

Functionality Investigation Sheet

Feature: Search functionality for the recipes page

Problem: To be able to perform search as fast as possible and display the result the moment they are typed into the search form.

Option 1: Using native loops (for / for of)

This option uses native loops to run through the array's items

Benefits

- Method is more straightforward
- It's more easy to see the loops structure in the code

Disadvantages

- Code requires additional variables and space for the loops
- Benchmark shows slower results than those for the array methods

Minimum number of characters to initiate the search: 2

Option 2: Using array class methods

This option uses array class methods to run through the array's items

Benefits

- Code is more compact
- Benchmark shows quicker results than those for the native loop method

Disadvantages

 Array methods could be less clear when looking through the code

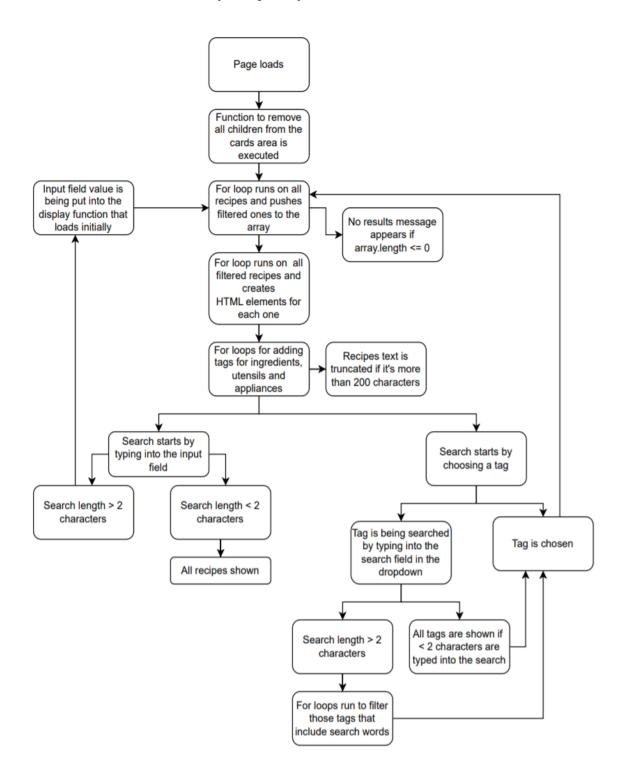
Minimum number of characters to initiate the search: 2

Solution retention:

In general I would suggest using the array methods approach as it uses less code and runs slightly faster. For loops method can still be used if more straightforward code structure is needed for possible future changes, but apart from that array methods approach seems to be more efficient.



Flowchart for the native loops method (script-A)





Flowchart for the array class method (script-B)

