

## Hands-on 15

### Objectives

- Explain about React forms
- Define controlled components
- Explain about various input controls
- Explain about handling forms
- Explain about submitting forms

In this hands-on lab, you will learn how to:

- Implement React forms
- Use various input controls like textbox, button and textarea

### Prerequisites

The following is required to complete this hands-on lab:

- Node.js
- NPM
- Visual Studio Code

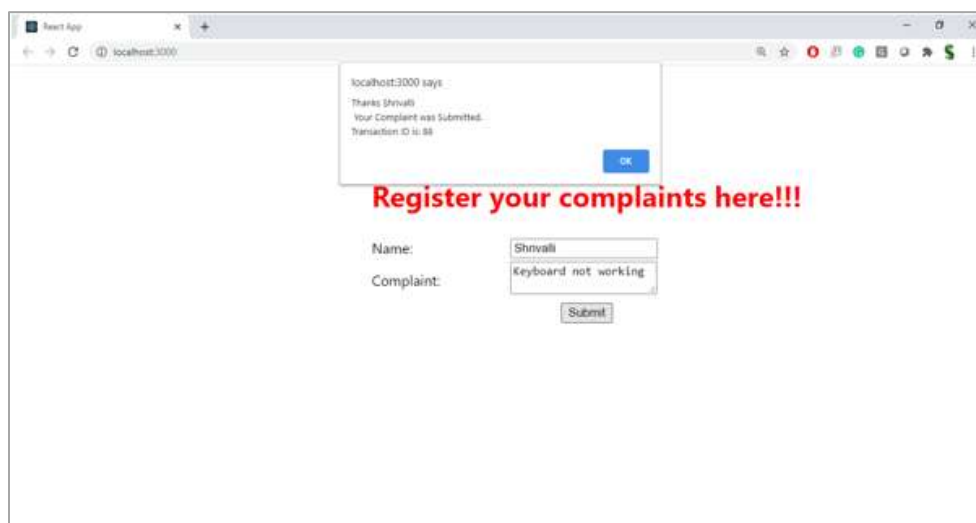
### Notes

Estimated time to complete this lab: **60 minutes.**

Create a React App named “ticketraisingapp” which will help to raise a complaint and get it resolved.

Create a component named “ComplaintRegister” with a form containing a textbox to enter the employee name and a textarea to enter the complaint. Use “handleSubmit” event of the button to submit the complaint and generate a Reference number for further follow ups in the alert box.

### Output Expected:

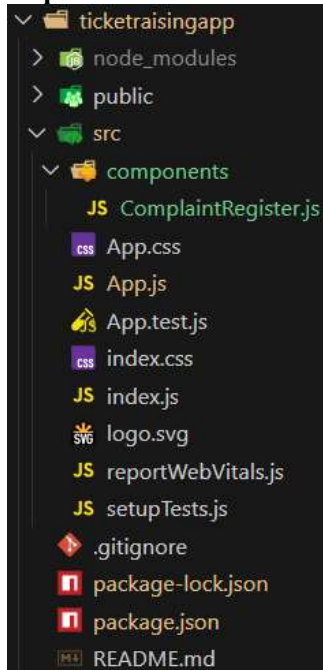


### Hint:

```
handleChange(event) {  
  this.setState({ [event.target.name] : event.target.value});  
}
```

```
handleSubmit(event) {  
  var msg='Thanks ' + this.state.ename + ' \n Your Complaint was Submitted  
ID is: ' + this.state.NumberHolder;  
  alert(msg);  
  event.preventDefault();  
}
```

### Implementation



```
ticketraisingapp  
├── node_modules  
├── public  
├── src  
│   ├── components  
│   │   ├── ComplaintRegister.js  
│   │   ├── App.css  
│   │   ├── App.js  
│   │   ├── App.test.js  
│   │   ├── index.css  
│   │   ├── index.js  
│   │   ├── logo.svg  
│   │   ├── reportWebVitals.js  
│   │   └── setupTests.js  
│   ├── .gitignore  
│   ├── package-lock.json  
│   ├── package.json  
│   └── README.md
```

### App.js

```
import ComplaintRegister from './components/ComplaintRegister';
```

```
function App() {  
  return (  
    <div style={{ textAlign: 'center', marginTop: '50px' }}>  
      <h1>Ticket Raising App</h1>  
      <ComplaintRegister />  
    </div>  
  );  
}
```

```
export default App;
```

### ComplaintRegister.js

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

class ComplaintRegister extends Component {
  constructor(props) {
    super(props);
    this.state = {
      ename: "",
      complaint: "",
      numberHolder: ""
    };
  }

  handleChange = (event) => {
    this.setState({ [event.target.name]: event.target.value });
  };

  handleSubmit = (event) => {
    const referenceNumber = 'REF' + Math.floor(1000 + Math.random() * 9000);
    this.setState({ numberHolder: referenceNumber }, () => {
      const msg =
        'Thanks ' +
        this.state.ename +
        ', your complaint was submitted successfully.\nYour reference number is: ' +
        this.state.numberHolder;
      alert(msg);
    });
    event.preventDefault();
  };

  render() {
    return (
      <form onSubmit={this.handleSubmit} style={{ width: '50%', margin: '0 auto' }}>
        <div style={{ marginBottom: '10px' }}>
          <label>Employee Name:</label><br />
          <input
            type="text"
            name="ename"
            value={this.state.ename}
            onChange={this.handleChange}
            required
            style={{ width: '100%' }}
          />
        </div>
        <div style={{ marginBottom: '10px' }}>
          <label>Complaint:</label><br />
          <textarea
            name="complaint"
            value={this.state.complaint}
            onChange={this.handleChange}
            required
          />
        </div>
      </form>
    );
  }
}
```

```

        rows="4"
        style={{ width: '100%' }}
      />
    </div>
    <button type="submit">Submit Complaint</button>
  </form>
);
}
}

export default ComplaintRegister;

```

### Output:

