

Date:

## ReactJS

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### Aim:

Program to develop an attractive web page using ReactJS.

### Algorithm:

1. Create a react project by using the command `npx create-react-app login-signup` in command prompt.
2. Then change the directory to your project directory using the command `cd login-signup`.
3. Then start the server using the command `npm start`.
4. Import `./welcome.js`, `signup` from `./signup.js` and `login` from `./login.js` in `app.js` file.
5. After these components are imported, establish routes to them using `<Route>` tag within `<Routes>` tag which is within `<Router>` tag.
6. In `login.js`, create a form with username and password and onsubmit check if the username is equal to `rec` and password is equal to `rec123`.
7. If the above conditions are satisfied then navigate to `welcome.js` or else navigate to `signup.js`.
8. In `signup.js` file create a form with username, email and password and onsubmit it should navigate to `welcome.js`.
9. In `welcome.js` file create a component and in it create a `<h1>` tag with the text "Welcome to REC".

## **Program:**

### **App.js**

```
import React from 'react';
import { BrowserRouter as Router, Route, Routes } from 'react-router-dom';
import Welcome from './Welcome';
import Signup from './Signup';
import Login from './Login';

const App = () => {
  return (
    <Router>
      <Routes>
        <Route exact path="/" element={<Login />} />
        <Route exact path="/Welcome" element={<Welcome />} />
        <Route path="/Signup" element={<Signup />} />
      </Routes>
    </Router>
  );
};

export default App;
```

### **login.js**

```
import './App.css';
import React, { useState } from 'react';
import { BrowserRouter as Router, Route, useNavigate, Routes } from 'react-router-dom';

const Login = () => {
  const [username, setUsername] = useState("");
  const [password, setPassword] = useState("");
  const navigate = useNavigate();

  const handleFormSubmit = (e) => {
```

```

e.preventDefault();
if (username === 'rec' && password === 'rec123') {
  navigate('/Welcome', { replace: true });
} else {
  navigate('/Signup', { replace: true });
}
};
return (
  <div>
    <h1>Login</h1>
    <div id="box">
      <form autoComplete='off' onSubmit={handleFormSubmit}>
        Username:<br />
        <input type="text" required value={username} onChange={(e) =>
setUsername(e.target.value)}/><br /><br />
        Password:<br />
        <input type="password" required value={password} onChange={(e) =>
setPassword(e.target.value)}/><br /><br />
        <input type="submit" value="Login" />
      </form>
    </div>
  </div>
);
};

```

export default Login;

### **Signup.js**

```

import './App.css';
import { BrowserRouter as Router, Route, useNavigate, Routes } from 'react-router-dom';
const Signup = () => {
  const navigate = useNavigate();

```

```

const handleFormSubmit = (e) => {
  navigate('/Welcome', { replace: true });
};
return (
  <div>
    <h1>Sign Up</h1>
    <div id="box">
      <form autoComplete="off" onSubmit={handleFormSubmit}>
        Username:<br />
        <input type="text" required /><br /><br />
        Email:<br />
        <input type="text" required /><br /><br />
        Password:<br />
        <input type="password" required /><br /><br />
        <input type="submit" value="Register" />
      </form>
    </div>
  </div>
);
};
export default Signup;

```

### **Welcome.js**

```

import React from 'react';
const Welcome = () => {
  return (
    <div>
      <h1>Welcome to REC!</h1>
    </div>
  );
};
export default Welcome;

```

### **App.css**

```
#box{  
  border:2px solid black;  
  height:300px;  
  width:300px;  
  position:absolute;  
  left:470px;  
  top:150px;  
  font-size:20px;  
  padding:20px;  
}  
input[type="submit"]{  
  font-size:20px;  
}
```

### **Index.js**

```
import React from 'react';  
import { createRoot } from 'react-dom/client';  
import App from './App';  
const root = document.getElementById('root');  
const reactRoot = createRoot(root);  
reactRoot.render(<App />);
```

**Design:**

Username:

Password:

Login

Username:

Email:

Password:

Register

**Welcome to REC!**

**Result:**

Thus the given design was successfully developed and the output was verified.