

Web Programming Lab (BCSE203E)

LAB – 14

JSX – Part 2

1. Develop a React component to display:

- a) An image from the public/Images folder
- b) An image from the src/Images

Code:

DisplayImages.jsx

```
import React from "react";  
import srcImage from "../Images/src-image.jpeg"; // Importing from  
src
```

```
const DisplayImages = () => {  
  return (  
    <div>  
      <h2>A) Image from Public Folder</h2>  
      { /* Better way to reference public images */ }  
        
  
      <h2>B) Image from Src Folder</h2>  
      { /* Src image - Imported directly */ }  
      <img src={srcImage} alt="Src Image" width="300" />  
    </div>  
  );  
}
```

```
        </div>
    );
};

export default DisplayImages;
```

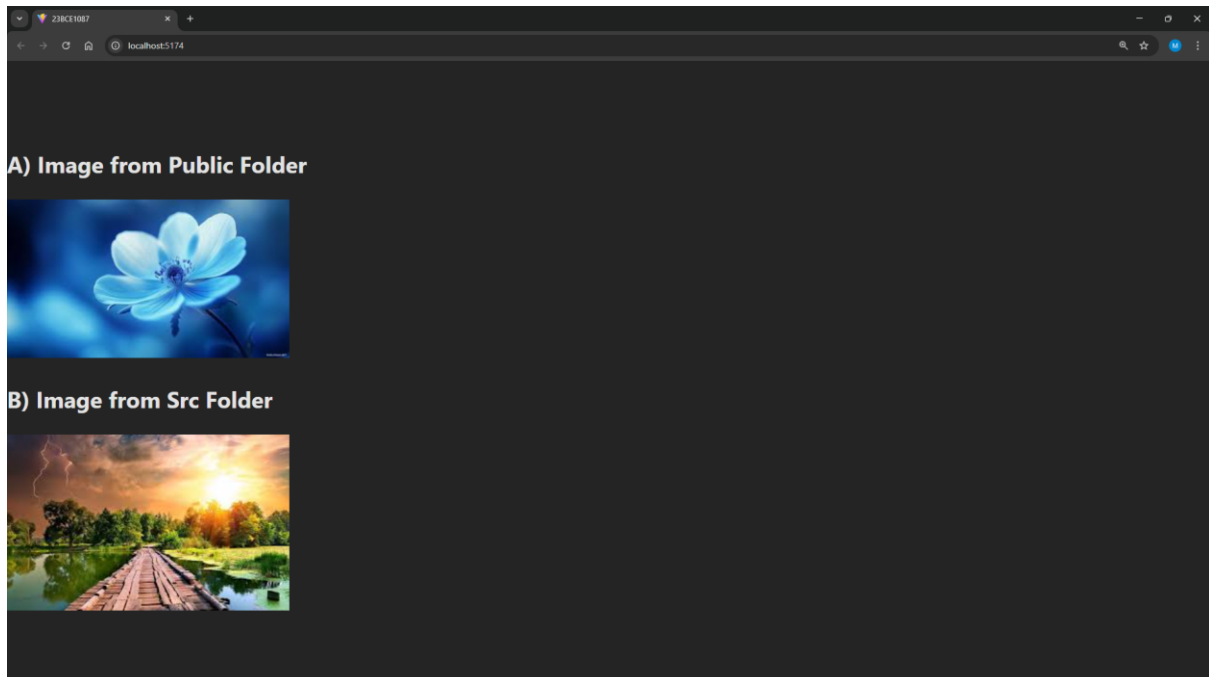
App.jsx

```
import React from "react";
import DisplayImages from "../components/DisplayImages";

function App() {
    return (
        <div>
            <DisplayImages />
        </div>
    );
}

export default App;
```

Output:



2. Build a React component to design the following form.

Novell Services Login

Username:

Password:

City of
Employment:

Web server:

Please specify
your role:

☐ Admin

☐ Engineer

☐ Manager

☐ Guest

Single Sign-on
to the following:

☐ Mail

☐ Payroll

☐ Self-service

Code:

NovellLoginForm.jsx

```
import React, { useState } from "react";

const NovellLoginForm = () => {
  const [formData, setFormData] = useState({
    username: "",
    password: "",
    city: "",
    server: "",
    role: "",
    services: {
      mail: false,
      payroll: false,
      selfService: false,
    },
  });

  const handleChange = (e) => {
    const { name, value, type, checked } = e.target;
    if (type === "checkbox") {
      setFormData((prevState) => ({
        ...prevState,
        services: {
          ...prevState.services,
          [name]: checked,
        },
      }));
    }
  };
};
```

```

    } else {
      setFormData((prevState) => ({
        ...prevState,
        [name]: value,
      }));
    }
  };

const handleSubmit = (e) => {
  e.preventDefault();
  console.log("Form Submitted:", formData);
};

const handleReset = () => {
  setFormData({
    username: "",
    password: "",
    city: "",
    server: "",
    role: "",
    services: {
      mail: false,
      payroll: false,
      selfService: false,
    },
  });
};

return (
  <form

```

```
        onSubmit={handleSubmit}
        style={{ width: "300px", margin: "auto", textAlign:
"left" }}
      >
      <h2 style={{ textAlign: "center" }}>Novell Services
Login</h2>
```

```
    <label>
      Username:{" "}
      <input
        type="text"
        name="username"
        value={formData.username}
        onChange={handleChange}
      />
    </label>
    <br />
    <label>
      Password:{" "}
      <input
        type="password"
        name="password"
        value={formData.password}
        onChange={handleChange}
      />
    </label>
    <br />
    <label>
      City of Employment:{" "}
      <input
        type="text"
```

```
        name="city"
        value={formData.city}
        onChange={handleChange}
    />
</label>
<br />

<label>
    Web server:
    <select
        name="server"
        value={formData.server}
        onChange={handleChange}
    >
        <option value="">-- Choose a server --</option>
        <option value="Server1">Server 1</option>
        <option value="Server2">Server 2</option>
    </select>
</label>
<br />
<br />
```

<div>Please specify your role:</div>

```
<label>
    <input
        type="radio"
        name="role"
        value="Admin"
        checked={formData.role === "Admin"}
        onChange={handleChange}
```

```
        />{" "}
        Admin
    </label>
    <br />
    <label>
        <input
            type="radio"
            name="role"
            value="Engineer"
            checked={formData.role === "Engineer"}
            onChange={handleChange}
        />{" "}
        Engineer
    </label>
    <br />
    <label>
        <input
            type="radio"
            name="role"
            value="Manager"
            checked={formData.role === "Manager"}
            onChange={handleChange}
        />{" "}
        Manager
    </label>
    <br />
    <label>
        <input
            type="radio"
            name="role"
```



```
        value="Guest"
        checked={formData.role === "Guest"}
        onChange={handleChange}
      />{" "}
      Guest
    </label>
    <br />
    <br />
```

```
<div>Single Sign-on to the following:</div>
```

```
<label>
  <input
    type="checkbox"
    name="mail"
    checked={formData.services.mail}
    onChange={handleChange}
  />{" "}
  Mail
</label>
<br />
<label>
  <input
    type="checkbox"
    name="payroll"
    checked={formData.services.payroll}
    onChange={handleChange}
  />{" "}
  Payroll
</label>
<br />
```

```

        <label>
            <input
                type="checkbox"
                name="selfService"
                checked={formData.services.selfService}
                onChange={handleChange}
            />{" "}
            Self-service
        </label>
        <br />
        <br />

        <button type="submit">Login</button>
        <button
            type="button"
            onClick={handleReset}
            style={{ marginLeft: "10px" }}
        >
            Reset
        </button>
    </form>
);
};

export default NovellLoginForm;

