1. Create folder nodejs\_reactchat
2. Create sub-folder back-end:
3. run npm init
4. install npm dependencies ( npm install
   1. express: HTTP framework for running Node Server
   2. cors: to call the server from anywhere on the internet
   3. Axios: to make API calls to chat engine.IO
   4. npm install --save-dev nodemon:
5. Edit package.json: “Scripts”: {

“start”: “nodemon index.js”

}

1. Create index.js file inside back-end folder
2. Copy the follwoing code inside index.js file (

const express = require("express");const cors = require("cors");const app = express();app.use(express.json());app.use(cors({ origin: true }));app.post("/authenticate", async (req, res) => { const { username } = req.body; return res.json({ username: username, secret: "sha256..." });});app.listen(3001);

)

1. Run npm run start: to test the server
2. Create a request.rest file to test the server ( install REST Client extension on VS code)
3. Create project on chatengine.io website
4. rewrite index.js (

const express = require("express");

const cors = require("cors");

const { default: axios } = require("axios");

const app = express();

app.use(express.json());

app.use(cors({ origin: true }));

app.post("/authenticate", async (req, res) => {

const { username } = req.body;

try {

const r = await axios.put(

"https://api.chatengine.io/users/",

{ username: username, secret: username, first\_name: username },

{ headers: { "PRIVATE-KEY": "51a706aa-3a97-4789-a85c-109afc504a23" } }

);

return res.status(r.status).json(r.data);

} catch (e) {

return res.status(e.response.status).json(e.response.data);

}

});

app.listen(3001);

)

1. Create front-end folder with: npm install vite@latest
2. Run npm install ( to install dependencies )
3. Rewrite the App.jsx to : (

import { useState } from "react";

import "./App.css";

import AuthPage from "./AuthPage";

import ChatsPage from "./ChatsPage";

function App() {

const [user, setUser] = useState(undefined);

if (!user) {

return <AuthPage onAuth={(user) => setUser(user)} />;

} else {

return <ChatsPage user={user} />;

}

}

export default App;

)

1. Create AuthPage.jsx and ChatsPage in src folder

AuthPage: ( import axios from "axios";const AuthPage = (props) => { const onSubmit = (e) => { e.preventDefault(); const { value } = e.target[0]; axios .post("http://localhost:3001/authenticate", { username: value }) .then((r) => props.onAuth({ ...r.data, secret: value })) .catch((e) => console.log("Auth Error", e)); }; return ( <div className="background"> <form onSubmit={onSubmit} className="form-card"> <div className="form-title">Welcome div> <div className="form-subtitle">Set a username to get started</div> <div className="auth"> <div className="auth-label">Username</div> <input className="auth-input" name="username" /> <button className="auth-button" type="submit"> Enter </button> </div> </form> </div> );};export default AuthPage;

)

1. Add the following to the App.css (

body {

background-image: url('./assets/valley.jpeg');

background-repeat: no-repeat;

background-size: cover;

height: 100vh;

width: 100vw;

margin: 0px;

}

.background {

width: 100vw;

height: 100vh;

background: linear-gradient(75deg, rgb(20, 23, 33) 0%, rgb(20, 23, 33) 50%, rgba(20, 23, 33,0.8) 100%);

/\* Vertical center \*/

display: table-cell;

vertical-align: middle;

}

.form-card {

width: 50%;

max-width: 350px;

padding: 0% 25% 0% 25%;

}

.form-title {

font-size: 42px;

font-family: 'Avenir';

font-weight: 800;

letter-spacing: 0.5px;

color: #e8e8e8;

padding-bottom: 12px;

}

.form-subtitle {

font-size: 18px;

font-family: 'Avenir';

letter-spacing: 0.5px;

color: #afafaf;

padding-bottom: 24px;

}

.auth {

position: relative;

display: inline-block;

width: 100%;

padding-bottom: 12px;

}

.auth-label {

position: absolute;

top: 8px;

left: 18px;

font-size: 11px;

color: rgb(175, 175, 175);

font-family: Avenir;

width: 100px;

}

.auth-input {

background-color: #3e404b;

color: white;

font-family: "Avenir";

outline: none;

border: none;

border-radius: 8px;

padding: 24px 18px 12px 18px;

width: calc(100% - 18px - 18px);

margin-bottom: 12px;

}

.auth-button {

width: 100%;

height: 53px;

color: white;

background-color: #fa541c;

border: none;

outline: none;

border-radius: 8px;

font-family: "Avenir";

cursor: pointer;

transition: all .44s ease;

-webkit-transition: all .44s ease;

-moz-transition: all .44s ease;

}

.auth-button:hover { filter: brightness(145%); }

.chat-wrapper {

height: 80vh;

width: 80%;

margin-left: 10%;

color: white;

background: rgb(43, 47, 60);

}

)

1. Run npm run start (Back-End)
2. Run npm run dev ( Front-End) : npm install axios