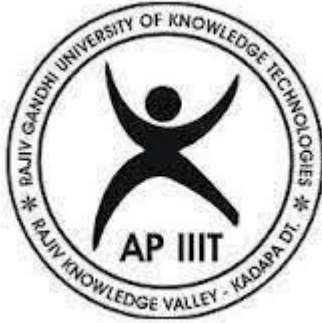


“CS HUB”
BACHELOR OF TECHNOLOGY
in
COMPUTER SCIENCE AND ENGINEERING



RGUKT
Rajiv Gandhi University of Knowledge Technologies
R.K. VALLEY

Submitted by

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Under the Esteemed guidance of
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DECLARATION

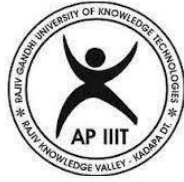
We hereby declare that the report of the B. Tech Major Project Work entitled **“CS HUB(Computer Science Department Portal)”** which is being submitted to Rajiv Gandhi University of Knowledge Technologies, RK Valley, in partial fulfilment of the requirements for the award of Degree of Bachelor of Technology in Computer Science and Engineering, is a bonafide report of the work carried out by us. The material contained in this report has not been submitted to any university or institution for award of any degree.

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Dept. Of Computer Science and Engineering.

RAJIV GANDHI UNIVERSITY OF KNOWLEDGE TECHNOLOGIES



RGUKT

(A.P. Government Act 18 of 2008)

RGUKT, RK VALLEY

Department of Computer Science and Engineering

CERTIFICATE FOR PROJECT COMPLETION

This is to certify that the project entitled “**CS HUB**” submitted by **G GANGADHAR(R170061)**, **D JAYAKRISHNA(R170064)**, under our guidance and supervision for the partial fulfilment for the degree Bachelor of Technology in Computer Science and Engineering during the academic semester -2 2022-2023 at RGUKT, RK VALLEY. To the best of my knowledge, the results embodied in this dissertation work have not been submitted to any University or Institute for the award of any degree or diploma.

Project Internal Guide

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ABSTRACT

Main aim of the project is to develop a departmental website portal for Computer Science Department where all details and updates of the department is presented. Instead of communicating through social media like WhatsApp and Telegram, this portal gives all updates to Students and faculty.

As everyone has access to this website no student can miss any updates. In this portal there will be availability of curriculums, timetables, faculty details, student details and all subjects related materials and placement related resources etc. The admin has control over all activities in the portal. HOD and faculty has their own privileges to particular activities.

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CS HUB REPORT

Introduction:

The Computer Science Department portal (CS Hub) is an online web portal for the students and faculties. It is an interactive service for students and information seekers of RGUKT RK Valley Computer Science Department. It is easy to access and use for communication between faculties and students. It can also be used for keeping track of information and documents of students and faculties as well.

Intended Audience:

The intended audience will be the **students and faculty** of RGUKT RK Valley Computer Science Department.

Product Vision:

The product vision is to develop a CS Hub (Computer Science Department portal) which is user friendly and easily accessible. This CS Hub helps to provide one platform for all information, details of academics, placements, facilities, faculty and students in CSE department.

Technologies:

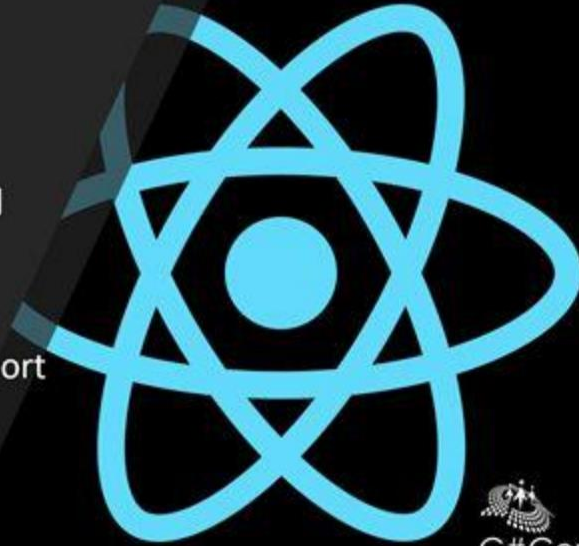
- ReactJs, CSS
- NodeJs, ExpressJs
- MongoDB

ReactJs

React is a declarative, efficient, and flexible JavaScript library for building user interfaces. It lets you compose complex UIs from small and isolated pieces of code called “components”.

React Properties

1. React is declarative
2. React is simple yet powerful
3. React is component-based
4. React supports server-side
5. React supports mobile support
6. React is extensible



A Stateful Component

In addition to taking input data (accessed via `this.props`), a component can maintain internal state data (accessed via `this.state`). When a component's state data changes, the rendered markup will be updated by re-invoking `render()`.

A Simple Component

React components implement a `render()` method that takes input data and returns what to display. This example uses an XML-like syntax called JSX. Input data that is passed into the component can be accessed by `render()` via `this.props`

```
import React from 'react';

const NewComponent = () => {
  return (
    <div>
      <h1> Hello, welcome to ReactJS</h1>
    </div>
  );
}

export default NewComponent;
```

Node Js

Node.js is an open-source, cross-platform, back-end JavaScript runtime environment that runs on the V8 engine and executes JavaScript code outside a web browser. Node.js lets developers use JavaScript to write command line tools and for server-side scripting—running scripts server-side to produce dynamic web page content before the page is sent to the user's web browser.

Consequently, Node.js represents a "JavaScript everywhere" paradigm unifying web-application development around a single programming language, rather than different languages for server-side and client-side scripts.

Express Js

Express.js is a popular open-source web application framework for Node.js. It provides a robust set of features and tools for building web applications and APIs, making it a popular choice for developers who want to create scalable, flexible, and efficient web applications.

With Express.js, developers can easily handle HTTP requests and responses, manage middleware, define routes, and implement a wide range of features such as authentication, templating, and database connectivity. Express.js is also highly modular and extensible, allowing developers to choose and use only the components they need for their specific project.

MongoDB

MongoDB is a document-oriented NoSQL database used for high volume data storage. Instead of using tables and rows as in the traditional relational databases, MongoDB makes use of collections and documents. Documents consist of key-value pairs which are the basic unit of data in MongoDB. Collections contain sets of documents and function which is the equivalent of relational database tables. Collections → Table Documents → Rows 9 page of 45

MongoDB Connection to Nodejs

```
import mongoose from "mongoose"
const {Schema} = mongoose

const uri = "mongodb://127.0.0.1:27017"

export default async function connect(){
  await mongoose.connect(uri)
  console.log("Database connected");
}
```



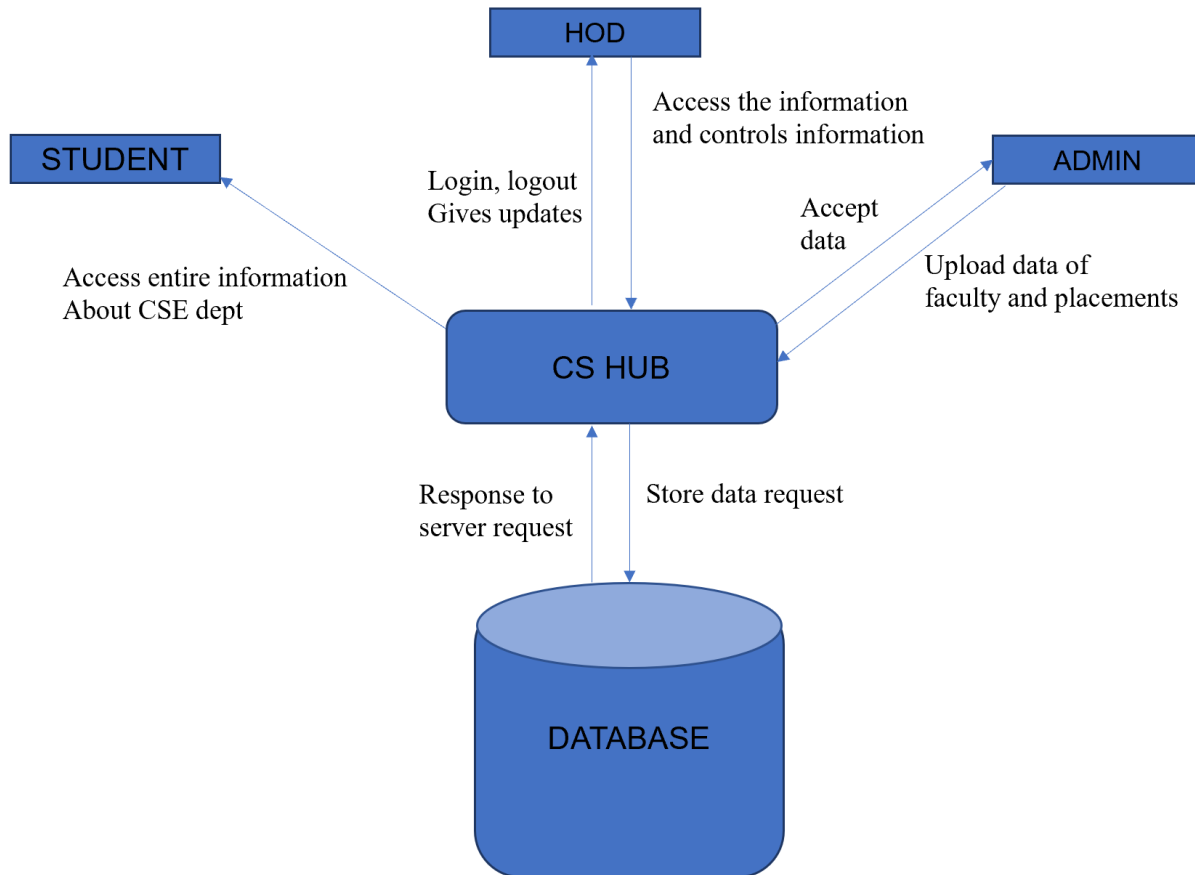
```
import mongoose from "mongoose";
const {Schema} = mongoose;

const userSchema = new Schema({
  email : {
    type : String,
    required : true,
  },
  password : {
    type : String,
    required : true,
  }
})

export default mongoose.model('User', userSchema)
```

System in Context:

This CS HUB provides the list updates, academics, placements, facilities, details of faculty and students of Computer science department.



System-wide Requirements(Received):

Actors:

The system interacts with Two kinds of users. Each user has its own functions to access with the system. The functionalities of users are dependent on each other.

Events:

CS Hub Platform is a multi-user system which provides activities associated with its day to day operations.

The most critical events are:

1. Students get all information about CSE department at single site.
2. HOD login using username and password.

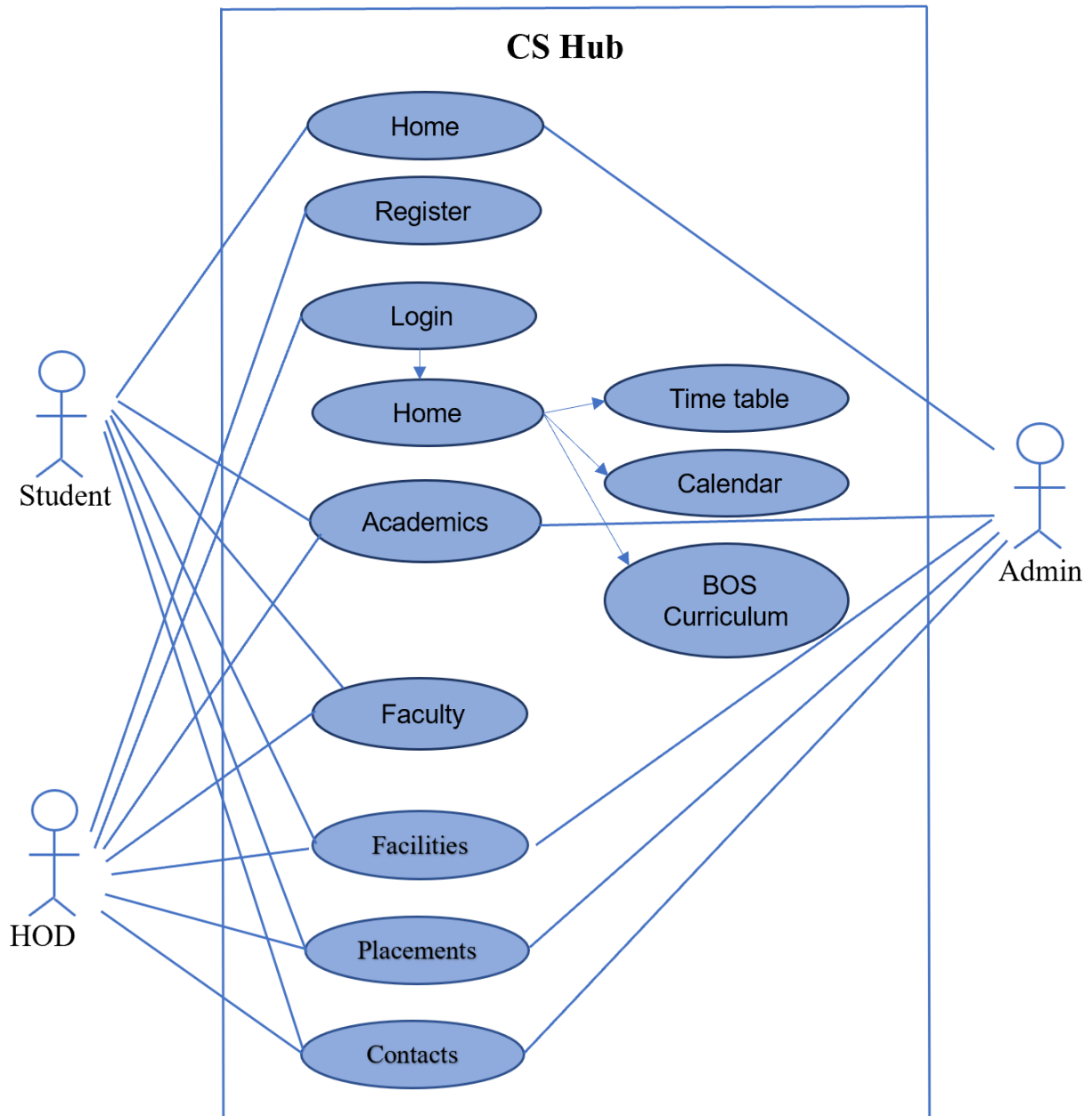
3. HOD posts updates, time tables, academic calendar.
4. Admin manages all details of academics, placements, facilities, faculty and students.

The below table provides a set of user visible events that define the functionalities that are in CS Hub.

S. No	Actor	Action	Object	Frequency	Arrival Pattern	Response
1	Student	Onclick	Academic Calendar	1/day	Episodic	It shows academic calendar of semester
2	Student	Onclick	Time table	1/day	Episodic	It shows time tables of each batch
3	Student	Onclick	Bos cur	1/day	Episodic	It shows BOS curriculum of each batch
4	Student	Onclick	Students	1/day	Episodic	It shows details of students of each batch
5	Student	Onclick	Faculty	1/day	Episodic	It shows details of faculty
6	Student	Onclick	Facilities	1/day	Episodic	It shows details of facilities
7	Student	Onclick	Placements	1/day	Episodic	It shows information about placements
8	HOD	Onclick	Login	1/day	Episodic	It asks email and password
9	HOD	Onclick	Add update	1/day	Episodic	HOD can post updates
10	HOD	Onclick	Add time table	1/day	Episodic	HOD can upload time tables
11	HOD	Onclick	Add calendar	1/day	Episodic	HOD can upload academic calendar

Functional Requirements:

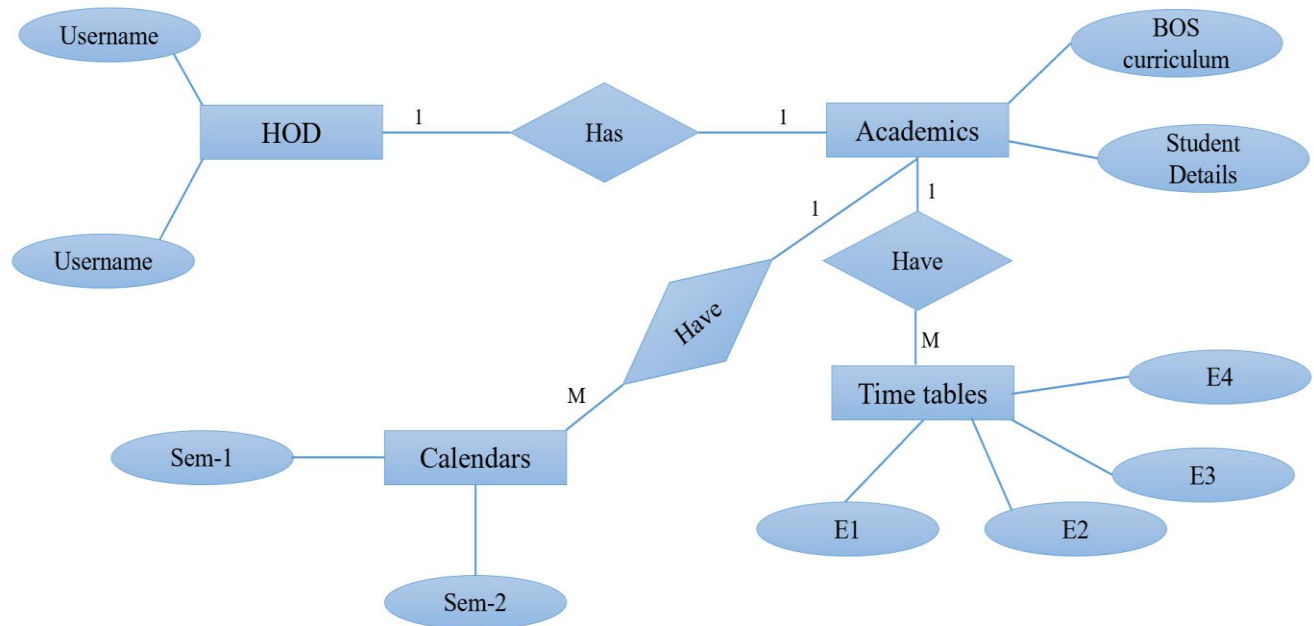
Use Case Diagram:



Use Case Overview:

S. NO	Use-case ID	Use-case Name	Priority	Stability	Verifiable
1	UC-CH-RE	Registration	High	Not Stable	Verifiable
2	UC-CH-UP	Updates	High	Stable	Verifiable
3	UC-CH-CA	Calendars	High	Stable	Verifiable
4	UC-CH-PL	Placements	High	Stable	Verifiable
5	UC-CH-AC	Academics	High	Stable	Verifiable

ER Diagram:



Starting Project:

Steps:

1. Install Node in System
2. Create new React project with below code
npm create-react-app projectname
3. Install all the dependencies required for the project with below code
npm install dependencyName
4. Complete the code
5. Complete backend files
6. Start the frontend and backend servers with below code
npm start

This command will generate an url <https://localhost:3000/> click on the link and can access the website.

Source Code:

FrontEnd

App.js

```
import React, {useState} from 'react' ...

const App = () => {

  return (
    <BrowserRouter>
      <Routes>
        <Route path="/" element={<><Navbar/> <Home/></>}/>

        <Route path="/login" element={<><Navbar/><HODlogin/></>}/>
        <Route path="/register" element={<><Navbar/><SignUp/></>}/>
        <Route path="/hod" element={<><HODNavbar/><HODPage/></>}/>
        <Route path="/hod/updates" element={<><HODNavbar/><AddUpdate/></>}/>
        <Route path="/timeTableManager" element={<><HODNavbar/><TimeTableManager/></>}/>
        <Route path="/calendarManager" element={<><HODNavbar/><CalendarManager/></>}/>

        <Route path="/academics/calendar" element={<><Navbar/><AcademicCalendar/></>}/>
        <Route path="/academics/timetable" element={<><Navbar/><Academics/></>}/>
        <Route path="/academics/bos" element={<><Navbar/><BOS/></>}/>
        <Route path="/academics/students" element={<><Navbar/><Students/></>}/>

        <Route path="/faculty" element={<><Navbar/><Faculty/></>}/>

        <Route path="/facilities" element={<><Navbar/><Facilities/></>}/>

        <Route path="/placements/aptitude" element={<><Navbar/><Aptitude/></>}/>
        <Route path="/placements/coding" element={<><Navbar/><Coding/></>}/>
        <Route path="/placements/technical" element={<><Navbar/><Technical/></>}/>

        <Route path="/contact" element={<><Navbar/><Contact/></>}/>
      </Routes>
    </BrowserRouter>
  );
}

export default App;
```

Navbar.js

```
import React, { useRef, useState , useEffect} from "react";
import { Link, useNavigate } from "react-router-dom";
```

```

import "../styling/Navbar.css";

const Navbar = () => {
  const [showProductsMenu, setShowProductsMenu] = useState(false);
  const [showServicesMenu, setShowServicesMenu] = useState(false);
  const navigate = useNavigate();
  const menuRef = useRef(null)

  const toggleProductsMenu = () => {
    setShowProductsMenu(!showProductsMenu);
    setShowServicesMenu(false);
  };

  const toggleServicesMenu = () => {
    setShowServicesMenu(!showServicesMenu);
    setShowProductsMenu(false);
  };

  useEffect(() => {
    const handleClickOutside = (event) => {
      if (menuRef.current && !menuRef.current.contains(event.target))
    {
      setShowProductsMenu(false);
      setShowServicesMenu(false);
    }
  };

  document.addEventListener("mousedown", handleClickOutside);
  return () => {
    document.removeEventListener("mousedown", handleClickOutside);
  };
}, [menuRef]);

const clickHandler = () =>{
  navigate("/login");
}

return (
  <nav>
    <div className="logo">
      <Link to="/">CS Hub</Link>
    </div>

```



```

<div className="menu-container" ref={menuRef}>
  <ul className="menu">
    <li>
      <Link to="/">HOME</Link>
    </li>
    <li className="dropdown">
      <span onClick={toggleProductsMenu}>ACADEMICS</span>
      {showProductsMenu && (
        <ul className="sub-menu">
          <li>
            <Link to="/academics/calendar">ACADEMIC
CALENDAR</Link>
          </li>
          <li>
            <Link to="/academics/timetable">TIMETABLE</Link>
          </li>
          <li>
            <Link to="/academics/bos">BOS CUR</Link>
          </li>
          <li>
            <Link to="/academics/students">STUDENTS</Link>
          </li>
        </ul>
      )}
    </li>
    <li>
      <Link to="/faculty">FACULTY</Link>
    </li>
    <li>
      <Link to="/facilities">FACILITIES</Link>
    </li>
    <li className="dropdown">
      <span onClick={toggleServicesMenu}>PLACEMENTS</span>
      {showServicesMenu && (
        <ul className="sub-menu">
          <li>
            <Link to="/placements/aptitude">APTITUDE</Link>
          </li>
          <li>
            <Link to="/placements/coding">CODING</Link>
          </li>
          <li>
            <Link to="/placements/technical">TECHNICAL</Link>

```

```

        </li>
      </ul>
    )}
  </li>
  <li>
    <Link to="/contact">CONTACTS</Link>
  </li>
</ul>
</div>

<div>
  <button className="button" onClick={clickHandler}
>LOGIN</button>
</div>
</nav>
);
};

export default Navbar;

```

Home.js

```

import React from 'react'
import '../styling/Home.css'
import image1 from '../carousel_images/1.jpg';
import image2 from '../carousel_images/2.jpg';
import image3 from '../carousel_images/3.jpg';
import image4 from '../carousel_images/4.jpg';
import image5 from '../carousel_images/5.jpg';
import chancellor from '../carousel_images/chancellor.jpg';
import vc from '../carousel_images/vc.jpg';
import director from '../carousel_images/director.jpg';

import ImageCarousel from './ImageCarousel';
import UpdateTicker from './UpdateTicker';
import Images from './Images';
import HOD from './HOD';

/** Images for carousel */
const images = [image1, image2, image3, image4, image5]

/** Authorities images with title */

