SEARCH BACKEND

Introduction

This app is used to search a word and result will be in the form of an array of 25 words, constructed by taking care of many cases.

Design

The backend is designed using Django framework which is one of the most popular framework for building web app using python.

Database used in this app is from postgres, which contains one table name Data comprising of 333333 entries of word and there frequency.

Functional Design

The result user get backs is filtered by few criteria mentioned below:

1. Matches occur anywhere in the string, not just at the beginning. For example, ’eryx’ should match ‘archaeopteryx’.
2. The ranking of the result fulfil below 3 constraints:
3. We assume that the user is typing the beginning of the word. Thus, matches at the start of a word should be ranked higher. For example, for the input pract, the result practical should be ranked higher than impractical.
4. Common words (those with a higher usage count) should rank higher than rare words.
5. Short words should rank higher than long words. For example, given the input environ, the result environment should rank higher than environmentalism.

Note:- The search algorithm designed incorporates a weighted average of all the above criteria.

Deployment and Source Code

The app is deployed on HEROKU server ([https://searching1.herokuapp.com/search/?word=<query\_word](https://searching1.herokuapp.com/search/?word=%3cquery_word)>)

For eg. We want to search the word ‘oooh’ , link /api should be (<https://searching1.herokuapp.com/search/?word=oooh>)

Production source code is uploaded on (<https://github.com/kartik1695/fuzzy_search>)

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