

Aim:- Design a registration form using form elements in ReactJS along with appropriate validations.

Program code:-

```
import React from 'react';
import './App.css';
class RegisterForm extends React.Component {
  constructor() {
    super();
    this.state = {
      fields: {},
      errors: {}
    }
    this.handleChange = this.handleChange.bind(this);
    this.submituserRegistrationForm = this.submituserRegistrationForm.bind(this);
  };
  handleChange(e) {
    let fields = this.state.fields;
    fields[e.target.name] = e.target.value;
    this.setState({
      fields
    });
  }
  submituserRegistrationForm(e) {
    e.preventDefault();
    if (this.validateForm()) {
      let fields = {};
      fields["username"] = "";
      fields["emailid"] = "";
      fields["mobilenumber"] = "";
      fields["password"] = "";
      this.setState({fields:fields});
      alert("Form submitted");
    }
  }
  validateForm() {
    let fields = this.state.fields;
    let errors = {};
    let formIsValid = true;

    if (!fields["username"]) {
      formIsValid = false;
      errors["username"] = "*Please enter your username.";
    }
  }
}
```

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if (typeof fields["username"] !== "undefined") {
  if (!fields["username"].match(/^ [a-zA-Z ]*$/)) {
    formIsValid = false;
    errors["username"] = "*Please enter alphabet characters only.";
  }
}

if (!fields["emailid"]) {
  formIsValid = false;
  errors["emailid"] = "*Please enter your email-ID.";
}

if (typeof fields["emailid"] !== "undefined") {
  //regular expression for email validation
  var pattern = new
  RegExp(/^(("[\w-\s"]+)|([\w-]+(?:\.[\w-]+)*)|("[\w-\s"]+)([\w-]+(?:\.[\w-]+)*)|((?![\w-]+\.)@((?![\w-]+\.)
*\w[\w-]{0,66})\.([a-z]{2,6}(?:\.[a-z]{2})?)$)|(@\[?((25[0-5]|2[0-4][0-9]\.|1[0-9]{2}\.|[0-9]{
1,2}\.))((25[0-5]|2[0-4][0-9]|1[0-9]{2}|[0-9]{1,2})\.){2}(25[0-5]|2[0-4][0-9]|1[0-9]{2}|[0-9]{1,
2}))\]?$/i);
  if (!pattern.test(fields["emailid"])) {
    formIsValid = false;
    errors["emailid"] = "*Please enter valid email-ID.";
  }
}

if (!fields["mobilenos"]) {
  formIsValid = false;
  errors["mobilenos"] = "*Please enter your mobile no.";
}

if (typeof fields["mobilenos"] !== "undefined") {
  if (!fields["mobilenos"].match(/^[0-9]{10}$/)) {
    formIsValid = false;
    errors["mobilenos"] = "*Please enter valid mobile no.";
  }
}

if (!fields["password"]) {
  formIsValid = false;
  errors["password"] = "*Please enter your password.";
}

if (typeof fields["password"] !== "undefined") {
  if
  (!fields["password"].match(/^(?=.*{8,})(?=.*\d)(?=.*[a-z])(?=.*[A-Z])(?=.*[@#%&]).*$/)) {
    formIsValid = false;
    errors["password"] = "*Please enter secure and strong password.";
  }
}

this.setState({
  errors: errors

```

```

    });
    return formIsValid;
  }
  render() {
    return (
      <div id="main-registration-container">
        <div id="register">
          <h3>Registration page</h3>
          <form method="post" name="userRegistrationForm" onSubmit=
{this.submituserRegistrationForm} >
            <label>Name</label>
            <input type="text" name="username" value={this.state.fields.username}
onChange={this.handleChange} />
            <div className="errorMsg">{this.state.errors.username}</div>
            <label>Email ID:</label>
            <input type="text" name="emailid" value={this.state.fields.emailid}
onChange={this.handleChange} />
            <div className="errorMsg">{this.state.errors.emailid}</div>
            <label>Mobile No:</label>
            <input type="text" name="mobilenumber" value={this.state.fields.mobilenumber}
onChange={this.handleChange} />
            <div className="errorMsg">{this.state.errors.mobilenumber}</div>
            <label>Password</label>
            <input type="password" name="password" value={this.state.fields.password}
onChange={this.handleChange} />
            <div className="errorMsg">{this.state.errors.password}</div>
            <input type="submit" className="button" value="Register"/>
          </form>
        </div>
      </div>
    );
  }
}
export default RegisterForm;

```

Output:-

Registration page
Name

**Please enter alphabet characters only.*
Email ID:

Mobile No:

**Please enter valid mobile no.*
Password

**Please enter secure and strong password.*

Conclusion:-Successfully designed a register form with proper validations