

Reciperian

NCCU Data Structure Final Project Group 5

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LIFE IS LIKE

a box of chocolates

**YOU NEVER
KNOW**

what you're

GONNA GET

Forrest Gump

“

Can't you

FIND THE RECIPE

that you wish to have?

”





Motivation

- We are always frustrated about choosing what to eat for our meal. With this search engine, we ought to get some inspiration.
- We can get many similar recipes, and get the best one by ranking the list with some weights.

Accomplished stage

- **Stage 1:** Get the google search result by the keyword (Google Query)
- **Stage 2:** Get the children webpages of the google search results (Google Query)
 - Based on code provided by TA, we have written the "getLinkScore" object to get all the children webpages and their grandchildren webpages out of the search results by Google.
- **Stage 3:** Build the keyword list which contains the similar keywords and weight them(Keyword, KeywordList)
 - We have build a list of food that have different weights, ranging from chicken, pork, beef to seafood and so on. We also allow users to input different keywords as well as the ingredients on their own.

Accomplished stage

- **Stage 4:** Rank and sort(Index, GoogleQuery, KeywordHeap, KeywordComparator)
 - Given the weights and the keywords, we can then store the url, title and weighted score into Hashmap.
- **Stage 5:** Show the result on website(Search.jsp, googleitem.jsp)
 - We have leveraged jsp to output our results onto html.

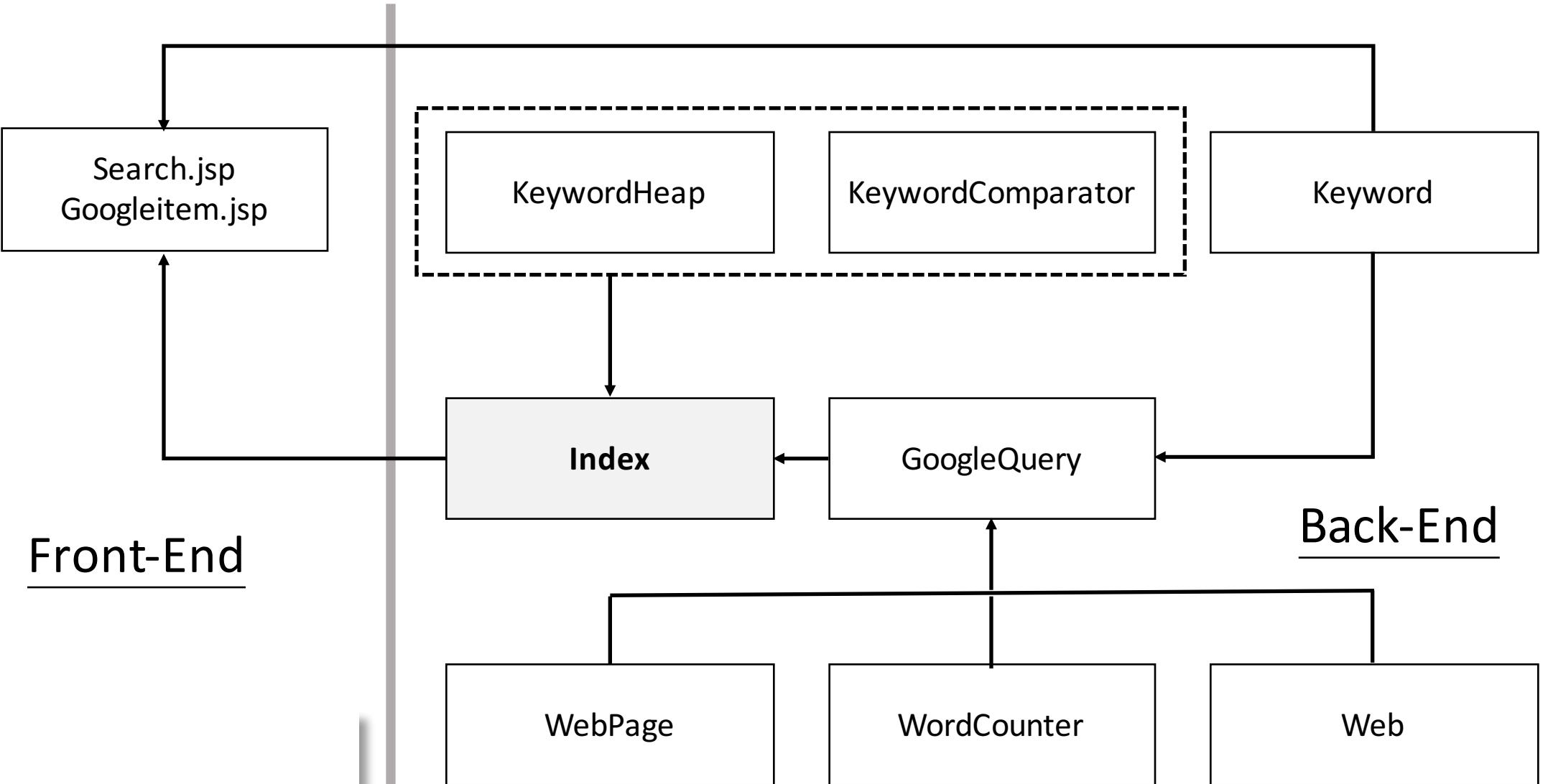
Scoring Formula

Webpage's Score

- = Webpage's score itself
- + Children sub webpage's score
- + Grandchildren sub webpage's score

Score = The count of certain keyword
 appears in the content of a x Keyword's Weight
 page's source code

Class Diagram



Search Examples

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Search For Optimal Recipes

Recipe Name

Search

Ingredient

Cooking Techniques

Other Ingredient

Search



Search Examples

Search For Optimal Recipes

[Delicious Stew Recipes - Kraft Recipes](#)

<https://www.kraftrecipes.com/recipes/577/meal-recipes/.../stew>

[Slow-Cooked Panama Pork Stew - Campbell's](#)

<https://www.campbells.com/.../recipes/slow-cooked-panama-pork-stew/>

[Mexican chicken stew - Recipes - Co-op](#)

<https://www.coop.co.uk/recipes/mexican-chicken-stew>

[Classic Brunswick Stew With Pork and Chicken - The Spruce Eats](#)

<https://www.thespruceeats.com/brunswick-stew-with-pork-and-chicken- 3052066>

[West African Chicken Stew Recipe | Taste of Home](#)

<https://www.tasteofhome.com/recipes/west-african-chicken-stew/>

[Chicken Stew - Spend With Pennies](#)

<https://www.spendwithpennies.com/chicken-stew/>

[The Best Green Chile Stew - Barefeet in the Kitchen](#)

<https://barefeetinthekitchen.com/best-green-chile-stew-recipe/>

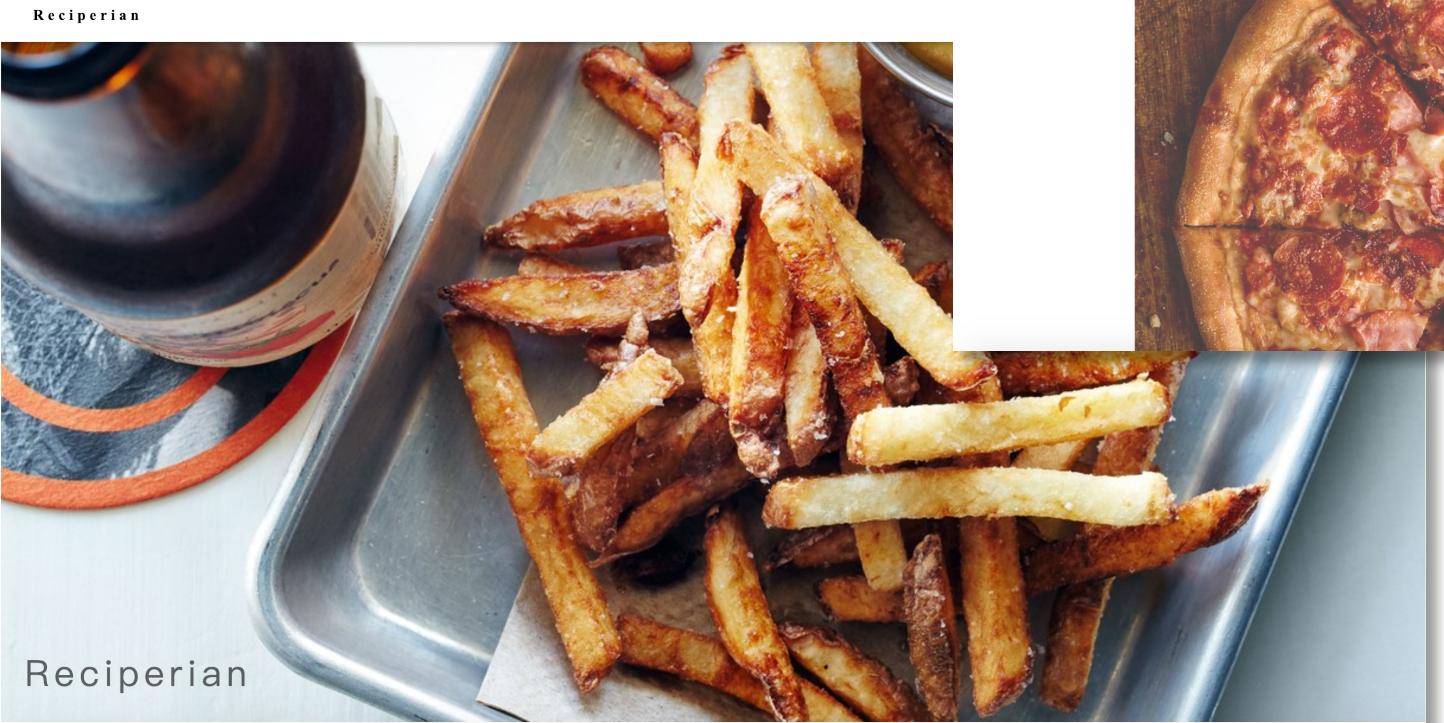


Potential Improvements

- Enlarge the keyword list
- Implement different weights according to keyword's html tag
- Search for the images in a webpage and fetch those images to display on our searched result



Project Demo



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Reciperian

About Us

Tradition since 2019

Reciperian is founded by three experienced chefs who enjoy cooking, sharing recipes and making friends with foodies worldwide. We hope to help foodies to search for their desired recipes which can satisfy their appetite for delicacies. We are also looking for software engineers who would like to contribute their expertise to bring awesome recipes to the world. In addition, partnerships with advertisers and any donation are also welcomed! Feel free contact us!

Chef Vincent Chen 106306001 MIS student with great sense of fast food recipe

Chef Ele Hsieh 105302055 Money & Banking student with expertise in fried and roasted dishes

Chef Jeremy Chuang 103303005 Accounting student with 20+ years of cuisine sampling experience, specialize in dairy related dishes

