**ReactJS Handson**

**Q.** 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.

**Register.js**

import React, { Component } from 'react';

const validEmailRegex = RegExp(

  /^(([^<>()\[\]\\.,;:\s@"]+(\.[^<>()\[\]\\.,;:\s@"]+)\*)|(".+"))@((\[[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\])|(([a-zA-Z\-0-9]+\.)+[a-zA-Z]{2,}))$/

);

const validateForm = (errors) => {

  let valid = true;

  Object.values(errors).forEach(

    (val) => val.length > 0 && (valid = false)

  );

  return valid;

};

class Register extends Component {

  constructor(props) {

    super(props);

    this.state = {

      fullName: null,

      email: null,

      password: null,

      errors: {

        fullName: '',

        email: '',

        password: '',

      },

    };

  }

  handleChange = (event) => {

    event.preventDefault();

    const { name, value } = event.target;

    let errors = this.state.errors;

    switch (name) {

      case 'fullName':

        errors.fullName =

          value.length < 5 //

            ? 'Full Name must be 5 characters long!'

            : '';

        break;

      case 'email':

        errors.email = validEmailRegex.test(value)

          ? ''

          : 'Email is not valid!';

        break;

      case 'password':

        errors.password =

          value.length < 8 //

            ? 'Password must be 8 characters long!'

            : '';

        break;

      default:

        break;

    }

    this.setState({ errors, [name]: value });

  };

  handleSubmit = (event) => {

    event.preventDefault();

    if (validateForm(this.state.errors)) {

      if (this.state.fullName && this.state.email && this.state.password) {

          alert('Valid Form');

      } else {

          alert('Please fill in all fields.');

      }

    } else {

      if (this.state.errors.fullName.length > 0) {

        alert(this.state.errors.fullName);

      } else if (this.state.errors.email.length > 0) {

        alert(this.state.errors.email);

      } else if (this.state.errors.password.length > 0) {

        alert(this.state.errors.password);

      } else {

        alert('Please check your input for errors.');

      }

    }

  };

  render() {

    const { errors } = this.state;

    return (

      <div>

        <h1>Register Here!!!</h1>

        <form onSubmit={this.handleSubmit} noValidate>

          <div>

            <label htmlFor="fullName">Name:</label>

            <input

              type="text"

              id="fullName"

              name="fullName"

              onChange={this.handleChange}

              noValidate

            />

            {errors.fullName.length > 0 && (

              <span className='error'>{errors.fullName}</span>

            )}

          </div>

          <div>

            <label htmlFor="email">Email:</label>

            <input

              type="email"

              id="email"

              name="email"

              onChange={this.handleChange}

              noValidate

            />

            {errors.email.length > 0 && (

              <span className='error'>{errors.email}</span>

            )}

          </div>

          <div>

            <label htmlFor="password">Password:</label>

            <input

              type="password"

              id="password"

              name="password"

              onChange={this.handleChange}

              noValidate

            />

            {errors.password.length > 0 && (

              <span className='error'>{errors.password}</span>

            )}

          </div>

          <button type="submit">Submit</button>

        </form>

      </div>

    );

  }

}

export default Register;

**App.js**

import './App.css';

import Register from './register';

function App() {

  return (

    <div className="App">

      <Register />

    </div>

  );

}

export default App;

**App.css**

.App {

  display: flex;

  flex-direction: column;

  align-items: center;

  justify-content: center;

  min-height: 100vh;

  font-family: Arial, sans-serif;

}

h1 {

  color: red;

  margin-bottom: 20px;

}

form div {

  margin-bottom: 15px;

  display: flex;

  align-items: center;

  gap: 10px;

}

form label {

  font-weight: bold;

  width: 80px;

  text-align: right;

}

form input[type="text"],

form input[type="email"],

form input[type="password"] {

  padding: 8px;

  border: 1px solid #ccc;

  border-radius: 4px;

  width: 200px;

}

form button {

  padding: 10px 20px;

  background-color: #007bff;

  color: white;

  border: none;

  border-radius: 5px;

  cursor: pointer;

  font-size: 16px;

  margin-top: 10px;

  margin-left: auto;

  display: block;

}

form button:hover {

  background-color: #0056b3;

