**React**

**16. ReactJS-HOL - 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.**

**CODE:**

**Src 🡪 components**

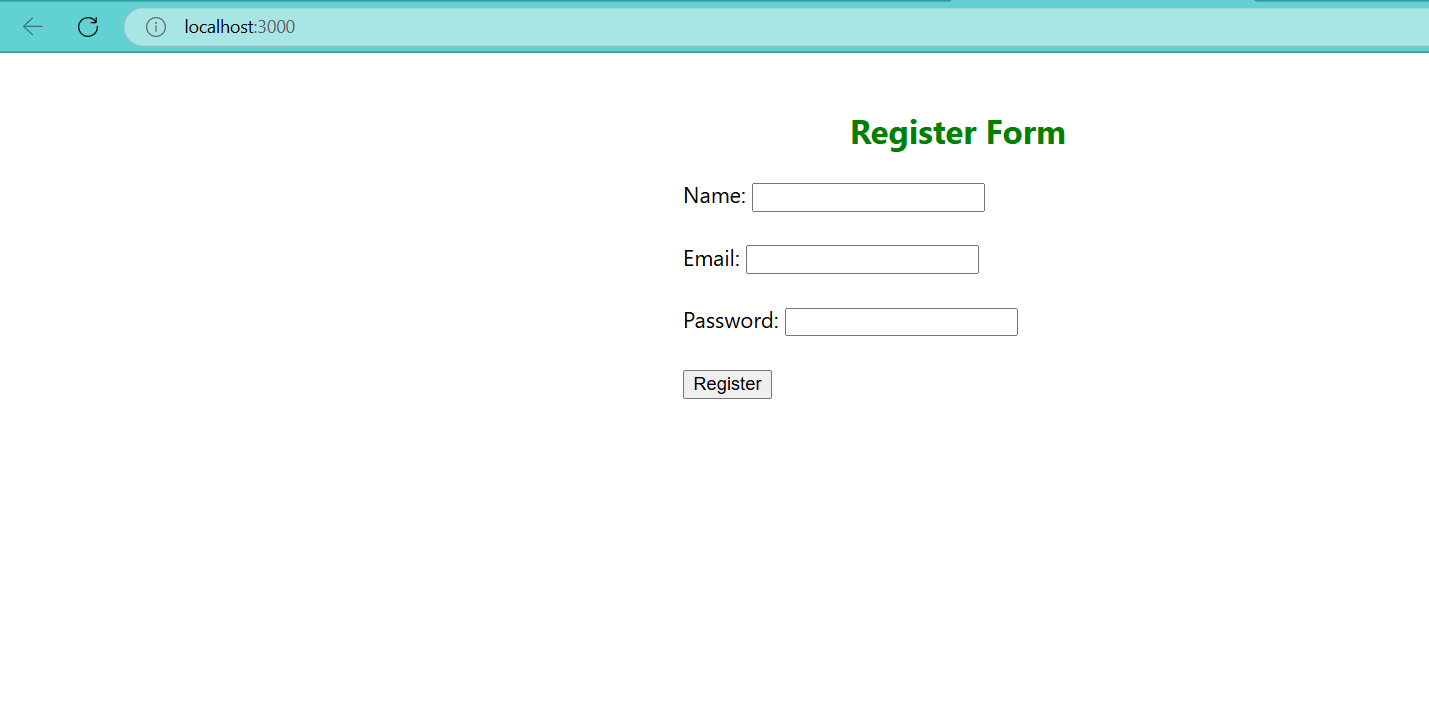
**Register.js**

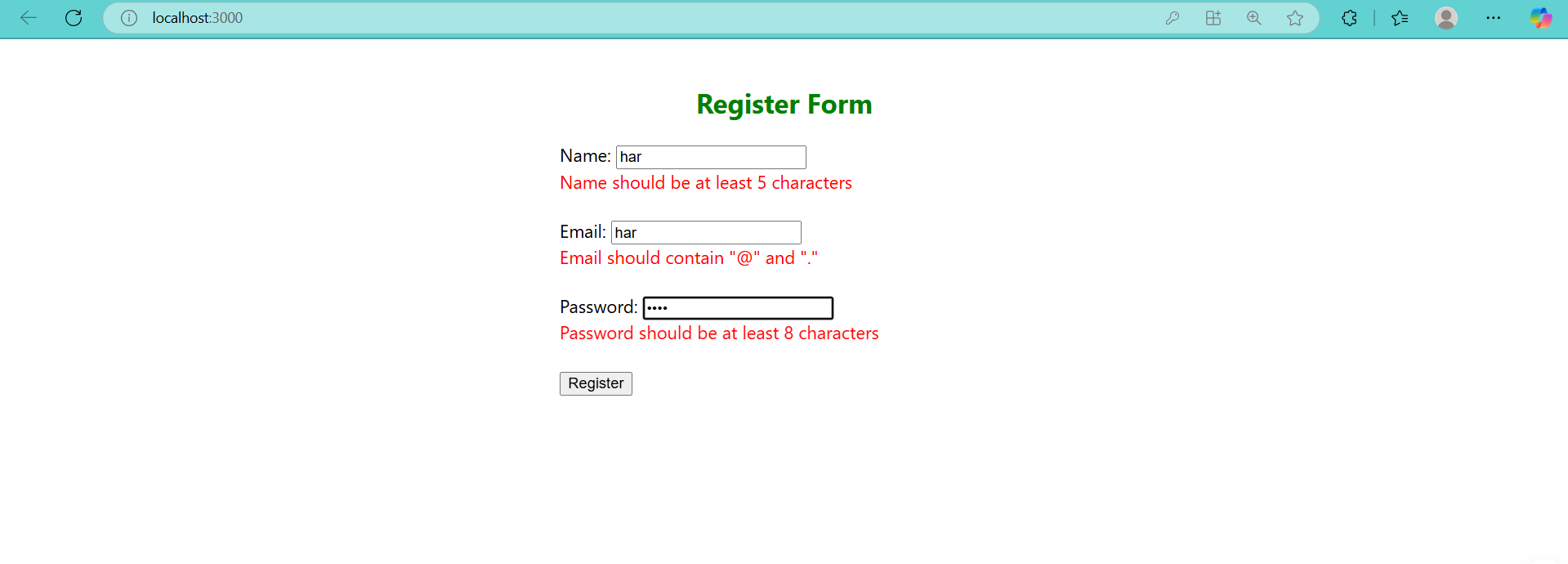
import React, { useState } from 'react';  
  
function Register() {  
 const [form, setForm] = useState({  
 name: '',  
 email: '',  
 password: ''  
 });  
  
 const [errors, setErrors] = useState({});  
  
 const handleChange = (e) => {  
 const { name, value } = e.target;  
 setForm({ ...form, [name]: value });  
 validateField(name, value);  
 };  
  
 const validateField = (name, value) => {  
 let error = '';  
  
 if (name === 'name') {  
 if (value.trim().length < 5) {  
 error = 'Name should be at least 5 characters';  
 }  
 }  
  
 if (name === 'email') {  
 if (!value.includes('@') || !value.includes('.')) {  
 error = 'Email should contain "@" and "."';  
 }  
 }  
  
 if (name === 'password') {  
 if (value.length < 8) {  
 error = 'Password should be at least 8 characters';  
 }  
 }  
  
 setErrors((prev) => ({ ...prev, [name]: error }));  
 };  
  
 const handleSubmit = (e) => {  
 e.preventDefault();  
 Object.keys(form).forEach((field) => {  
