Where Next

Intelligent Volunteer Matching

Searching for volunteer events is <u>hard</u>

- Difficult to find events
- People have an idea of how they want to help
- Results are 1 size fits all
- It's discouraging when you want to help but can't seem to find a way.

Problem

VolunteerMatch

Join • **Opportunities** • Organizations • Volunteer Stories

NARROW YOUR SEARCH

save the environment

Advanced Search
(Search by Country, Skills and more!)

LOCAL or VIRTUAL

Local (you'll go to a physical location)

...n do it from a computer, ...nywhere!)

? Help

We've found 1 volunteer opportunities near 📍 525 S Main St, St Charles,...
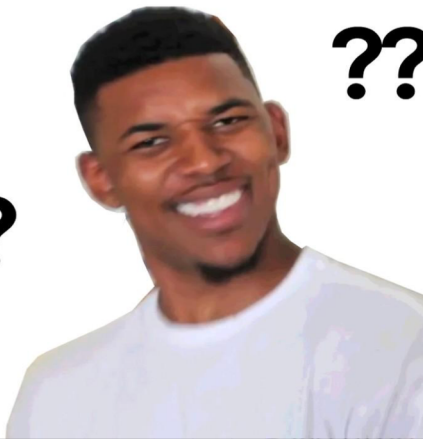
DISPLAYING 1 - 1 OF 1   SORT BY   Near You & N...

Museum Volunteer

with **The Field House Museum**

Volunteers at the Field House Museum are exposed to a variety of opportunities in the museum **environment**. Because we are a small museum,...

Save time
More t...
one...

Be...

Proposal

Where-Next: A more intelligent Volunteer search

Featuring Freeform search queries

Try typing
I am a Designer
I am interested in cooking
I want to help with tutoring
Literally anything you're thinking now!
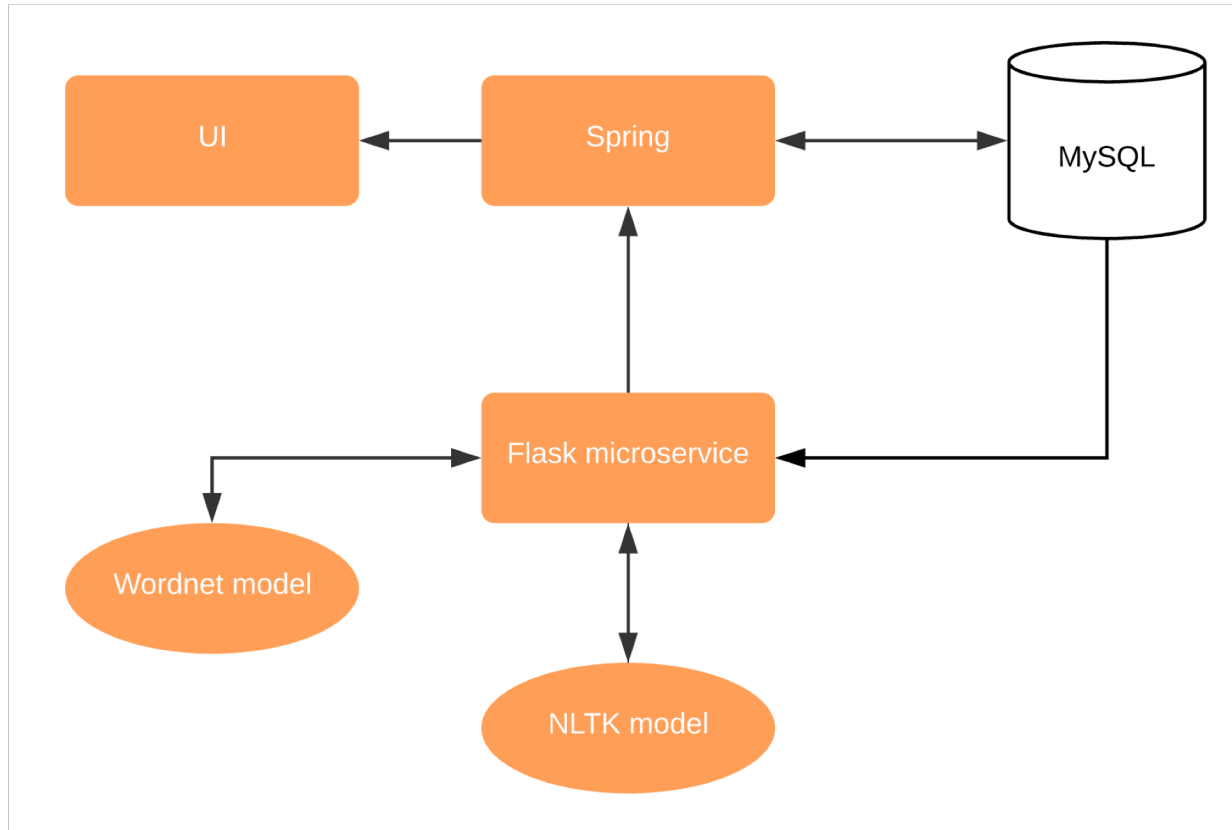
NLP (Natural Language processing)

Part 1

- Wordnet: find synonyms of keywords

Part 2

- NLTK: search through summaries
- Tokenizer: TF-IDF
  - splits sentences into words words into sub/base words
- Vectorizer
  - encode words into numbers based of features or frequency

- Cosine Similarity
  - After vectorizing statistical methods can be applied
  - cosine sim is applied in lots of recommendation engines
- K-neighbors
  - find summaries matching with keywords

Architecture

Demo

https://youtu.be/8S63r1YJjlk

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