```

```

const image = [
  {
    image : chancellor,
    alt : "Image ",
    title : "CHANCELLOR"
  },
  {
    image : vc,
    alt : "Image 1",
    title : "VC"
  },
  {
    image : director,
    alt : "Image ",
    title : "DIRECTOR"
  }
]

export default function Home() {
  return (

    /** Image Carousel component */
    <div className='container'>

      {/** Left part of body which contains image slider and HOD
information */}
      <div className='left-body'>

        <div className='carousel'>
          <ImageCarousel images={images} />
        </div>

        <div className='hod-container'>
          <HOD/>
        </div>

      </div>

      {/** Right part of body which contains higher authorities and
scrolling updates */}
      <div className='right-body'>

        <div className='authorities'>

```

```

        <Images image={image[0]}/>
        <Images image={image[1]}/>
        <Images image={image[2]}/>
      </div>

      <div className='update-box'>
        <UpdateTicker/>
      </div>
    </div>
  )
}

```

UpdateTicker.js

```

import React, { useState, useEffect } from 'react';
import '../styling/UpdateTicker.css'
import axios from 'axios'

const UpdateTicker = () => {
  const [updates, setUpdates] = useState([]);

  useEffect(() => {

    axios.get('http://localhost:5000/hod/updates')
      .then(response => {
        const newUpdates = response.data;
        setUpdates(newUpdates);
      })
      .catch(error => {
        console.log("Error fetching details", error)
      })

    // setUpdates(newUpdates);
  }, []);

  useEffect(() => {
    const intervalId = setInterval(() => {
      // Rotate the updates so that the first one becomes the last
      one.
      setUpdates((prevUpdates) => {
        const newUpdates = [...prevUpdates];

```

```

        newUpdates.push(newUpdates.shift());
        return newUpdates;
    });
}, 2000);

return () => clearInterval(intervalId);
}, [updates]));

return (
    <div>
        <div className="update-ticker">
            <h4 className='heading'>UPDATES</h4>
            {updates.map((update) => (
                <div key={update.id} className="update-ticker__item">
                    {update.text}
                </div>
            ))}
        </div>
    </div>

);
};

export default UpdateTicker;

```

ImageCarousel.js

```

import '../styling/ImageCarousel.css';
import React, { useState, useEffect } from 'react';

const ImageCarousel = ({ images }) => {
    const [currentImageIndex, setCurrentImageIndex] = useState(0);
    const totalImages = images.length;

    const handlePrevClick = () => {
        setCurrentImageIndex(currentImageIndex === 0 ? totalImages - 1 :
currentImageIndex - 1);
    };

    const handleNextClick = () => {
        setCurrentImageIndex(currentImageIndex === totalImages - 1 ? 0 :
currentImageIndex + 1);
    };

```

```

useEffect(() => {
  const intervalId = setInterval(() => {
    setCurrentImageIndex(currentImageIndex === totalImages - 1 ? 0 :
currentImageIndex + 1);
  }, 2500);
  return () => clearInterval(intervalId);
}, [currentImageIndex, totalImages]);

return (
  <div className="carousel-container">
    <img src={images[currentImageIndex]} alt="carousel"
className="carousel-image" />
    <div className="arrow left-arrow" onClick={handlePrevClick}>
      < <
    </div>
    <div className="arrow right-arrow" onClick={handleNextClick}>
      < >
    </div>
  </div>
);
};

export default ImageCarousel;

```

HOD.js

```

import React from 'react'
import Images from './Images'
import hod from '../carousel_images/hod.jpg'
import '../styling/HOD.css'

const hod_image = {
  image : hod,
  alt : "photo",
  title : "HOD, CSE"
}

export default function HOD() {
  return (
    <div className='container-hod'>

```

```

    <div className='photo'>
      <Images image={hod_image}/>
    </div>

    <div className='data'>
      <h4>Mr. N. Satyanandaram</h4>
      <p>Mr. N.Satyanandaram, obtained MSIT degree from IIIT
Hyderabad,
                                and has joined the RGUKT RK VALLEY in 2011. He
is having a total of 11 years of teaching experience in RK VALLEY. He
is the IT infra
                                coordinator along with the HOD of CSE
department.</p>
    </div>
  </div>
)
}

```

AcademicCalendar.js

```

import React, { useState } from "react";
import '../styling/AcademicCalendar.css'
import '../styling/Timetable.css'
import Timetable from "../Timetable";

const calendars = {
  sem1 : {
    image : "../timeTable/sem1.png",
    batch : "SEM 1"
  },
  sem2 : {
    image : "../timeTable/sem2.png",
    batch : "SEM 2"
  }
}

const AcademicCalendar = () => {

  const [sem, setSem] = useState("sem1")
  const handleClick = (sem) => {
    setSem(sem);
    console.log(sem)
  };
}

```

```

    return (
      <div className='time-table'>
        <center> <h2 className='text'>ACADEMIC CALENDARS for YEAR 2022-
2023</h2> </center>
        <div className='buttons'>
          <button onClick={() => handleClick("sem1")}>SEM 1</button>
          <button onClick={() => handleClick("sem2")}>SEM 2</button>
        </div>
        <Timetable data={calendars[sem]}/>
      </div>
    )
  };
export default AcademicCalendar;

```

Timetable.js

```

import React from 'react';
import '../styling/Timetable.css'

const Timetable = ({data}) => {
  return (
    <div className="academic-calendar">
      <h2 className="calendar-title">{data.batch}</h2>
      <img className="calendar-image" src={data.image} alt="Academic
Calendar" />
    </div>
  );
};

export default Timetable;

```

BOS.js

```

import React from 'react'
import '../styling/BOS.css'

export default function BOS() {
  return (
    <div className='bos'>
      <h3>BOS CURRICULUM for ALL BATCHES</h3>
      <div className='bos-all'>

```



```

        <p>Download the curriculum for E4 CSE batch <a
href="../pdf/E4.pdf">Click Here</a></p>
        <p>Download the curriculum for E3 CSE batch <a
href="../pdf/E3.pdf">Click Here</a></p>
        <p>Download the curriculum for E2 CSE batch <a
href="../pdf/E2.pdf">Click Here</a></p>
        <p>Download the curriculum for E1 CSE batch <a
href="../pdf/E1.pdf">Click Here</a></p>
    </div>
</div>
)
}

```

Students.js

```

import React from 'react'
import '../styling/BOS.css'

export default function Students() {
    return (
        <div className='bos'>
            <h3>STUDENTS DATA</h3>
            <div className='bos-all'>
                <p>Download the data of R17 CSE Batch<a
href="../students/E4.pdf">Click Here</a></p>
                <p>Download the data of R18 CSE Batch<a
href="../students/E3.pdf">Click Here</a></p>
                <p>Download the data of R19 CSE Batch <a
href="../students/E2.pdf">Click Here</a></p>
                <p>Download the data of R20 CSE Batch <a
href="../students/E1.pdf">Click Here</a></p>
            </div>
        </div>
    )
}

```

Facilities.js

```

import '../styling/Facilities.css'
import React from 'react';

const Facilities = () => {

```

```

return (
  <div className="facilities">
    <h2>FACILITIES OF DEPARTMENT</h2>
    <ul>
      {facilitiesData.map((facility) => (
        <li key={facility.id}>
          <h3>{facility.name}</h3>
          <img src={facility.image} alt={facility.name} />
          <p>{facility.description}</p>
        </li>
      ))}
    </ul>
  </div>
);
};

```

```
export default Facilities;
```

ContactSingle.js

```

import React from 'react'
import '../styling/ContactSingle.css'

export default function ContactSingle({data}) {
  return (
    <div className='Contact'>
      <h4 >{data.designation}</h4>
      <ul>
        <li> <strong>Name : </strong>{data.name}</li>
        <li> <strong>Email : </strong> {data.email}</li>
        <li> <strong>Contact : </strong> {data.contact}</li>
      </ul>
    </div>
  )
}

```

Aptitude.js

```

import '../styling/Placements.css'
import React from 'react';

const Aptitude = () => {
  return (

```

```

<div className="preparation-container">
  <h2>Importance of Aptitude in Job Interviews</h2>
  <p className="preparation-text">Aptitude tests are becoming
increasingly common in job interviews, regardless of the field or
industry. These tests are designed to evaluate a candidate's ability
to reason, solve problems, and think critically under pressure. Some
of the skills that are commonly assessed during aptitude tests
include:</p>
  <ul className="preparation-list">
    <li>Numerical reasoning</li>
    <li>Verbal reasoning</li>
    <li>Logical reasoning</li>
    <li>Abstract reasoning</li>
    <li>Critical thinking</li>
    <li>Problem-solving</li>
  </ul>
  <p className="preparation-text">Having a strong aptitude is
crucial for success in many roles, particularly those that require
analytical thinking, decision-making, and problem-solving skills.</p>

  <h2>References for Preparation</h2>
  <p className="preparation-text">If you're looking to improve
your aptitude skills before a job interview, here are some references
that may help:</p>
  <ul className="preparation-list">
    <li>Careerride: <a href="https://www.careerride.com/online-
aptitude-test.aspx">https://www.careerride.com/</a></li>
    <li>Indiabix: <a
href="https://www.indiabix.com/aptitude/questions-and-
answers/">https://www.indiabix.com</a></li>
    <li>JobTestPrep: <a
href="https://www.jobtestprep.co.uk/">https://www.jobtestprep.co.uk/</
a></li>
    <li>AssessmentDay: <a
href="https://www.assessmentday.co.uk/">https://www.assessmentday.co.u
k/</a></li>
    <li>CareerGym: <a
href="https://careergym.com/">https://careergym.com/</a></li>
  </ul>
  <p className="preparation-text">These resources offer practice
tests, sample questions, and detailed explanations to help you prepare
for your aptitude test and improve your chances of success in your job
interview.</p>

```

```

        </div>
    );
};

export default Aptitude;

```

Faculty.js

```

import React from 'react';
const Faculty = () => {
    return (
        <div className="faculty-details">
            <h2>FACULTY - Department of CSE</h2>
            {facultyList.map((faculty, index) => (
                <div key={index} className="faculty-card">
                    <div className='image'>
                        <img src={faculty.image} alt='faculty' />
                    </div>

                    <div className='info'>
                        <h3>{faculty.name}</h3>
                        <p className='information'><h5>Education:
</h5>{faculty.designation}</p>
                        <p className='information'><h5>Email:
</h5>{faculty.email}</p>
                        <p className='information'><h5>Join Date:
</h5>{faculty.joinDate}</p>
                        <p className='information'><h5>Experience:</h5>
{faculty.experience}</p>
                    </div>

                </div>
            ))}
        </div>
    );
};

export default Faculty;

```

HOD Login.js

```
import React, { useState } from 'react';
import axios from 'axios';
import { Link, useNavigate } from 'react-router-dom'
import '../styling/HODlogin.css'
const HODlogin = () => {

  const history = useNavigate(); // used to move between different routers
  const [email, setEmail] = useState("")
  const [password, setPassword] = useState("")
  const [errorMessage, setErrorMessage] = useState("")

  async function submit(e){
    e.preventDefault();
    try {
      await axios.post("http://localhost:5000/login",{email,password})
      .then(res => {
        if(res.data=="User correct"){
          history("/hod",{state : {id:email}})
        }
        else if(res.data == "Password Incorrect"){
          setErrorMessage("Password Incorrect")
        }
        else if(res.data == "User doesn't exist"){
          setErrorMessage("User have not registered")
          console.log("User have not registered")
        }
      })
      .catch(e => {
        setErrorMessage("Wrong details");
        console.log(e)
      })

    } catch (error) {
      console.log("error");
    }
  }

  return (
    <div className="LoginPage">
      <h1>Login</h1>
```

```

    <form action="POST" className='form'>

        <input type='email' placeholder='Email' onChange = {(e) =>
{setEmail(e.target.value)}}/>
        <input type='password' placeholder='Password' onChange={(e) =>
{setPassword(e.target.value)}}/>

        <input type='submit' onClick={submit} />
    </form>

    <div className='error-message'>
        {errorMessage && <p>{errorMessage}</p>}
    </div>

    <br />
    <p>OR</p>
    <div className='end-title'>
        <Link to="/register">Sign Up</Link>
    </div>
</div>
);
};

export default HODlogin;

