VIT®

Vellore Institute of Technology

(Deemed to be University under section 3 of UGC Act, 1956)

SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

QuoVit:an online website for student interaction

Done by
19BCE0437 Adarsh mishra
19BCE0493 Trinav rattan
19BCE0416 Tanmay srivastava

For the course
Course Code: CSE3002
Course Name:Internet and Web Programming

Semester: Fall 2021-22

ABSTRACT:

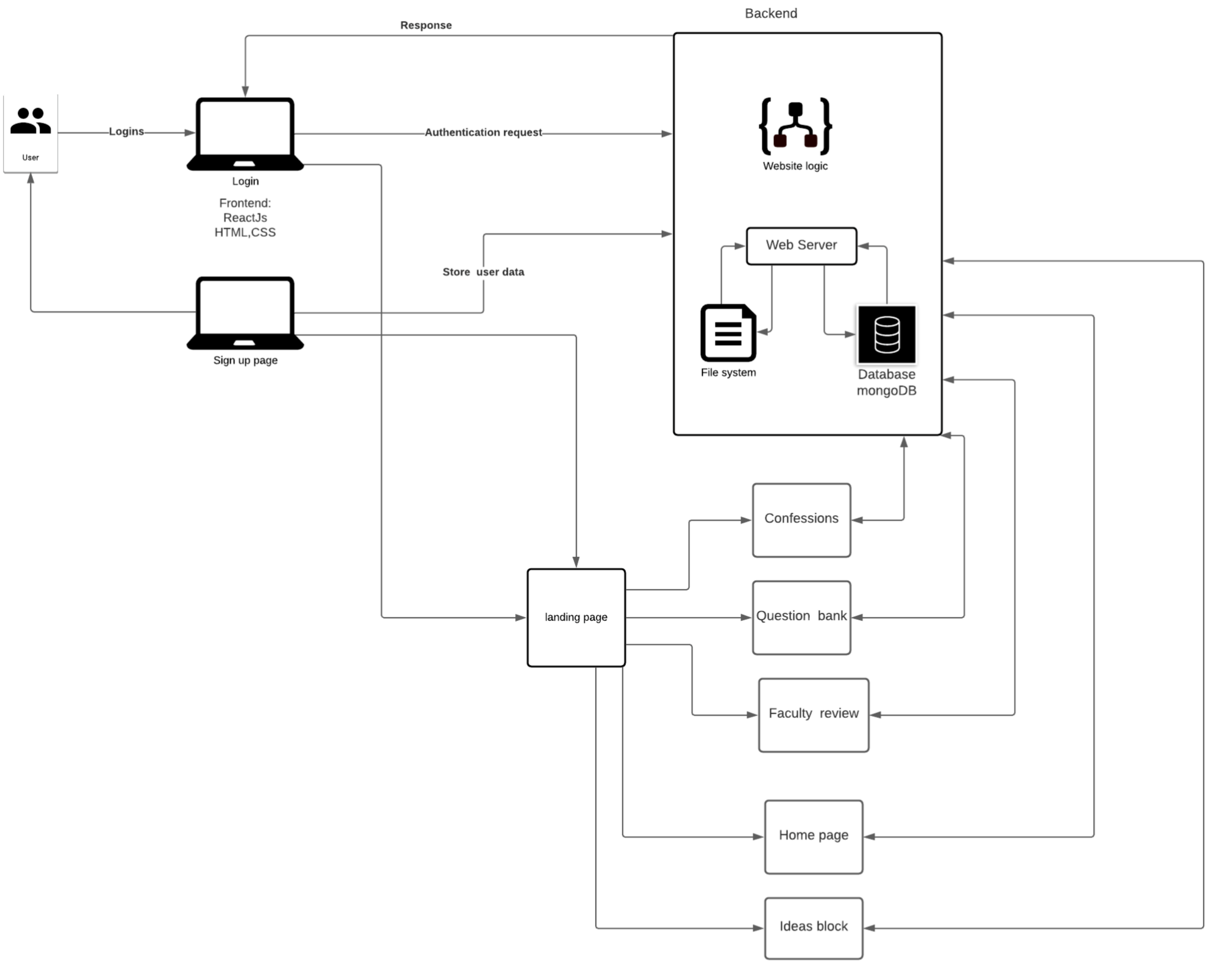
In recent times our education system has been affected severely and the whole system shifting to online method has created a rift in communication between students themselves. In offline mode students could seek advice from mentors or seniors but now due to online method for teaching this is a difficult possibility. The solution for this problem is our online website called QuoVit in which students can interact with each other, guide their junior peers, get previous year papers for practice and submit their queries as well. The major components involved in building this website is:

- Frontend: Reactjs
- Backend:Node with express
- Database:MongoDB

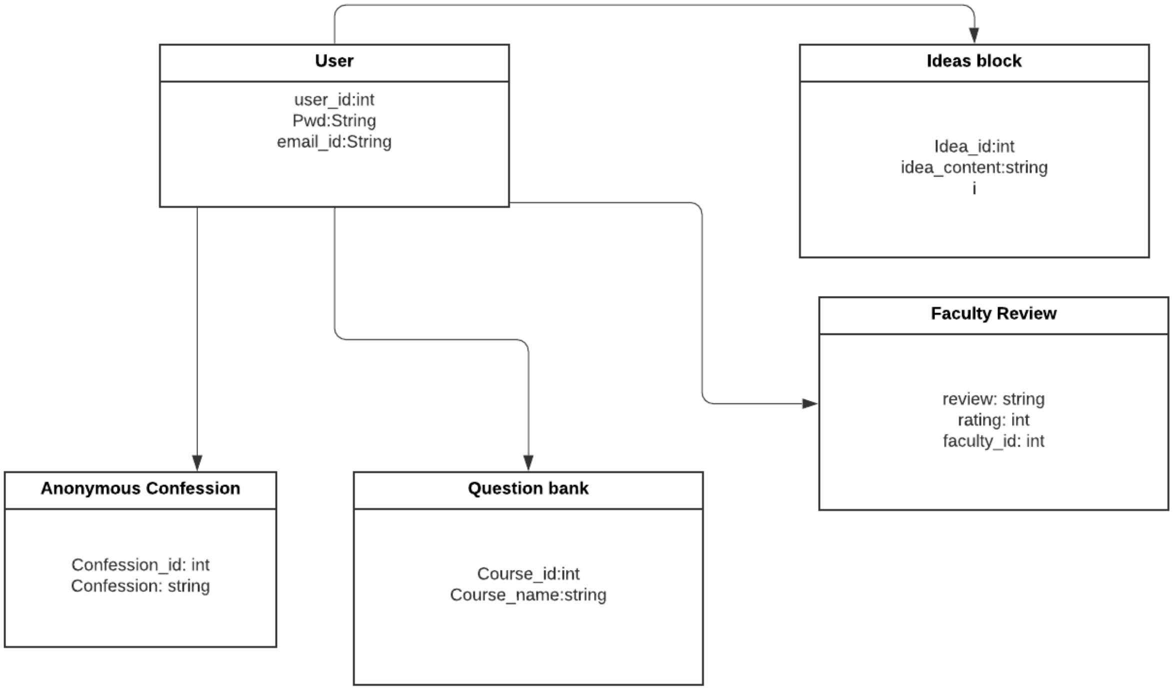
INTRODUCTION:

Before the internet, there were countless problems finding answers to questions such as not all questions being socially acceptable to ask to strangers or the , another problem was the to get the most accurate answer we had to ask several strangers from different backgrounds and knowledge bases, which was time consuming and still result in unsatisfactory answer and finally another problem what if you wanted to get an answer about all the nitty gritty details about a software engineers intense interview for Google how would you go about finding this specific person, well the answer to these problems is QuoVit is an social question-and-answer website specifically designed for college students ,it combines aspects of many different websites. For example, like Reddit, you can rate your answers positively or negatively, follow other users on Twitter, or like a Facebook page to subscribe to a topic.

