DHRUVA PRASAD UPADHYAYA

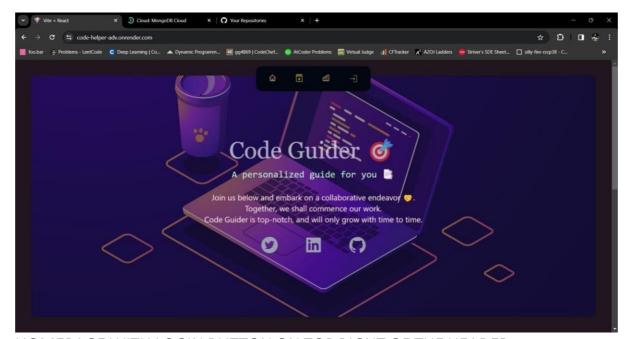
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112115046

I HAD IMPROVED MY LAB3 ASSIGNMENT TO MAKE A PROJECT OF MY OWN, BUILT UPON THE SAME LAB3, WHICH IS WHY IT LOOKS DIFFERENT BUT CODE LOGICS STILL REMAIN SAME

DOCKERIZED SSO IMPLEMENTATION FOR A PERSONAL WEBSITE

Github link: https://github.com/dhruva4869/CC-LAB-Docker-SSO



HOMEPAGE WITH LOGIN BUTTON ON TOP RIGHT OF THE HEADER

Docker File used for the project that works is:

```
client > Dockerfile > ...

1   FROM node:18-alpine
2
3  WORKDIR /app
4
5  COPY package.json .
6
7  RUN npm install
8
9  COPY . .
10
11  EXPOSE 8081
12
13  CMD [ "npm", "run", "dev" ]
```

Since me project was built on vite, corresponding changes need to be done in the vite.config file as well. These are the changes:

```
Dockerfile U
                  (); vite.config.js M X
client > (); vite.config.js > [6] default
       import { defineConfig } from "vite";
       import react from "@vitejs/plugin-react";
       export default defineConfig({
        base: "/",
        plugins: [react()],
        preview {
        port: 8081,
         strictPort: true,
        },
  10 $
        server: {
        port: 8081,
        strictPort: true,
        host: true,
  14 🖁
         origin: "http://0.0.0.0:8081",
        },
       |});
```

```
> server@1.0.0 dev
> nodemon index.js

[nodemon] 3.0.2
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,cjs,json
[nodemon] starting `node index.js`
Sever running at Port: 8000
Database Connected ac-6hh2kfi-shard-00-00.hfc269j.mongodb.net
```

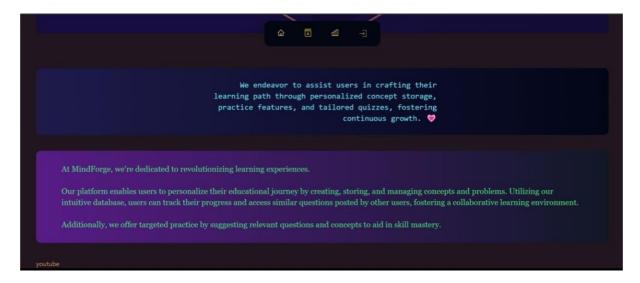
Server running

```
view a summary of image vulnerabilities and recommendations → docker scout quickview
okay4869@LAPTOP-S17LHP1H:/mnt/c/Users/Dhruva/Desktop/MERN RADDY-myself/client$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
sample-project v1.0 b08c3247dcc2 About a minute ago 1.59GB
```

Docker Images and building from the docker. (Dockerization)

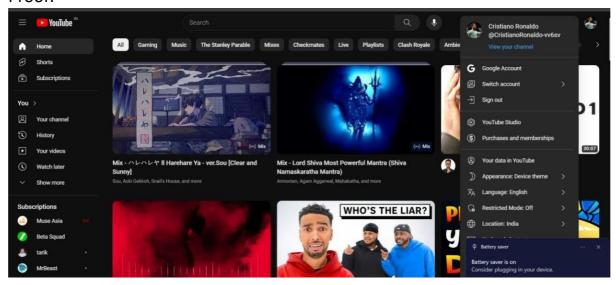
Running the website from the docker directly. Hosted in local host 8081 (visible in ss)





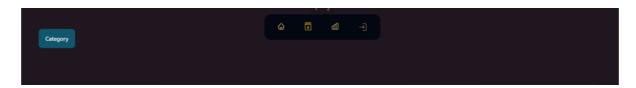
Youtube link. When we log in and click it, it automatically logs us in youtube as well.

Proof:



Showing Logged in with my account.

On top of that sso can do many other functionalities. I have shown them all below how SSO helps in my own application

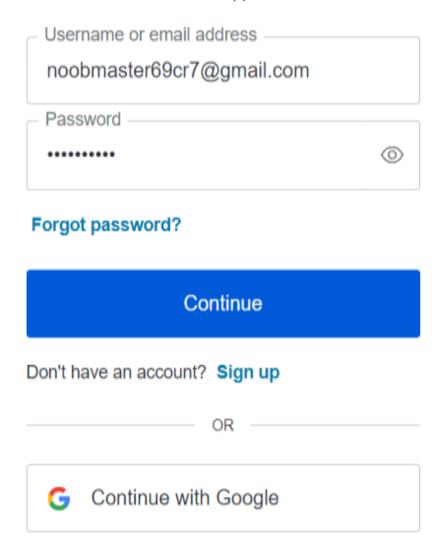


In the problems, page no button to add a new problem available.