```

HODpage.js

```

import React, { useState } from 'react';
import { Link, useLocation, useNavigate } from 'react-router-dom';
import '../styling/HODPage.css'

function HODPage() {
    const location = useLocation();

    return (
        <div className='hod-manager'>
            <h1>Welcome {location.state.id}</h1>

            <div className='add-update'>
                <span>Add Updates : </span> <Link
to="/hod/updates"><button>Add</button></Link>
            </div>

```

```

        <div className='add-update'>
          <span>Update Academic Calendar : </span><Link
to="/calendarManager"><button>Add</button></Link>
        </div>
        <div className='add-update'>
          <span>Update Timetable : </span><Link
to="/timeTableManager"><button>Add</button></Link>
        </div>

        <div className='logout'>
          <Link to="/login">LOG OUT</Link>
        </div>
      </div>
    );
  }

```

```
export default HODPage;
```

TimetableManager.js

```

import {useEffect} from "react"
import '../styling/PostData.css'

export default function TimeTableManager(){
  useEffect(()=>{
    let form=document.getElementById("form");
    form.onSubmit=async function(event){
      event.preventDefault();
      let formData=new FormData(form)
      let ret=await
fetch("http://localhost:5000/timeTableManager",{method:"post","body":f
ormData})
      let res=await ret.json()
      console.log(res)
    }
  })
  return (
    <div className="manager">
      <h1>Update TimeTable</h1>
      <form id="form" method="post" enctype="multipart/form-
data">

        Select year:<br/>
        <select name="year">

```

```

        <option value="E1">E1</option>
        <option value="E2">E2</option>
        <option value="E3">E3</option>
        <option value="E4">E4</option>
    </select>
    Select File:<br/>
    <input type="file" name="file"/>
    <input type="submit" value="submit"/>
</form>
</div>
);
}

```

STYLING – CSS

```

nav {
    display: flex;
    justify-content: space-between;
    align-items: center;
    background-color: #333;
    color: #fff;
    padding: 1rem;
}

.logo a {
    color: #fff;
    font-size: 2rem;
    text-decoration: none;
    font-style: oblique;
    font-weight: bolder;
    margin-left: 20px;
}

.menu {
    display: flex;
    list-style: none;
    margin: 0;
    padding: 0;
}

.menu li {
    margin: 0 1rem;
}

```



```
    font-weight: bold;
}

.menu li a {
    color: #fff;
    text-decoration: none;
}

.dropdown {
    position: relative;
}

.dropdown .sub-menu {
    display: none;
    position: absolute;
    top: 100%;
    left: 0;
    z-index: 1;
    background-color: #333;
    margin-top: 0.5rem;
    padding: 0.5rem;
}

.sub-menu li{
    list-style: none;
    margin-top: 0.7rem;
    font-weight: normal;
}

.dropdown .sub-menu {
    display: block;
}

.button{
    border: none;
    border-radius: 20px;
    padding: 5px;
    width: 5rem;
    color: #fff;
    background-color:rgb(68, 151, 59);
}

.container{
```

```
    display: flex;
    margin: 0;
    padding: 0;
}

.left-body{
    display: flex;
    flex-direction: column;
    width: 70vw;
}

.right-body{
    display: flex;
    flex-direction: column;
    width: 30vw;
}

.carousel{
    width: 68vw;
    margin: 20px;
}

.update-box{
    width: 28vw;
    margin-top: 20px;
    margin-left: 10px;
    height: 60vh;
}

.authorities{
    border: none;
    background-color: rgb(187, 219, 187);
    width: 28vw;
    margin-top: 20px;
    margin-left: 10px;
    height: 25vh;
    display: flex;
    justify-content: space-between;
    border-radius: 5px;
}

.hod-container{
    width: 68vw;
```

```

        margin: 20px;
    }

    .faculty-details {
        display: flex;
        flex-direction: column;
        flex-wrap: wrap;
        justify-content: center;
        align-items: center;
        margin: 20px;
    }

    .faculty-details h3{
        color: rgb(62, 9, 109);
    }

    .faculty-details h2{
        color: rgb(28, 6, 134);
        font-weight: 700;
    }

    .faculty-card {
        display: flex;
        background-color: #f2f2f2;
        border: 1px solid #ddd;
        padding: 20px;
        margin: 10px;
        width: 50vw;
        /* text-align: center; */
        border-radius: 20px;
    }

    .faculty-card h3 {
        margin-top: 0;
        margin-left: 50px;
    }

    .faculty-card p {
        margin: 10px 0;
    }

```

BACKEND

Server.js

```
import express from 'express'
import cors from 'cors'
import { config } from 'dotenv'
import mongoose from 'mongoose'

import connect from '../Database/connection.js'
import updates from '../Server/models/updateSchema.js'
import User from '../Server/models/userSchema.js'
import bodyParser from 'body-parser'
import multer from 'multer'
import fs from "fs"

const app = express();
const path = "../client/public/timeTable"
// const pathCalendar = "../client/public/calendars"
app.use(cors());
app.use(express.json());
app.use(bodyParser.urlencoded({extended: false}))
app.use(multer({"dest": path}).any())
config();

const port = process.env.PORT || 8080;

connect().then()
const db = mongoose.connection

// UPDATES module
app.get('/hod/updates', (req, res) => {
  updates.find()
    .sort('-createdAt') // Sort by newest first
    .limit(10) // Limit to 10 updates
    .then(updates => {
      res.json(updates);
    })
    .catch(error => {
      console.error('Error fetching updates:', error);
      res.status(500).send('Internal server error');
    });
});
```

```

app.post('/hod/updates', (req, res) => {
  console.log(req.body.text);
  updates.insertMany({text : req.body.text})
    .then(() => {
      // res.send('Update created');
    })
    .catch(error => {
      console.error('Error creating update:', error);
      // res.json('Internal server error');
    });
  res.json("This is post request")
});

app.delete('/hod/updates', (req,res) => {
  updates.deleteMany()
})

// Timetable post

app.post("/timeTableManager",function(req,res){
  console.log(req.body,req.files)
  try{
    fs.unlink(path+"/"+req.body.year+".png",function(err){
      console.log(err)
    })
  }
  catch(err){

  }
  fs.rename(path+"/"+req.files[0].filename,path+"/"+req.body.year+".
png",function(err){
    console.log(err)
  })
})

// academic calendar post
app.post("/calendarManager",function(req,res){
  console.log(req.body,req.files)
  try{
    fs.unlink(path+"/"+req.body.sem+".png",function(err){

```

```

        console.log(err)
    })
}
catch(err){

}
fs.rename(path+"/"+req.files[0].filename,path+"/"+req.body.sem+".p
ng",function(err){
    console.log(err)
})
})

// User model

app.post("/login", async(req,res) => {
    const {email,password} = req.body;

    try {
        const check = await User.findOne({email:email})
        let msg = ""
        if(check){
            if(check.password === password){
                msg = "User correct"
            }
            else{
                msg = "Password Incorrect"
            }
        }
        else{
            msg = "User doesn't exist"
        }
        res.json(msg)

    } catch (error) {
        res.json("User doesn't exist")
    }

})

app.post("/register", async(req,res) => {
    const {email,password} = req.body;
    console.log(req.body)
    const data = {

```

```

    email : email,
    password : password
  }
  try {
    const check = await User.findOne({email:email})
    if(check){
      res.json("User exist")
    }
    else{
      console.log(data)
      // console.log(User.find())
      await User.insertMany({email:email, password:password})
      res.json("User doesn't exist")
    }
  } catch (error) {
    res.json("User doesn't exist")
  }
})

app.listen(port, () => {
  console.log("Server Started")
})

```

Database Connection.js

```

import mongoose from "mongoose"
const {Schema} = mongoose

const uri = "mongodb://127.0.0.1:27017"

export default async function connect(){

  await mongoose.connect(uri)
  console.log("Database connected");
}

```

UserSchema.js

```

import mongoose from "mongoose";

```

```
const {Schema} = mongoose;

const userSchema = new Schema({
  email : {
    type : String,
    required : true,
  },
  password : {
    type : String,
    required : true,
  }
})

export default mongoose.model('User', userSchema)
```

UpdateSchema.js

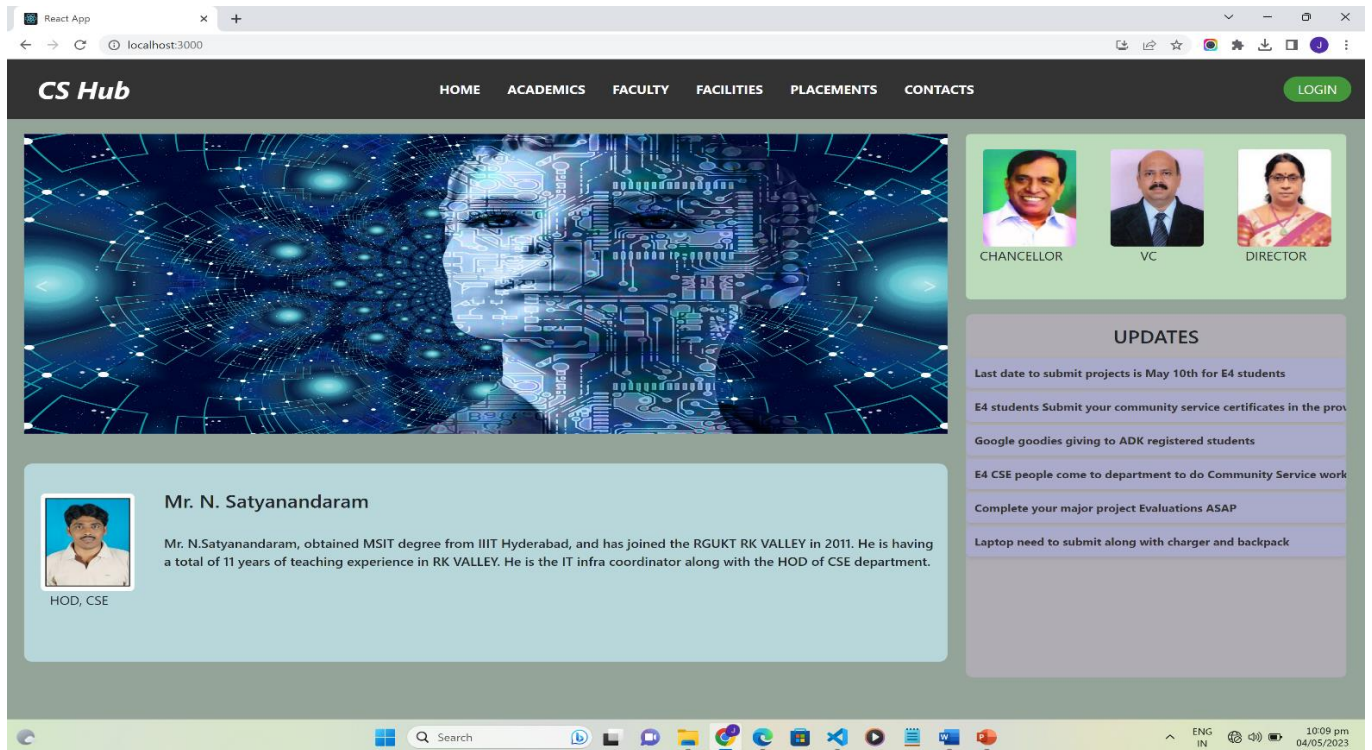
```
import mongoose from "mongoose";
const {Schema} = mongoose;

const updateModel = new Schema({
  text: {
    type: String,
    required: true
  },
  createdAt: {
    type: Date,
    default: Date.now
  },
})

export default mongoose.model('Updates', updateModel)
```