ARCHITECTURE DIAGRAM



DATABASE DESIGN



MODULE DESCRIPTION:

Signup Page: The signup page allows users and organisations to independently register and gain access to the website. The signup can be multiple pages depending upon the amount of information the host requires from the newcomer.

Login Page: Once the user has signed up on the website, he can simply type his login id and password. If successfully logged in, the user gets access to the entire website by first entering on the landing page. The login page is just a web page responsible to identify and authenticate the user.

Landing Page: The page where the user first enters after successfully logging in. The landing page has all the current posts.

Faculty reviews Page: Here, the user can check the description of each faculty of the institute. The courses which the faculty takes, the reviews of the students about the faculties, and the stars given to the faculties comprise this page. This is a compiled-up page of all the faculties and their respective reviews which will reduce the time and effort of the students during the Fully Flexible Credit System (FFCS).

Question Bank Page: The curriculum of VIT has various types of exams – Digital Assignments (DAs), quizzes, Continuous Assessment Test (CAT), and Final Assessment Test (FAT). Considering such a diverse curriculum, the question bank page has the responsibility of presenting the users previous year questions papers of CAT/FAT/quizzes and DAs. Students can visit the page, enter their subject of interest, and finally go to the required exam name to view all the previous year content.

Moreover, we have added an option to add/upload the question paper. This option is accessible to everyone. E.g., we can upload the DA/CAT questions of “Cyber Security” on the “Question Bank Page” for juniors to refer.

Confessions Page: The Confessions page acts as a medium for students to express their emotions, beliefs, and troubles anonymously with their community. The page also allows students to ask for help regarding issues about work and affairs. Users can type their confessions and share it on the page. The confessions will be seen by everyone who is a member of the site. The members can react, discuss, and give suggestions on the confessions based on their experience.

Idea Sharing Page: Here, the students can post their project ideas subject-wise. They can type their ideas and send it to the public. Other users can view, react, and discuss the same.

Mentorship Page: This page gives the students guidance or direction by their mentors. Suppose, a student has interest particularly in the "Data Science" field, he can go to the "Mentorship page" and view other students/seniors who have similar interest as his. Next, he can contact the person by going to his profile page. Finally, an exchange of knowledge and experience can take place.

Moreover, a senior-junior relationship can be established in these treacherous times of covid where many juniors do not have a guide and seniors do not have a disciple.

Profile Page: The profile page is responsible for highlighting the key features and traits of the user. The profile page of a person is what everyone sees before approaching that person. It has the name, email, photo, designation, description, etc. of the person.

About us: The 'about us page' aims to tell the readers about the website, purpose, and operations. It also involves some description of the group/organisation who has built the website.

Contact us: This page explains why a user should contact us and describes the benefits of reaching us. It includes email or phone no. that the users could quickly find and send their queries or issues.

SAMPLE CODE:

Confessions Page:

```
import React, { useEffect } from "react";
import ConfessionCard from "../../Components/Cards/ConfessionCard";
import MainLayout from "../../Components/Structure/Main";
import "./css/Confessions.css";
import { getConfessions } from "../../Actions/confessions";
import { useDispatch, useSelector } from "react-redux";
import AddConfession from "./AddConfession";

export default function Confessions() {
  const dispatch = useDispatch();
  const { confessions } = useSelector((state) => state.confessions);
  useEffect(() => {
    dispatch(getConfessions());
  }, [dispatch]);
  return (
    <MainLayout type="confessions">
      <AddConfession />
      <div className="confessions-cont">
        <div className="c-1">
          {confessions.map((confession, index) =>
            index % 2 === 0 ? (
              <ConfessionCard
                date={confession.date}
                confession={confession.confession}
                id={confession.id}
                index={index}
              />
            ) : (
              ""
            )
          )}
        </div>
        <div className="c-2">
          {confessions.map((confession, index) =>
            index % 2 !== 0 ? (
              <ConfessionCard
```

```
                date={confession.createdAt}
                confession={confession.confession}
                id={confession.id}
                index={index}
              />
            ) : (
              ""
            )
          )}
        </div>
      </div>
    </MainLayout>
  );
}
```

Faculty Review Page:

```
import React, {useEffect,useState} from "react";
import MainLayout from "../../Components/Structure/Main";
import FacultyReviewCard from "../../Components/Cards/FacultyReviewCard";
import AddFacultyModal from "./AddFacultyModal";
import { getFacultyReviews } from "../../Actions/facultyReviews";
import { useDispatch, useSelector } from "react-redux";
import RateFacultyModal from "./RateFacultyModal";
import Search from "./Search";
import "./css/FacultyReview.css";

export default function FacultyReview() {
  const [rateShow,setRateShow] = useState(false);
  const [activeFaculty,setAcitveFaculty] = useState({id:"",name:""})
  const dispatch = useDispatch();
  const {facultyReviews} = useSelector((state) => state.facultyReviews);
  useEffect(() => {
    dispatch(getFacultyReviews());
  }, [dispatch]);
  const handleRateShow = (id,name) => {
    setAcitveFaculty({id,name});
    setRateShow(true)
  }
  return (
    <MainLayout type="facultyReviews">
      <Search faculties={facultyReviews} />
      <AddFacultyModal />
      <RateFacultyModal showModal={rateShow} activeFaculty={activeFaculty}
closeModal={()=>setRateShow(false)}/>
      <div className="fac-main">
        <div className="fac-cards">
          {facultyReviews.map((faculty) => (
            <FacultyReviewCard faculty={faculty}
handleShow={handleRateShow}/>
          ))}
        </div>
      </div>
    </MainLayout>
  );
}
```

Ideas Block:

```
import React, { useEffect } from "react";
import { getIdeas } from "../../Actions/ideasBlock";
import { useDispatch, useSelector } from "react-redux";
import MainLayout from "../../Components/Structure/Main";
import IdeaCard from "../../Components/Cards/IdeaCard";
import "./css/IdeasBlock.css";
import AddIdeaModal from "./AddIdeaModal";

export default function IdeasBlock() {
  const dispatch = useDispatch();
  const { ideas } = useSelector((state) => state.ideas);
  useEffect(() => {
    dispatch(getIdeas());
  }, [dispatch]);
  return (
    <MainLayout type="ideasBlock">
      <AddIdeaModal />
      <div className="ideas-main">
        {ideas.map((idea) => (
          <IdeaCard idea={idea} />
        ))}
      </div>
    </MainLayout>
  );
}
```