This is because we need to login to get this functionality

Welcome

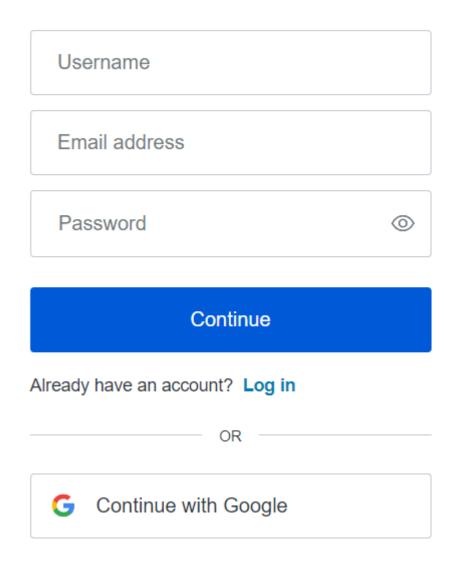
Log in to dev-8ptywct04vgjtup4 to continue to Login test App.



Login Page here with a signup functionality and forgot password button too.

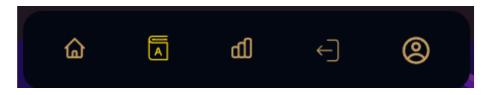
Welcome

Sign Up to dev-8ptywct04vgjtup4 to continue to Login test App.



Signup Page with login with google available too.

After login, the header changes to profile and logout symbols





Back to homepage after logging in

Now Add Problem part is visible. Users can add their problems and the details freely.



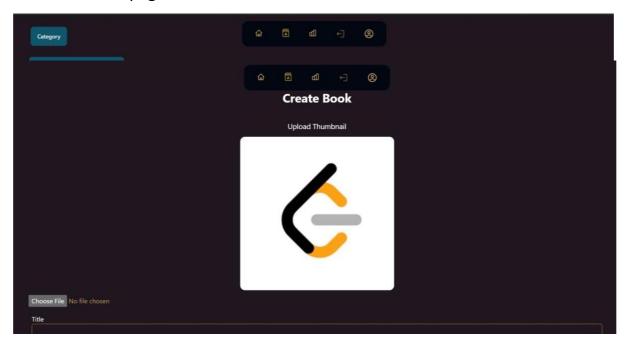
Problems that I have added for 1 user. Some of the problems are shown by



default for each user as well for enhanced experience

Page after refresh in any other tabs will still be logged in, meaning that the login session is found immediately and it is not expired till the user truly logs out.

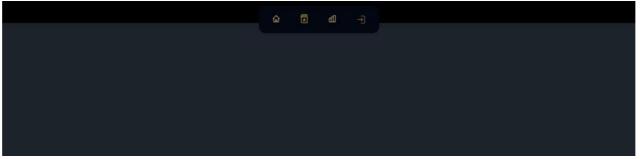
"Add Problem" page:



Now let us logout and check the same page.



As shown, the page is now not visible, since the login session is over.



Profile page also not visible since user not logged in.

Let us check the database after we add a problem. It should also have the username in it.

Backend storage: https://backend-codehelper-trial.onrender.com/api/books

```
"username": "noobmaster69cr7@gmail.com",
"__v": 0
```

Username shown as well for different users.

Along with add Problem, Delete and Update functionalities are also integrated.



Edit and Delete functionalities built in as well. Again, SSO provides that a user not logged in cannot access this link.

Code snippets implementing SSO. Already there in the Github link.

```
Code Blame 14 lines (12 loc) · 388 Bytes  Code 55% faster with GitHub Copilot

1 import React from 'react';
2 import { useAuth0 } from "@auth0/auth0-react";
3
4 v function Logout() {
5 const { logout, isAuthenticated } = useAuth0();
6
7 // Show the logout button only if the user is authenticated
8 return isAuthenticated && (
9 <a href="https://doi.org/10.1001/blanks.com/blanks-logout/">https://doi.org/10.1001/blanks-logout/</a> returnTo: window.location.origin } ))}>
10 Log Out
11 <a href="https://doi.org/10.1001/blanks-logout/">https://doi.org/10.1001/blanks-logout/</a> returnTo: window.location.origin } ))}>
14 export default Logout;
```

Fetch Data:

```
const fetchData = async () => {
  try {
    let url = baseUrl;
    if (selectedCategory) {
     url += `?category=${selectedCategory}`
    }
    const response = await fetch(url);
    if (!response.ok) {
      throw new Error("Failed to fetch data.");
    }
    const jsonData = await response.json();
    setData(jsonData);
    setIsLoading(false);
 } catch (error) {
    console.log(error);
    setError("Error fetching data. Please try again later.");
    setIsLoading(false);
 }
};
fetchData();
[selectedCategory, searchTerm]);
```

Data fetch for only the current username

```
const curr = user ? user.name : "";

const newData = data.filter(item => item.username === curr);
```

Checking authentication before displaying the button

```
{
   isAuthenticated && <Link to="/addproblem" className="text-2x1"> <button className="btn btn-accent w-2/12">+Add Problem</button></Link>
}
```

Delete and edit operations:

```
try {
   const response = await fetch(
    "https://backend-codehelper-trial.onrender.com/api/books/" + bookId,
   {
     method: "DELETE",
   }
);
```

Again, edit problem only visible if authenticated and logged in:

Also, if docker takes time, add a .dockerignore file as shown:

```
Dockerfile U

dockerignore U X

client > dockerignore

node_modules

O; vite.config.js M

O; home.jsx
```

DONE BY:

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