 validateField(field, form[field]);  
 });  
 const hasErrors = Object.values(errors).some((msg) => msg);  
 if (!hasErrors && form.name && form.email && form.password) {  
 alert('Form submitted successfully!');  
 } else {  
 alert('Please fix the validation errors.');  
 }  
 };  
  
 return (  
 <div style={{ maxWidth: '400px', margin: 'auto', padding: '20px' }}>  
 <h2 style={{ color: 'green', textAlign: 'center' }}>Register Form</h2>  
 <form onSubmit={handleSubmit}>  
 <div>  
 <label>Name: </label>  
 <input  
 type="text"  
 name="name"  
 value={form.name}  
 onChange={handleChange}  
 />  
 <div style={{ color: 'red' }}>{errors.name}</div>  
 </div>  
 <br />  
 <div>  
 <label>Email: </label>  
 <input  
 type="email"  
 name="email"  
 value={form.email}  
 onChange={handleChange}  
 />  
 <div style={{ color: 'red' }}>{errors.email}</div>  
 </div>  
 <br />  
 <div>  
 <label>Password: </label>  
 <input  
 type="password"  
 name="password"  
 value={form.password}  
 onChange={handleChange}  
 />  
 <div style={{ color: 'red' }}>{errors.password}</div>  
 </div>  
 <br />  
 <button type="submit">Register</button>  
 </form>  
 </div>  
 );  
}  
  
export default Register;

