

You

Sent by you:

In Javascript, I have a for loop that is counting the number of form checkboxes that are checked. The checkboxes all have an ID that begins with `Chk\${fieldName}_C` with an index number appended to the ID. See below.

```
let c=0;
for(let j=1; j<=optCount; j++) {
  let thisItem = document.getElementById(`Chk${fieldName}_C${j}`)
  if (thisItem && thisItem.checked==true) c++;
}
```

How can I use a lambda function instead of a for loop?

Copilot

Sent by Copilot:

You can use the `Array.prototype.filter` method along with a lambda function to count the number of checked checkboxes. Here's how you can do it:

JavaScript

```
let c = Array.from({ length: optCount }, (_, j) => document.getElementById(`Chk${fieldName}_C${j + 1}`))
    .filter(thisItem => thisItem && thisItem.checked)
    .length;
```

AI-generated code. Review and use carefully. [More info on FAQ.](#)

This code does the following:

1. Creates an array of elements using `Array.from` with a length of `optCount`.
2. Uses a lambda function to map each index to the corresponding checkbox element.
3. Filters the array to include only the checked checkboxes.
4. Counts the length of the filtered array, which gives the number of checked checkboxes.

Feel free to ask if you need further clarification or help with anything else!

Learn more

You

Sent by you:

Is there a way to rewrite this to use a CSS selector to select all form elements that begin with `Chk\${fieldName}_C\${j}`?

Copilot

Sent by Copilot:

Yes, you can use a CSS selector to select all form elements that begin with Chk\${fieldName}_C and then filter the checked ones. Here's how you can do it:

JavaScript

```
let c = document.querySelectorAll(`input[id^="Chk${fieldName}_C"]`)
    .forEach(thisItem => thisItem.checked)
    .length;
```

AI-generated code. Review and use carefully. [More info on FAQ.](#)

This code does the following:

1. Uses document.querySelectorAll with the attribute selector ^= to select all input elements whose id starts with Chk\${fieldName}_C.
2. Filters the NodeList to include only the checked checkboxes.
3. Counts the length of the filtered NodeList, which gives the number of checked checkboxes.

This approach is more concise and leverages the power of CSS selectors to simplify the selection process. Let me know if you need any further assistance!

You

Sent by you:

The `querySelectorAll()` is returning an object. But the `.forEach()` is returning undefined. What could be happening in this ?

Copilot

Sent by Copilot:

The issue arises because `forEach` does not return a value; it simply executes the provided function once for each element in the array. To count the checked checkboxes, you should use `filter` and `length` instead. Here's the corrected code:

JavaScript

```
let c = Array.from(document.querySelectorAll(`input[id^="Chk${fieldName}_C"]`))
    .filter(thisItem => thisItem.checked)
    .length;
```

AI-generated code. Review and use carefully. [More info on FAQ.](#)

This code does the following:

1. Uses `document.querySelectorAll` to select all input elements whose id starts with `Chk${fieldName}_C`.
2. Converts the `NodeList` returned by `querySelectorAll` into an array using `Array.from`.
3. Filters the array to include only the checked checkboxes.
4. Counts the length of the filtered array, which gives the number of checked checkboxes.

This should work as expected. Let me know if you have any other questions!

You

Sent by you:

I have tried: `let ca = document.querySelectorAll(`input[id^="Chk${fieldName}_C"]`).filter(thisItem => thisItem.checked);` But it says that `.filter` is not a function.

Copilot

Sent by Copilot:

The issue you're encountering is because `document.querySelectorAll` returns a `NodeList`, not an array, and `NodeList` does not have a `filter` method. To use `filter`, you need to convert the `NodeList` to an array first. Here's how you can do it:

JavaScript

```
let c = Array.from(document.querySelectorAll(`input[id^="Chk${fieldName}_C"]`))
    .filter(thisItem => thisItem.checked)
    .length;
```

AI-generated code. Review and use carefully. [More info on FAQ.](#)

This code does the following:

1. Uses `document.querySelectorAll` to select all input elements whose id starts with `Chk${fieldName}_C`.
2. Converts the `NodeList` to an array using `Array.from`.
3. Filters the array to include only the checked checkboxes.
4. Counts the length of the filtered array, which gives the number of checked checkboxes.

This should resolve the issue you're facing. Let me know if you need any further assistance!