

ReactJS - Event management

Event management is one of the important features in a web application. It enables the user to interact with the application. React support all events available in a web application. React event handling is very similar to DOM events with little changes. Let us learn how to handle events in a React application in this chapter.

Let us see the step-by-step process of handling an event in a React component.

Define an event handler method to handle the given event.

```
log() {  
  console.log("Event is fired");  
}
```

React provides an alternative syntax using lambda function to define event handler. The lambda syntax is –

```
log = () => {  
  console.log("Event is fired");  
}
```

If you want to know the target of the event, then add an argument **e** in the handler method. React will send the event target details to the handler method.

```
log(e) {  
  console.log("Event is fired");  
  console.log(e.target);  
}
```

The alternative lambda syntax is –

```
log = (e) => {  
  console.log("Event is fired");  
  console.log(e.target);  
}
```

If you want to send extra details during an event, then add the extra details as initial argument and then add argument **(e)** for event target.

```
log(extra, e) {  
  console.log("Event is fired");  
  console.log(e.target);  
  console.log(extra);  
  console.log(this);  
}
```

The alternative lambda syntax is as follows –

```
log = (extra, e) => {  
  console.log("Event is fired");  
  console.log(e.target);  
  console.log(extra);  
  console.log(this);  
}
```

Bind the event handler method in the constructor of the component. This will ensure the availability of *this* in the event handler method.

```
constructor(props) {  
  super(props);  
  this.logContent = this.logContent.bind(this);  
}
```

If the event handler is defined in alternate lambda syntax, then the binding is not needed. *this* keyword will be automatically bound to the event handler method.

Set the event handler method for the specific event as specified below –

```
<div onClick={this.log}> ... </div>
```

To set extra arguments, bind the event handler method and then pass the extra information as second argument.

```
<div onClick={this.log.bind(this, extra)}> ... </div>
```

The alternate lambda syntax is as follows –

```
<div onClick={this.log(extra, e)}> ... </div>
```

Here,

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Revision #1

Created 14 December 2022 10:41:56 by Admin

Updated 14 December 2022 10:42:28 by Admin