```

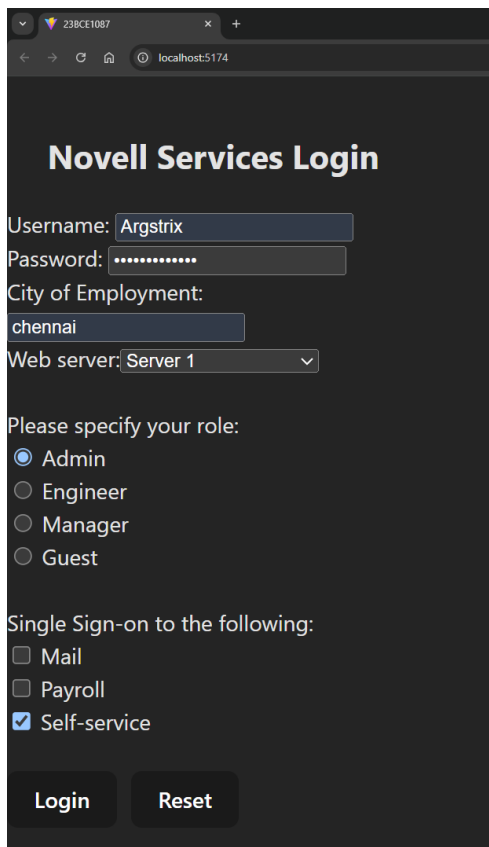
App.jsx

```
import React from "react";
import NovellLoginForm from "../NovellLoginForm";

function App() {
  return (
    <div>
      <NovellLoginForm />
    </div>
  );
}

export default App;
```

Output:



The screenshot shows a web browser window with the address bar displaying 'localhost:5174'. The page title is 'Novell Services Login'. The form contains the following fields and options:

- Username:
- Password:
- City of Employment:
- Web server:
- Please specify your role:
 - ☒ Admin
 - ☐ Engineer
 - ☐ Manager
 - ☐ Guest
- Single Sign-on to the following:
 - ☐ Mail
 - ☐ Payroll
 - ☒ Self-service
- Buttons: and

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 :

ProfileImage.jsx

```
import React from "react";

const ProfileImage = ({ imageUrl }) => {
  return <img src={imageUrl} alt="Profile" className="profile-image" />;
};

export default ProfileImage;
```

UserInfo.jsx

```
import React from "react";

const UserInfo = ({ name, email, bio }) => {
  return (
    <div className="user-info">
      <h2>{name}</h2>
      <p>Email: {email}</p>
      <p>{bio}</p>
    </div>
  );
};

export default UserInfo;
```

UserPosts.jsx

```
import React from "react";

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

export default UserPosts;
```

ProfilePage.jsx

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

const ProfilePage = () => {
  const user = {
    imageUrl: "../public/Images/public-image.jpeg",
    name: "Madhan",
    email: "argstrix@devmount.com",
```

```

        bio: "student@scopeUni",
        posts: [
            "It's always dark till you turn on light",
            "Truth is relative",
            "Complex yet simple:)",
        ],
    };

    return (
        <div className="profile-page">
            <ProfileImage imageUrl={user.imageUrl} />
            <UserInfo name={user.name} email={user.email}
bio={user.bio} />
            <UserPosts posts={user.posts} />
        </div>
    );
};

export default ProfilePage;

```

index.jsx

```

import React from "react";
import ReactDOM from "react-dom/client";
import ProfilePage from "../ProfilePage";
import "../styles.css";

ReactDOM.createRoot(document.getElementById("root")).render(
    <React.StrictMode>
        <ProfilePage />
    </React.StrictMode>
);

```

styles.css

```
.profile-page {  
    width: 60%;  
    margin: 50px auto;  
    text-align: center;  
    padding: 20px;  
    border: 2px solid #ddd;  
    border-radius: 10px;  
    box-shadow: 0px 4px 8px rgba(0, 0, 0, 0.1);  
}
```

```
.profile-image {  
    width: 150px;  
    height: 150px;  
    border-radius: 50%;  
    border: 3px solid #4caf50;  
    margin-bottom: 15px;  
}
```

```
.user-info h2 {  
    color: #333;  
    margin-bottom: 5px;  
}
```

```
.user-info p {  
    font-size: 16px;  
    color: #666;  
}
```

```

.user-posts {
    margin-top: 20px;
}

.user-posts h3 {
    font-size: 20px;
    color: #4caf50;
}

.user-posts ul {
    list-style: none;
    padding: 0;
}

.user-posts li {
    background-color: #f9f9f9;
    margin: 5px auto;
    padding: 10px;
    width: 80%;
    border-radius: 5px;
    box-shadow: 0px 2px 5px rgba(0, 0, 0, 0.1);
}

```

Output:

