

S1: Project and Files

```
C:\demo\jsmarch24\L12> npx create-react-app auth_app
C:\demo\jsmarch24\L12> cd auth_app
C:\demo\jsmarch24\L12\auth_app>npm install firebase react-router-dom
C:\demo\jsmarch24\L12\auth_app>cd src
C:\demo\jsmarch24\L12\auth_app\src>notepad Login.js
C:\demo\jsmarch24\L12\auth_app\src>notepad SignUp.js
C:\demo\jsmarch24\L12\auth_app\src>notepad Home.js
C:\demo\jsmarch24\L12\auth_app\src>notepad About.js
C:\demo\jsmarch24\L12\auth_app\src>notepad NavBar.js
C:\demo\jsmarch24\L12\auth_app\src>notepad Firebase.js
C:\demo\jsmarch24\L12\auth_app\src>notepad ForgotPassword.js
C:\demo\jsmarch24\L12\auth_app\src>notepad ChangePassword.js
C:\demo\jsmarch24\L12\auth_app\src>cd..
C:\demo\jsmarch24\L12\auth_app> npm start
```

REACT + FIREBASE WITH KAMAL SIR - 8369084928

S2: Coding

Login.js

```
import { useState, useRef, useEffect } from "react";
import app from "./Firebase";
import NavBar from "./NavBar";
import { getAuth, signInWithEmailAndPassword } from "firebase/auth";
import { useNavigate } from "react-router-dom";

function Login()
{
    const nav = useNavigate();
    const rUn = useRef();
    const [un, setUn] = useState("");
    const [pw, setPw] = useState("");
    const [msg, setMsg] = useState("");

    useEffect( ()=> {
        let un = localStorage.getItem("un");
        if (un != null)
            nav("/home");
    }, []);;

    const hUn = (event) => { setUn(event.target.value); }
    const hPw = (event) => { setPw(event.target.value); }

    const login = (event) => {
        event.preventDefault();

        const auth = getAuth();
        signInWithEmailAndPassword(auth, un, pw)
        .then(res => {
            localStorage.setItem("un", un);
            nav("/");
        })
        .catch(err => setMsg("issue "+ err));
    }

    return(
    <>
    <center>
        <NavBar/>
        <h1> Login Page </h1>
        <form onSubmit={ login }>
            <input type="email" placeholder="enter reg email"
            onChange={ hUn } value={un} ref={ rUn } />
            <br/><br/>
            <input type="password" placeholder="enter password"
            onChange={ hPw } value={pw} />
            <br/><br/>
    
```

```
        <input type="submit" value="Login" />
    </form>
    <h2> { msg } </h2>
</center>
</>
);
}

export default Login;
```

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SignUp.js

```
import { useState, useRef, useEffect } from "react";
import app from "./Firebase";
import NavBar from "./NavBar";
import { getAuth, createUserWithEmailAndPassword } from "firebase/auth";
import { useNavigate } from "react-router-dom";

function SignUp()
{
    const nav = useNavigate();
    const rUn = useRef();
    const [un, setUn] = useState("");
    const [pw1, setPw1] = useState("");
    const [pw2, setPw2] = useState("");
    const [msg, setMsg] = useState("");

    useEffect( ()=> {
        let un = localStorage.getItem("un");
        if (un != null)
            nav("/home");
    }, []);

    const hUn = (event) => { setUn(event.target.value); }
    const hPw1 = (event) => { setPw1(event.target.value); }
    const hPw2 = (event) => { setPw2(event.target.value); }

    const signup = (event) => {
        event.preventDefault();
        if (pw1 == pw2)
        {
            const auth = getAuth();
            createUserWithEmailAndPassword(auth, un, pw1)
            .then( res => nav("/login"))
            .catch(err => setMsg("issue " + err));
        }
        else
        {
            setMsg("passwords did not match");
        }
    }

    return(
    <>
    <center>
        <NavBar/>
        <h1> SignUp Page </h1>
        <form onSubmit={ signup }>
            <input type="email" placeholder="enter email"

```

```
        onChange={ hUn } value={un} ref={ rUn } />
        <br/><br/>
        <input type="password" placeholder="enter password"
        onChange={ hPw1 } value={pw1} />
        <br/><br/>
        <input type="password" placeholder="confirm password"
        onChange={ hPw2 } value={pw2} />
        <br/><br/>
        <input type="submit" value="Register" />
    </form>
    <h2> { msg } </h2>
</center>
</>
);
}

export default SignUp;
```

