Web Programming
Exercise 14

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Course Code and Title: BCSE203E
Slot: TE1

1) Develop a React component to display:

   a) An image from the public/Images folder

   b) An image from the src/Images folder

Code:

   1) PublicImage.js

```
import React from "react";

const PublicImage = () => {
  return (
    <div>
      <h2>Image from Public Folder</h2>
      <img src="/Images/test.jpeg" alt="Public Folder Image" width="300" />
    </div>
  );
};

export default PublicImage;
```
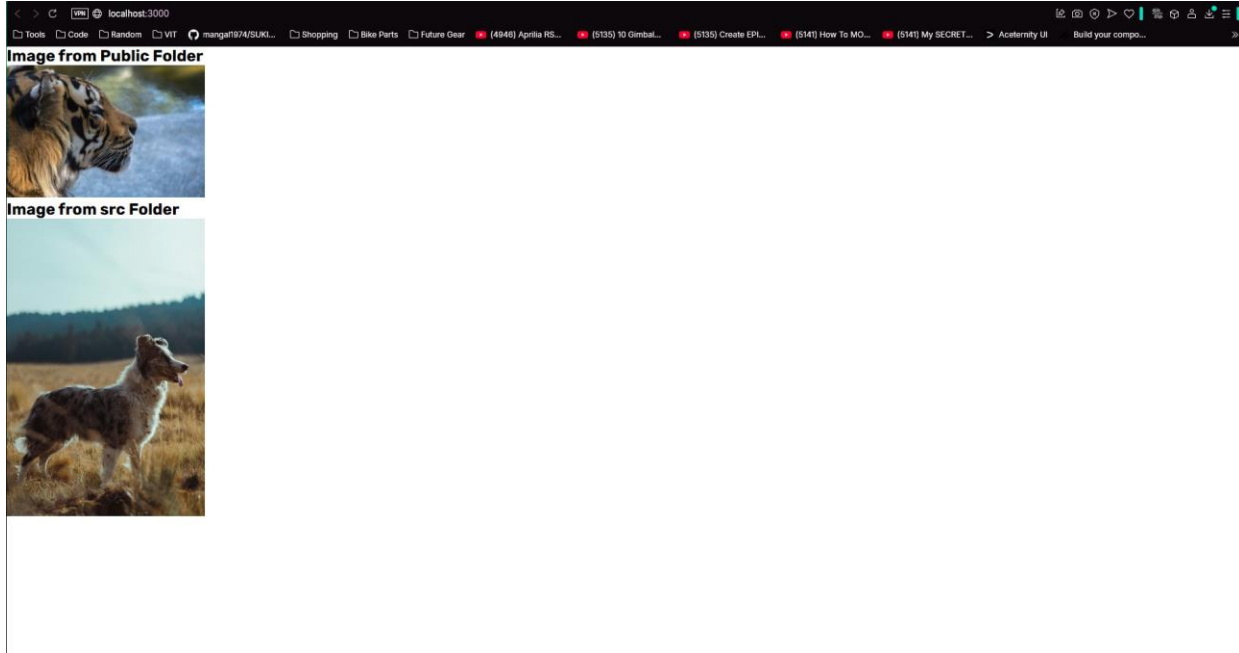
   2) SrcImage.js

```
import React from "react";
import SampleImage from "../Images/test2.jpg";

const SrcImage = () => {
  return (
    <div>
      <h2>Image from src Folder</h2>
      <img src={SampleImage} alt="Src Folder Image" width="300" />
    </div>
  );
};
```

```
export default SrcImage;
```

Output:

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

Code:

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

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

  const handleChange = (e) => {
    const { name, value, type, checked } = e.target;

    if (type === "checkbox") {
      setFormData({
        ...formData,
        signOn: { ...formData.signOn, [name]: checked },
      });
    } else {
      setFormData({ ...formData, [name]: value });
    }
  };

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

  return (
    <div
      style={{
        width: "500px",
        margin: "20px auto",
        fontFamily: "Arial, sans-serif",
        display: "flex",
        flexDirection: "column",
        gap: "1rem",
      }}
```

