**ASSIGNMENT-8**

1. Create a `Person` component that receives `name` and `age` props and renders a message like "John is 25 years old." Style the `Person` component using inline styles. Change the text color to blue and add a border.

2. Create a React component with a button. When the button is clicked, toggle between displaying and hiding a message. Use external CSS module to style the component.

3. Create a component named `UserGreeting` that displays "Welcome back!" if a user is logged in and "Please log in" if not. Include a button to toggle the user's login state.

4. Create a password input field and an option to show or hide the password.

5. Create a theme switcher application with react. Create a page with some headings, paragraphs and buttons. Create a button to toggle between "light" and "dark" modes. Change the background and text color based on the mode.

6. Create a TODO application with add and delete features with react. For a todo accept task, date and time. Display all the TODOs and perform the delete operation accordingly.

7. Make an API call to “https://dummyjson.com/users” and display the user details like photo, name, address (address, city, state, and postal code), mobile and email in user cards.

8. Create a navbar to connect the apps created above with the help of react router dom. Create a layout to have navbar and footer in all the pages.

Ans:

**index.css:**

<!doctype html>

<html lang="en">

  <head>

    <meta charset="UTF-8" />

    <link rel="icon" type="image/svg+xml" href="/vite.svg" />

    <meta name="viewport" content="width=device-width, initial-scale=1.0" />

    <title>Assignment-8</title>

  </head>

  <body>

    <div id="root"></div>

    <script type="module" src="/src/main.jsx"></script>

  </body>

</html>

**main.jsx:**

import { StrictMode } from 'react'

import { createRoot } from 'react-dom/client'

import './index.css'

import App from './App.jsx'

createRoot(document.getElementById('root')).render(

  <StrictMode>

    <App />

  </StrictMode>,

)

**App.jsx:**

import React from 'react'

import Layout from './layout/Layout'

import Button from './pages/Button'

import Password from './pages/Password'

import API from './pages/API'

import TODO from './pages/TODO'

import Login from './pages/UserGreeting'

import ThemeSwitch from './pages/ThemeSwitch'

import { createBrowserRouter,RouterProvider } from 'react-router-dom'

import PersonDetails from './pages/PersonDetails'

import "bootstrap/dist/css/bootstrap.min.css"

import "bootstrap/dist/js/bootstrap.bundle.min.js"

const App = () => {

  const router=createBrowserRouter([

    {

        path:"/",

        element:<Layout/>,

        children:[

          {path:'person',element:<PersonDetails/>},

          {path:'display-msg',element:<Button/>},

          {path:'password',element:<Password/>},

          {path:'api',element:<API/>},

          {path:'todo',element:<TODO/>},

          {path:'login',element:<Login/>},

          {path:'light',element:<ThemeSwitch/>}

        ]

    }

  ])

  return <RouterProvider router={router}/>

}

export default App

**Components:**

**NavBar.jsx:**

import React from 'react'

import { Link } from 'react-router-dom'

const NavBar = () => {

  return (

    <nav className="navbar navbar-expand-lg bg-body-tertiary">

  <div className="container-fluid">

    <a className="navbar-brand" href="#">Navbar</a>

    <button className="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">

      <span className="navbar-toggler-icon"></span>

    </button>

    <div className="collapse navbar-collapse" id="navbarSupportedContent">

      <ul className="navbar-nav me-auto mb-2 mb-lg-0">

        <li className="nav-item">

          <Link className="nav-link active" aria-current="page" to="/">Home</Link>

        </li>

        <li className="nav-item">

          <Link className="nav-link" to="/person">Person</Link>

        </li>

        <li className="nav-item">

          <Link className="nav-link" to="/display-msg">Hide/Display</Link>

        </li>

        <li className="nav-item">

          <Link className="nav-link" to="/login">Login</Link>

        </li>

        <li className="nav-item">

          <Link className="nav-link" to="/password">Password</Link>

        </li>

        <li className="nav-item">

          <Link className="nav-link" to="/light">Light/Dark</Link>

        </li>

        <li className="nav-item">

          <Link className="nav-link" to="/todo">TODO</Link>

        </li>

        <li className="nav-item">

          <Link className="nav-link" to="/api">User Details</Link>

        </li>

      </ul>

    </div>

  </div>

</nav>

  )