RESULT:

HOME PAGE



Academic Calendar

React App

localhost:3000/academics/calendar

CS Hub HOME ACADEMICS FACULTY FACILITIES PLACEMENTS CONTACTS LOGIN

ACADEMIC CALENDARS for YEAR 2022-2023

SEM 1 SEM 2

SEM 1

S.No	Year	Commencement/Registration date	Completion date	MID-1	MID-2	MID-3	EST
1	P1	17 th October, 2022	25 th March, 2023	17 th - 21 st December, 2022	23 rd - 27 th January, 2023	1 st - 4 th March, 2023	13 th - 27 th March, 2023
2	P2	10 th October, 2022	18 th Feb., 2023	10 th - 15 th Nov., 2022	14 th - 17 th Dec., 2022	21 st - 25 th Jan., 2023	3 rd - 16 th Feb., 2023
3	E1	10 th October, 2022	25 th Feb., 2023	14 th - 15 th Nov., 2022	22 nd - 23 rd Dec., 2022	3 rd - 4 th Feb., 2023	13 th - 25 th Feb., 2023
4	E2	10 th October, 2022	25 th Feb., 2023	14 th - 15 th Nov., 2022	22 nd - 23 rd Dec., 2022	3 rd - 4 th Feb., 2023	13 th - 25 th Feb., 2023
5	E3	12 th September, 2022	4 th February 2023	21 st - 22 nd October, 2022	28 th - 29 th Dec., 2022	5 th - 6 th Jan., 2023	21 st Jan - 30 th 2023
6	E4	12 th September, 2022	6 th January 2023	14 th - 15 th October, 2022	18 th - 19 th November, 2022	23 rd - 24 th December, 2022	29 th Dec., 2022 - 6 th Jan., 2023

