



WEB TECHNOLOGIES

React JS – Event Handling

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ReactJS - Event Handling

Agenda



- Introduction
- Synthetic Event objects
- Requirement
- Event Registration
- Demo
- Programming assignments

ReactJS - Event Handling

Introduction



- Events make the **web app interactive and responsive** to the user.
- React event handling system is known as **Synthetic Events**.
- Almost same as the DOM events. A few differences in the syntax
 - With JSX in **ReactJs**, you pass a **function as event handler** and in **DOM element** we pass **function as string**

```
// event handling in ReactJs element  
<input id="inp" name="name" onChange={onChangeName} />
```

```
// event handling in DOM element  
<input id="inp" name="name" onchange="onChangeName()"/>
```

- In **DOM elements** the event name is in **lowercase** while in **ReactJs** it is in **camelCase**.
- In **ReactJs**, you can not prevent default behavior by returning false from the event. In **ReactJs**, you need to explicitly call **preventDefault** of the event.

- | | |
|--------------------------------|--------------------------|
| • boolean bubbles | boolean cancelable |
| • DOMEventTarget currentTarget | boolean defaultPrevented |
| • number eventPhase | boolean isTrusted |
| • DOMEvent nativeEvent | string type |

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Requirement

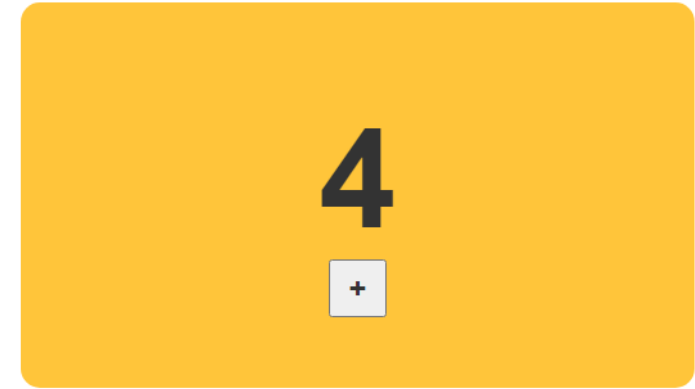
- Clicking on the + button, the value of our counter must be incremented by one
- Involves:
 - Listen for the click event on the button
 - Implement the event handler where we react to the click and increase the value of **this.state.count** that counter relies on



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Event Registration

- In React, you listen to an event by specifying everything inline in your JSX itself
- Specify both the **event** you are listening for and the **event handler** that will get called **inside the markup**



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Demo

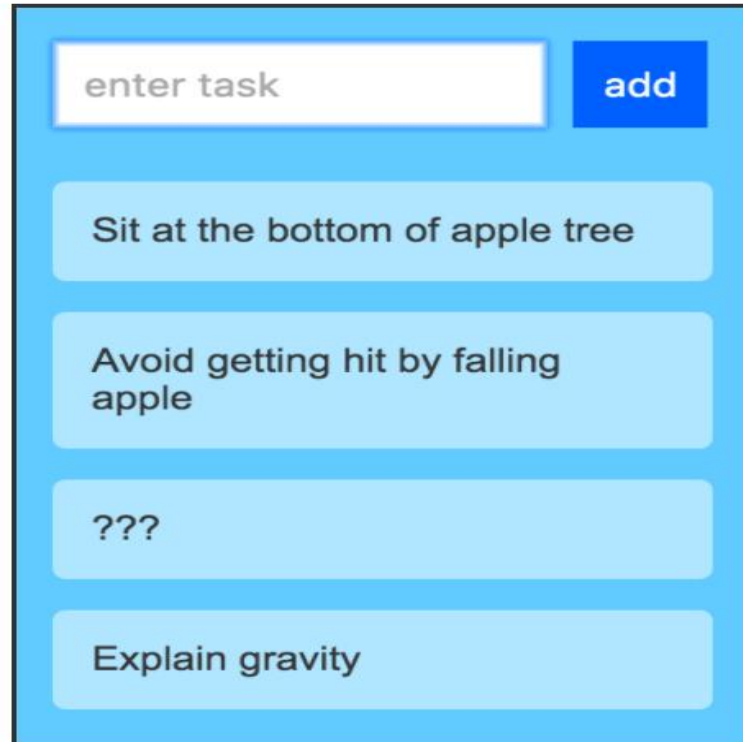
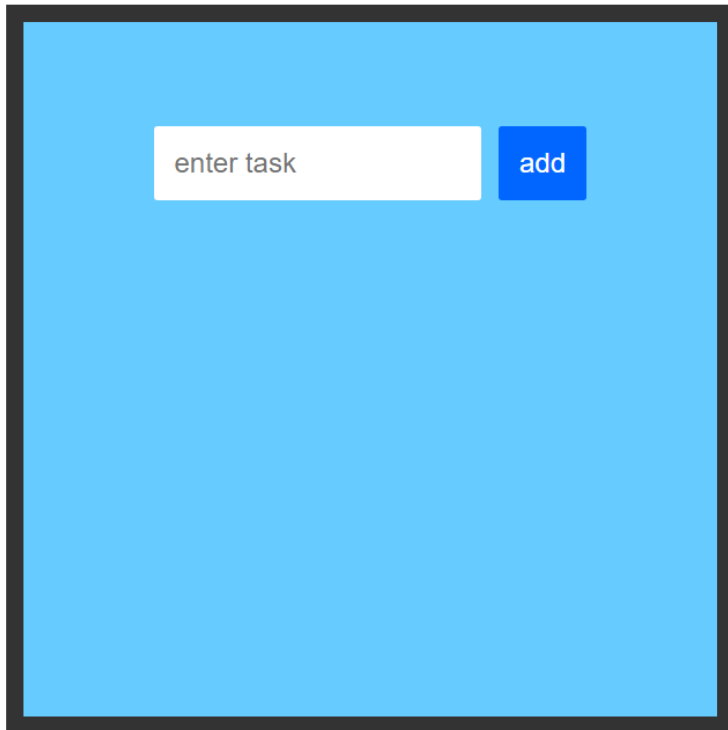


- Demo of event handling

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Programming assignment

- Build an awesome todo list as shown.





THANK YOU

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