

# React Class Material: Handling Form Inputs & Login Form

## Session 1: Handling Form Inputs (Controlled Components)

Goal: Learn how to handle form input in React using controlled components.

### PART 1: What are Controlled Components?

- Controlled components are form elements whose values are managed by React state.
- React controls the value via `useState` and updates it on every change.

Example:

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

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

  return (
    <form>
      <label>Name:</label>
      <input
        type="text"
        value={name}
        onChange={(e) => setName(e.target.value)}
      />
      <p>Hello, {name}</p>
    </form>
  );
}
```

Key Concepts:

- `value={...}` connects to the state.
- `onChange` updates state on user input.
- Works with `input`, `textarea`, `select`, `radio`, etc.

### PART 2: Practice Tasks

Task 1:

- Create an input field to enter name and display Hello, [name]

Task 2:

- Add another input for surname and display Hello, [name] [surname]

Task 3 (optional):

- Add a textarea field and bind it to state

## Session 2: Hands-on Building a Simple Login Form

Goal: Build a functional login form with two input fields.

### PART 1: Example Code

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

```
function LoginForm() {  
  const [email, setEmail] = useState("");  
  const [password, setPassword] = useState("");  
  
  const handleSubmit = (e) => {  
    e.preventDefault();  
    console.log("Email:", email);  
    console.log("Password:", password);  
    alert("Logged in as: " + email);  
  };  
  
  return (  
    <form onSubmit={handleSubmit}>  
      <h2>Login</h2>  
      <label>Email:</label>  
      <input  
        type="email"  
        value={email}  
        onChange={(e) => setEmail(e.target.value)}  
        required
```

```
    />
    <br />
    <label>Password:</label>
    <input
      type="password"
      value={password}
      onChange={(e) => setPassword(e.target.value)}
      required
    />
    <br />
    <button type="submit">Login</button>
  </form>
);
}
```

## PART 2: Tasks for Students

### Task 1:

- Create a LoginForm component with email and password fields

### Task 2:

- Use useState to manage both inputs

### Task 3:

- Use onSubmit to log the values or show alert

### Task 4 (optional):

- Validate email is not empty and password has at least 6 characters