Events

Events are occurrences that happen within the system you're programming. When an event occurs, like a button click or page load, the system notifies your code. Your code can then react to these events by performing specific actions, such as displaying an information box or triggering a function. This article explores essential event concepts and how they work in web browsers.

**onClick, onMouseEnter, onMouseLeave, onLoad, onChange,onSubmit** are some basic common events.

**Class Based**

class Toggle extends React.Component {

constructor(props) {

super(props);

this.state = {isToggleOn: true};

// This binding is necessary to make `this` work in the callback

this.handleClick = this.handleClick.bind(this);

}

handleClick() {

this.setState(prevState => ({

isToggleOn: !prevState.isToggleOn

}));

}

render() {

return (

<button onClick={this.handleClick}>

{this.state.isToggleOn ? 'ON' : 'OFF'}

</button>

);

}

}

**Function Based**

import React,{useState} from 'react';

export function Toggle (props) {

const [state,setState] = useState({

isToggleOn:true

});

const handleClick = ()=>{

setState({

...state,

isToggleOn : !state.isToggleOn

})

}

return (

<div className='App'>

<button onClick={handleClick}>{state.isToggleOn ? "NO" :"OFF"}</button>

</div>

);

}

Custom Event Handling

You can make your own custom event handler in react . There is thing we need to know.

1. Fire Event
2. Listen Event

Example :

**Step.js**

**export const Step = (props) =>{**

**return <button onClick={()=>props.onGo(“Hi”)}></button>**

**}**

In Step.js we have define onGo custom react event and have fired that event, if user click on then it will pass the value to it’s parent component. Here, Step component will pass “Hi” string to it’s parent component App

**App.js**

**import {Step} from “./Step”;**

**export const App = () =>{**

**return <Step onGo = {(data)=> console.log(data)} />**

**}**

In App.js we are listening onGo custom react event from Step component. So, whenever it is fired, we read that data whatever it was send from Step Component