ENG IN 10:14 pm 04/05/2023

Timetable page

React App

localhost:3000/academics/timetable

CS Hub HOME ACADEMICS FACULTY FACILITIES PLACEMENTS CONTACTS LOGIN

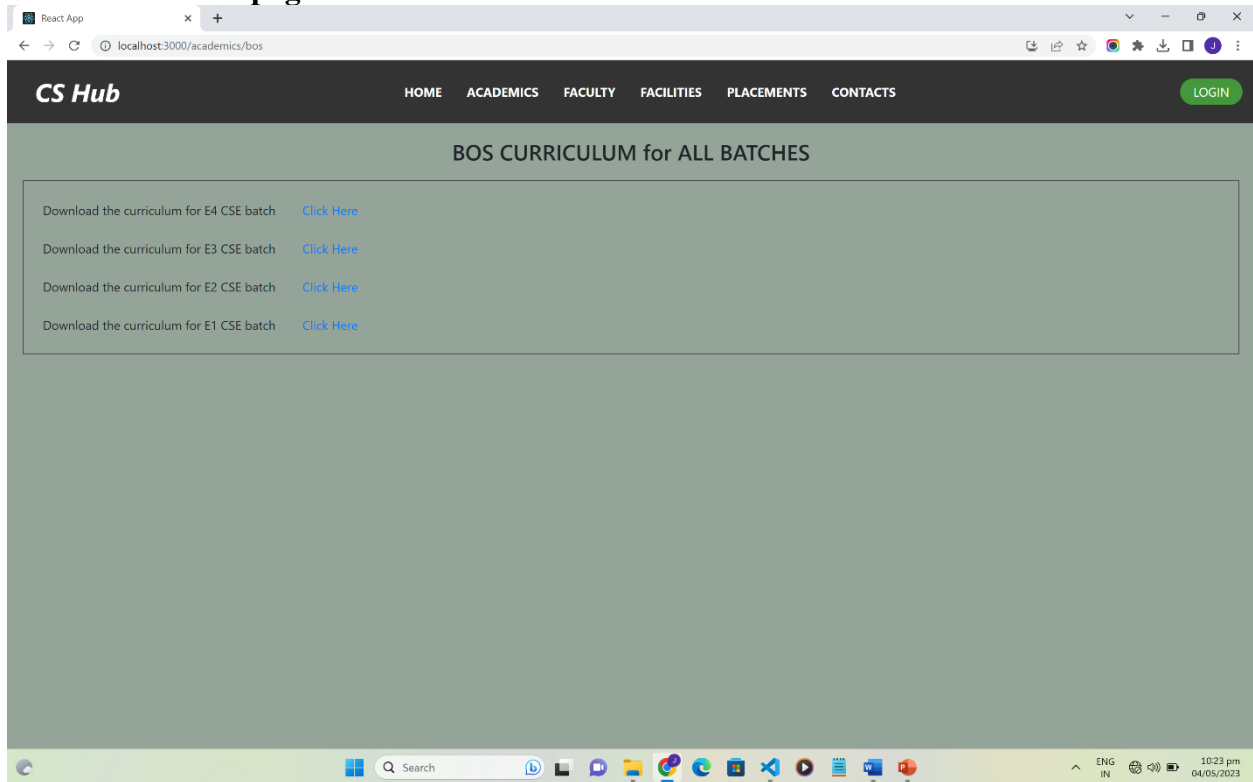
TIME TABLES --- ACADEMIC YEAR 2022-2023

E1 E2 E3 E4

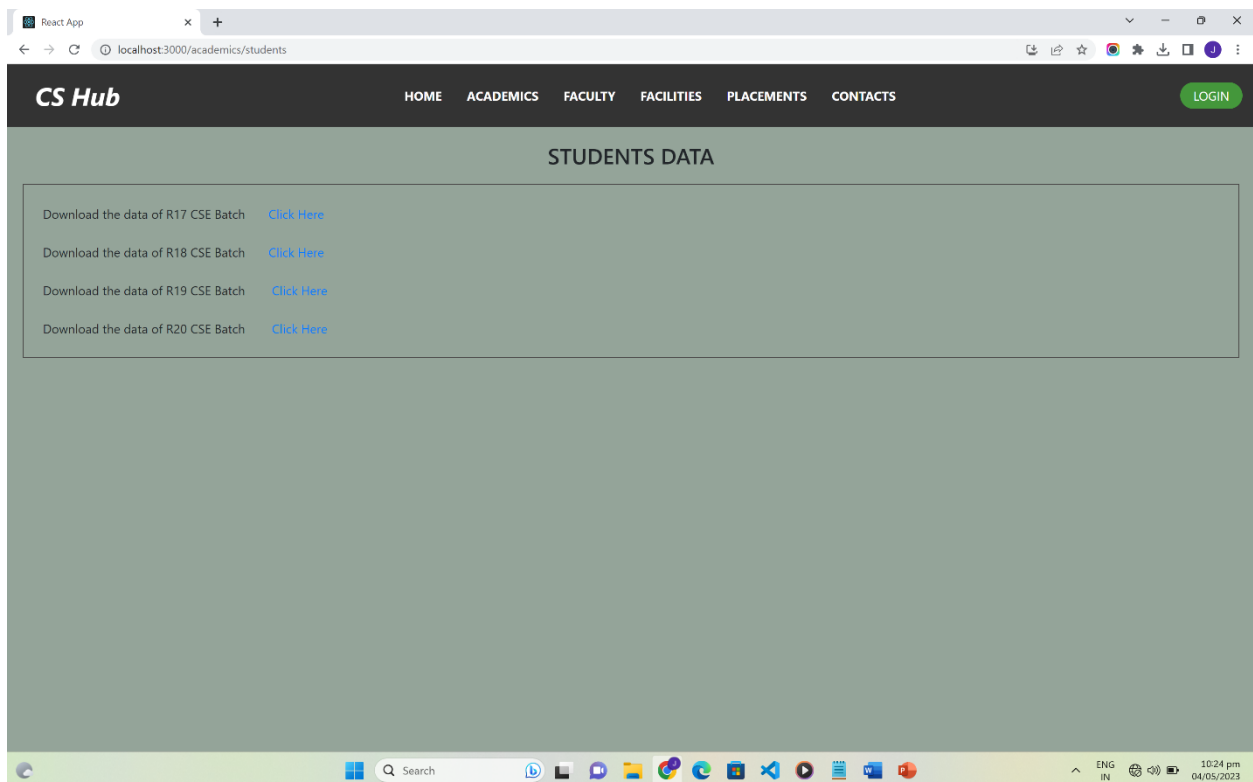
E1 - R20 Batch

R20 E1CSE SEM2 TIME TABLE				R20 E1CSE SEM2 TIME TABLE			
Sl. No.	Day	Time	Subject	Sl. No.	Day	Time	Subject
1	Mon	8:00 - 9:00	Maths	1	Mon	8:00 - 9:00	Maths
2	Tue	8:00 - 9:00	Physics	2	Tue	8:00 - 9:00	Physics
3	Wed	8:00 - 9:00	Chemistry	3	Wed	8:00 - 9:00	Chemistry
4	Thu	8:00 - 9:00	Computer Science	4	Thu	8:00 - 9:00	Computer Science
5	Fri	8:00 - 9:00	English	5	Fri	8:00 - 9:00	English
6	Sat	8:00 - 9:00	History	6	Sat	8:00 - 9:00	History
7	Sun	8:00 - 9:00	Art	7	Sun	8:00 - 9:00	Art
8	Mon	9:00 - 10:00	Maths	8	Mon	9:00 - 10:00	Maths
9	Tue	9:00 - 10:00	Physics	9	Tue	9:00 - 10:00	Physics
10	Wed	9:00 - 10:00	Chemistry	10	Wed	9:00 - 10:00	Chemistry
11	Thu	9:00 - 10:00	Computer Science	11	Thu	9:00 - 10:00	Computer Science
12	Fri	9:00 - 10:00	English	12	Fri	9:00 - 10:00	English
13	Sat	9:00 - 10:00	History	13	Sat	9:00 - 10:00	History
14	Sun	9:00 - 10:00	Art	14	Sun	9:00 - 10:00	Art
15	Mon	10:00 - 11:00	Maths	15	Mon	10:00 - 11:00	Maths
16	Tue	10:00 - 11:00	Physics	16	Tue	10:00 - 11:00	Physics
17	Wed	10:00 - 11:00	Chemistry	17	Wed	10:00 - 11:00	Chemistry
18	Thu	10:00 - 11:00	Computer Science	18	Thu	10:00 - 11:00	Computer Science
19	Fri	10:00 - 11:00	English	19	Fri	10:00 - 11:00	English
20	Sat	10:00 - 11:00	History	20	Sat	10:00 - 11:00	History
21	Sun	10:00 - 11:00	Art	21	Sun	10:00 - 11:00	Art
22	Mon	11:00 - 12:00	Maths	22	Mon	11:00 - 12:00	Maths
23	Tue	11:00 - 12:00	Physics	23	Tue	11:00 - 12:00	Physics
24	Wed	11:00 - 12:00	Chemistry	24	Wed	11:00 - 12:00	Chemistry
25	Thu	11:00 - 12:00	Computer Science	25	Thu	11:00 - 12:00	Computer Science
26	Fri	11:00 - 12:00	English	26	Fri	11:00 - 12:00	English
27	Sat	11:00 - 12:00	History	27	Sat	11:00 - 12:00	History
28	Sun	11:00 - 12:00	Art	28	Sun	11:00 - 12:00	Art
29	Mon	12:00 - 1:00	Maths	29	Mon	12:00 - 1:00	Maths
30	Tue	12:00 - 1:00	Physics	30	Tue	12:00 - 1:00	Physics
31	Wed	12:00 - 1:00	Chemistry	31	Wed	12:00 - 1:00	Chemistry
32	Thu	12:00 - 1:00	Computer Science	32	Thu	12:00 - 1:00	Computer Science
33	Fri	12:00 - 1:00	English	33	Fri	12:00 - 1:00	English
34	Sat	12:00 - 1:00	History	34	Sat	12:00 - 1:00	History
35	Sun	12:00 - 1:00	Art	35	Sun	12:00 - 1:00	Art
36	Mon	1:00 - 2:00	Maths	36	Mon	1:00 - 2:00	Maths
37	Tue	1:00 - 2:00	Physics	37	Tue	1:00 - 2:00	Physics
38	Wed	1:00 - 2:00	Chemistry	38	Wed	1:00 - 2:00	Chemistry
39	Thu	1:00 - 2:00	Computer Science	39	Thu	1:00 - 2:00	Computer Science
40	Fri	1:00 - 2:00	English	40	Fri	1:00 - 2:00	English
41	Sat	1:00 - 2:00	History	41	Sat	1:00 - 2:00	History
42	Sun	1:00 - 2:00	Art	42	Sun	1:00 - 2:00	Art
43	Mon	2:00 - 3:00	Maths	43	Mon	2:00 - 3:00	Maths
44	Tue	2:00 - 3:00	Physics	44	Tue	2:00 - 3:00	Physics
45	Wed	2:00 - 3:00	Chemistry	45	Wed	2:00 - 3:00	Chemistry
46	Thu	2:00 - 3:00	Computer Science	46	Thu	2:00 - 3:00	Computer Science
47	Fri	2:00 - 3:00	English	47	Fri	2:00 - 3:00	English
48	Sat	2:00 - 3:00	History	48	Sat	2:00 - 3:00	History
49	Sun	2:00 - 3:00	Art	49	Sun	2:00 - 3:00	Art
50	Mon	3:00 - 4:00	Maths	50	Mon	3:00 - 4:00	Maths
51	Tue	3:00 - 4:00	Physics	51	Tue	3:00 - 4:00	Physics
52	Wed	3:00 - 4:00	Chemistry	52	Wed	3:00 - 4:00	Chemistry
53	Thu	3:00 - 4:00	Computer Science	53	Thu	3:00 - 4:00	Computer Science
54	Fri	3:00 - 4:00	English	54	Fri	3:00 - 4:00	English
55	Sat	3:00 - 4:00	History	55	Sat	3:00 - 4:00	History
56	Sun	3:00 - 4:00	Art	56	Sun	3:00 - 4:00	Art
57	Mon	4:00 - 5:00	Maths	57	Mon	4:00 - 5:00	Maths
58	Tue	4:00 - 5:00	Physics	58	Tue	4:00 - 5:00	Physics
59	Wed	4:00 - 5:00	Chemistry	59	Wed	4:00 - 5:00	Chemistry
60	Thu	4:00 - 5:00	Computer Science	60	Thu	4:00 - 5:00	Computer Science
61	Fri	4:00 - 5:00	English	61	Fri	4:00 - 5:00	English
62	Sat	4:00 - 5:00	History	62	Sat	4:00 - 5:00	History
63	Sun	4:00 - 5:00	Art	63	Sun	4:00 - 5:00	Art
64	Mon	5:00 - 6:00	Maths	64	Mon	5:00 - 6:00	Maths
65	Tue	5:00 - 6:00	Physics	65	Tue	5:00 - 6:00	Physics
66	Wed	5:00 - 6:00	Chemistry	66	Wed	5:00 - 6:00	Chemistry
67	Thu	5:00 - 6:00	Computer Science	67	Thu	5:00 - 6:00	Computer Science
68	Fri	5:00 - 6:00	English	68	Fri	5:00 - 6:00	English
69	Sat	5:00 - 6:00	History	69	Sat	5:00 - 6:00	History
70	Sun	5:00 - 6:00	Art	70	Sun	5:00 - 6:00	Art
71	Mon	6:00 - 7:00	Maths	71	Mon	6:00 - 7:00	Maths
72	Tue	6:00 - 7:00	Physics	72	Tue	6:00 - 7:00	Physics
73	Wed	6:00 - 7:00	Chemistry	73	Wed	6:00 - 7:00	Chemistry
74	Thu	6:00 - 7:00	Computer Science	74	Thu	6:00 - 7:00	Computer Science
75	Fri	6:00 - 7:00	English	75	Fri	6:00 - 7:00	English
76	Sat	6:00 - 7:00	History	76	Sat	6:00 - 7:00	History
77	Sun	6:00 - 7:00	Art	77	Sun	6:00 - 7:00	Art
78	Mon	7:00 - 8:00	Maths	78	Mon	7:00 - 8:00	Maths
79	Tue	7:00 - 8:00	Physics	79	Tue	7:00 - 8:00	Physics
80	Wed	7:00 - 8:00	Chemistry	80	Wed	7:00 - 8:00	Chemistry
81	Thu	7:00 - 8:00	Computer Science	81	Thu	7:00 - 8:00	Computer Science
82	Fri	7:00 - 8:00	English	82	Fri	7:00 - 8:00	English
83	Sat	7:00 - 8:00	History	83	Sat	7:00 - 8:00	History
84	Sun	7:00 - 8:00	Art	84	Sun	7:00 - 8:00	Art
85	Mon	8:00 - 9:00	Maths	85	Mon	8:00 - 9:00	Maths
86	Tue	8:00 - 9:00	Physics	86	Tue	8:00 - 9:00	Physics
87	Wed	8:00 - 9:00	Chemistry	87	Wed	8:00 - 9:00	Chemistry
88	Thu	8:00 - 9:00	Computer Science	88	Thu	8:00 - 9:00	Computer Science
89	Fri	8:00 - 9:00	English	89	Fri	8:00 - 9:00	English
90	Sat	8:00 - 9:00	History	90	Sat	8:00 - 9:00	History
91	Sun	8:00 - 9:00	Art	91	Sun	8:00 - 9:00	Art
92	Mon	9:00 - 10:00	Maths	92	Mon	9:00 - 10:00	Maths
93	Tue	9:00 - 10:00	Physics	93	Tue	9:00 - 10:00	Physics
94	Wed	9:00 - 10:00	Chemistry	94	Wed	9:00 - 10:00	Chemistry
95	Thu	9:00 - 10:00	Computer Science	95	Thu	9:00 - 10:00	Computer Science
96	Fri	9:00 - 10:00	English	96	Fri	9:00 - 10:00	English
97	Sat	9:00 - 10:00	History	97	Sat	9:00 - 10:00	History
98	Sun	9:00 - 10:00	Art	98	Sun	9:00 - 10:00	Art
99	Mon	10:00 - 11:00	Maths	99	Mon	10:00 - 11:00	Maths
100	Tue	10:00 - 11:00	Physics	100	Tue	10:00 - 11:00	Physics
101	Wed	10:00 - 11:00	Chemistry	101	Wed	10:00 - 11:00	Chemistry
102	Thu	10:00 - 11:00	Computer Science	102	Thu	10:00 - 11:00	Computer Science
103	Fri	10:00 - 11:00	English	103	Fri	10:00 - 11:00	English
104	Sat	10:00 - 11:00	History	104	Sat	10:00 - 11:00	History
105	Sun	10:00 - 11:00	Art	105	Sun	10:00 - 11:00	Art
106	Mon	11:00 - 12:00	Maths	106	Mon	11:00 - 12:00	Maths
107	Tue	11:00 - 12:00	Physics	107	Tue	11:00 - 12:00	Physics
108	Wed	11:00 - 12:00	Chemistry	108	Wed	11:00 - 12:00	Chemistry
109	Thu	11:00 - 12:00	Computer Science	109	Thu	11:00 - 12:00	Computer Science
110	Fri	11:00 - 12:00	English	110	Fri	11:00 - 12:00	English
111	Sat	11:00 - 12:00	History	111	Sat	11:00 - 12:00	History
112	Sun	11:00 - 12:00	Art	112	Sun	11:00 - 12:00	Art
113	Mon	12:00 - 1:00	Maths	113	Mon	12:00 - 1:00	Maths
114	Tue	12:00 - 1:00	Physics	114	Tue	12:00 - 1:00	Physics
115	Wed	12:00 - 1:00	Chemistry	115	Wed	12:00 - 1:00	Chemistry
116	Thu	12:00 - 1:00	Computer Science	116	Thu	12:00 - 1:00	Computer Science
117	Fri	12:00 - 1:00	English	117	Fri	12:00 - 1:00	English
118	Sat	12:00 - 1:00	History	118	Sat	12:00 - 1:00	History
119	Sun	12:00 - 1:00	Art	119	Sun	12:00 - 1:00	Art
120	Mon	1:00 - 2:00	Maths	120	Mon	1:00 - 2:00	Maths
121	Tue	1:00 - 2:00	Physics	121	Tue	1:00 - 2:00	Physics
122	Wed	1:00 - 2:00	Chemistry	122	Wed	1:00 - 2:00	Chemistry
123	Thu	1:00 - 2:00	Computer Science	123	Thu	1:00 - 2:00	Computer Science
124	Fri	1:00 - 2:00	English	124	Fri	1:00 - 2:00	English

BOS Curriculum page



Students Page



Faculty Page

The screenshot shows a web browser displaying the 'Faculty Page' of the 'CS Hub' website. The browser's address bar shows 'localhost:3000/faculty'. The website has a dark header with the 'CS Hub' logo and navigation links: HOME, ACADEMICS, FACULTY, FACILITIES, PLACEMENTS, and CONTACTS. A green 'LOGIN' button is in the top right. The main content area is titled 'FACULTY - Department of CSE' and features three faculty member profiles, each with a photo, name, education, email, join date, and experience.

Name	Education	Email	Join Date	Experience
Mr. N. Satyanandaram	PGDIT, MSIT	satyanandaram@rguktrkv.ac.in	04 Aug 2011	12 years
Mr. P. Harinadha	M.Tech (University of Hyderabad)	pharinadha@rguktrkv.ac.in	06 July 2014	9 years
Mr. T. Sandeep Kumar Reddy	M.Tech(JNTU-A)	tsandeepkumarreddy@rguktrkv.ac.in	07 July 2014	

Facilities Page

The screenshot shows the 'Facilities Page' of the 'CS Hub' website. The browser's address bar shows 'localhost:3000/facilities'. The website header is identical to the Faculty Page. The main content area is titled 'FACILITIES OF DEPARTMENT' and features two sections: 'MAD LAB' and 'High Performance Computing LAB'. The 'MAD LAB' section includes a photo of a computer lab and a description of the Mobile Application Development Laboratory. The 'High Performance Computing LAB' section includes a photo of server racks.