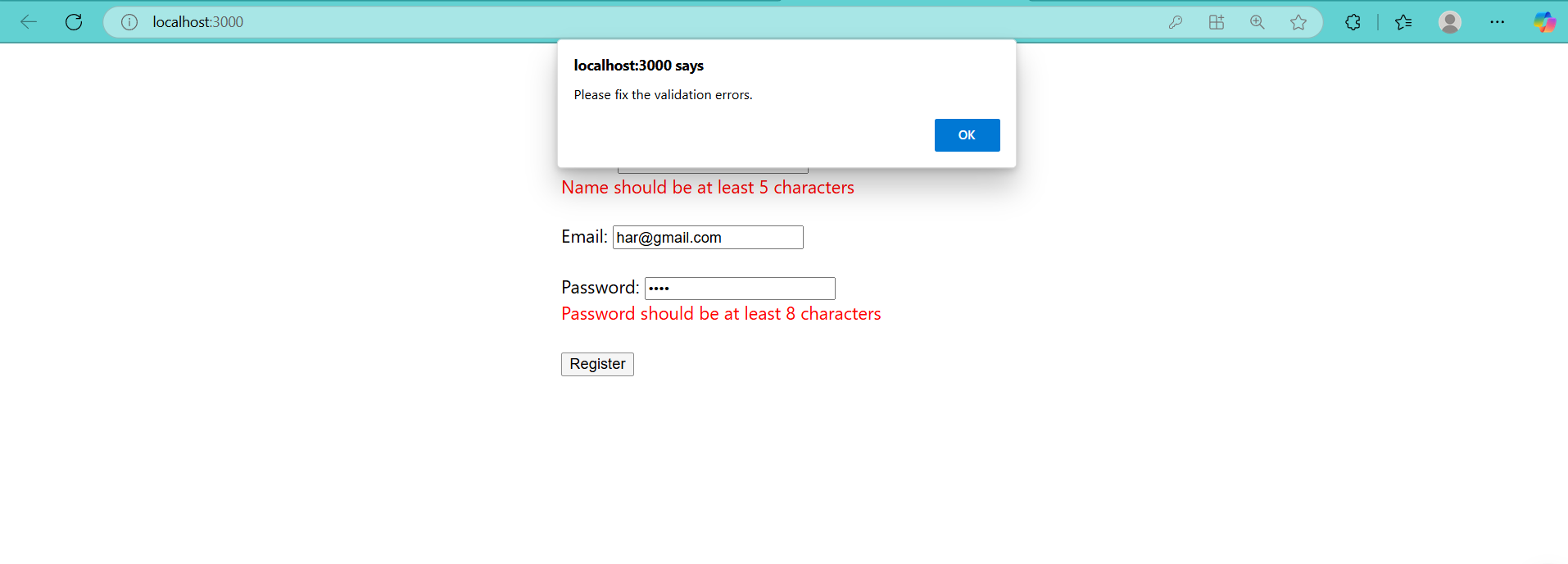
**App.js**

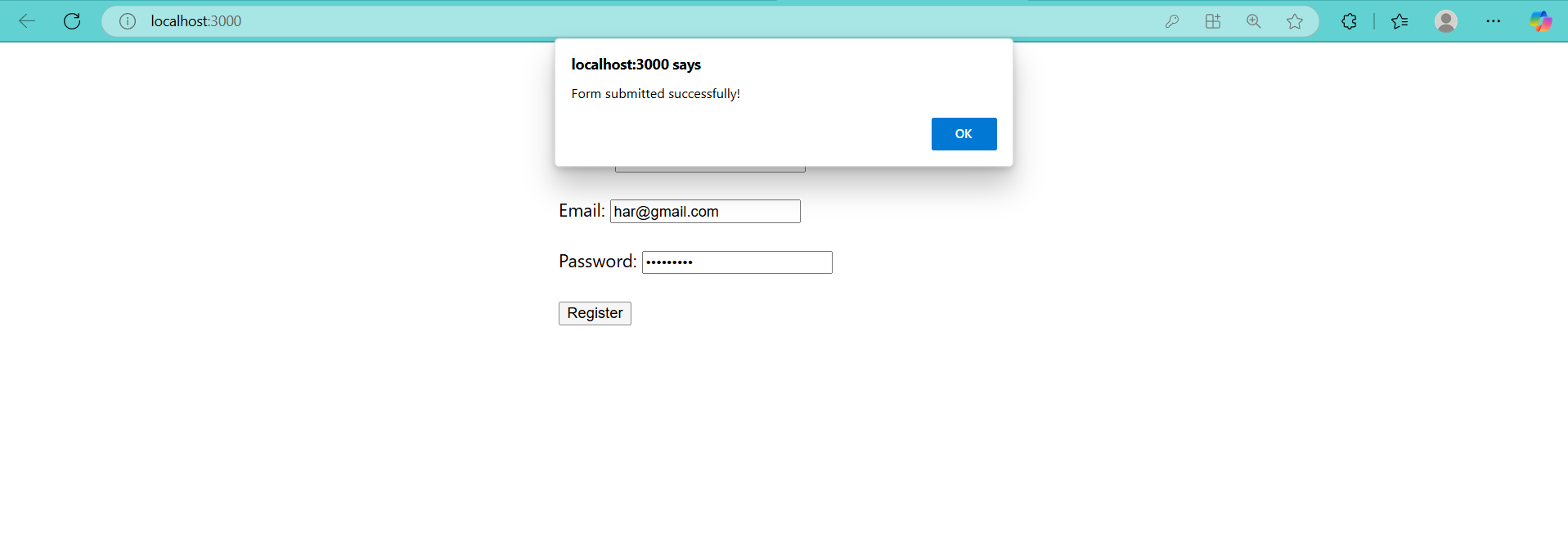
import React from 'react';  
import Register from './register';  
  
function App() {  
 return (  
 <div className="App">  
 <Register />  
 </div>  
 );  
}  
  
export default App;

**OUTPUT:**

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