Landing Page:

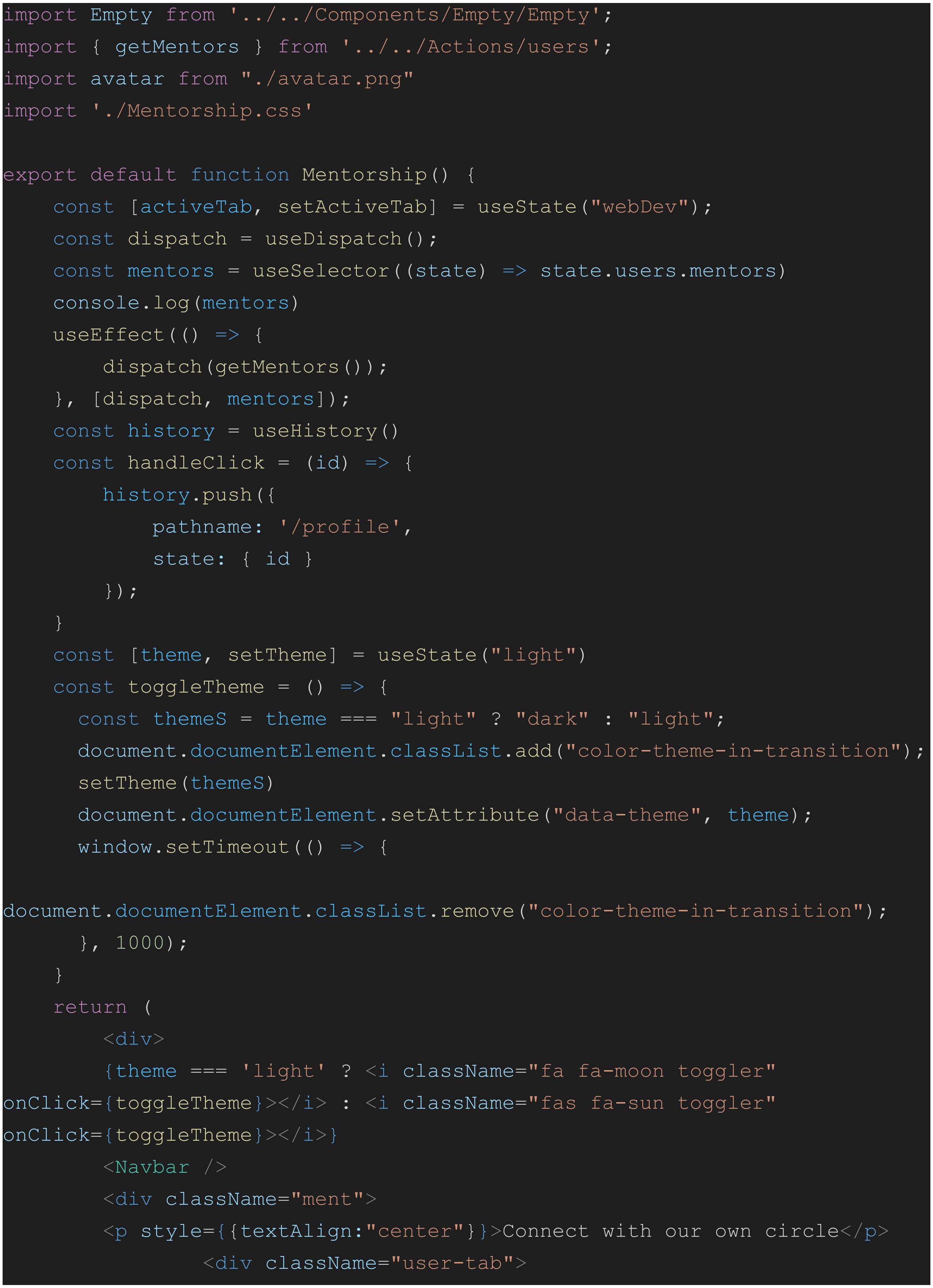
```
import React, { useEffect } from "react";
import { getPosts } from "../../Actions/posts";
import { useDispatch, useSelector } from "react-redux";
import MainLayout from "../../Components/Structure/Main";
import "./css/Landing.css";
import LandingCard from "../../Components/Cards/LandingCard";
import AddPostModal from "./AddPostModal";

export default function Landing(){
  const dispatch = useDispatch();
  const {posts,savedPosts} = useSelector((state) => state.posts);
  const auth = useSelector((state)=>state.auth)
  useEffect(() => {
    dispatch(getPosts(auth._id));
  }, [dispatch,auth]);

    return (
        <MainLayout type="landing">
          <AddPostModal />
          <div className="landing-main">
            {posts.map((post) => (
              <LandingCard
                post={post}
                saved={savedPosts.some(sPost=>sPost._id === post._id)}
              />
            ))}
          </div>
        </MainLayout>
    );
}
```

Question Bank Page:

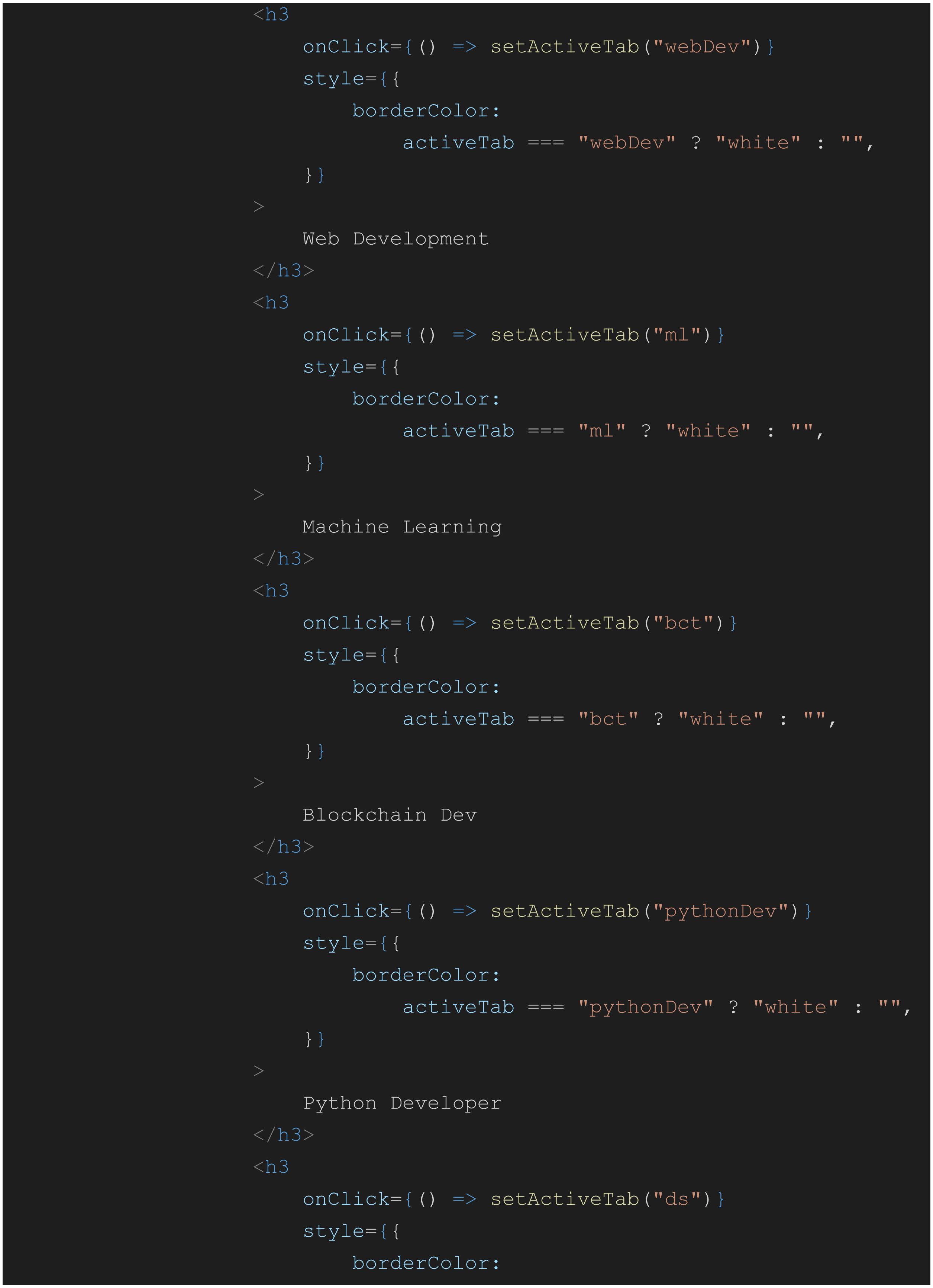
```
import React , { useEffect } from "react";
import { useDispatch, useSelector } from "react-redux";
import CourseCard from "../../Components/Cards/CourseCard";
import MainLayout from "../../Components/Structure/Main";
import AddPaperModal from "./AddPaperModal";
import { getCourses } from "../../Actions/questionBank";
import Search from "./Search";
import "./css/QuestionBank.css";

export default function QuestionBank() {
  const dispatch = useDispatch();
  const { courses } = useSelector((state) => state.questionBank);
  useEffect(() => {
    dispatch(getCourses());
  }, [dispatch]);
  return (
    <MainLayout type="questionBank">
      <AddPaperModal />
      <Search courses={courses} />
      <div className="course-container">
        {courses.map((course) => (
          <CourseCard course={course} />
        ))}
      </div>
    </MainLayout>
  );
}
```

Mentorship Page:

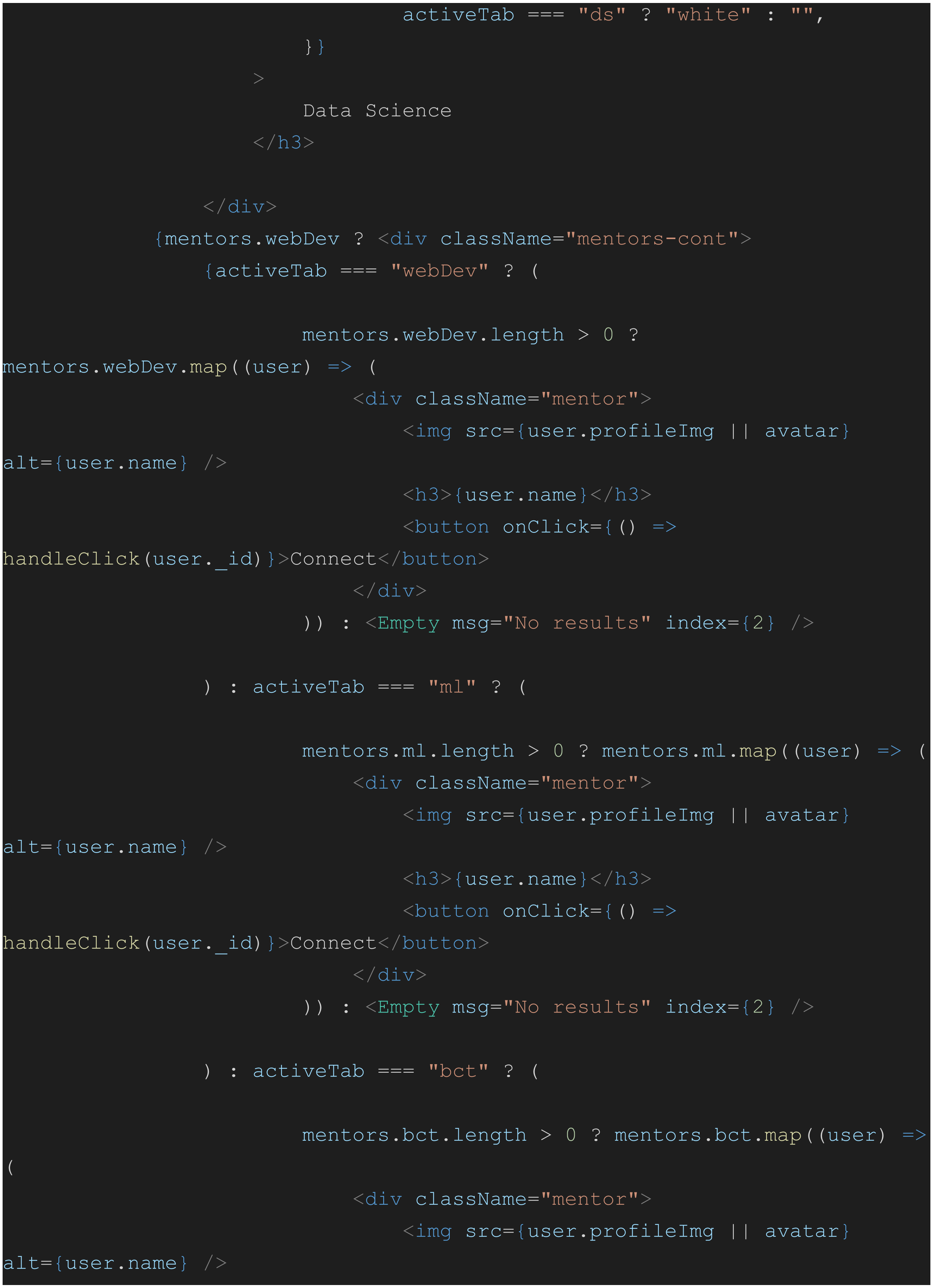
```
import React, { useState, useEffect } from 'react'
import { useHistory } from 'react-router'
import { useDispatch, useSelector } from "react-redux";
import Navbar from '../../Components/Layout/Navbar';
import Footer from '../../Components/Layout/Footer';
import Loader from '../../Components/Loader/loader';
```