}

export default NavBar

**Footer.jsx:**

import React from 'react'

const Footer = () => {

  return (

    <>

      <div className="card">

            <div className="card-body">

                <h5 className="card-title">Welcome to footer</h5>

                <p className="card-text">With supporting text below as a natural lead-in to additional content.</p>

                <a href="#" className="btn btn-primary">Contact-us</a>

            </div>

        </div>

    </>

  )

}

export default Footer

**Person.jsx:**

import React from 'react'

const Person = ({name,age}) => {

    let msg=`${name} is ${age} years old`

  return (

    <div>

      <p style={{color:"blue",border:"1px solid black"}}>{msg}</p>

    </div>

  )

}

export default Person

**TaskCard.jsx:**

import React from 'react'

const TaskCard = ({task,deleteTask}) => {

  return (

    <div className='container '>

      <div className='row'>

      <div className="card d-flex flex-wrap col-6">

          <p className="card-text" style={{color:"black"}}>Task:{task.taskToAdd}</p>

          <p className="card-text" style={{color:"black"}}>Date:{task.dateToAdd}</p>

          <p className="card-text" style={{color:"black"}}>Time:{task.timeToAdd}</p>

          <button onClick={()=>deleteTask(task.id)}>Delete task</button>

      </div>

      </div>

    </div>

  )

}

export default TaskCard

**UserCard.jsx:**

import React from 'react'

const UserCard = ({user}) => {

  return (

    <div className='container '>

      <div style={{border:"1px solid black",marginBottom:"15px",padding:"10px"}}>

        <img src={user.image} className="card-img-top" alt={user.firstName}/>

          <div className="card-body">

          <p className="card-text" style={{color:"black"}}>Name:{user.firstName} {user.lastName}</p>

          <p className="card-text" style={{color:"black"}}>Address:{user.address.address}</p>

          <p className="card-text" style={{color:"black"}}>City:{user.address.city}</p>

          <p className="card-text" style={{color:"black"}}>State:{user.address.state}</p>

          <p className="card-text" style={{color:"black"}}>Postal Code:{user.address.postalCode}</p>

          <p className="card-text" style={{color:"black"}}>Mobile:{user.phone}</p>

          <p className="card-text" style={{color:"black"}}>Email:{user.email}</p>

          </div>

      </div>

    </div>

  )

}

export default UserCard

**Layout.jsx:**

import React from 'react'

import {Outlet} from 'react-router-dom'

import NavBar from '../components/NavBar'

import Footer from '../components/Footer'

const Layout = () => {

  return (

    <>

      <NavBar/>

      <Outlet/>

      <Footer/>

    </>

  )

}

export default Layout

**pages:**

**PersonDetails.jsx:**

import React from 'react'

import { useState,useRef } from 'react'

import Person from '../components/Person'

const PersonDetails = () => {

    const name=useRef(null)

    const age=useRef(0)

    const [person,setPerson]=useState(null)

    const handleSubmit=(e)=>{

        e.preventDefault()

        let a=name.current.value

        let b=Number(age.current.value)

        if(a==="" || age.current.value===""){

            alert("Please enter name and age");

            return

        }

        else if(isNaN(b)){

            alert("Please enter valid age")

            return

        }

        setPerson({name:a,age:b})

        name.current.value=""

        age.current.value=""

    }

  return (

    <div>

      <form method="post" onSubmit={handleSubmit}>

            <input type="text"

                ref={name}

                placeholder='Enter your name' />

            <input type="text"

