

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 (!formData.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;
```

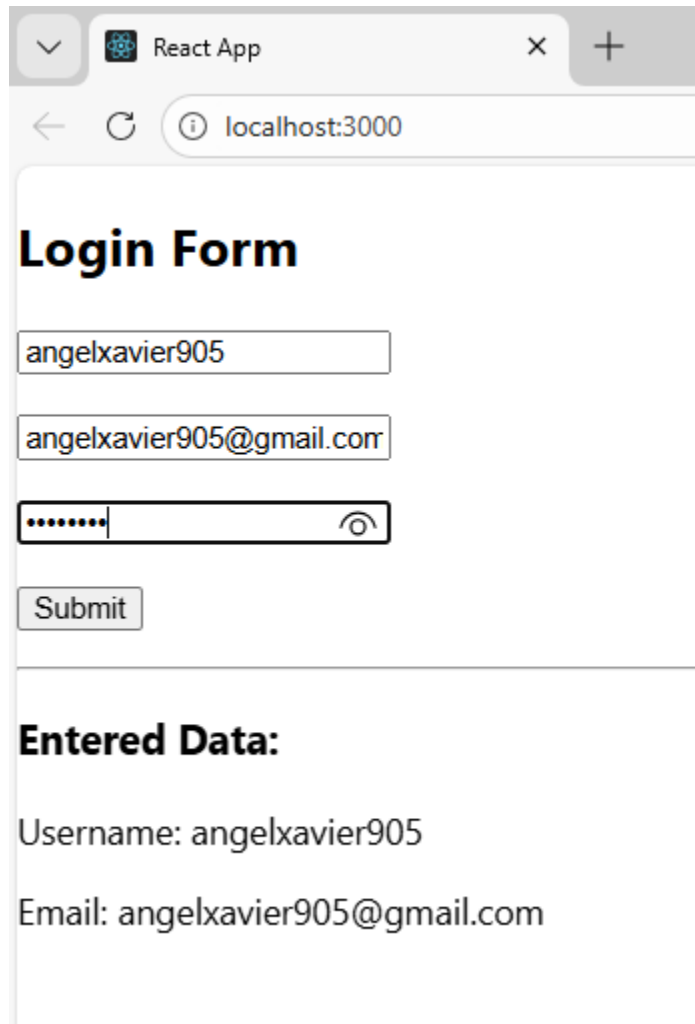
App.js

```

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

```

OUTPUT



Login Form

angelxavier905

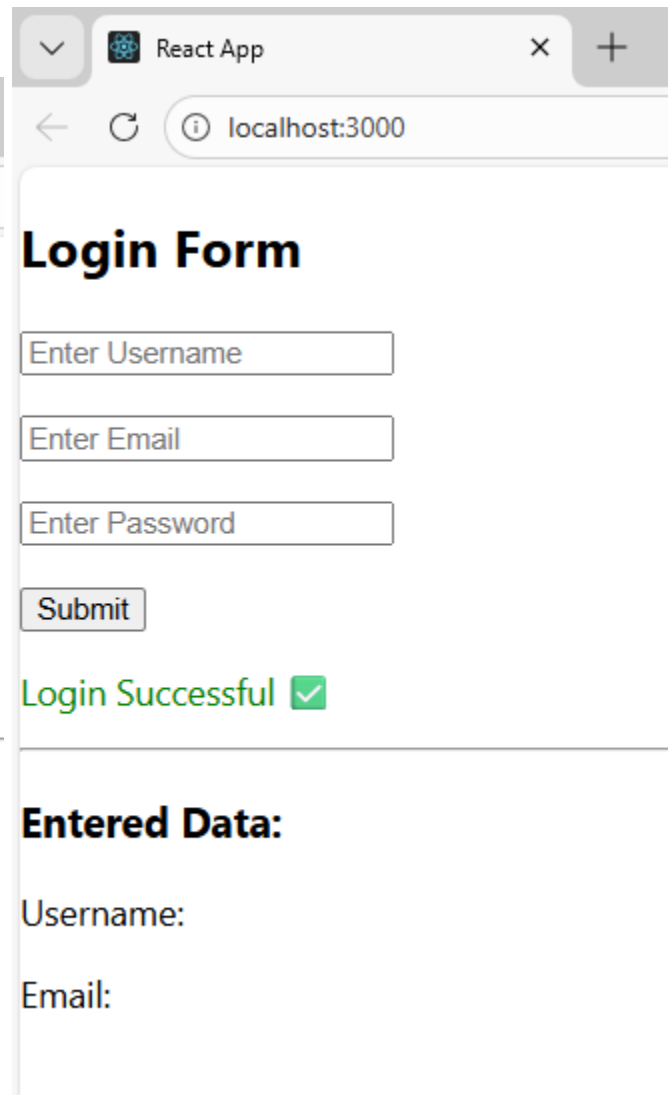
angelxavier905@gmail.com

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>

```

```

    <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