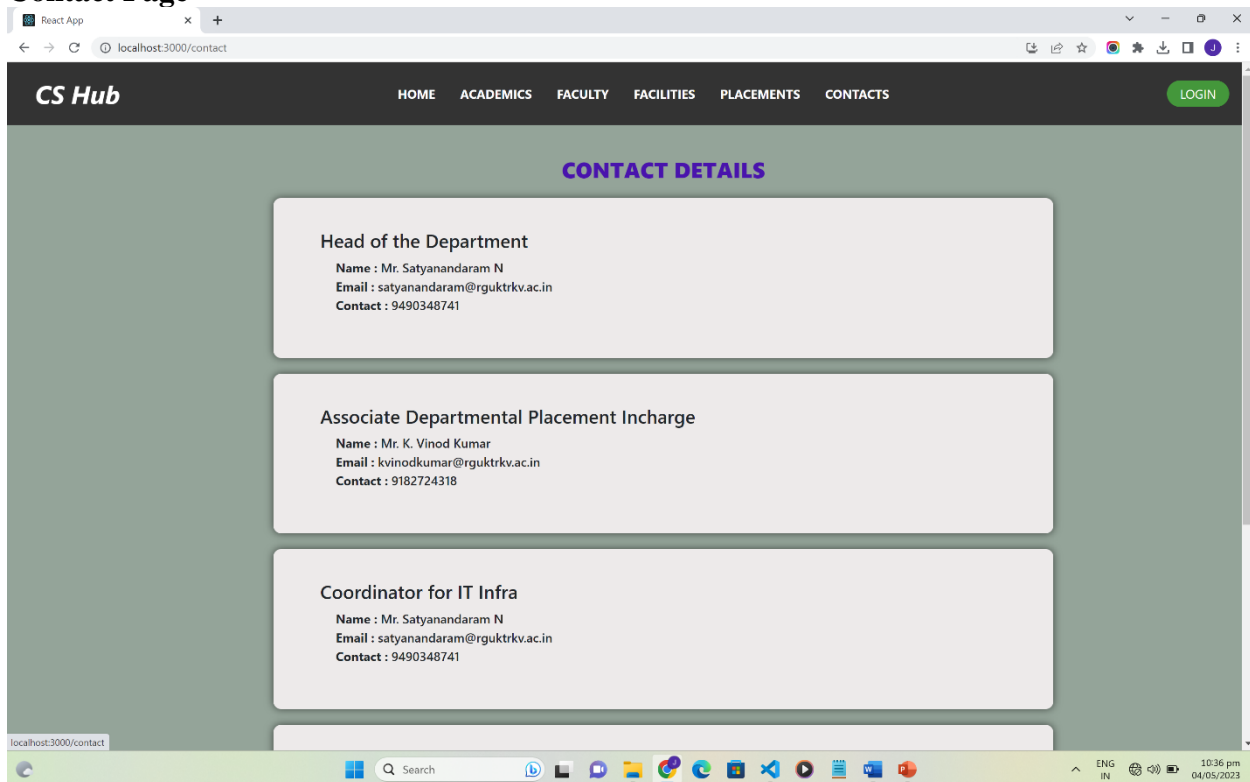
FACILITIES OF DEPARTMENT

MAD LAB

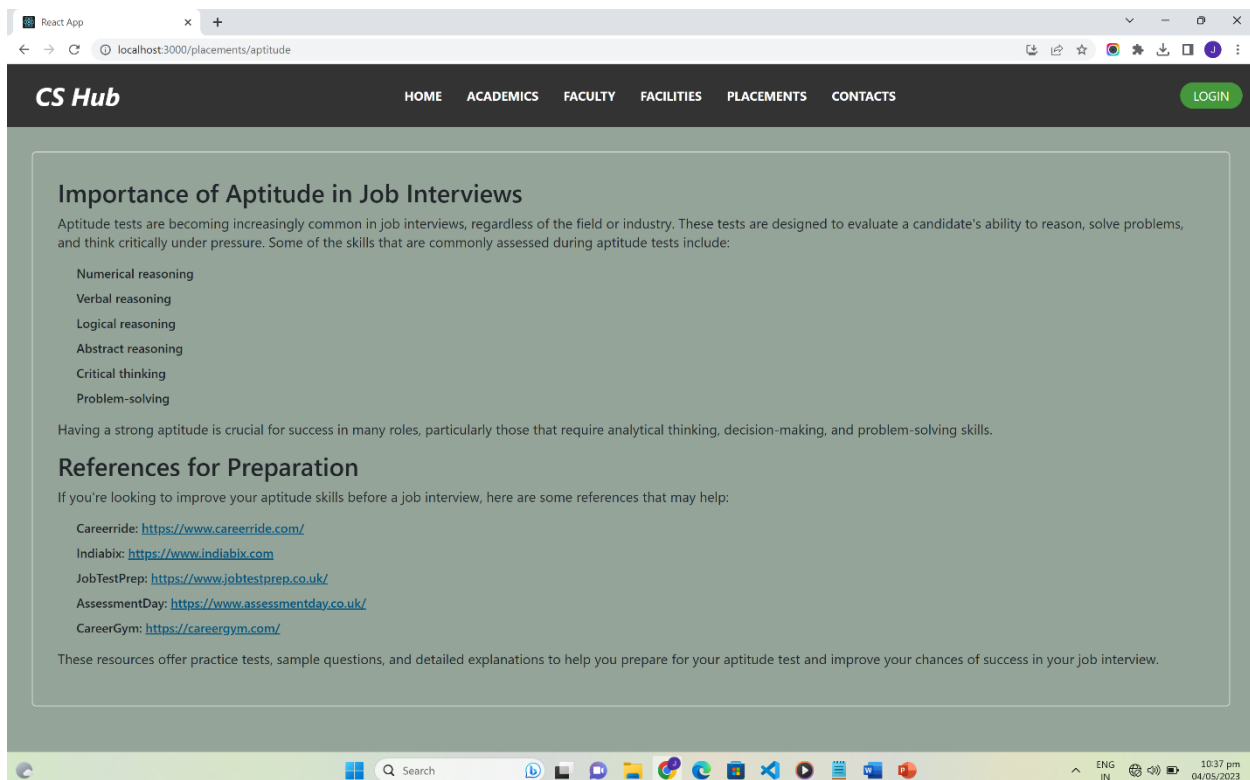
The Mobile Application Development (MAD) Laboratory provides resources for research in the areas of mobile application development, user interface design, and usability testing. The lab has advanced hardware and software for mobile application development on various platforms such as Android and iOS.

High Performance Computing LAB

Contact Page



Placements – Aptitude Page



Placements – Coding Page

CS Hub HOME ACADEMICS FACULTY FACILITIES PLACEMENTS CONTACTS LOGIN

Importance of Coding Skills in Job Interviews

Coding skills are becoming increasingly important in job interviews, especially for technical roles such as software engineering, data science, and web development. Some of the coding skills that are commonly assessed during job interviews include:

- Knowledge of programming languages such as Python, Java, or JavaScript
- Experience with software development frameworks such as React, Angular, or Django
- Ability to write efficient and maintainable code
- Understanding of data structures and algorithms
- Problem-solving skills
- Ability to work collaboratively and communicate technical ideas clearly

Having strong coding skills is essential for success in technical roles, and can set you apart from other candidates during the interview process.

References for Preparation

If you're looking to improve your coding skills before a job interview, here are some references that may help:

- LeetCode: <https://leetcode.com/>
- HackerRank: <https://www.hackerrank.com/>
- Codewars: <https://www.codewars.com/>
- Codecademy: <https://www.codecademy.com/>
- Udemy: <https://www.udemy.com/>

These resources offer coding challenges, tutorials, and courses to help you improve your coding skills and prepare for your job interview.

Placements – Technical Page

CS Hub HOME ACADEMICS FACULTY FACILITIES PLACEMENTS CONTACTS LOGIN

Importance of Technical Concepts in Job Interviews

Technical concepts are a crucial part of any job interview, especially for technical roles. Employers want to ensure that their candidates have the necessary skills and knowledge to perform the job tasks effectively. Some of the technical concepts that are commonly assessed during interviews include:

- Data Structures and Algorithms
- Object-Oriented Programming (OOP)
- Database Concepts
- Operating Systems and Computer Networks
- Web Development Concepts (HTML, CSS, JavaScript, etc.)

It's important to have a strong understanding of these concepts before going into a job interview, as it can make a significant difference in the hiring decision.

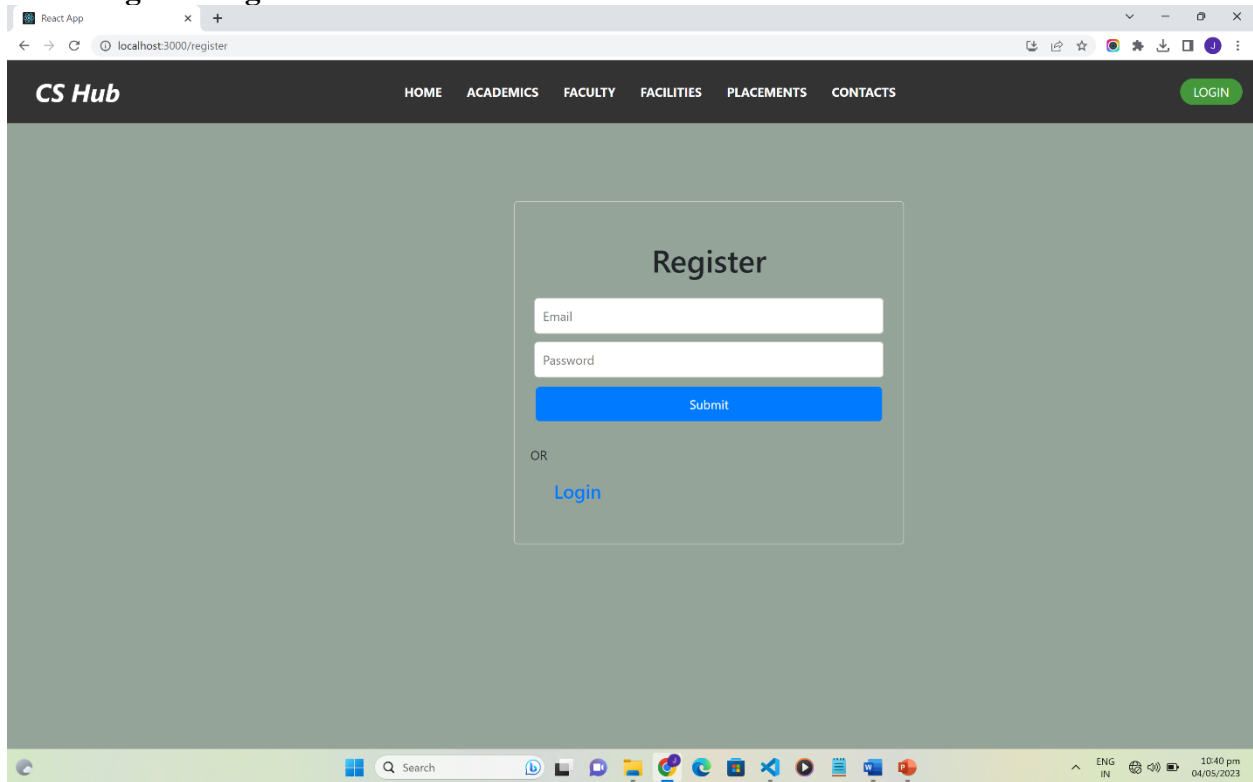
References for Preparation

If you're looking to brush up on your technical knowledge before a job interview, here are some references that may help:

- LeetCode: <https://leetcode.com/>
- HackerRank: <https://www.hackerrank.com/>
- GeeksforGeeks: <https://www.geeksforgeeks.org/>
- Coursera: <https://www.coursera.org/>
- Udemy: <https://www.udemy.com/>

These resources offer a variety of courses, tutorials, and practice problems to help you strengthen your technical skills and prepare for your job interview.

HOD Register Page



The screenshot shows a web browser window with the title "React App" and the address bar displaying "localhost:3000/register". The page features a dark header with the "CS Hub" logo on the left and navigation links (HOME, ACADEMICS, FACULTY, FACILITIES, PLACEMENTS, CONTACTS) in the center. A green "LOGIN" button is on the right. The main content area has a light green background and a central white box titled "Register". Inside this box are two input fields for "Email" and "Password", followed by a blue "Submit" button. Below the inputs is the text "OR" and a blue link "Login". The Windows taskbar at the bottom shows the time as 10:40 pm on 04/05/2023.