                ref={age}

                placeholder='Enter your age' />

            <button type='submit'>Submit</button>

            {person && <Person name={person.name} age={person.age}/>}

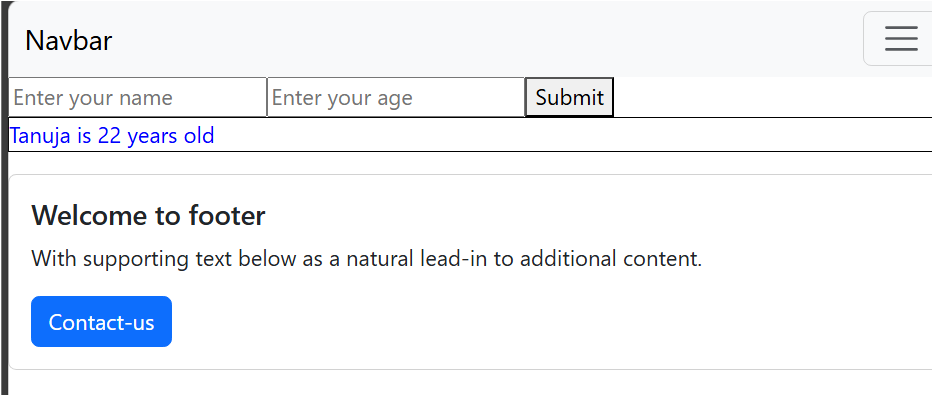
      </form>

    </div>

  )

}

export default PersonDetails



**Button.jsx:**

import React from 'react'

import { useState } from 'react'

import  './../style/Button.module.css'

const Button = () => {

    const [visible,setVisible]=useState(true)

    function toggleVisibility(){

        setVisible(!visible)

    }

  return (

    <div>

      {

        visible && <p id='para'>Lorem ipsum dolor sit amet consectetur adipisicing elit. Aut necessitatibus accusantium libero incidunt eaque deleniti et, similique repudiandae. Eius hic architecto distinctio voluptatum consectetur unde omnis? Repudiandae accusamus soluta explicabo?</p>

      }

      <button onClick={toggleVisibility}>{visible?"Hide":"Display"}</button>

    </div>

  )

}

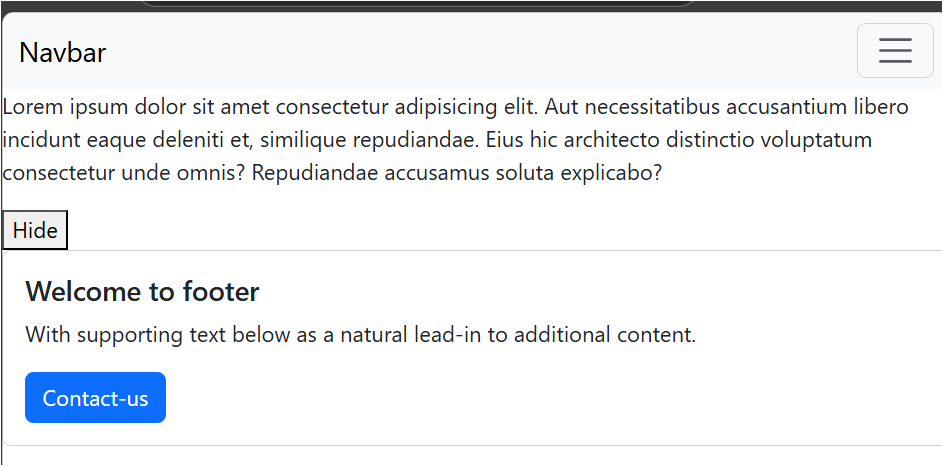
export default Button

**Button.module.css:**

#para{

    color: blueviolet;

}



**UserGreeting.jsx:**

import React, { useRef, useState } from 'react'

const Login = () => {

    const users={"Tanuja":"123"};

    const [login,setLogin]=useState(false)

    const userName=useRef(null)

    const passWord=useRef(null)

    const handleSubmit =(e) =>{

        e.preventDefault()

        if(userName.current.value=="" || userName.current.value==""){

            alert("Please enter username and password")

            return

        }

        else if(users[userName.current.value] && users[userName.current.value]==passWord.current.value){

            setLogin(true)

        }

        else{

            alert("Invalid username or password")

        }

    }

    return (

        <>

        {

            login?(

                <p>Welcome back!!</p>

            ):(

            <>

                <p>Please login in!!</p>

                <form>

                    <input type='text'

                        ref={userName}

                        placeholder='Enter your username'

                        name='user' required/>

                    <input type='password'

                        ref={passWord}

                        placeholder='Enter your password'