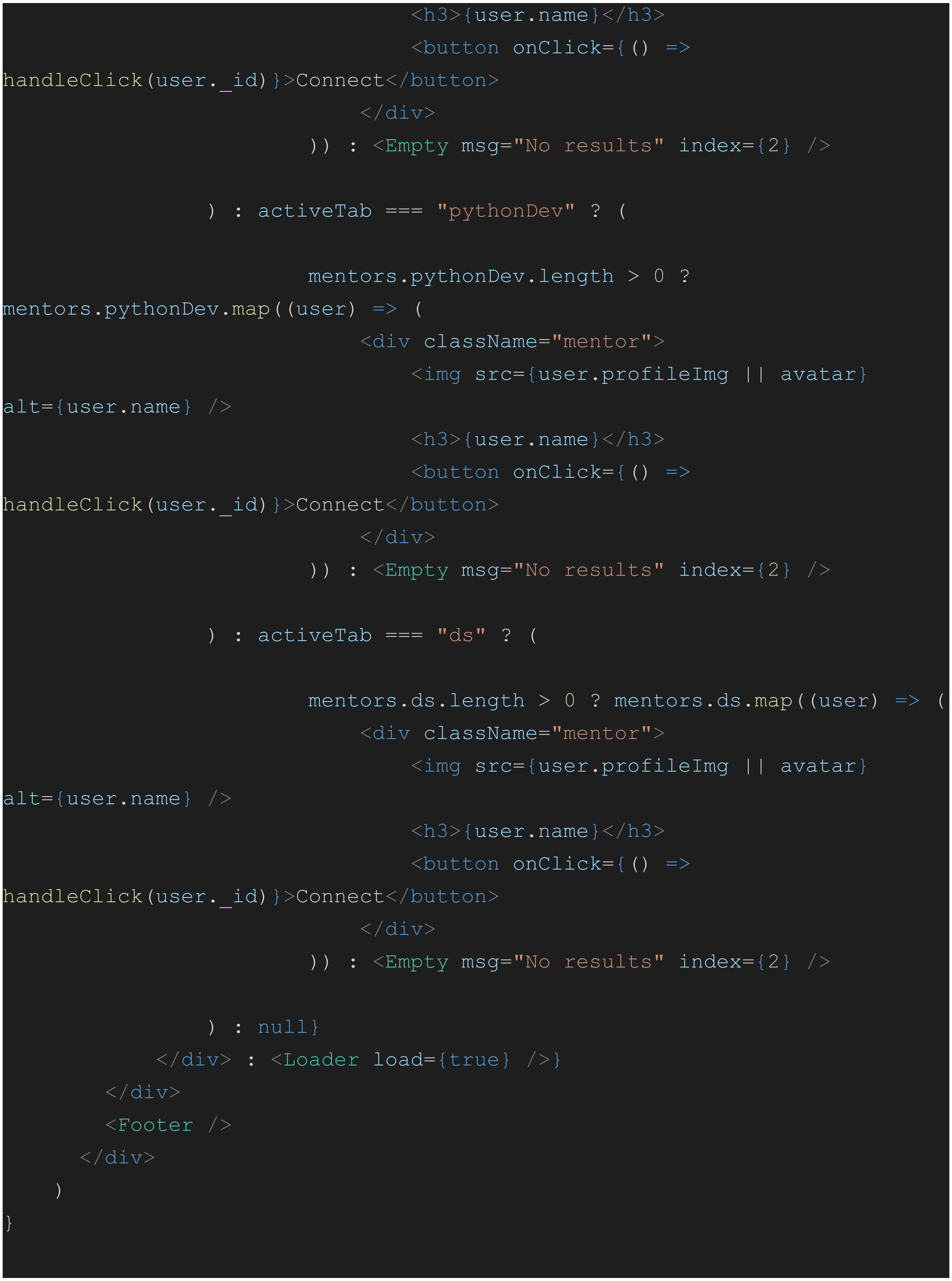
```
import Empty from '../../Components/Empty/Empty';
import { getMentors } from '../../Actions/users';
import avatar from "./avatar.png"
import './Mentorship.css'

export default function Mentorship() {
    const [activeTab, setActiveTab] = useState("webDev");
    const dispatch = useDispatch();
    const mentors = useSelector((state) => state.users.mentors)
    console.log(mentors)
    useEffect(() => {
        dispatch(getMentors());
    }, [dispatch, mentors]);
    const history = useHistory()
    const handleClick = (id) => {
        history.push({
            pathname: '/profile',
            state: { id }
        });
    }
    const [theme, setTheme] = useState("light")
    const toggleTheme = () => {
      const themeS = theme === "light" ? "dark" : "light";
      document.documentElement.classList.add("color-theme-in-transition");
      setTheme(themeS)
      document.documentElement.setAttribute("data-theme", theme);
      window.setTimeout(() => {

document.documentElement.classList.remove("color-theme-in-transition");
      }, 1000);
    }
    return (
        <div>
        {theme === 'light' ? <i className="fa fa-moon toggler"
onClick={toggleTheme}></i> : <i className="fas fa-sun toggler"
onClick={toggleTheme}></i>}
        <Navbar />
        <div className="ment">
        <p style={{textAlign:"center"}}>Connect with our own circle</p>
                <div className="user-tab">
```



```
                    <h3
                        onClick={() => setActiveTab("webDev")}
                        style={{
                            borderColor:
                                activeTab === "webDev" ? "white" : "",
                        }}
                    >
                        Web Development
                    </h3>
                    <h3
                        onClick={() => setActiveTab("ml")}
                        style={{
                            borderColor:
                                activeTab === "ml" ? "white" : "",
                        }}
                    >
                        Machine Learning
                    </h3>
                    <h3
                        onClick={() => setActiveTab("bct")}
                        style={{
                            borderColor:
                                activeTab === "bct" ? "white" : "",
                        }}
                    >
                        Blockchain Dev
                    </h3>
                    <h3
                        onClick={() => setActiveTab("pythonDev")}
                        style={{
                            borderColor:
                                activeTab === "pythonDev" ? "white" : "",
                        }}
                    >
                        Python Developer
                    </h3>
                    <h3
                        onClick={() => setActiveTab("ds")}
                        style={{
                            borderColor:
```