CS Hub HOME ACADEMICS FACULTY FACILITIES PLACEMENTS CONTACTS LOGIN

Register

Email

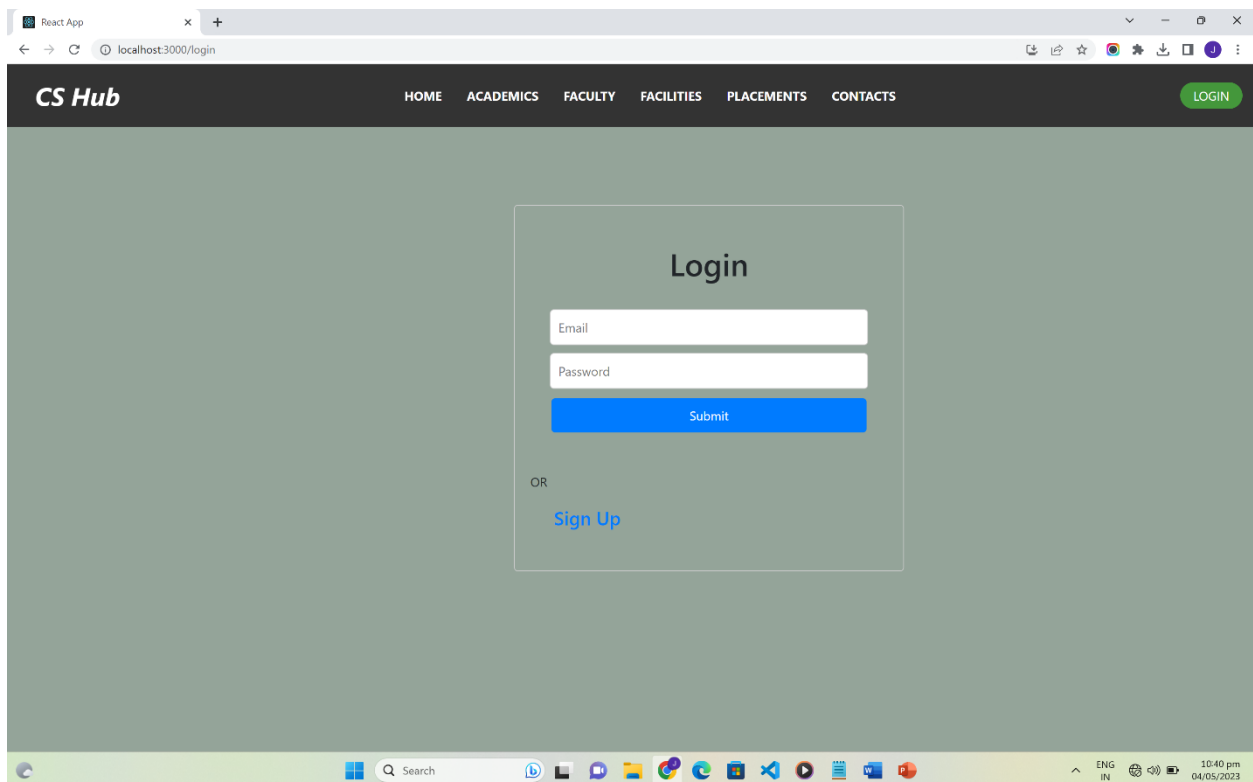
Password

Submit

OR

[Login](#)

HOD Login Page



The screenshot shows a web browser window with the title "React App" and the address bar displaying "localhost:3000/login". The page features a dark header with the "CS Hub" logo on the left and navigation links (HOME, ACADEMICS, FACULTY, FACILITIES, PLACEMENTS, CONTACTS) in the center. A green "LOGIN" button is on the right. The main content area has a light green background and a central white box titled "Login". Inside this box are two input fields for "Email" and "Password", followed by a blue "Submit" button. Below the inputs is the text "OR" and a blue link "Sign Up". The Windows taskbar at the bottom shows the time as 10:40 pm on 04/05/2023.

CS Hub HOME ACADEMICS FACULTY FACILITIES PLACEMENTS CONTACTS LOGIN

Login

Email

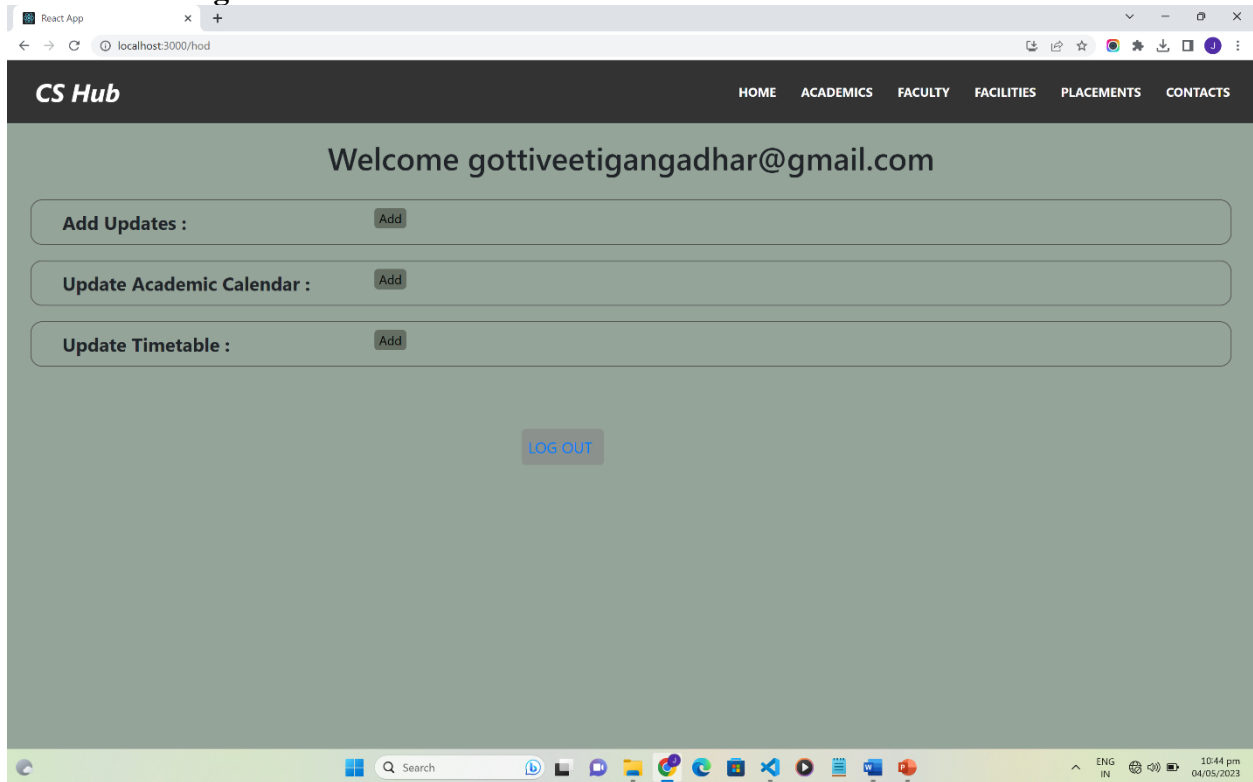
Password

Submit

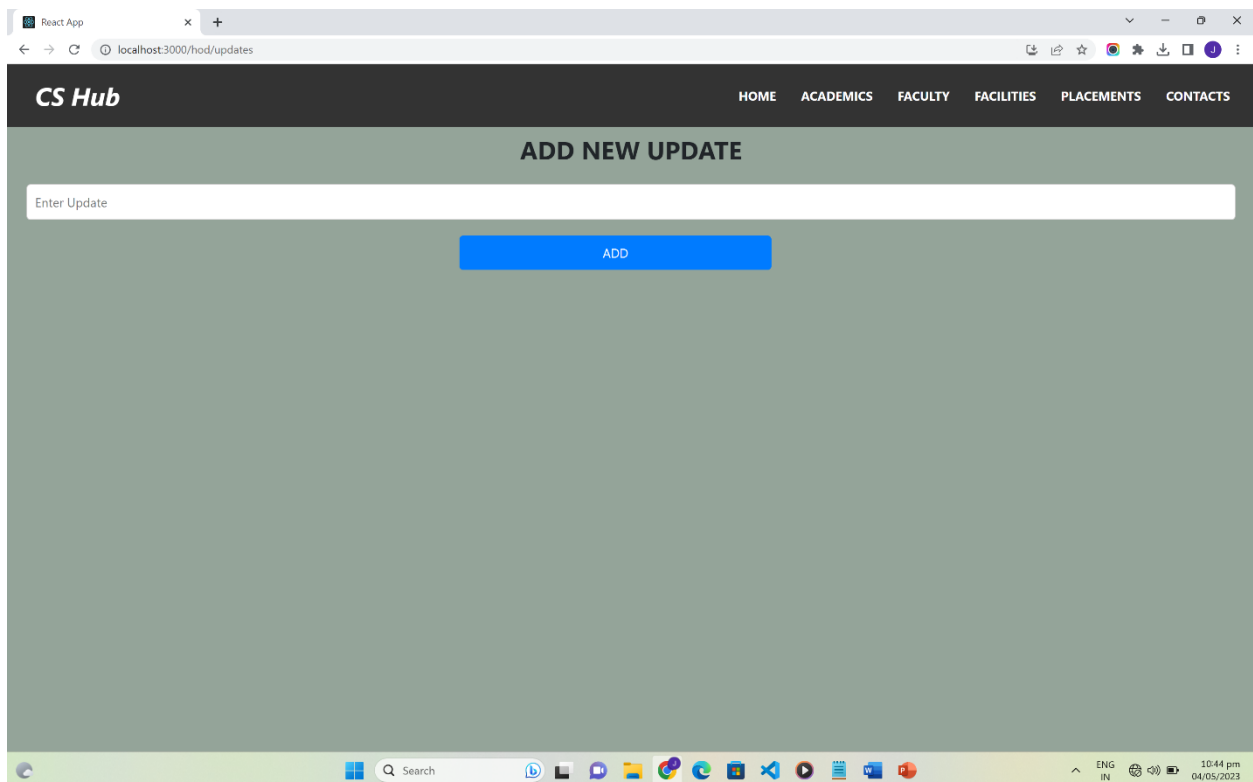
OR

[Sign Up](#)

HOD Home Page



HOD - Add Updates Page



HOD – Update the Academic Calendar page

The screenshot shows a web browser window with the URL `localhost:3000/calendarManager`. The page has a dark header with the logo "CS Hub" and navigation links: HOME, ACADEMICS, FACULTY, FACILITIES, PLACEMENTS, and CONTACTS. The main content area is titled "Update Academic Calendar". It contains a "Select Semester:" dropdown menu with "SEM 1" selected. Below it is a "Select File:" section with a "Choose File" button and the text "No file chosen". A blue "submit" button is at the bottom of the form. The Windows taskbar at the bottom shows the time as 10:44 pm on 04/05/2023.

React App

localhost:3000/calendarManager

CS Hub

HOME ACADEMICS FACULTY FACILITIES PLACEMENTS CONTACTS

Update Academic Calendar

Select Semester:

SEM 1

Select File:

Choose File No file chosen

submit

10:44 pm 04/05/2023

HOD – Update Timetable Page

The screenshot shows a web browser window with the URL `localhost:3000/timeTableManager`. The page has a dark header with the logo "CS Hub" and navigation links: HOME, ACADEMICS, FACULTY, FACILITIES, PLACEMENTS, and CONTACTS. The main content area is titled "Update TimeTable". It contains a "Select year:" dropdown menu with "E1" selected. Below it is a "Select File:" section with a "Choose File" button and the text "No file chosen". A blue "submit" button is at the bottom of the form. The Windows taskbar at the bottom shows the time as 10:46 pm on 04/05/2023.

React App

localhost:3000/timeTableManager

CS Hub

HOME ACADEMICS FACULTY FACILITIES PLACEMENTS CONTACTS

Update TimeTable

Select year:

E1

Select File:

Choose File No file chosen

submit

10:46 pm 04/05/2023

CONCLUSION

As there was no such system available for department by which the students can communicate with teachers properly. This project will provide the students proper medium to communicate with the faculties over their problems regarding studies and other topics. There were a lot of difficulties for the student regarding the current updates of the department. All the latest updates of the departments are provided on the website, such as all the information are uploaded on the website as quick as possible.

FUTURE ENHANCEMENTS

We can also embed chat option for the users (Students or Faculties) who are online at the time and are registered, so that it can be used as a social networking site such as Facebook and Twitter etc at a small scale or at department level

REFERENCE

- [1] ReactJs : [React](#)
- [2] MongoDB : [What Is MongoDB? | MongoDB](#)
- [3] NodeJs : [Documentation | Node.js \(nodejs.org\)](#)
- [4] YouTube
- [5] Chatgpt