

9. REACT Events

In this chapter, we will learn how to use *events*.

9.1. Event Simple Example

This is a simple example where we will only use one component. We are just adding **onClick** event that will trigger **updateState** function once the button is clicked.

Example: App.jsx

```
import React from 'react';

class App extends React.Component {

  constructor(props) {
    super(props);

    this.state = {
      data: 'Initial data...'
    }
    this.updateState = this.updateState.bind(this);
  };

  updateState() {
    this.setState({data: 'Data updated...'})
  }

  render() {
    return (
      <div>
        <button onClick = {this.updateState}>CLICK</button>
        <h4>{this.state.data}</h4>
      </div>
    );
  }
}
```

```
    );  
  }  
}  
  
export default App;
```

Example: main.js

```
import React from 'react';  
import ReactDOM from 'react-dom';  
import App from './App.jsx';  
  
ReactDOM.render(<App/>, document.getElementById('app'));
```

When the input text value changes, the state will be updated.

Output:



9.2. Child Events

When we need to update the **state** of the parent component from its child, we can create an event handler (*updateState*) in the parent component and pass it as a prop (*updateStateProp*) to the child component where we can just call it.

Example: App.jsx

```
import React from 'react';

class App extends React.Component {

  constructor(props) {
    super(props);

    this.state = {
      data: 'Initial data...'
    }
    this.updateState = this.updateState.bind(this);
  };

  updateState() {
    this.setState({data: 'Data updated from the child
component...'})
  }

  render() {
    return (
      <div>
        <Content myDataProp = {this.state.data}
          updateStateProp = {this.updateState}></Content>
      </div>
    );
  }
}
```

```
    }  
  }  
  
  class Content extends React.Component {  
  
    render() {  
      return (  
        <div>  
          <button onClick =  
{this.props.updateStateProp}>CLICK</button>  
          <h3>{this.props.myDataProp}</h3>  
        </div>  
      );  
    }  
  }  
  
  export default App;
```

Example: main.js

```
import React from 'react';  
import ReactDOM from 'react-dom';  
import App from './App.jsx';  
  
ReactDOM.render(<App/>, document.getElementById('app'));
```

This will produce the following result.

Output:

