Full Stack Web Development Program

Day 22 - Event Handling

Titles

- Browser Events and Types

- Event Handlers in JavaScript

- Event Object

- Event Propagation

  - Bubbling

  - Capturing

- Stopping Propagation

- Event Browser Monitoring and

  Compatibility

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Learning Objectives

By the end of this module, you will be able to:

- Recall and recognize different types of browser events and event handlers in JavaScript.

- Comprehend the concept of the event object, event propagation, bubbling, capturing, and stopping propagation in JavaScript.

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JavaScript Event Handling

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Browser Events and Types

- Browser events are actions or occurrences that happen within the browser, which can be detected and responded to by JavaScript.

- In laymen language, events are recognized as the change in a **state** of an object.

- Various events can be triggered either by the user or by the browser automatically, based on the code.

- The process of responding to these events is called **Event Handling**.

1. User interacts with the page

Click me!

2. An "Event" occur

EVENT!

3. A piece of JS code runs in reponse

function myEvent() {
...
}

4. The page's appearance is updated/modified in some way as a result

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Browser Events and Types (contd.)

Mouse and Keyboard Events

Event	Description
click	Occurs when an element is clicked.
dblclick	Double click on an element.
mouseover	Mouse pointer moves over an element.
mouseout	Mouse pointer moves over an element.
mousedown and mouseup	Mouse button is pressed and released over an element.
keydown	When a key is pressed down.
keyup	When a key is released.
keypress	When a key is pressed and released.

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Browser Events and Types (contd.)

Form and Windows Events

Event	Description
submit	Occurs when a form is submitted.
change	When the value of an <input>, <select>, or <textarea> element has been changed.
focus and blur	When an element gets focus and loses focus respectively.
load	Fired when the whole page has loaded, including all dependent resources.
resize	When the document view (window) has been resized.
scroll	When the user scrolls in the document.

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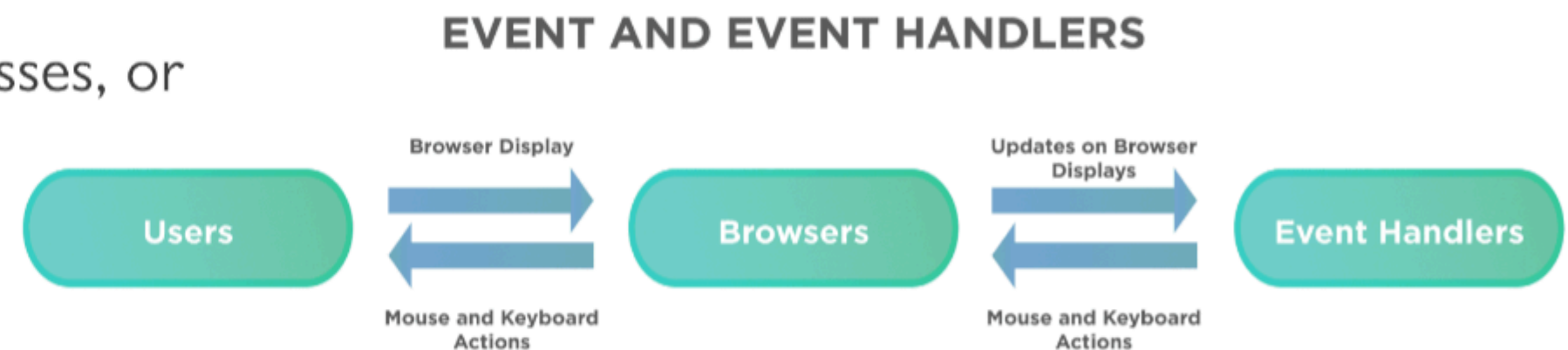**edureka!**

Browser Events and Types (contd.)

Touch, and Drag Events

Event	Description
touchstart	When a touch point is placed on the touch surface.
touchmove	When a touch point is moved along the touch surface.
touchend	When a touch point is removed from the touch surface.
drag, dragstart, dragend	Related to dragging elements and dropping them.

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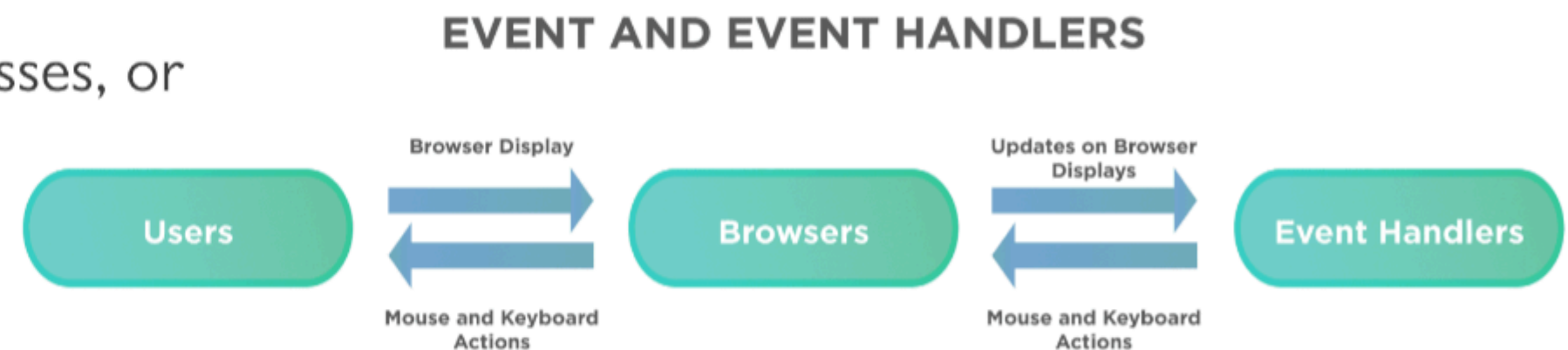
Event Handlers in JavaScript

- Event handlers in JavaScript are functions that are called in response to specific events occurring in the web page.

- They enable interactive web applications by responding to user inputs, such as mouse clicks, keyboard presses, or changes in form elements.

EVENT AND EVENT HANDLERS

- There are two recommended approaches for handling events:

  - Using **Property Event** Handlers
  - Using **addEventListeners**

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EVENT AND EVENT HANDLERS

	Browser Display			Updates on Browser Displays	
Users	→	**Browsers**	→	**Event Handlers**	
	Mouse and Keyboard Actions	←		Mouse and Keyboard Actions	←

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