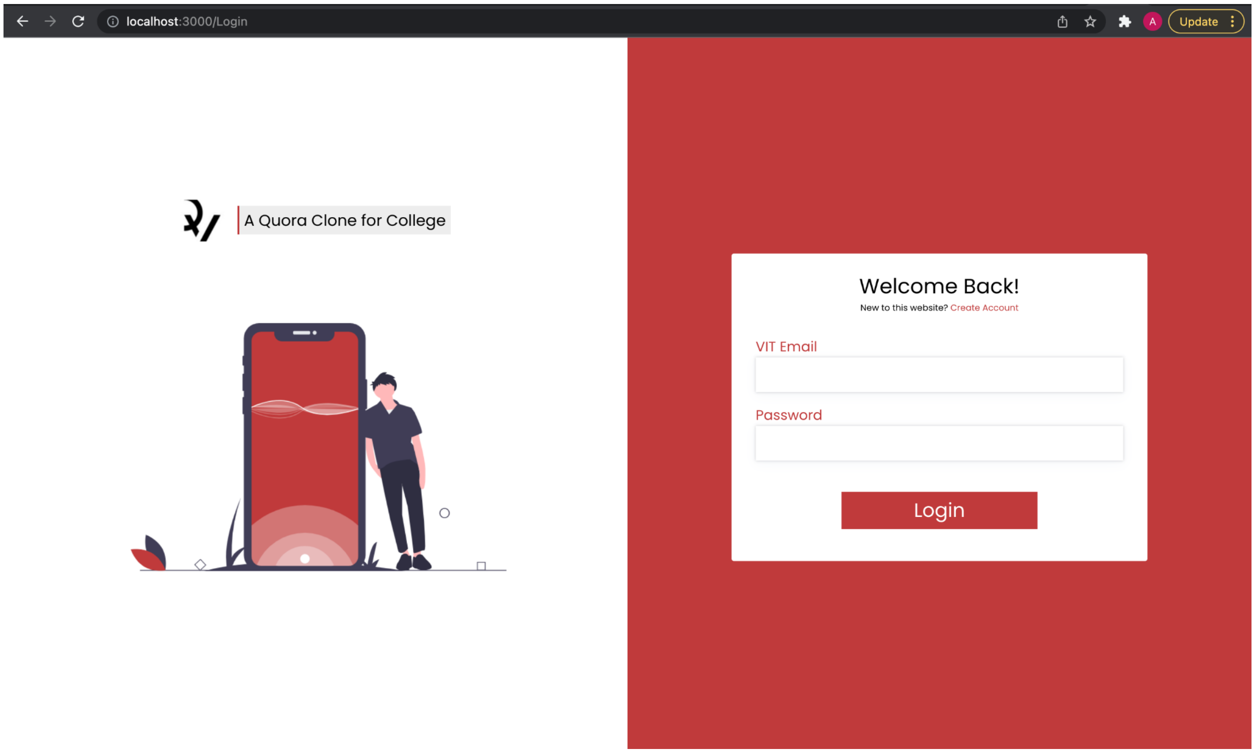
```
                                activeTab === "ds" ? "white" : "",
                        }}
                    >
                        Data Science
                    </h3>

                </div>
            {mentors.webDev ? <div className="mentors-cont">
                {activeTab === "webDev" ? (

                        mentors.webDev.length > 0 ?
mentors.webDev.map((user) => (
                            <div className="mentor">
                                <img src={user.profileImg || avatar}
alt={user.name} />
                                <h3>{user.name}</h3>
                                <button onClick={() =>
handleClick(user._id)}>Connect</button>
                            </div>
                        )) : <Empty msg="No results" index={2} />

                ) : activeTab === "ml" ? (

                        mentors.ml.length > 0 ? mentors.ml.map((user) => (
                            <div className="mentor">
                                <img src={user.profileImg || avatar}
alt={user.name} />
                                <h3>{user.name}</h3>
                                <button onClick={() =>
handleClick(user._id)}>Connect</button>
                            </div>
                        )) : <Empty msg="No results" index={2} />

                ) : activeTab === "bct" ? (

                        mentors.bct.length > 0 ? mentors.bct.map((user) =>
(
                            <div className="mentor">
                                <img src={user.profileImg || avatar}
alt={user.name} />
```



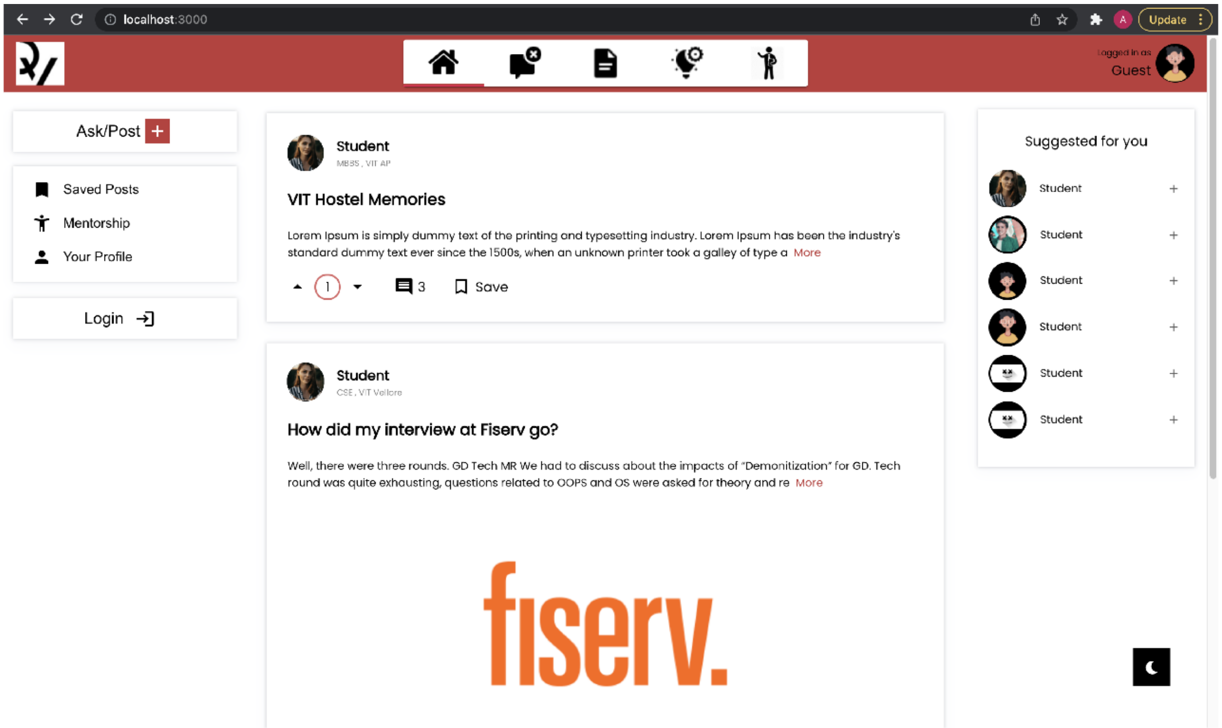
```
                                <h3>{user.name}</h3>
                                <button onClick={() =>
handleClick(user._id)}>Connect</button>
                            </div>
                        )) : <Empty msg="No results" index={2} />

                ) : activeTab === "pythonDev" ? (

                        mentors.pythonDev.length > 0 ?
mentors.pythonDev.map((user) => (
                            <div className="mentor">
                                <img src={user.profileImg || avatar}
alt={user.name} />
                                <h3>{user.name}</h3>
                                <button onClick={() =>
handleClick(user._id)}>Connect</button>
                            </div>
                        )) : <Empty msg="No results" index={2} />

                ) : activeTab === "ds" ? (

                        mentors.ds.length > 0 ? mentors.ds.map((user) => (
                            <div className="mentor">
                                <img src={user.profileImg || avatar}
alt={user.name} />
                                <h3>{user.name}</h3>
                                <button onClick={() =>
handleClick(user._id)}>Connect</button>
                            </div>
                        )) : <Empty msg="No results" index={2} />

                ) : null}
            </div> : <Loader load={true} />}
        </div>
        <Footer />
      </div>
    )
}
```

SCREENSHOTS:

Login page:



Landing Page:



Student
MBBS , VIT AP

VIT Hostel Memories

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type a More

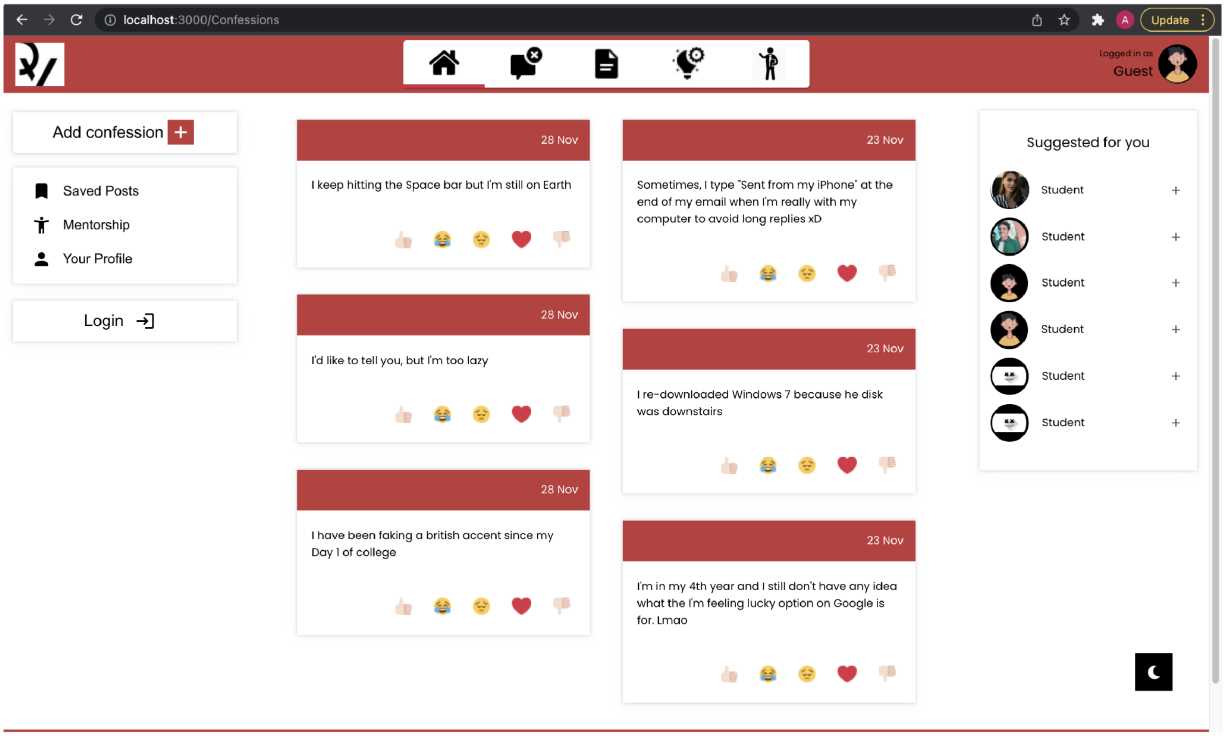
1 3 Save

Student
CSE , VIT Vellore

How did my interview at Fiserv go?

Well, there were three rounds. GD Tech MR We had to discuss about the impacts of "Demonitization" for GD. Tech round was quite exhausting, questions related to OOPS and OS were asked for theory and re More

Confessions Page:



28 Nov

I keep hitting the Space bar but I'm still on Earth

28 Nov

I'd like to tell you, but I'm too lazy

28 Nov

I have been faking a british accent since my Day 1 of college

23 Nov

Sometimes, I type "Sent from my iPhone" at the end of my email when I'm really with my computer to avoid long replies xD

