

# REACTJS : Day2

Friday, November 29, 2024 10:36 AM

Differences	Props	State
Component Data Behaviour	Receives data from outside with props	Create and manage data within state
Data Role	To pass data between different components	To manage data within components
Data Accessibility	Data from props is read-only, cannot be modified	Data can be modified within component but cannot be accessed from outside
Initial Value Requirement	Passed from parent component, can be empty	Needs an initial value, can get initial value from parent component
Permissions	Read only	Read and write
Component Type	Static , Non-Interactive	Dynamic, Interactive
Mutability	Immutable	Mutable
Stateless components	Cant have props	Can't have state

## How to get inputfiled value using button

```
1  import { useState } from "react";
2  function Input1() {
3    const [val, setVal] = useState(null);
4    const [print, setprint] = useState(false);
5    function getVal(val) {
6      // console.log(val.target.value);
7      setVal(val.target.value);
8    }
9    return (
10     <>
11       <p>{print ? val : null}</p>
12       <input type="text" onChange={getVal} />
13       <button onClick={()=>setprint(true)}>GetVal</button>
14     </>
15   );
16 }
17 export default Input1;
18
```

## Toggle

```

1  import React, { useState } from "react";
2
3  function Toggle() {
4    const [Status, setStatus] = useState(true);
5    return (
6      <>
7        {!Status ? <div>Toggle</div> : null}
8
9        <button onClick={() => setStatus(Status ? false : true)}>
10         {Status ? "Show" : "Hide"}
11       </button>
12     </>
13   );
14 }
15
16 export default Toggle;
17

```

### Condition Rendering :-

```

1  import React,{useState} from "react";
2
3  function Condition() {
4    const [isLoggedIn,setLoggedIn] = useState(true);
5
6    if (isLoggedIn) {
7      return(
8        <h1>Welcome RRK Community</h1>
9      )
10   }
11   else{
12     return(
13       <h1>
14         please loggedIn
15       </h1>
16     )
17   }
18 }
19
20 export default Condition;
21

```

```

1  import React,{useState} from "react";
2
3  function Condition() {
4      const [isLoggedIn,setLoggedIn] = useState(false);
5
6      //  if (isLoggedIn) {
7      //      return(
8      //          <h1>Welcome RRK Community</h1>
9      //      )
10     //  }
11     //  else{
12     //      return(
13     //          <h1>
14     //              please loggedIn
15     //          </h1>
16     //      )
17     //  }
18
19     // Another Way
20     return(
21         <>
22             {
23                 isLoggedIn ? <h1>Welcome To RRK Community</h1>:<h1>Login Please</h1>
24             }
25         </>
26     )
27 }
28
29 export default Condition;
30

```

FORM VALIDATION :- for one field only

```

1  import React, { useState } from "react";
2
3  function Form() {
4    const [name, setName] = useState("");
5    const [tnc, setTnc] = useState(false);
6    const [interest, setInterest] = useState("");
7    const [userErr, setUserErr] = useState(false);
8
9    function getFormData(e) {
10      e.preventDefault();
11
12      if (name.trim() === "") {
13        setUserErr(true);
14        return;
15      }
16
17      setUserErr(false);
18      console.log("Name:", name);
19      console.log("Accepted T&C:", tnc);
20      console.log("Interest:", interest);
21    }
22
23    return (
24      <>
25        <h1>Form</h1>
26        <form onSubmit={getFormData}>
27          <input
28            type="text"
29            placeholder="Enter Name"
30            onChange={(e) => setName(e.target.value)}
31          />
32          {userErr && name.trim() === "" && (
33            <p style={{ color: "red" }}>Name is required!</p>
34          )}
35          <br />
36          <br />
37          <select defaultValue="" onChange={(e) => setInterest(e.target.value)}>
38            <option value="" disabled>
39              Select Interest
40            </option>
41            <option value="HTML">HTML</option>
42            <option value="CSS">CSS</option>
43            <option value="JS">JS</option>
44            <option value="Ruby">Ruby</option>
45          </select>
46          <br />
47          <br />
48          <input
49            type="checkbox"
50            onChange={(e) => setTnc(e.target.checked)}
51          />
52          <span> Accept Terms & Conditions</span>
53          <br />
54          <br />
55          <button type="submit">Submit</button>
56        </form>
57      </>
58    );
59  }
60
61  export default Form;
62
63
64

```

Pass Function As Props :-



```
1 import React from 'react'
2
3 function Function(props) {
4   return (
5     <button onClick={props.fn}>Click</button>
6   )
7 }
8
9 export default Function
```



```
1 // import Input1 from "../components/Input1"
2
3 import Function from "../components/Function";
4
5 // import Condition from "../components/Condition"
6 // import Form from "../components/Form"
7
8 // import Toggle from "../components/Toggle"
9
10 function App() {
11   function msg()
12   {
13     alert("Hi");
14   }
15   return (
16     <>
17       {/* <Input1></Input1> */}
18       {/* <Toggle></Toggle> */}
19       {/* <Form></Form> */}
20       {/* <Condition></Condition> */}
21       <Function fn={msg}></Function>
22     </>
23   );
24 }
25
26 export default App;
27
```