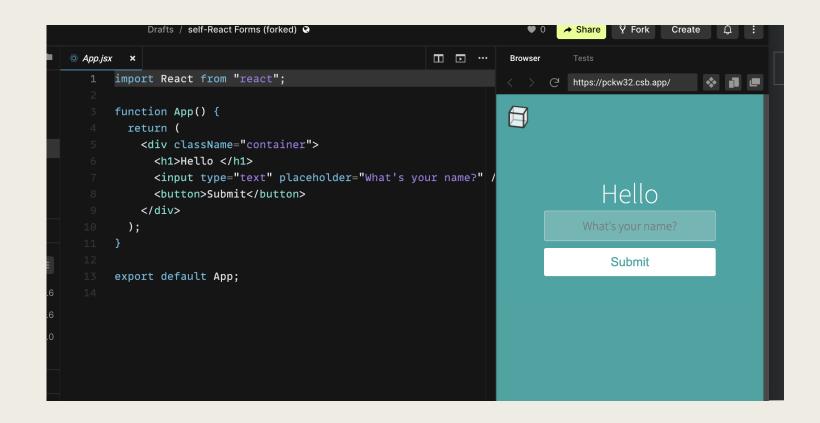
### **FORM**

# Where are forms used in web development?

### Learning objective

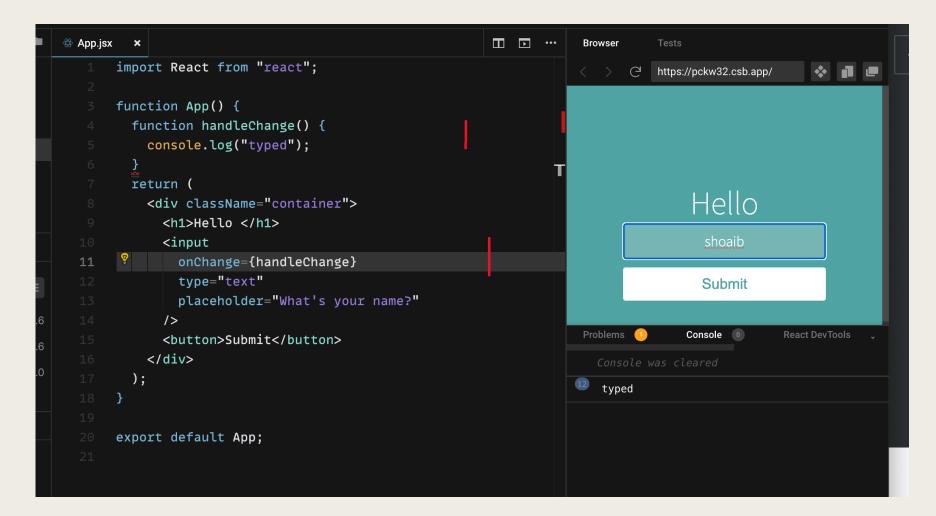
- Events that rises from forms.
- Forms are commonly used for login, registration, contact etc.
- How to get the user input for the input element and
- How to use the submit button to use the input from the users.
- Codesandbox https://codesandbox.io/s/students-react-forms-forked-gx6rzj?file=/src/index.js

### Initial code



How to get the value of user input?

# We can use on Change event which assigned to a function:



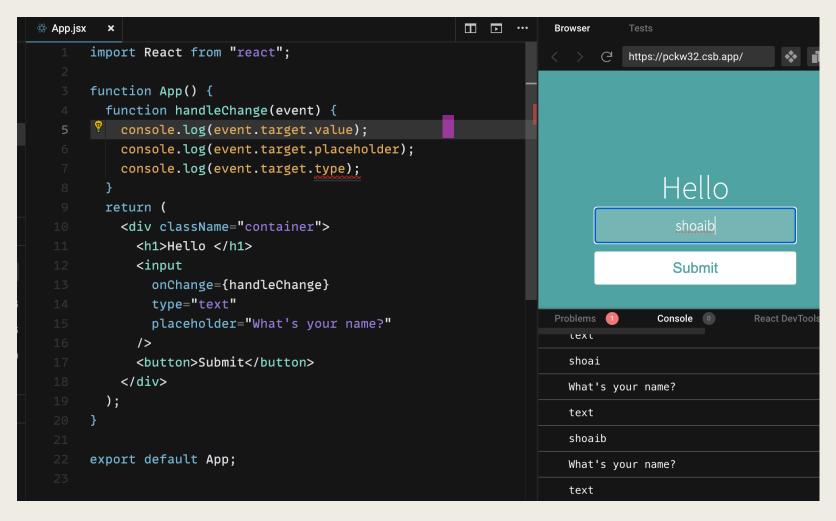
# We still didn't get the value of what's being typed! What to do?