}

.error {

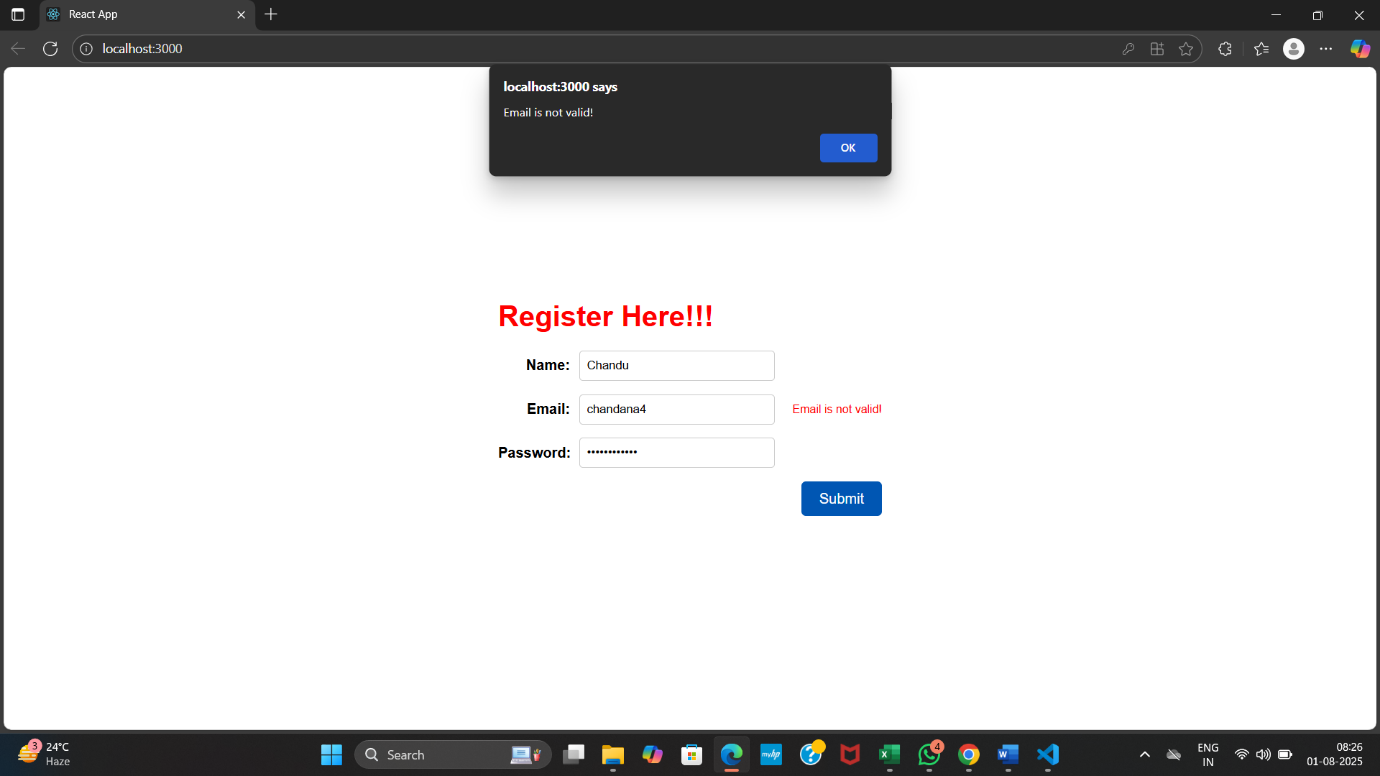
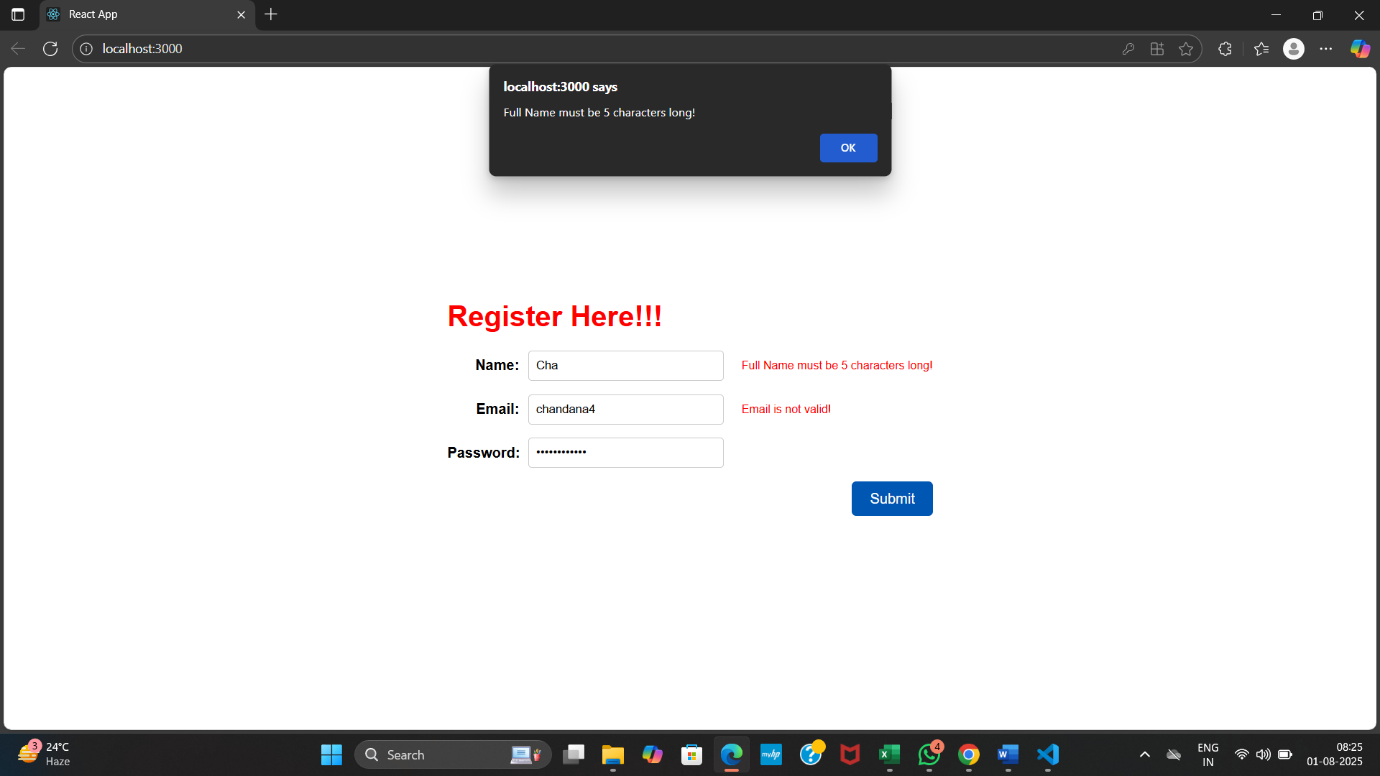