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Home.js

```
import { useState, useRef, useEffect } from "react";
import app from "./Firebase";
import NavBar from "./NavBar";
import { useNavigate } from "react-router-dom";

function Home()
{
    const nav = useNavigate();
    const [userName, setUserName] = useState();

    useEffect( ()=>{
        let un = localStorage.getItem("un");
        if (un != null)
        {
            setUserName(un);
        }
        else
        {
            nav("/login");
        }
    }, []);

    const logout = (event) => {
        event.preventDefault();
        localStorage.removeItem("un");
        nav("/login");
    }

    return(
    <>
    <center>
        <NavBar/>
        <h1> Home Page </h1>
        <h2> Welcome { userName } </h2>
        <form onSubmit={logout}>
            <input type="submit" value="Logout" />
        </form>
    </center>
    </>
    );
}

export default Home;
```

About.js

```
import { useState, useRef } from "react";
import app from "./Firebase";
import NavBar from "./NavBar";
import { useEffect } from "react";
import { useNavigate } from "react-router-dom";

function About()
{
    const nav = useNavigate();
    useEffect( ()=> {
        let un = localStorage.getItem("un");
        if (un == null)
            nav("/login");
    }, []);
}

return(
<>
<center>
    <NavBar/>
    <h1> About Page </h1>
</center>
</>
);
}

export default About;
```

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NavBar.js

```
import { Link } from "react-router-dom";
import { useEffect } from "react";
import { useState } from "react";

function NavBar()
{
    const [user_name, setUserName] = useState();

    useEffect( () => {
        setUserName(localStorage.getItem("un"));
    }, []);;

    return(
    <>
    <center>
        <div className="nav">

            { (user_name == null) && ( <Link to="/login"> Login </Link> ) }
            { (user_name == null) && ( <Link to="/signup"> SignUp </Link> ) }
            { (user_name == null) && ( <Link to="/fp"> ForgotPassword </Link> ) }

            { (user_name != null) && ( <Link to="/"> Home </Link> ) }
            { (user_name != null) && ( <Link to="/about"> About </Link> ) }
            { (user_name != null) && ( <Link to="/cp"> ChangePassword </Link> ) }
        </div>
    </center>
    </>
);
}

export default NavBar;
```

Firebase.js

```
import { initializeApp } from "firebase/app";

const firebaseConfig = {
  apiKey: "AIzaSyCc-6Ses8qZPfOFu4SUg0dG1Cf6vk6q--Q",
  authDomain: "authappkamal28march24.firebaseio.com",
  projectId: "authappkamal28march24",
  storageBucket: "authappkamal28march24.appspot.com",
  messagingSenderId: "111823125047",
  appId: "1:111823125047:web:a3cf848af6769748ed1db2"
};

const app = initializeApp(firebaseConfig);
export default app;
```

App.js

```
import logo from './logo.svg';
import './App.css';
import Login from "./Login";
import SignUp from "./SignUp";
import Home from "./Home";
import About from "./About";
import ForgotPassword from "./ForgotPassword";
import ChangePassword from "./ChangePassword";
import { BrowserRouter, Routes, Route } from "react-router-dom";

function App() {
  return (
    <BrowserRouter>
      <Routes>
        <Route path="/" element={<Home/>} />
        <Route path="/login" element={<Login/>} />
        <Route path="/signup" element={<SignUp/>} />
        <Route path="/about" element={<About/>} />
        <Route path="/cp" element={<ChangePassword/>} />
        <Route path="/fp" element={<ForgotPassword/>} />
        <Route path="/" element={<Home/>} />
      </Routes>
    </BrowserRouter>
  );
}

export default App;
```

ForgotPassword.js

```
import { useState, useRef } from "react";
import app from "./Firebase";
import NavBar from "./NavBar";

function ForgotPassword()
{
    return(
        <>
        <center>
            <NavBar/>
            <h1> ForgotPassword Page </h1>
        </center>
        </>
    );
}

export default ForgotPassword;
```

ChangePassword.js

```
import { useState, useRef } from "react";
import app from "./Firebase";
import NavBar from "./NavBar";

function ChangePassword()
{
    return(
        <>
        <center>
            <NavBar/>
            <h1> ChangePassword Page </h1>
        </center>
        </>
    );
}

export default ChangePassword;
```

App.css

```
* { font-size:2vw; font-family: Century; }
.nav { background-color: black; }
.nav a { color:white; text-decoration:none; margin:3vw;}
```