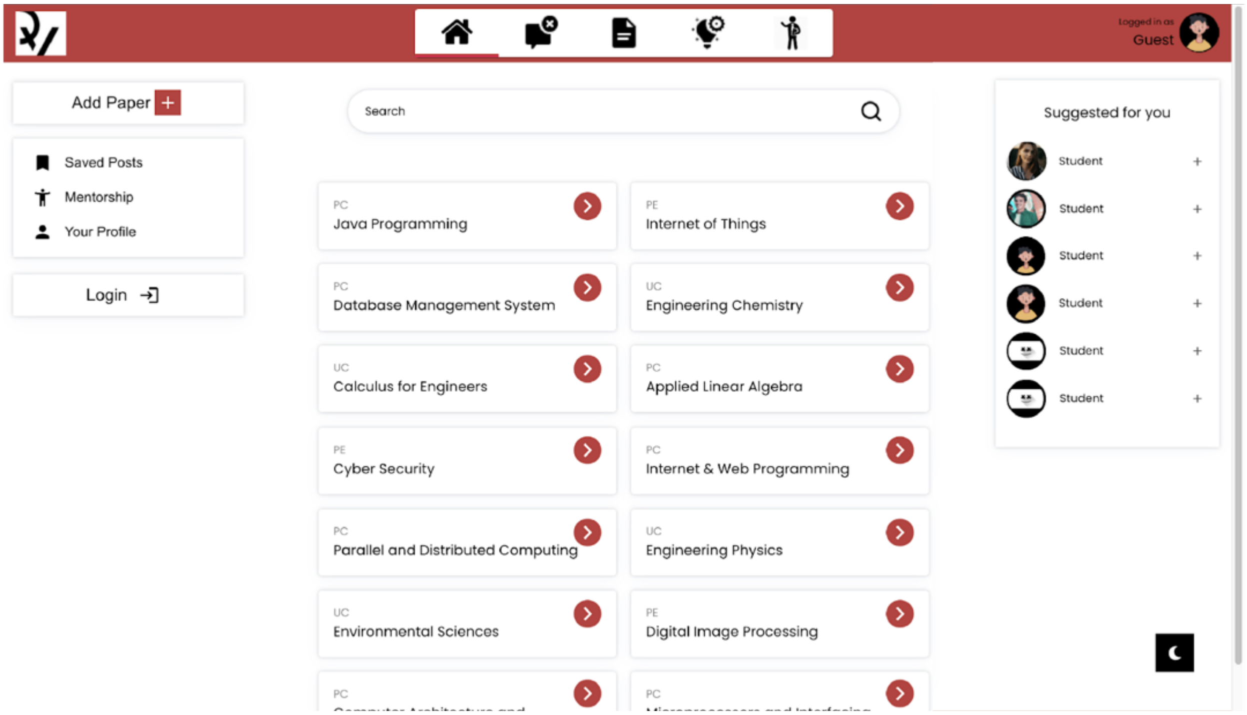
23 Nov

I re-downloaded Windows 7 because he disk was downstairs

23 Nov

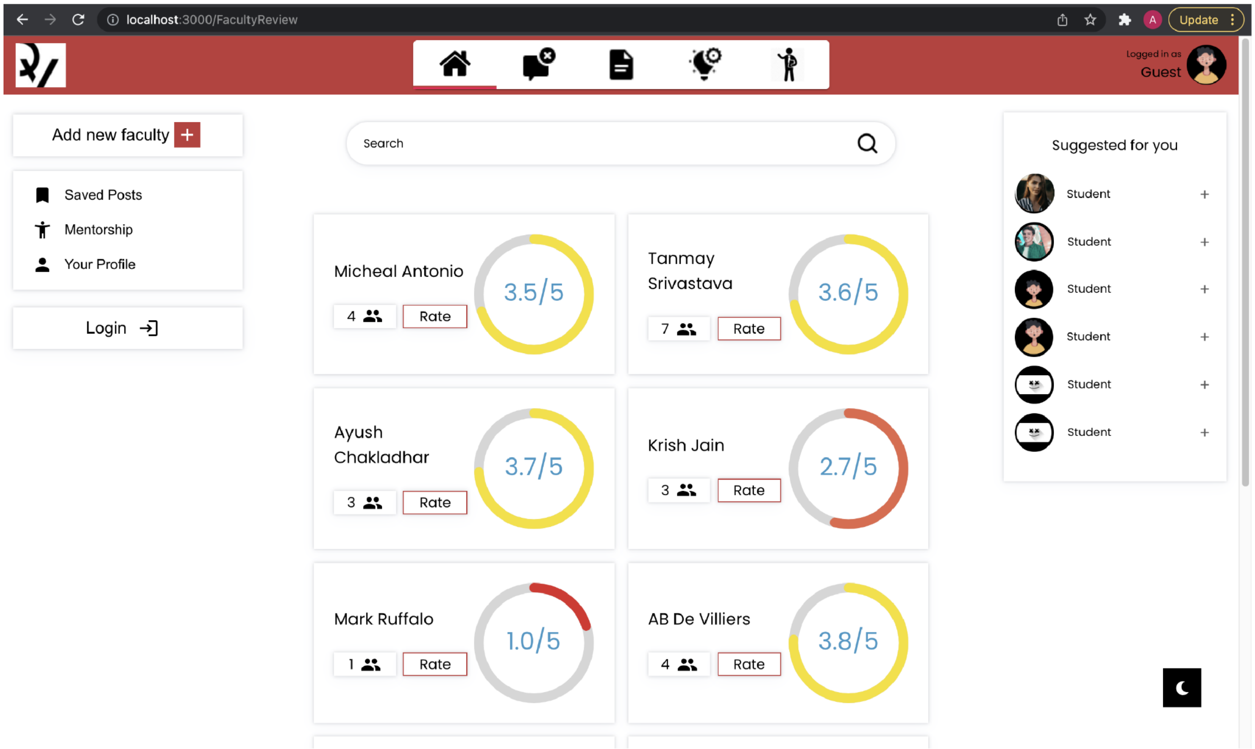
I'm in my 4th year and I still don't have any idea what the I'm feeling lucky option on Google is for. Lmao

Question Bank Page:



PC Java Programming	PE Internet of Things
PC Database Management System	UC Engineering Chemistry
UC Calculus for Engineers	PC Applied Linear Algebra
PE Cyber Security	PC Internet & Web Programming
PC Parallel and Distributed Computing	UC Engineering Physics
UC Environmental Sciences	PE Digital Image Processing
PC Computer Architecture and	PC Microprocessors and Interfacing

Faculty Review Page:



Micheal Antonio 3.5/5 4 Rate

Tanmay Srivastava 3.6/5 7 Rate

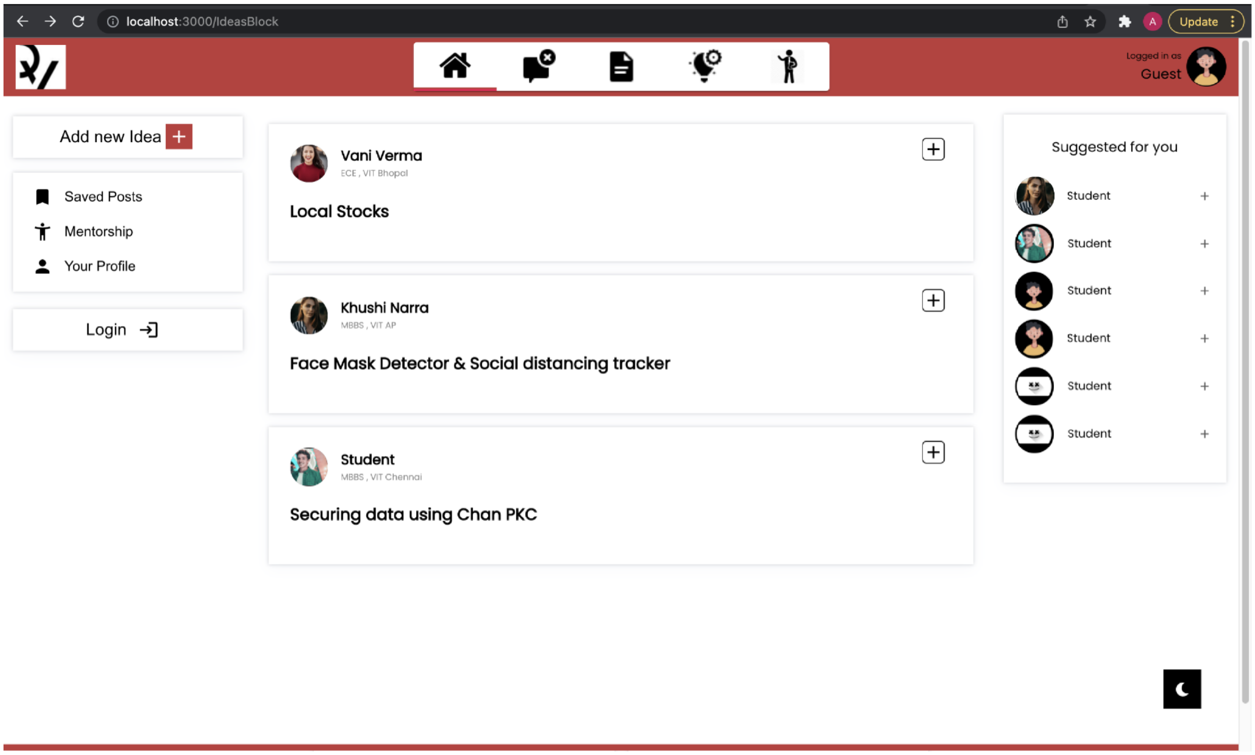
Ayush Chakladhar 3.7/5 3 Rate

Krish Jain 2.7/5 3 Rate

Mark Ruffalo 1.0/5 1 Rate

AB De Villiers 3.8/5 4 Rate

Ideas Block:



Vani Verma
ECE , VIT Bhopal
Local Stocks

Khushi Narra
MBBS , VIT AP
Face Mask Detector & Social distancing tracker

Student
MBBS , VIT Chennai
Securing data using Chan PKC

CONCLUSION:

QuoVIT is a social media platform for VIT students. Offering various facilities which the students belonging to an educational institution need. We serve as an all in one. While providing multi-faceted facilities ranging from the traditional social media posts to more college/VIT specific functionalities like faculty reviews, doubt clarifications forum and more facilities. All of this comes under the umbrella of one website which caters to the needs of an enormous educational institution like VIT. We make sure not to apply the one-fits all model to digital networking platforms and have thus chosen to take it upon ourselves to provide institution specific functionalities on our portal.

We make the lives of students easier by giving them one place for all their needs related to college. Be it discussions, socializing, information gathering; QuoVIT has it all. We aim to improve the quality of life and education by providing a vital support system to all the VITians in order to empower them to make well informed decisions and have better control over their fate.

We believe that launching this website would help the students of Vellore Institute of Technology a better experience in the college.