DS proposal

Group 11
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Introduction

1. Topic

   國內溫泉旅遊 Travel to hot springs in Taiwan

2. Keywords

   冬天 溫泉 飯店 泡湯 台灣 美景 渡假村 SPA 湯屋 泥漿溫泉 水療

3. Website

   https://www.funtime.com.tw/blog/funtime/top-10-hotspring-in-taiwan
   https://blog.kkday.com/3769/asia-taiwan-hot-spring
   https://www.taiwan.net.tw/m1.aspx?sNo=0001035
   https://asiayo.com/event/taiwan_hot_spring.html
   https://event.kais.com.tw/tw/%E5%9C%8B%E5%85%A7%E6%BA%AB%E6%B3%89%E9%A3%AF%E5%BA%97%E8%88%87%E8%A1%8C%E7%A8%8B%E7%B2%BE%E9%81%B8/

4. Motivation

   Due to the serious pandemic this year, people in Taiwan can't travel abroad. As the weather getting colder, the request for taking a hot spring increases. It is fine that we can't go to Japan, this search engine will help you find the fantastic places to enjoy hot springs!

   From the north to the south, and the east to the west, there are plenty of hot springs with different characteristics that you can choose from. Those amazing hot springs can not only help you escape from the distressing daily life, but also make you go through the winter with warmness. Furthermore, with the tourism policy to encourage people traveling around in Taiwan and the triple stimulus vouchers, you can save a great amount of money while having a really amazing hot spring tour in Taiwan now!
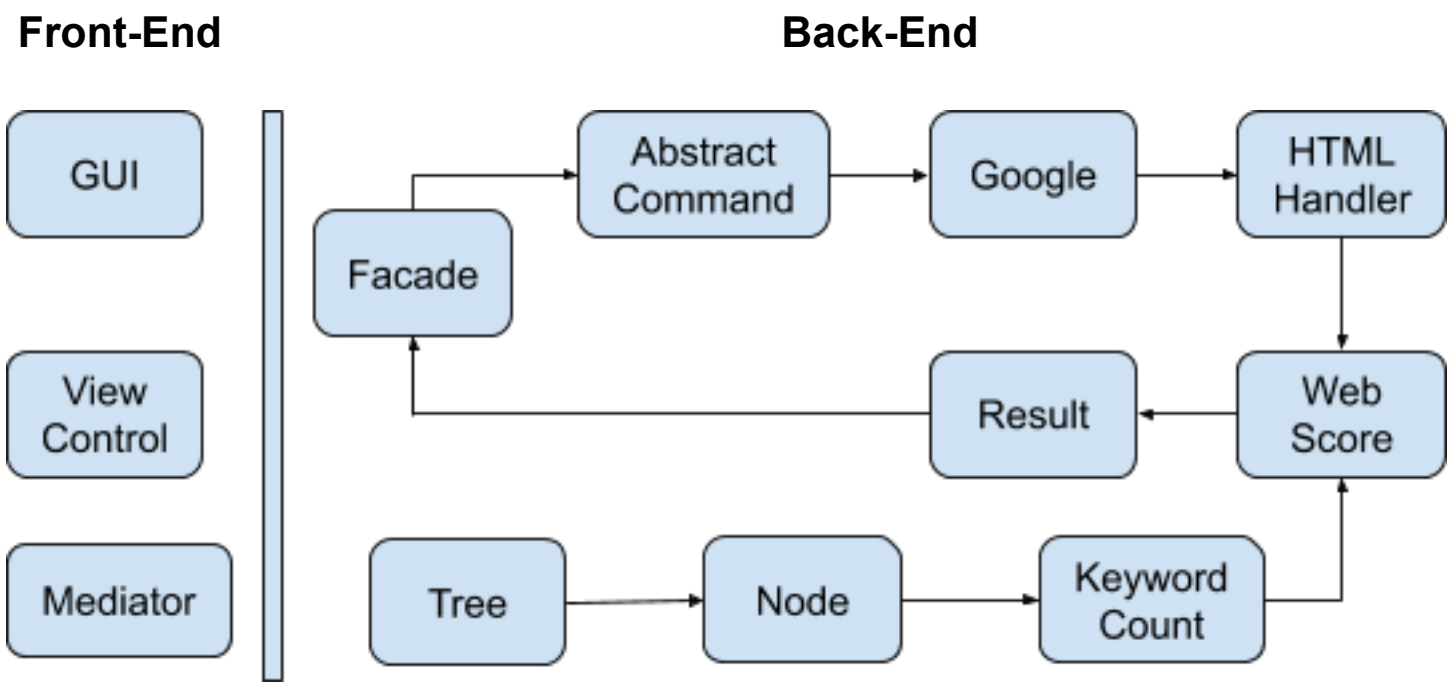
Search Tricks/ Score Formulation

Set keywords' weight

Keyword	冬天	溫泉	飯店	台灣	美景	度假村	SPA	湯屋	泥漿溫泉	水療	泡湯
Weight	2	5	4	4	2	4	3	4	4.5	3	5

System Design/ Class Diagrams

- System Design
  1. Users
     People who want to visit a hot spring
  2. Functions of systems
     a. Calculate each website's score (including its subpage)
        → **Keyword.count * Weight**
     b. Rank the websites based on their scores
  3. How to use
     Enter the keyword

- Class Diagram

Front-End   **Back-End**

Schedule

Task description		Start date	Finish date
1	Design	11/19	11/30
1.1	Content Elements	11/19	11/20
1.2	Design Layout	11/20	11/22
1.2.1	Home Page	11/23	11/25
1.2.2	Searching Page	11/26	11/28
1.2.3	Result Page	11/29	11/30
2	Development	12/1	12/30
2.1	Back-End	12/1	12/23
2.1.1	Html Handler	12/1	12/6
2.1.2	Keyword	12/7	12/10
2.1.3	Node	12/11	12/18
2.1.4	Tree	12/19	12/23
2.2	Front-End	12/24	12/30
2.2.1	User Interface	12/24	12/30

3	Evaluation	12/31	1/5
3.1	Project Demo	1/5	1/7

Challenges

1. 用不同語言輸入Keyword會找不到相關資料
2. Keyword不夠詳細，導致有些網頁沒有搜尋到
3. 搜尋結果太多導致速度變慢
4. 怎麼抓google的搜尋結果並進行篩選
5. 網頁轉應用程式
6. 前後端怎麼連接
7. 跳出來的網頁的搜尋結果html要怎麼寫