Hands-on 16

Objectives

- Explain React Forms validation
- Identify the differences between React Form and HTML Form
- Explain about controlled components
- Identify various React Form input controls
- Explain how to handle React Forms
- Explain about submitting forms in React

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

- Implement React forms validation
- 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

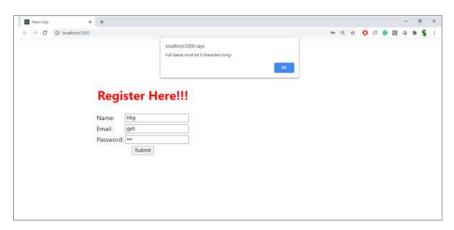
Estimated time to complete this lab: 60 minutes.

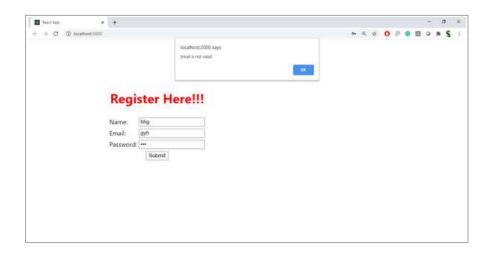
Create a React App named "mailregisterapp" which will have a component named "register.js". Create a form which accepts the name, email and password and validate the fields as per the following:

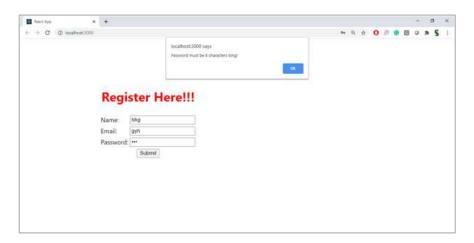
- 1. Name should have atleast 5 characters
- 2. Email should have @ and.
- 3. Password should have atleast 8 characters.

Ensure that validations are implemented through eventhandle and eventsubmit of a form.

Output Expected:







Hint:

```
handleSubmit = (event) => {
    event.preventDefault();
    if(validateForm(this.state.errors)) {
        alert("Valid Form")
    }else{
        if(this.state.errors.fullName!=")
        {alert(this.state.errors.fullName)}
        if(this.state.errors.email !=")
        {alert(this.state.errors.email)}
        if(this.state.errors.password !=")
        {alert(this.state.errors.password)}
    }
}
```

```
switch (name) {
    case 'fullName':
    errors.fullName =
    value.length < 5
    ? 'Full Name must be 5 characters long!'
    : ";
    break;
```

Implementation

```
mailregisterapp
> node_modules
> 🐞 public
∨ = src

✓ S components

    JS Register.js
   M App.css
   J5 App.js
   🚜 App.test.js
   index.css
   J5 index.js
   M logo.svg
   J5 reportWebVitals.js
   JS setupTests.js
   gitignore.
  package-lock json
  package ison
  ## README.md
```

App.js

Register.js

```
import React, { Component } from 'react';
class Register extends Component {
 constructor(props) {
  super(props);
  this.state = {
   fullName: ",
   email: ",
   password: ",
   errors: {
     fullName: ",
     email: ",
    password: "
   }
  };
 validateForm = (errors) => {
  return Object.values(errors).every((val) => val ==== ");
 };
 handleChange = (event) => {
  const { name, value } = event.target;
  const errors = { ...this.state.errors };
  switch (name) {
   case 'fullName':
     errors.fullName = value.length < 5 ? 'Full Name must be at least 5 characters long': ";
    break;
   case 'email':
     const \ validEmailRegex = /^[^\s@] + @[^\s@] + ..[^\s@] + \$/;
     errors.email = validEmailRegex.test(value)? ": 'Email is not valid';
    break;
   case 'password':
     errors.password = value.length < 8? 'Password must be at least 8 characters long': ";
     break;
   default:
     break;
  this.setState({ errors, [name]: value });
 };
 handleSubmit = (event) \Rightarrow \{
  event.preventDefault();
  if (this.validateForm(this.state.errors)) {
   alert('Valid Form');
  } else {
```

```
const { fullName, email, password } = this.state.errors;
   if (fullName !== ") alert(fullName);
   if (email !== ") alert(email);
   if (password !== ") alert(password);
 };
 render() {
  return (
   <form onSubmit={this.handleSubmit} style={{ width: '40%', margin: '0 auto' }}>
    <div style={{ marginBottom: '10px' }}>
      <label>Full Name:</label><br/>
      <input
       type="text"
       name="fullName"
       value={this.state.fullName}
       onChange={this.handleChange}
       required
       style={{ width: '100%' }}
     />
    </div>
    <div style={{ marginBottom: '10px' }}>
      <label>Email:</label><br/>
      <input
       type="text"
       name="email"
       value={this.state.email}
       onChange={this.handleChange}
       required
       style={{ width: '100%' }}
     />
    </div>
    <div style={{ marginBottom: '10px' }}>
      <label>Password:</label><br/>
      <input
       type="password"
       name="password"
       value={this.state.password}
       onChange={this.handleChange}
       required
       style={{ width: '100%' }}
     />
    </div>
    <button type="submit">Register</button>
   </form>
  );
export default Register;
```

Output:

