

Real-Time Chat App

Overview

- Express is the first package to be download in backend part of any project in backend-> index.js, express is a web framework, provides lots of different features that from which we can build our APIs, it will provides us the routes and middleware.
- Route file is for authentication.
- `._id` -> this is how MongoDB stores it.
- Simple we use http, we in case of production we always use https.
- `.put` method - > use when we are putting the option to update something in profile.
- Req, res -> request and response.
- `protectRoute` -> use to check authentication of any user -> middleware, jwt is needed when token is to be validated,
- cloudinary.com -> provide us access to upload and update images in web pages, we can upload the images in the cloudinary bucket.
- Cd backend -> `npm run dev`
- cd frontend -> `npm i react-router-dom` (so that paging and routing in one place) and `react-hot-toast` (to show some notifications).
- Tailwind css vite is used in frontend part
- **axios** is use in place of api web addresss and **zustand** is a global state management solution
- A “blank white page” almost always means that the browser hit a runtime error before React could finish mounting. 99 % of the time you’ll find the exact reason in the **DevTools console** (⌘ ⌘ I on macOS, F12 on Windows/Linux).
- daisyUI -> components -> chat bubble -> styling of send messages.

- In backend , I have build the REST API with = NodeJS +ExpressJS which includes get, post, put and delete request -> for real time and dynamic scenario.
- But for real time communication , I have to add socket.io at top of this REST API server -> this is like man in the middle when we want to send the real time messages.
- socket.on() -> this method is use to listen the events both on server and client side.
- In development -> checkAuth() fn. runs two times that's why we see that console.log two times.
- In case of production we add start and nodemon is used for development only
- openssl rand -base64 32 -> to generate a secret JWT token key
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