

Events In Java-Script

Definitions

Events

As java script is sequentially run language so event in java script also run in sequence In browser there are n type of activities and on the basis of activity event will run like click , form , drag and drop and many

To remember :

'OnClick' Event : This event can be inject in html by attribute but that is not good approach so instead of that we use in js with the help of dom if talking about pure js but when we use React in that we can use it directly

```
Html : <li onclick = "alter="owl"">
In JS:
document.getElementById('id').onclick=function(){
  alert("hello")
}
second way to use addEventListener
```

Event Propagation : when we use this after function closing scope there is false but we don't write it because as by default it is false , but some it is mandatory to use and interviewer also ask so let see

```
document.querySelector('.class').addEventListener
('click',function (){
},false );
```

```
document.querySelector('.class').addEventListener
('click',function (){
},true);
```

uses true as the third argument, indicating that it should handle the event during the capturing phase.

uses false as the third argument, indicating that it should handle the event during the bubbling phase.

Capturing phase : the capturing phase is the first phase in which an event moves through the DOM tree from the root to the target element.

example : When you click on the inner box, you'll notice that the message logged to the console indicates that the capturing phase is executed first, starting from the outer box and moving inward to the inner box.

bahar se andar if applied eventListener on both target and parent so dono me target hai but first parent wala chalega then target means bahar se andar jayega

Bubbling Phase (maximum used) : the capturing phase is the first phase in which an event moves through the DOM tree from the root to the target element.

During this phase, the event travels up the tree, passing through each ancestor of the target element, starting from the immediate parent of the target element up to the highest ancestor (the root).

example : Starting from the inner box and moving outward to the outer

andar se bahar if applied eventListener on both target and parent so dono me target hai but first target wala chalega then parent means andar se bahar jayega

To remember :

StopPropagation()

To stop the propagation there is method inside event object we can use that

```
event.stopPropagation()
```

preventDefault()

To prevent the default action of button or element

```
<a href= "https://www.google.com" id ="google">Google</a>

document.getElementById('google').addEventListener('click'
function(event){
  event.preventDefault(); // now not redirect to google just print the log
  console.log(event.target.id)
})
```

Definitions

Initially method or way used on the place of addEventListener()

In early time there are many methods or way to capture the event attachEvent() , jQuery -on

To remember :

Event Object : This object with contain many method like time when user click , position where it click and many thing like what was mouse position all the methods are there inside event object

Important of them

1. type
2. timestamp
3. defaultPrevented
4. target
5. toElement
6. srcElement
7. currentTarget
8. clientX ,clientY , ScreenX ,ScreenY
9. altkey, ctrlkey,shiftkey,keyCode