**6. Design and implement a React Form that collects user input for name, email, and password. Form Fields are Name, Email, Password. Ensure all fields are filled before allowing form submission. Validate the email field to ensure it follows the correct email format (e.g., example@domain.com). Optionally enforce a minimum password length or complexity. Display error messages for invalid or missing inputs. Provide visual cues (e.g., red borders) to highlight invalid fields. Prevent form submission until all fields pass validation. Log or display the entered data upon successful submission (optional). Add a “Show Password” toggle for the password field. Implement client-side sanitization to ensure clean input.**

Simple form:

Program6->src>create file SimpleForm.js

import React, { useState } from "react";

const SimpleForm = () => {

const [name, setName] = useState("");

const [email, setEmail] = useState("");

const [password, setPassword] = useState("");

const [showPassword, setShowPassword] = useState(false);

const [error, setError] = useState("");

const handleSubmit = (e) => {

e.preventDefault();

if (!name || !email.includes("@") || password.length < 6) {

setError("Please enter valid details.");

} else {

setError("Successfully submitted");

console.log("Submitted:", { name, email, password });

}

};

return (

<form onSubmit={handleSubmit}>

<input

type="text"

placeholder="Name"

value={name}

onChange={(e) => setName(e.target.value)}

/>

<br />

<input

type="email"

placeholder="Email"

value={email}

onChange={(e) => setEmail(e.target.value)}

/>

<br />

<input

type={showPassword ? "text" : "password"}

placeholder="Password"

value={password}

onChange={(e) => setPassword(e.target.value)}

/>

<button type="button" onClick={() => setShowPassword(!showPassword)}>

{showPassword ? "Hide" : "Show"}

</button>

<br />

{error && <p style={{ color: "red" }}>{error}</p>}

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

</form>

);

};

export default SimpleForm;

App.js:

import logo from './logo.svg';

import './App.css';

import React from "react";

import SimpleForm from "./SimpleForm"

const App = () => {

return (

<div>

<SimpleForm/>

</div>

);

};

export default App;