Web Programming
Lab – 14
React

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Course Code: BCSE203E
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Question:

1. **Develop a React component to display:**
   a) An image from the `public/Images` folder
   b) An image from the `src/Images` folder
2. **Build a React component to design the following form.**

Novell Services Login

Username: _____

Password: _____

City of Employment: _____

Web server: — Choose a server — ▾

Please specify your role:
- ○ Admin
- ○ Engineer
- ○ Manager
- ○ Guest

Single Sign-on to the following:
- ☐ Mail
- ☐ Payroll
- ☐ Self-service

[Login] [Reset]

3. **Create a User Profile Page** using React with multiple components. The components to Create are as follows:

i) **ProfileImage.js** → Displays the user's profile picture.
ii) **UserInfo.js** → Displays user details (name, email, bio).
iii) **UserPosts.js** → Displays a list of posts by the user.
iv) **ProfilePage.js** → Combines all the above components to form the complete profile page.
v) **Index.js** – Renders the **ProfilePage** component as the main parent component.

Code:

App.js

```jsx
import React from "react";
import { DisplayImages, UserForm, ProfilePage } from "./ProfileComponents";

function App() {
  return (
    <div>
      <h1>Part 1</h1>
      <DisplayImages />
      <h1>Part 2</h1>
      <UserForm />
      <h1>Part 3</h1>
      <ProfilePage />
    </div>
  );
}

export default App;
```

Index.js

```jsx
import React from 'react';
import ReactDOM from 'react-dom/client';
import './index.css';
import App from './App';
import reportWebVitals from './reportWebVitals';

const root = ReactDOM.createRoot(document.getElementById('root'));
root.render(
```

```
  <React.StrictMode>
    <App />
  </React.StrictMode>
);

// If you want to start measuring performance in your app, pass a function
// to log results (for example: reportWebVitals(console.log))
// or send to an analytics endpoint. Learn more: https://bit.ly/CRA-vitals
reportWebVitals();
```

ProfileComponents.js

```jsx
import React from "react";

// 1. Display images from different folders
const DisplayImages = () => {
  return (
    <div>
      <h2>Images from Different Folders</h2>
      <img
        src={process.env.PUBLIC_URL + "/Images/public-image.jpg"}
        alt="Public Folder"
        width="200"
      />
      <br />
      <img
        src={require("./Images/src-image.jpg")}
        alt="Src Folder"
        width="200"
      />
    </div>
  );
};
```

```jsx
// 2. Form Component
const UserForm = () => {
  return (
    <div style={{ width: '300px', margin: '0 auto', fontFamily: 'Arial, sans-serif' }}>
      <h2 style={{ textAlign: 'center' }}>Novell Services Login</h2>
      <form>
        {/* Username */}
        <label htmlFor="username">Username:</label>
        <br />
        <input type="text" id="username" name="username" style={{ width: '100%' }} />
        <br /><br />

        {/* Password */}
        <label htmlFor="password">Password:</label>
        <br />
        <input type="password" id="password" name="password" style={{ width: '100%' }} />
        <br /><br />

        {/* City of Employment */}
        <label htmlFor="city">City of Employment:</label>
        <br />
        <input type="text" id="city" name="city" style={{ width: '100%' }} />
        <br /><br />

        {/* Web Server */}
        <label htmlFor="server">Web server:</label>
        <br />
        <select id="server" name="server" style={{ width: '100%' }}>
          <option value="">-- Choose a server --</option>
          {/* Add more options as needed */}
        </select>
        <br /><br />

        {/* Role Selection */}
        <p>Please specify your role:</p>
        <input type="radio" id="admin" name="role" value="Admin" />
        <label htmlFor="admin">Admin</label>
        <br />
        <input type="radio" id="engineer" name="role" value="Engineer" />
        <label htmlFor="engineer">Engineer</label>
```

```jsx
                    <br />
                    <input type="radio" id="manager" name="role" value="Manager" />
                    <label htmlFor="manager">Manager</label>
                    <br />
                    <input type="radio" id="guest" name="role" value="Guest" />
                    <label htmlFor="guest">Guest</label>
                    <br /><br />

                    {/* Single Sign-on Options */}
                    <p>Single Sign-on to the following:</p>
                    <input type="checkbox" id="mail" name="ssoMail" value="Mail" />
                    <label htmlFor="mail">Mail</label>
                    <br />
                    <input type="checkbox" id="payroll" name="ssoPayroll" value="Payroll" />
                    <label htmlFor="payroll">Payroll</label>
                    <br />
                    <input type="checkbox" id="selfService" name="ssoSelfService" value="Self-service" />
                    <label htmlFor="selfService">Self-service</label>
                    <br /><br />

                    {/* Buttons */}
                    <div style={{ textAlign: 'center' }}>
                      <button type="submit">Login</button>
                       
                      <button type="reset">Reset</button>
                    </div>
                </form>
            </div>
        );
};

// 3. User Profile Page Components
const ProfileImage = () => {
  return (
    <img src={require("./Images/profile.jpg")} alt="Profile" width="150" />
  );
};

const UserInfo = ({ name, email, bio }) => {
  return (
    <div>
      <h2>{name}</h2>
      <p>Email: {email}</p>
      <p>Bio: {bio}</p>
    </div>
  );
};

const UserPosts = ({ posts }) => {
  return (
    <div>
      <h3>User Posts</h3>
      <ul>
        {posts.map((post, index) => (
          <li key={index}>{post}</li>
        ))}
      </ul>
    </div>
  );
};

const ProfilePage = () => {
  const user = {
    name: "Sushen Grover",
    email: "sushen.grover2023@vitstudent.ac.in",
    bio: "A passionate developer.",
    posts: ["First Post", "Second Post", "Third Post"],
  };

  return (
    <div>
      <ProfileImage />
```

```
      <UserInfo name={user.name} email={user.email} bio={user.bio} />
      <UserPosts posts={user.posts} />
    </div>
  );
};
```

```
export { DisplayImages, UserForm, ProfilePage };
```

