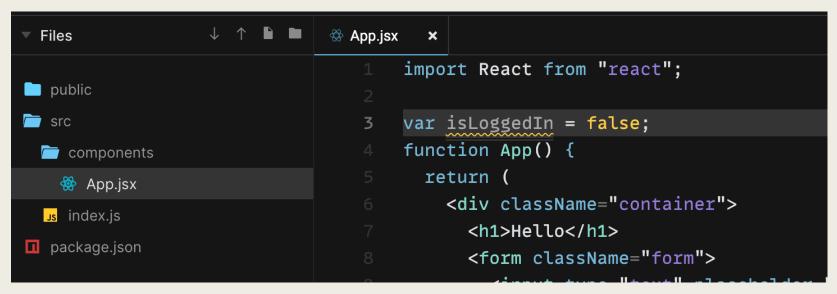
REACT RENDERING

Conditional Rendering, Ternary Operator

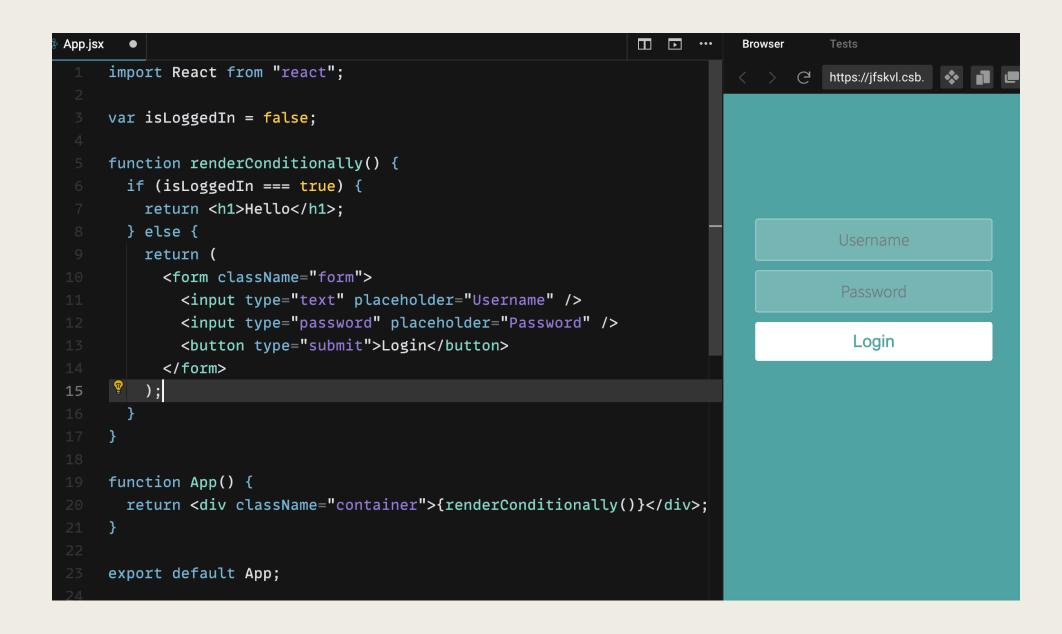
Codesandbox - https://codesandbox.io/s/student-conditional-rendering-forked-v3pf4h?file=/src/components/App.jsx

1. Create a variable isLoggedIn and assign true as it's value.



2. We want to check the value of variable isLoggedIn and based on true render h1 and based on false render the login form.

How would you do this? Are you thinking a conditional statement?



Question: What change in the code you need to make to appear Hello?

```
Answer: var isLoggedIn = true;
```

Each component should have single responsibility!

 Single responsibility principle - https://en.wikipedia.org/wiki/Singleresponsibility_principle

Our codes are long. How to make it short and component based?

Challenge:

- Create a 'Login' component for the form.
- Create an 'Input' component for the input.

Login.jsx

```
↓ ↑ •

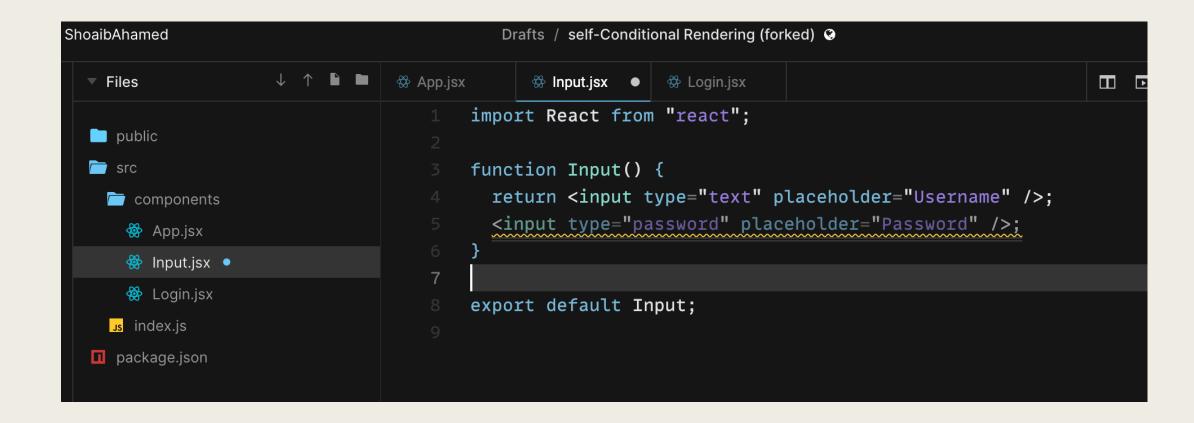
    ⇔ App.jsx

▼ Files

⇔ Login.jsx ×

                                                                                                        \blacksquare
                                       import React from "react";
public
src src
                                       function Login() {
                                          return (
  components
                                            <form className="form">
    App.jsx
                                              <input type="text" placeholder="Username" />
    ♣ Login.jsx
                                              <input type="password" placeholder="Password" />
  Js index.js
                                              <button type="submit">Login
package.json
                                            </form>
                                          );
▼ Dependencies
                                       export default Login;
Q Add Dependency
                                  14
                         16.8.6
react
react-dom
                         16.8.6
```

Input.jsx



Final Input.jsx

```
•

    ⇔ App.jsx

    ⇔ Login.jsx

                                                                   \blacksquare
      import React from "react";
  return <input type={props.type} placeholder={props.placeholder} />;
      export default Input;
  8
```

Final Login.jsx

```
    ⇔ App.jsx

    ⇔ Login.jsx ×

      import React from "react";
      import Input from "./Input";
      function Login() {
        return (
          <form className="form">
            <Input type="text" placeholder="Username" />
            <Input type="password" placeholder="Password" />
            <button type="submit">Login
          </form>
     );
 12 }
      export default Login;
 15
```

App looks same in browser!

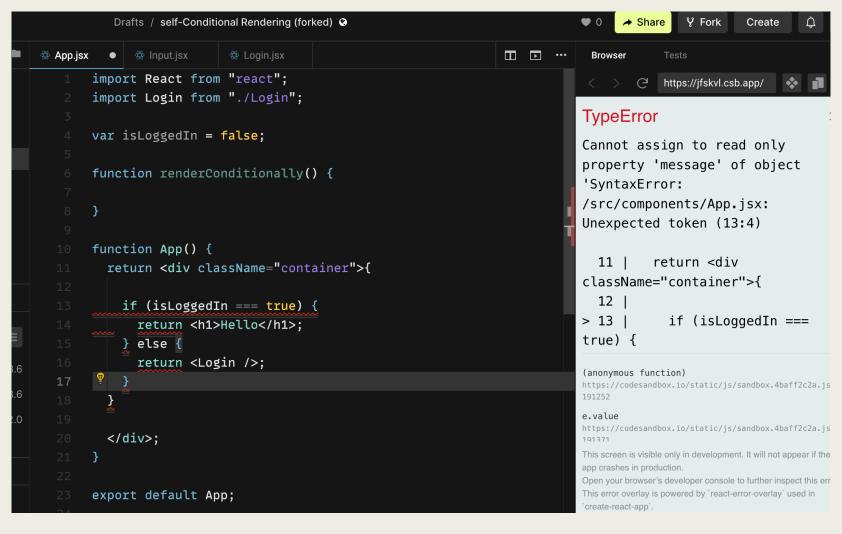
```
pp.jsx 🗙 🦁 Input.jsx

    ⇔ Login.jsx  
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                                                                                                                                                                                                                                                                                                Browser
                                                                                                                                                                                                                                                                                                                                                                       Tests
                            import React from "react";
                                                                                                                                                                                                                                                                                                                                        https://jfskvl.csb.app/
                             import Login from "./Login";
                            var isLoggedIn = false;
                             function renderConditionally() {
                                          if (isLoggedIn === true) {
                                                         return <h1>Hello</h1>;
                                          } else {
                                                         return <Login />;
                             function App() {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Login
                                          return <div className="containe
                             export default App;
```

Now our code are shorter but how can we optimize it even more?

```
import React from "react";
                                                                             https://jfskvl.csb.app
import Login from "./Login";
var isLoggedIn = false;
function renderConditionally() {
  if (isLoggedIn === true) {
   return <h1>Hello</h1>;
 } else {
   return <Login />;
                                                                                   Login
function App() {
  return <div className="container">{renderConditionally()}</div
export default App;
```

If we replace our function calling with if-else statement it results an error! Reason?



In JSX {} only takes expression not statement.

- Difference between JS expressions and Statements https://www.youtube.com/watch?v=WVyCrl1cHi8
- Expressions yields value const y = getAnswer();
- Statements are instructions that perform action but don't yield values if/else, while loop, for loop.

Then how can we place our if/else statement in jsx {}?

Ternary Operator

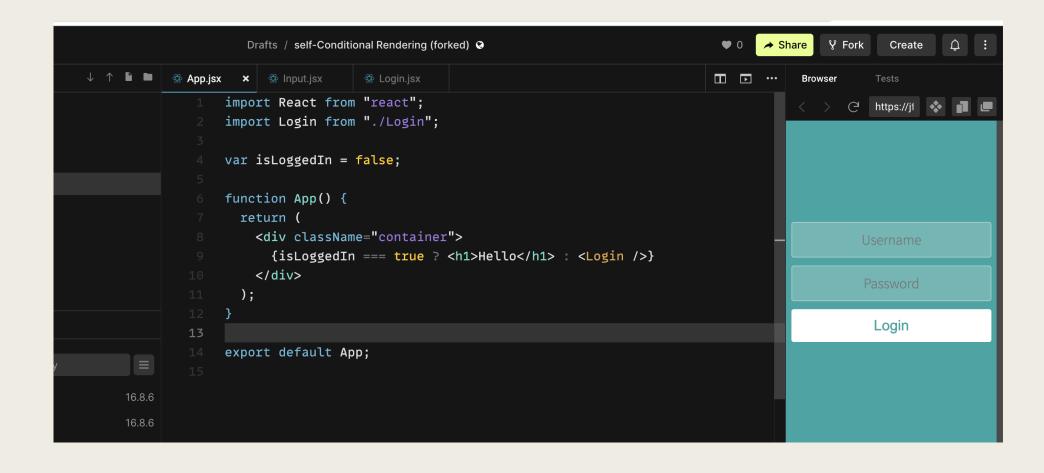
CONDITION? DO IF TRUE: DO IF FALSE

isCloudy === true ? bringUmbrella() : bringSunscreen()

Each of them has three expressions.

MORE ON THIS - https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Operators/Conditional_operator

Implementing in react -



Assignment

- Go here https://codesandbox.io/s/students-conditional-rendering-practice-forked-yz32rp?file=/src/index.js:158-462
- //Without moving the userIsRegistered variable,
- //1. Show Login as the button text if userIsRegistered is true.
- //Show Register as the button text if userIsRegistered is false.
- //2. Only show the Confirm Password input if userIsRegistered is false.
- //Don't show it if userIsRegistered is true.