                        name='pass' required/>

                    <button onClick={handleSubmit}>Submit</button>

                </form>

                </>

            )

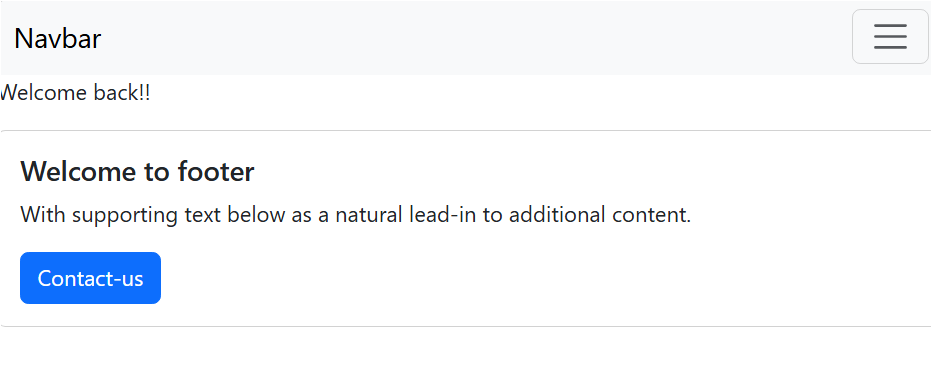
        }

        </>

    )

}

export default Login



**Password.jsx:**

import React, { useState } from 'react';

const Password = () => {

    const [password,setPassword]=useState('');

    const [visible,setVisible]=useState(false);

    return (

        <div className='d-flex justify-content-center'>

            <input type={visible?'text':'password'}

                placeholder='Enter your password'

                value={password}

                onChange={(e)=>setPassword(e.target.value)}

                required

            />

            <div className='ps-1 pe-1' onClick={() => setVisible(!visible)} style={{border:"1px solid black"}}>

                {visible?"Hide":"Show"}

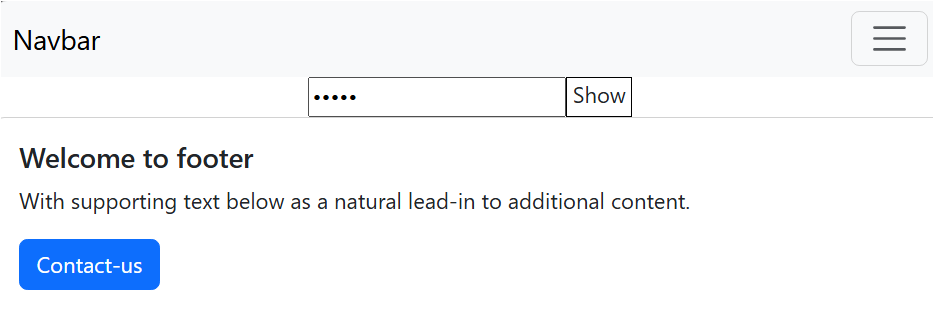
            </div>

        </div>

    );

};

export default Password;



**ThemeSwitch.jsx:**

import React, { useState } from 'react'

const ThemeSwitch = () => {

    const [light,setLight]=useState(true)

    function toggleTheme(){

      setLight(!light)

    }

  return (

    <div style={{

      backgroundColor:light?'white':'black',

      color:light?'black':'white'

    }}>

      <p>Lorem ipsum dolor sit amet consectetur adipisicing elit. Aperiam totam corporis mollitia laudantium, ea voluptatibus quidem quam qui odit deleniti earum corrupti nesciunt ipsum commodi beatae incidunt veritatis dicta modi?</p>

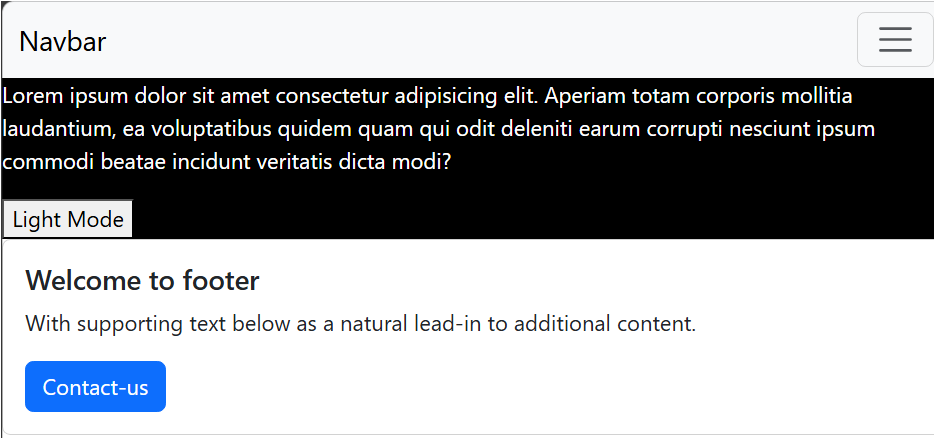
      <button onClick={toggleTheme}>{light?"Dark Mode":"Light Mode"}</button>

    </div>

  )

}

export default ThemeSwitch



**TODO.jsx:**

import React, { useRef, useState } from 'react'

import TaskCard from '../components/TaskCard'

const TODO = () => {

    const task=useRef(null)

    const date=useRef(null)

    const time=useRef(null)

    const [tasks,setTasks]=useState([])

    const addTask=(e)=>{

        e.preventDefault()

        if(task.current.value==="" || date.current.value==="" || time.current.value===""){

            alert("Enter all the values")

            return

        }

        let taskToAdd=task.current.value

        let dateToAdd=date.current.value

        let timeToAdd=time.current.value

        let id=Math.random()\*100+timeToAdd;

        let newTask={id,taskToAdd,dateToAdd,timeToAdd}

        setTasks([...tasks,newTask])

        task.current.value=""

        date.current.value=""

        time.current.value=""

    }

    const deleteTask=(id)=>{

        let newTasks=tasks.filter(task=>task.id!=id)

        setTasks(newTasks)

    }

  return (

    <>

        <form action="post" onSubmit={addTask}>

            <input type='text' ref={task} placeholder='Enter the task'></input><br/>

            <label>Enter the date</label>

            <input type='date' ref={date}></input><br/>

            <label>Enter the time</label>

            <input type='time' ref={time}></input><br/>

            <button type="submit">Submit</button>

        </form>

        {

            tasks.map(task=>(

                <TaskCard key={task.id} task={task} deleteTask={deleteTask}/>

            ))

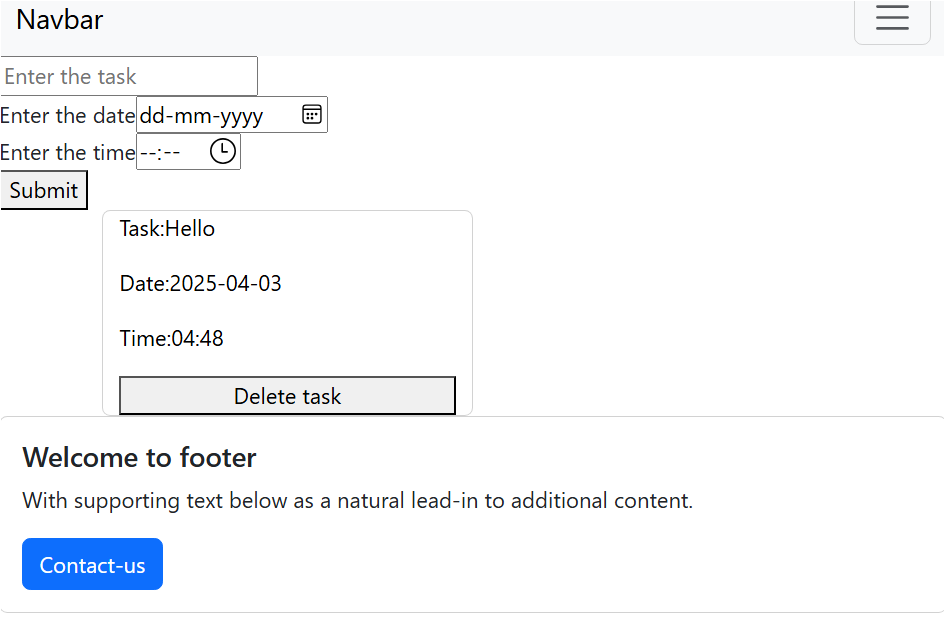
        }

    </>

  )

