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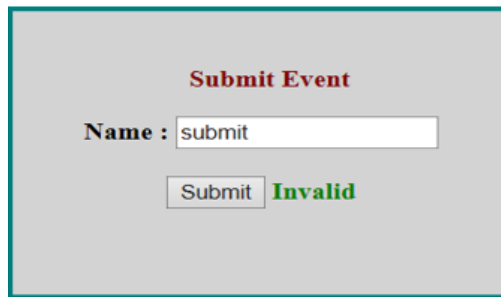
Introduction to 'JavaScript' Language

JavaScript Functions and Events

Module 8 - On Submit Event Type in JavaScript

On Submit Event

On Submit Event - The submit event occurs when a <form> is submitted, usually by clicking a submit button (<button type="submit">) or pressing Enter in an input field inside the form.



Why is it useful?

- It allows you to:
- Validate form data before it is sent to the server.
- Prevent the form from being submitted (e.g., via event.preventDefault()).
- Send the data with JavaScript.

Properties of On Submit Event

Property / Feature	Description
Event Name	submit
Triggered On	<form> elements
Event Type	UI Event
Default Behavior	Submits the form to the action URL (if not prevented)
Cancelable	Yes — use event.preventDefault() to stop form submission
Bubbling	Yes — bubbles up through the DOM
Target Element	The <form> element being submitted
Typical Usage	Validate form data before submission
Event Object	SubmitEvent (inherits from Event)
Common Handler Location	Inline (onsubmit="..."), or via addEventListener()
Modern Syntax	form.addEventListener('submit', function(e) { ... });
Access Form Fields	Via e.target.elements or directly via form field names (e.g. form.name)
Submit Button Not Needed	Can be triggered programmatically with form.submit()

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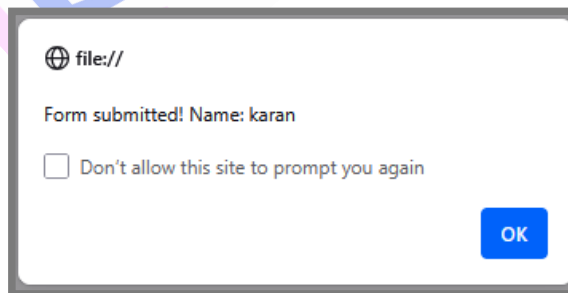
Introduction to 'JavaScript' Language

Solved Example 1:

```
<!DOCTYPE html>
<html>
<head>
  <title>Simple onsubmit Example</title>
</head>
<body>
  <form id="simpleForm">
    <label for="name">Name:</label>
    <input type="text" id="name" name="name" required>
    <button type="submit">Submit</button>
  </form>
  <script>
    // Get the form element
    const form = document.getElementById('simpleForm');
    // Add the submit event listener
    form.onsubmit = function(event) {
      event.preventDefault(); // Prevent actual form submission
      // Get input value
      const name = document.getElementById('name').value;
      // Do something with the data
      alert('Form submitted! Name: ' + name);
    };
  </script>
</body>
</html>
```

Explanation

- onsubmit is triggered when the user submits the form.
- event.preventDefault() stops the form from submitting to a server (useful for validation or JavaScript handling).
- You can access form values using document.getElementById(...).value.



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Solved Example 2:

```

<!DOCTYPE html>
<html>
<head>
  <title>Form Submit Example</title>
</head>
<body>

  <h2>Simple Form</h2>

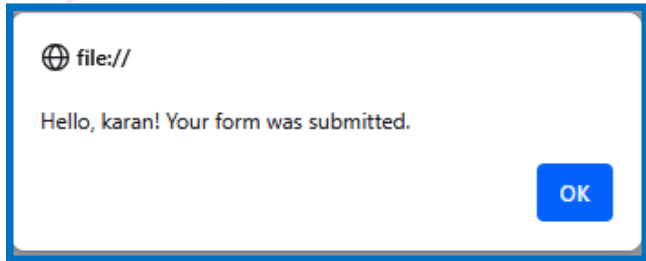
  <form id="myForm">
    <label for="username">Enter your name:</label>
    <input type="text" id="username" name="username" required>
    <br><br>
    <button type="submit">Submit</button>
  </form>

  <script>
    // Get the form element
    const form = document.getElementById('myForm');

    // Attach the onsubmit event
    form.onsubmit = function(event) {
      event.preventDefault(); // Stop the default form submission

      // Get the value from the input
      const name = document.getElementById('username').value;

      // Show the result
      alert('Hello, ' + name + '! Your form was submitted.');
```



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Explanation

- User enters a name in the input box.
- Clicks the Submit button.
- JavaScript intercepts the submit event.
- Stops the form from submitting or reloading the page.
- Shows an alert box saying:
"Hello, [name]! Your form was submitted."

Key Differences between Two Examples

1. Form & Input IDs

- First Example:
○ `<form id="simpleForm"> ... </form>`
○ `<input type="text" id="name" name="name" required>`

Uses simpleForm as the form ID and name as the input field ID.

- Second Example:
○ `<form id="myForm"> ... </form>`
○ `<input type="text" id="username" name="username" required>`
Uses myForm as the form ID and username as the input field ID.

2. Alert Message

- First Example: `alert('Form submitted! Name: ' + name);`
- Second Example: `alert('Hello, ' + name + '! Your form was submitted.');`
- The second one is more personalized.

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