Step-by-step procedure for form validation using JavaScript

1. HTML Form

Create an HTML form with input fields that you want to validate.

Add the required attribute to make sure the user fills in the mandatory fields.

JavaScript

```
<form id="myForm">
  <label for="name">Name:</label>
  <input type="text" id="name" name="name" required>

  <label for="email">Email:</label>
  <input type="email" id="email" name="email" required>

  <input type="submit" value="Submit">
</form>
```

2. JavaScript Validation Function

Create a JavaScript function to validate the form.

This function will be triggered when the user clicks the submit button.

JavaScript

```
function validateForm() {
```

```
  var name = document.getElementById('name').value;
  var email = document.getElementById('email').value;

  // Perform individual field validations
  if (name.trim() === '') {
    alert('Please enter your name.');
    return false;
  }

  if (!isValidEmail(email)) {
    alert('Please enter a valid email address.');
    return false;
  }

  // If all validations pass, the form can be submitted
  return true;
}

function isValidEmail(email) {
  var emailPattern = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
  return emailPattern.test(email);
}
```

3. Submit Button Event

Add an event listener to the form's submit button to trigger the validation function when the user submits the form.

JavaScript

```
document.getElementById('myForm').addEventListener('submit', function
(event) {
  if (!validateForm()) {
```

```
    event.preventDefault(); // Prevent form submission if validation
fails
  }
});
```

When the user clicks the submit button, the validateForm() function is called. It retrieves the values of the form fields and performs individual validations. If any validation fails, an alert is shown, and the form submission is prevented using event.preventDefault(). If all validations pass, the form will be submitted as usual.

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