}

export default TODO



**UserGreeting.jsx:**

import React, { useRef, useState } from 'react'

const Login = () => {

    const users={"Tanuja":"123"};

    const [login,setLogin]=useState(false)

    const userName=useRef(null)

    const passWord=useRef(null)

    const handleSubmit =(e) =>{

        e.preventDefault()

        if(userName.current.value=="" || userName.current.value==""){

            alert("Please enter username and password")

            return

        }

        else if(users[userName.current.value] && users[userName.current.value]==passWord.current.value){

            setLogin(true)

        }

        else{

            alert("Invalid username or password")

        }

    }

    return (

        <>

        {

            login?(

                <p>Welcome back!!</p>

            ):(

            <>

                <p>Please login in!!</p>

                <form>

                    <input type='text'

                        ref={userName}

                        placeholder='Enter your username'

                        name='user' required/>

                    <input type='password'

                        ref={passWord}

                        placeholder='Enter your password'

                        name='pass' required/>

                    <button onClick={handleSubmit}>Submit</button>

                </form>

                </>

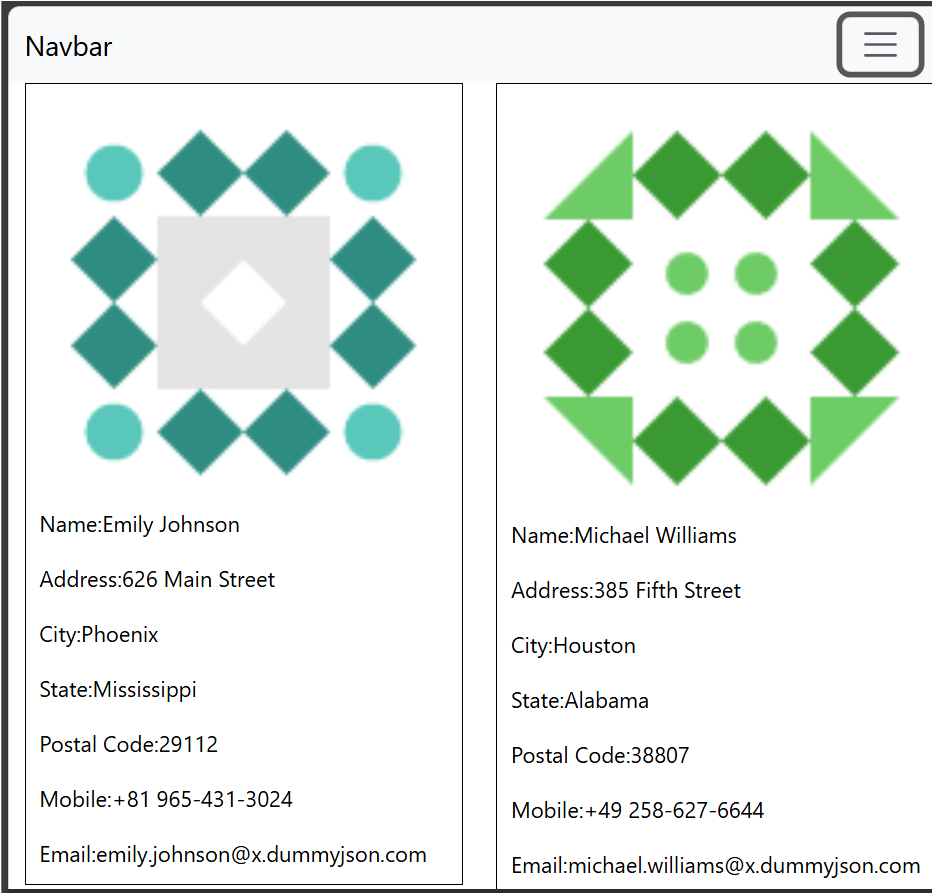
            )

        }

        </>

    )

}

export default Login

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