Ex. No: 13 Reg. No: 220701017

Date:

ReactJS

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;
```

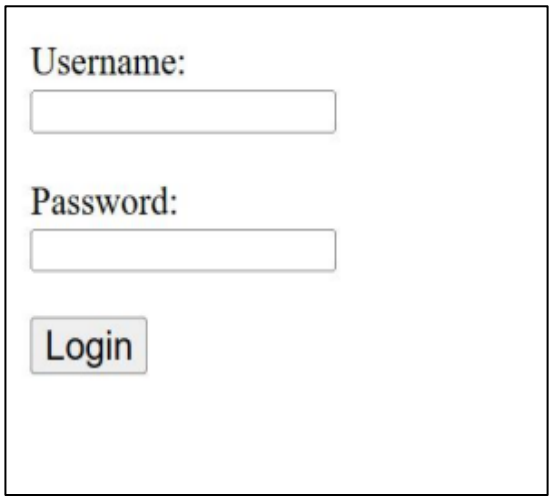
App.css

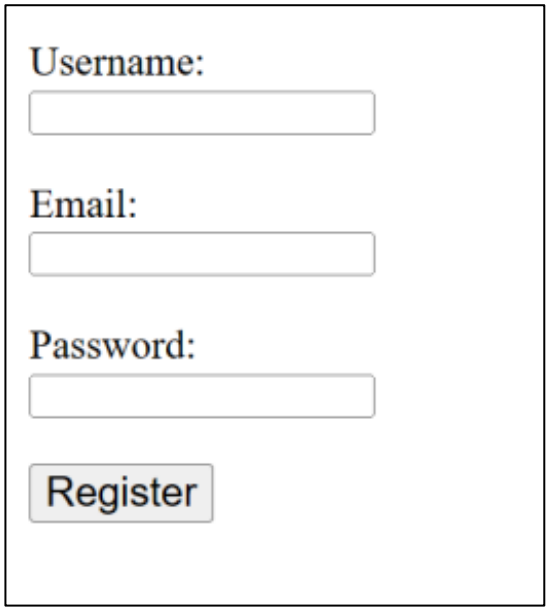
```
#box{
  border:2px solid black;
  height:300px;
  width:300px;
  position:absolute;
  left:470px;
  top:150px;
  font-size:20px;
  padding:20px;
}
input[type="submit"]{
  font-size:20px;
}
```

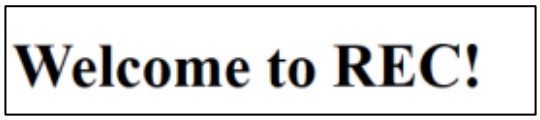
Index.js

```
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:







Result:

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