ProfileImage.js

```
// ProfileImage.js
import React from "react";

const ProfileImage = () => {
  return (
    <img
      src={require("./Images/profile.jpg")}
      alt="Profile"
      width="150"
      style={{ borderRadius: "50%" }}
    />
  );
};
```

```
export default ProfileImage;
```

ProfilePage.js

```
// ProfilePage.js
import React from "react";
import ProfileImage from "./ProfileImage";
import UserInfo from "./UserInfo";
import UserPosts from "./UserPosts";

const ProfilePage = () => {
  const user = {
    name: "Sushen Grover",
    email: "sushen.grover2023@vitstudent.ac.in",
    bio: "A passionate developer.",
    posts: ["First Post", "Second Post", "Third Post"],
  };
```

```
  return (
    <div style={{ textAlign: "center", fontFamily: "Arial, sans-serif" }}>
      <ProfileImage />
      <UserInfo name={user.name} email={user.email} bio={user.bio} />
      <UserPosts posts={user.posts} />
    </div>
  );
};
```

```
export default ProfilePage;
```

UserInfo.js

```
// UserInfo.js
import React from "react";

const UserInfo = ({ name, email, bio }) => {
  return (
    <div>
      <h2>{name}</h2>
      <p>Email: {email}</p>
      <p>Bio: {bio}</p>
    </div>
  );
};
```

```
export default UserInfo;
```

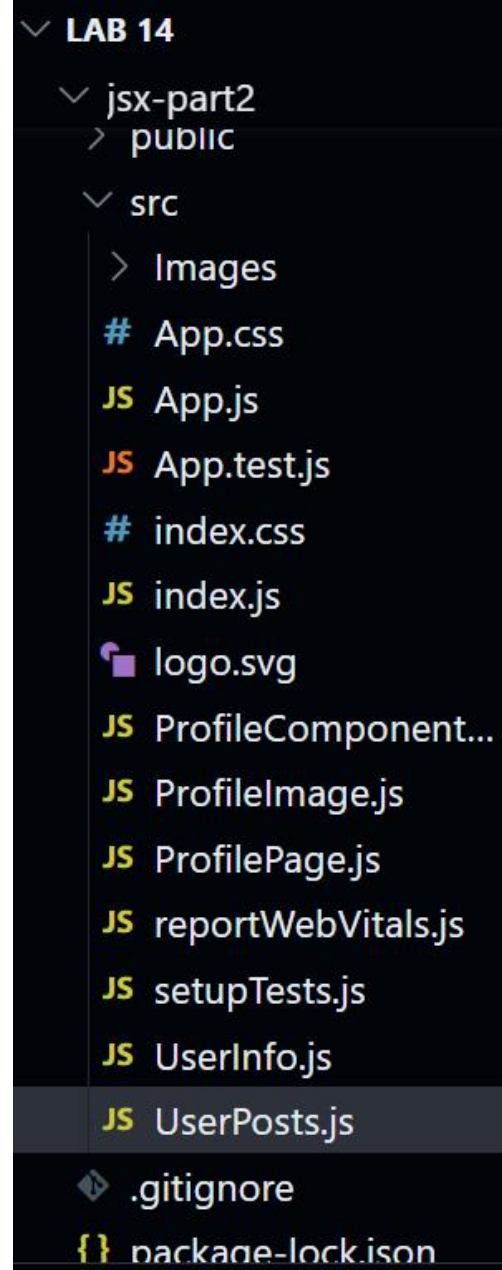## UserPosts.js

```
// UserPosts.js
import React from "react";

const UserPosts = ({ posts }) => {
  return (
    <div>
```

```jsx
      <h3>User Posts</h3>
      <ul>
        {posts.map((post, index) => (
          <li key={index}>{post}</li>
        ))}
      </ul>
    </div>
  );
};
```

```jsx
export default UserPosts;
```

Output:

Part 1

Images from Different Folders

Part 2

Novell Services Login

Username:

[   ]

Password:

[   ]

City of Employment:

[   ]

Web server:

[-- Choose a server -- ▼]

Please specify your role:

○ Admin
○ Engineer
○ Manager
○ Guest

Single Sign-on to the following:

☐ Mail
☐ Payroll
☐ Self-service

[Login] [Reset]

Part 3

Sushen Grover

Email: sushen.grover2023@vitstudent.ac.in

Bio: A passionate developer.

User Posts

- First Post
- Second Post
- Third Post