#### Need to know -

- When input element triggers the function that stored in OnChange event, it also passes over an object.
- We can log various things related to the event.
- Example: console.log(event.target.value);
- event is the event that triggered the onChnage.
- target is the element that triggers the element.
- value is value of the attributes.

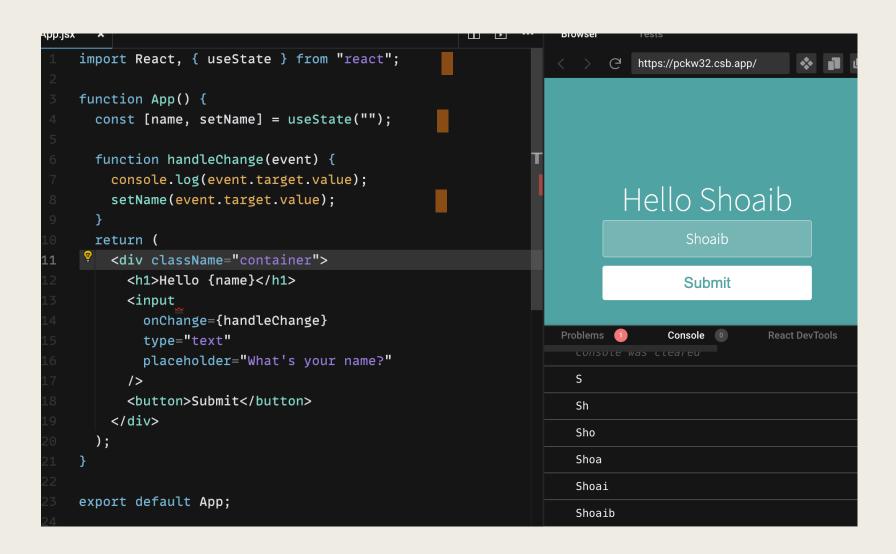
event.target.value for getting the input

value



## How to place user input after the initial 'hello'?

We need a state



#### Note:

- In HTML the elements are responsible to handle their own state. Input element has an attribute called 'value' which corresponds what's inside of the input.
- For react the value should be set to event.target.value e.g. name property.
- In this way there's only single source of truth, used in other components or in input, it's the same.
- This in React called controlled component. More on this https://legacy.reactjs.org/docs/forms.html#controlled-components

Challenge: How to add your name in H1 only after you click the submit button?

#### Solution

```
Ⅲ ⊡ …

    ⇔ App.jsx ×

                                                                    Browser
       import React, { useState } from "react";
                                                                          C https://pckw32.csb.app/
      function App() {
        const [name, setName] = useState("");
        const [headingText, setHeading] = useState("");
        function handleChange(event) {
                                                                                Hello Shoaib
          console.log(event.target.value);
          setName(event.target.value);
        function handleClick() {
                                                                                        Submit
          setHeading(name);
        return (
          <div className="container">
            <h1>Hello {headingText}</h1>
            <input
                                                                                  Console 0
                                                                                               React DevTools 0
                                                                    Problems 1
              onChange={handleChange}
                                                                      ισομ.
              type="text"
                                                                      S
              placeholder="What's your name?"
                                                                      Sh
              value={name}
            />
                                                                      Sho
            <button onClick={handleClick}>Submit</button>
                                                                      Shoa
          </div>
                                                                      Shoai
        );
                                                                      Shoaib
       evnort default Ann
```

### Adding some more -

- HTML form element contains all the form related elements e.g. input, button etc.
- Button type set to submit.
- But using form may trigger refresh by it's default behavior.
- To fix this, do <form onSubmit={handleClick}> and function handleClick(event) { setHeading(name);
  event.preventDefault();

#### Final code -

