#### **Les Petits Plats**

## **Functionality Investigation Sheet**

Feature: Search for recipes containing keyword

Problem: Needs to be efficient and fast to be run on client side

#### Option 1:

Dictionary Approach:

Preprocess data on load (or server side) and store all possible three letter combinations from keywords contained in the recipes into a dictionary. Directly read the related entry after search input.

#### Benefits:

Lightning fast (4 microseconds) for actual search Very scalable for big datasets

### Disadvantages:

Overhead for small datasets (no noticeable difference in performance)

Code is less flexible

## Option 2:

Recursive Crawler:

Takes any kind of data(array) and compares entries to the search input on runtime, returning references to matches. Recursively calls itself if confronted with a nested object.

#### Benefits:\*

Very flexible in its use case Very robust and efficient code

### Disadvantages:

Runs through whole dataset on each search input Not scalable for big datasetsFunctionality Investigation Sheet

#### **Conclusion:**

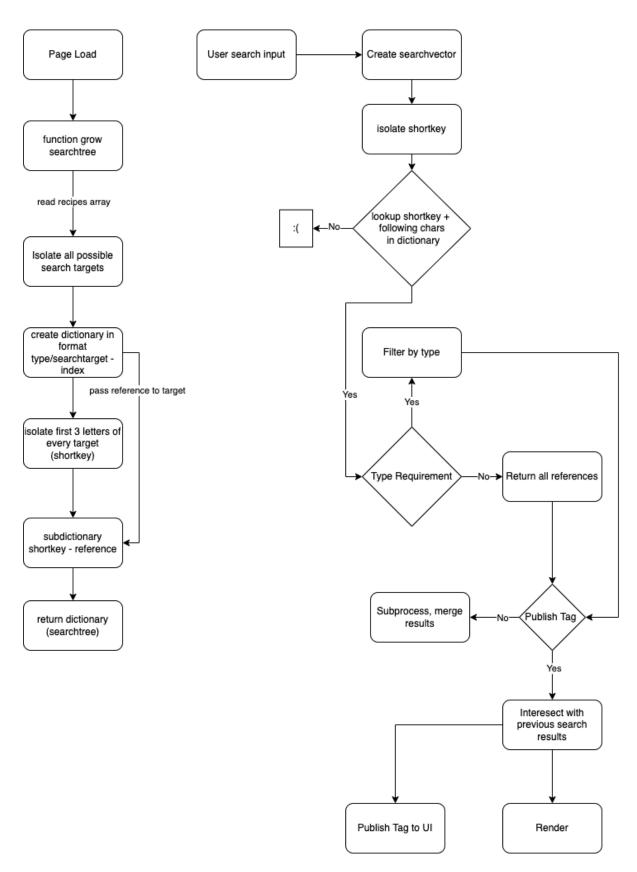
Algorithm 2 for this use case and dataset size, Algorithm 1 for substantially bigger datasets

### Link to Github Repo:

https://github.com/TomOeggl/p7.Searchtool

## Annexes:

## Option 1



# Option 2

