}

    </div>

  );

};

export default Options;

import { makeStyles } from "@material-ui/core/styles";

the way how to make styles in material-ui

import React from "react";

import { Typography, AppBar } from "@material-ui/core";

import { makeStyles } from "@material-ui/core/styles";

//*import Components*

import Notifications from "./components/Notifications";

import Options from "./components/Options";

import VideoPlayer from "./components/VideoPlayer";

const useStyles = makeStyles((theme) => ({

  appBar: {

    borderRadius: 20,

    margin: "30px 100px",

    display: "flex",

    flexDirection: "row",

    justifyContent: "center",

    alignItems: "center",

    width: "600px",

    border: "2px solid black",

    [theme.breakpoints.down("xs")]: {

      width: "90%",

    },

  },

  image: {

    marginLeft: "15px",

  },

  wrapper: {

    display: "flex",

    flexDirection: "column",

    alignItems: "center",

    width: "100%",

  },

}));

const App = () => {

  const classes = useStyles();

  return (

    <div className={classes.wrapper}>

      <AppBar className={classes.appBar} position="static" color="inherit">

        <Typography variant="h2" align="center">

          Video Chat

        </Typography>

      </AppBar>

      <VideoPlayer />

      <Options>

        <Notifications />

      </Options>

    </div>

  );

};

export default App;