

CODE

8a_LoginForm.js

```
import React, { useState } from
"react";

function LoginForm() {
    // Form Data State
    const [formData, setFormData] =
    useState({
        username: "",
        email: "",
        password: ""
    });

    // Error State
    const [errors, setErrors] =
    useState({});

    // Success Message State
    const [success, setSuccess] =
    useState("");

    // Handle Input Change
    const handleChange = (e) => {
        const { name, value } = e.target;

        setFormData({
            ...formData,
            [name]: value
        });
    };

    // Validation Function
    const validate = () => {
        let validationErrors = {};

        if (!formData.username) {
            validationErrors.username =
            "Username is required";
        }

        if (!formData.email) {
            validationErrors.email = "Email
is required";
        } else if
        (!formData.email.includes("@")) {
            validationErrors.email = "Invalid
email format";
        }
    }

    if (!validationErrors.password) {
        validationErrors.password =
        "Password is required";
    } else if (formData.password.length
< 6) {
        validationErrors.password =
        "Password must be at least 6
characters";
    }

    return validationErrors;
};

// Handle Form Submit
const handleSubmit = (e) => {
    e.preventDefault();

    const validationErrors =
    validate();

    if
    (Object.keys(validationErrors).length >
0) {
        setErrors(validationErrors);
        setSuccess("");
    } else {
        setErrors({});
        setSuccess("Login Successful
✓");
    }
}

// Reset form
setFormData({
    username: "",
    email: "",
    password: ""
});
}

return (
    <div>
        <h2>Login Form</h2>
        <form onSubmit={handleSubmit}>
            <div>
```

```

<input
  type="text"
  name="username"
  placeholder="Enter
Username"
  value={formData.username}
  onChange={handleChange}
/>
<p style={{ color: "red"
}}>{errors.username}</p>
</div>

<div>
<input
  type="text"
  name="email"
  placeholder="Enter Email"
  value={formData.email}
  onChange={handleChange}
/>
<p style={{ color: "red"
}}>{errors.email}</p>
</div>

<div>
<input
  type="password"
  name="password"
  placeholder="Enter
Password"
  value={formData.password}
  onChange={handleChange}
/>
<p style={{ color: "red"
}}>{errors.password}</p>
</div>

```

```

</div>
<button
  type="submit">Submit</button>
</form>
<p style={{ color: "green"
}}>{success}</p>
<hr />
<h3>Entered Data:</h3>
<p>Username:
{formData.username}</p>
<p>Email: {formData.email}</p>
</div>
);
}

export default LoginForm;

```

App.js

```

import React from "react";
import LoginForm from "./8a_LoginForm";
function App() {
  return (
    <div>
      <LoginForm />
    </div>
  );
}

export default App;

```

OUTPUT

The screenshot shows two browser windows side-by-side. The left window displays a 'Login Form' component with fields for Username, Email, and Password, along with a Submit button. The right window shows the same form after submission, displaying the entered data ('Entered Data') and a success message ('Login Successful').

Login Form

Entered Username
Entered Email
Entered Password
Submit

Submit

Entered Data:
Username: angelxavier905
Email: angelxavier905@gmail.com

Login Form

Enter Username
Enter Email
Enter Password
Submit

Login Successful ✓

Entered Data:
Username:
Email:

CODE

8b_Counter.js

```
import React, { useState } from "react";

function Counter() {

  // Counter State
  const [count, setCount] = useState(0);

  // Step State
  const [step, setStep] = useState(1);
```

```
// Handle Step Input Change
// (Controlled Input)
const handleStepChange = (e) => {
  const value = e.target.value;

  // Convert input to number, default
  // to 0 if empty
  setStep(value === "" ? 0 :
  Number(value));
};

// Increase Function
const increase = () => {
  setCount(count + step);
};
```

```

// Decrease Function
const decrease = () => {
  setCount(count - step);
};

// Reset Function
const reset = () => {
  setCount(0);
};

return (
  <div>
    <h2>Counter App</h2>

    <div>
      <label>Step Value: </label>
      <input
        type="number"
        value={step}
        onChange={handleStepChange}
      />
    </div>

    <h3>Counter Value: {count}</h3>
  </div>
)

<button
  onClick={increase}>Increase</button>
<button
  onClick={decrease}>Decrease</button>
<button
  onClick={reset}>Reset</button>
</div>
)
}

export default Counter;

```

```

App.js
import React from "react";
import Counter from "./8b_Counter";

function App() {
  return (
    <div>
      <Counter />
    </div>
  );
}

export default App;

```

OUTPUT