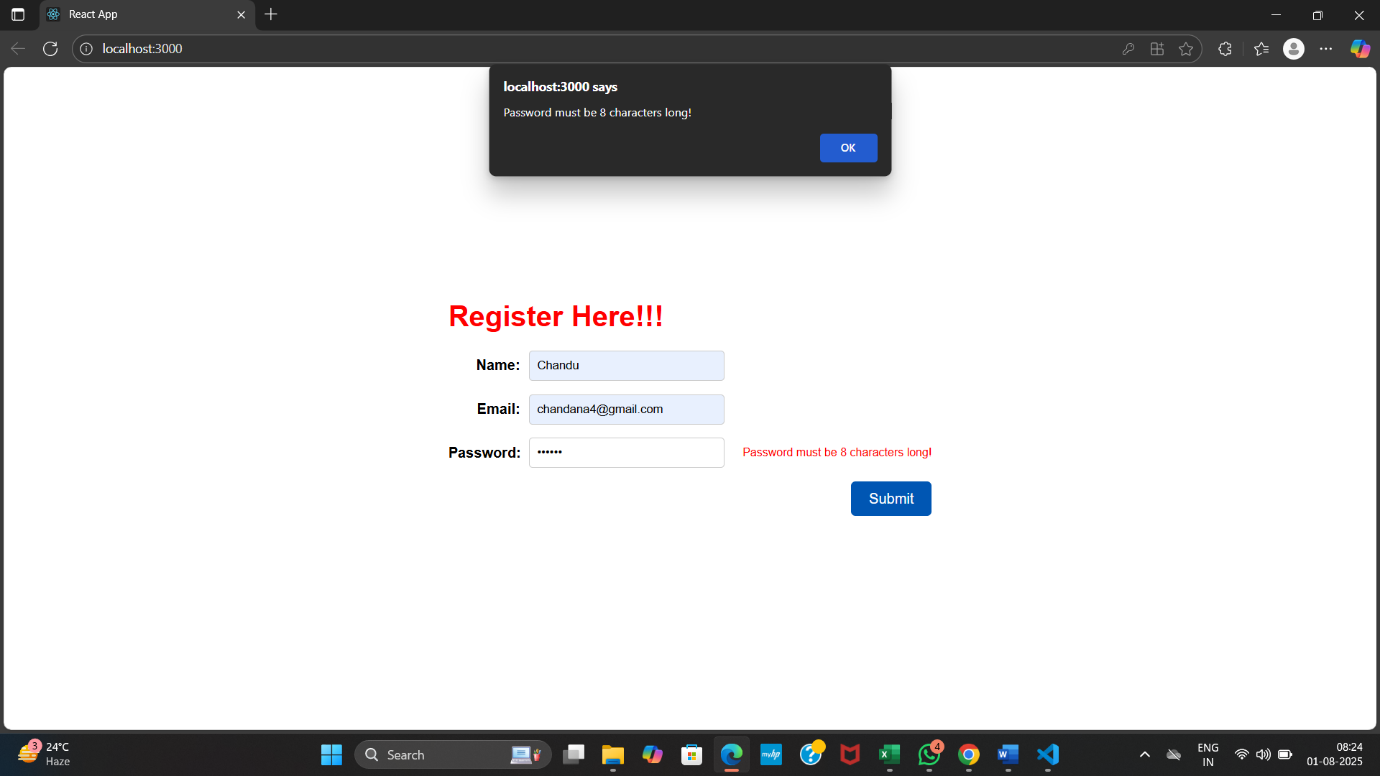
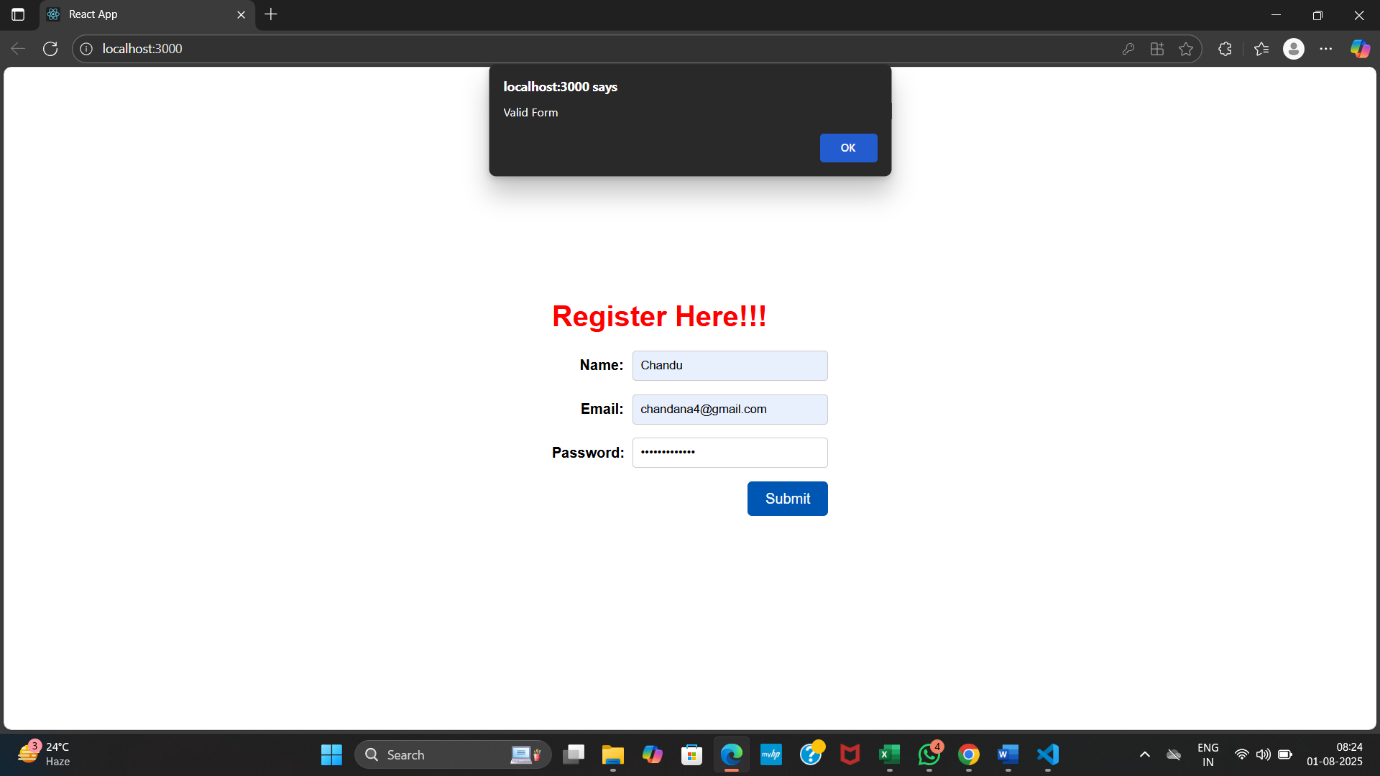
  color: red;

  font-size: 0.8em;

  margin-left: 10px;

}

**OUTPUT**

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