```
    >
     <h2 style={{ textAlign: "center" }}>Novell Services Login</h2>
     <form
      onSubmit={handleSubmit}
      style={{
       display: "flex",
       flexDirection: "column",
       gap: "1rem",
      }}
    >
      <div
       style={{
        display: "flex",
        gap: "1rem",
       }}
     >
       <label>Username:</label>
       <input
        type="text"
        name="username"
        value={formData.username}
        onChange={handleChange}
      />
      </div>
      <div
       style={{
        display: "flex",
        gap: "1rem",
       }}
     >
       <label>Password:</label>
       <input
        type="password"
        name="password"
        value={formData.password}
        onChange={handleChange}
      />
      </div>
      <div
       style={{
        display: "flex",
        gap: "1rem",
       }}
     >
       <label>City of Employment:</label>
       <input
```

```
        type="text"
        name="city"
        value={formData.city}
        onChange={handleChange}
      />
    </div>
    <div
      style={{
        display: "flex",
        gap: "1rem",
      }}
    >
      <label>Web Server:</label>
      <select
        name="webServer"
        value={formData.webServer}
        onChange={handleChange}
      >
        <option value="">-- Choose a server --</option>
        <option value="server1">Server 1</option>
        <option value="server2">Server 2</option>
      </select>
    </div>

    <fieldset>
      <legend>Please specify your role:</legend>
      <div
        style={{
          display: "flex",
          gap: "1rem",
          margin: "1rem",
        }}
      >
        <label>
          <input
            type="radio"
            name="role"
            value="Admin"
            onChange={handleChange}
          />{" "}
          Admin
        </label>
        <label>
          <input
            type="radio"
            name="role"
```

```jsx
          value="Engineer"
          onChange={handleChange}
        />{" "}
        Engineer
      </label>
      <label>
       <input
        type="radio"
        name="role"
        value="Manager"
        onChange={handleChange}
       />{" "}
       Manager
      </label>
      <label>
       <input
        type="radio"
        name="role"
        value="Guest"
        onChange={handleChange}
       />{" "}
       Guest
      </label>
     </div>
    </fieldset>

    <fieldset>
     <legend>Single Sign-on to the following:</legend>
     <div
      style={{
       display: "flex",
       gap: "1rem",
       margin: "1rem",
      }}
     >
      <label>
       <input
        type="checkbox"
        name="mail"
        checked={formData.signOn.mail}
        onChange={handleChange}
       />{" "}
       Mail
      </label>
      <label>
       <input
```

```
                type="checkbox"
                name="payroll"
                checked={formData.signOn.payroll}
                onChange={handleChange}
              />{" "}
              Payroll
            </label>
            <label>
              <input
                type="checkbox"
                name="selfService"
                checked={formData.signOn.selfService}
                onChange={handleChange}
              />{" "}
              Self-service
            </label>
          </div>
        </fieldset>

        <div
          style={{
            textAlign: "center",
            display: "flex",
            gap: "1rem",
          }}
        >
          <button type="submit">Login</button>
          <button
            type="reset"
            onClick={() =>
            setFormData({
                username: "",
                password: "",
                city: "",
                webServer: "",
                role: "",
                signOn: { mail: false, payroll: false, selfService: false },
              })
            }
          >
            Reset
          </button>
        </div>
      </form>
    </div>
  );
```

```
};

export default LoginForm;
```

Output:

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:

  1) ProfileImage.js

```
import React from "react";

const ProfileImage = ({ imageUrl }) => {
  return (
```

```
      <img
        src={imageUrl}
        alt="Profile"
        width="150"
        height={150}
        style={{ borderRadius: "50%", objectFit: "cover" }}
      />
    );
  };

  export default ProfileImage;
```

2) 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;
```

3) UserPosts.js

```
import React from "react";

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

export default UserPosts;
```

4) ProfilePage.js

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

const ProfilePage = () => {
  const user = {
    name: "Venkatesh B",
    email: "venkatesh@gmail.com",
    bio: "University Student passionate about React.",
    imageUrl: "/Images/test.jpeg",
    posts: ["Learning React!", "Building a profile page", "React is awesome!"],
  };

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

export default ProfilePage;
```

Output: