

Web Lab Exercise14

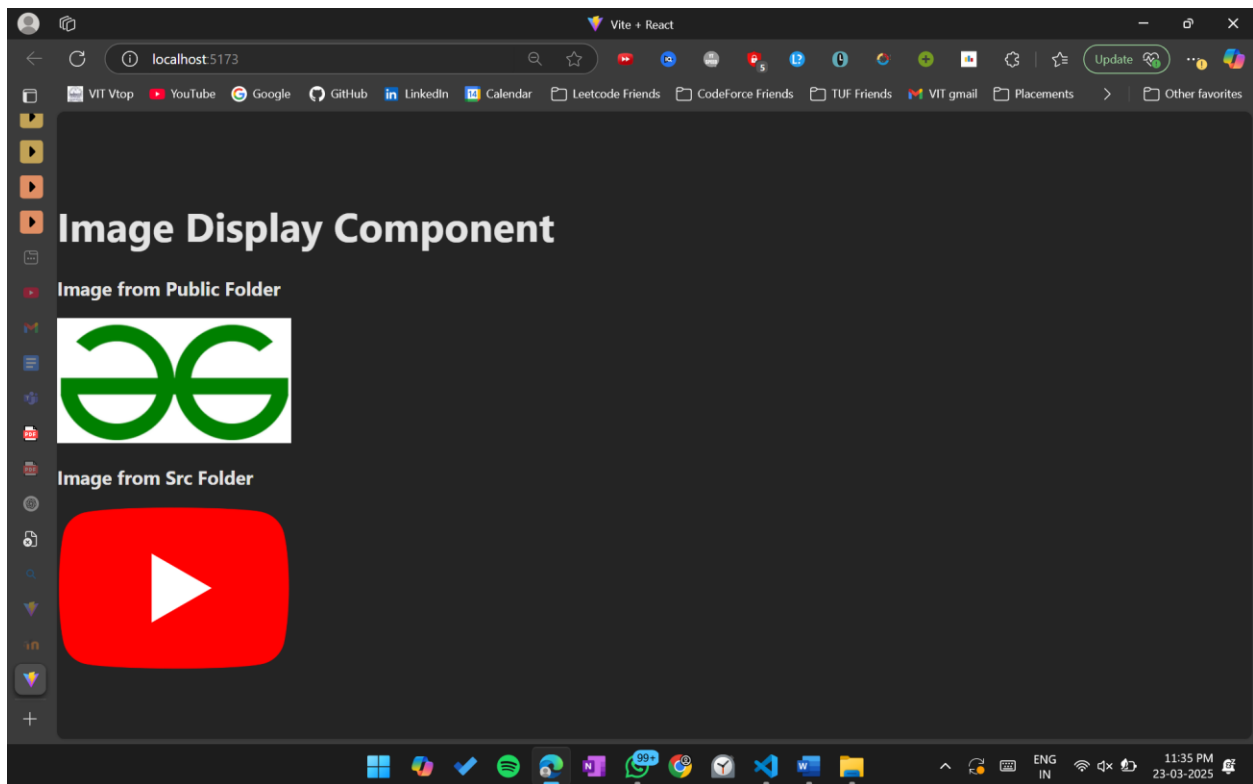


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Subject	Web Programming
Slot	L15+L16+L19+L20
Venue	AB3 – 202

1. Develop a React component to display:
- a) An image from the public/Images folder
 - b) An image from the src/Images folder

```
import React from 'react';
import srcImage from './Images/Character_3.png';
function ImageDisplay() {
  return (
    <div>
      <h2>Image from Public Folder</h2>
      
      <h2>Image from Src Folder</h2>
      <img
        src={srcImage}
        alt="Src Folder"
        style={{ width: '300px', height: 'auto' }}
      />
    </div>
  );
}

export default function App() {
  return (
    <div>
      <h1>Image Display Component</h1>
      <ImageDisplay />
    </div>
  );
}
```



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

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

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

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

    if (type === 'checkbox') {
      setFormData((prevData) => ({
        ...prevData,
        singleSignOn: {
          ...prevData.singleSignOn,
          [name]: checked,
        },
      }));
    } else {
      setFormData((prevData) => ({ ...prevData, [name]: value }));
    }
  };

  const handleSubmit = (e) => {
    e.preventDefault();
    console.log('Form Data:', formData);
    alert('Login submitted successfully!');
  };

  const handleReset = () => {
    setFormData({
      username: '',

```

```

password: '',
city: '',
webServer: '',
role: '',
singleSignOn: {
  mail: false,
  payroll: false,
  selfService: false,
},
});
};

return (
  <div>
    <h2>Novell Services Login</h2>
    <form onSubmit={handleSubmit}>
      <label htmlFor="username">Username:</label>
      <input
        type="text"
        id="username"
        name="username"
        value={formData.username}
        onChange={handleChange}
        required
      />
      <br />
      <br />
      <label htmlFor="password">Password:</label>
      <input
        type="password"
        id="password"
        name="password"
        value={formData.password}
        onChange={handleChange}
        required
      />
      <br />
      <br />
      <label htmlFor="city">City of Employment:</label>
      <input
        type="text"

```

```

        id="city"
        name="city"
        value={formData.city}
        onChange={handleChange}
        required
    />
<br />
<br />
<label htmlFor="webServer">Web server:</label>
<select
    id="webServer"
    name="webServer"
    value={formData.webServer}
    onChange={handleChange}
    required
>
    <option value="">-- Choose a server --</option>
    <option value="server1">Server 1</option>
    <option value="server2">Server 2</option>
    <option value="server3">Server 3</option>
</select>
<p>Please specify your role:</p>
<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>

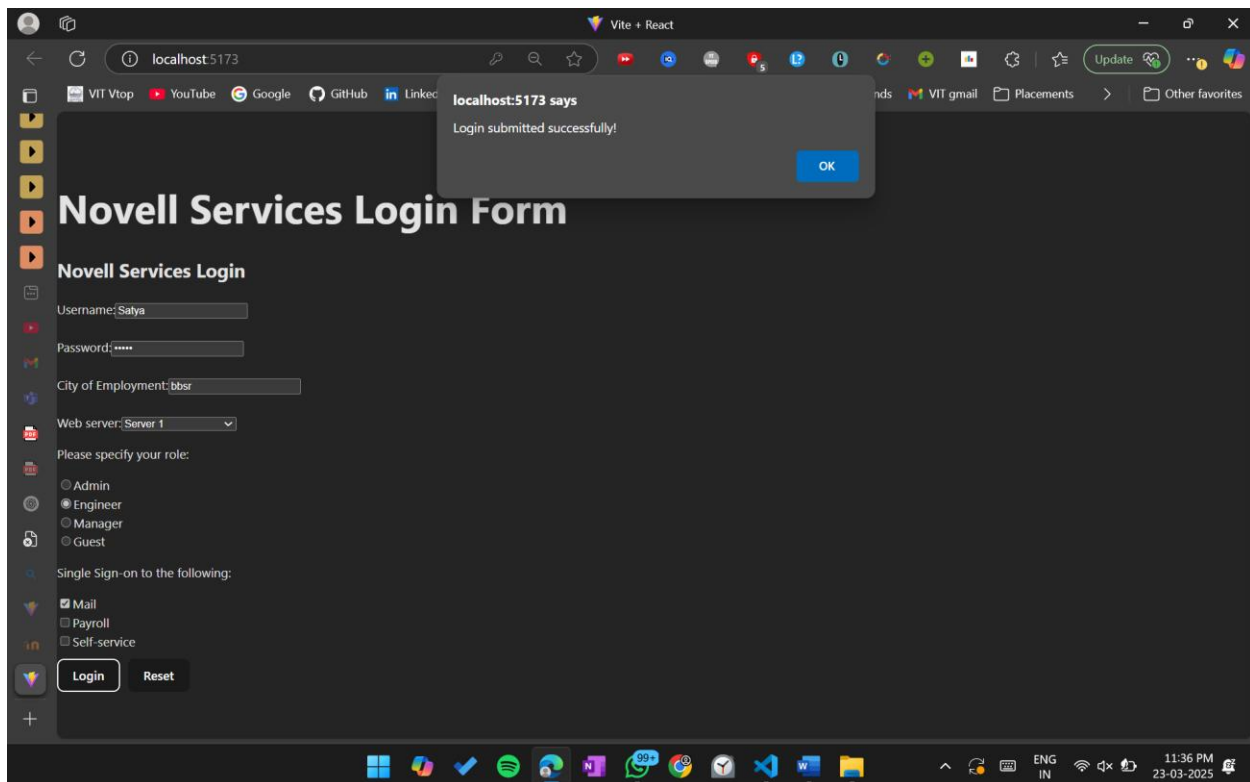
<p>Single Sign-on to the following:</p>
<label>
  <input
    type="checkbox"
    name="mail"
    checked={formData.singleSignOn.mail}
    onChange={handleChange}
  />
  Mail
</label>
<br />
<label>
  <input
    type="checkbox"
    name="payroll"
    checked={formData.singleSignOn.payroll}
```

```

        onChange={handleChange}
      />
      Payroll
    </label>
    <br />
    <label>
      <input
        type="checkbox"
        name="selfService"
        checked={formData.singleSignOn.selfService}
        onChange={handleChange}
      />
      Self-service
    </label>
    <div style={{ marginTop: '10px' }}>
      <button type="submit">Login</button>
      <button type="button" onClick={handleReset} style={{ marginLeft:
'10px' }}>
        Reset
      </button>
    </div>
  </form>
</div>
);
}

export default function App() {
  return (
    <div>
      <h1>Novell Services Login Form</h1>
      <LoginForm />
    </div>
  );
}

```

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.**

a. ProfileImage.js

```
import React from 'react';

const ProfileImage = ({ imageUrl }) => {
  return (
    <div>
      <img
        src={imageUrl}
        alt="User Profile"
        style={{ width: '150px', height: '150px', borderRadius: '50%' }}
      />
    </div>
  );
};
```

```
};

export default ProfileImage;
```

b. UserInfo.js

```
import React from 'react';

const UserInfo = ({ name, email, bio }) => {
  return (
    <div style={{ margin: '20px 0' }}>
      <h2>{name}</h2>
      <p><strong>Email:</strong> {email}</p>
      <p><strong>Bio:</strong> {bio}</p>
    </div>
  );
};

export default UserInfo;
```

c. UserPosts.js

```
import React from 'react';

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

export default UserPosts;
```

d. ProfilePage.js

```
import React from 'react';
```

```

import ProfileImage from './ProfileImage';
import UserInfo from './UserInfo';
import UserPosts from './UserPosts';

const ProfilePage = () => {
  const user = {
    name: 'Saumya Gupta',
    email: 'saumya@example.com',
    bio: 'A passionate developer who loves building web applications.',
    imageUrl: 'https://placeholder.co/600x400',
  };

  const posts = [
    { title: 'Post 1', content: 'This is the content of the first post.' },
    { title: 'Post 2', content: 'This is the content of the second post.' },
  ],
  { title: 'Post 3', content: 'This is the content of the third post.' },
  ];

  return (
    <div style={{ padding: '20px', fontFamily: 'Arial, sans-serif' }}>
      <h1>User Profile</h1>
      <ProfileImage imageUrl={user.imageUrl} />
      <UserInfo name={user.name} email={user.email} bio={user.bio} />
      <UserPosts posts={posts} />
    </div>
  );
};

export default ProfilePage;

```

e. Index.js

```

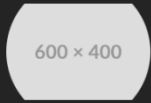
import React from 'react';
import ReactDOM from 'react-dom';
import ProfilePage from './ProfilePage';

ReactDOM.render(
  <React.StrictMode>
    <ProfilePage />
  </React.StrictMode>

```

```
</React.StrictMode>,  
document.getElementById('root')  
);
```

User Profile



Satya

Email: satya@example.com

Bio: I love coding.

User Posts

- **Post 1:** This is the content of the first post.
- **Post 2:** This is the content of the second post.
- **Post 3:** This is the content of the third post.