Sensitivity Based Search(SlidSearch)

I. Project

There is large variety information available on internet. It is difficult and time consuming to find the relevant information when required. The success and popularity of a search engine is determined by its ability to produce the most relevant results to any given search, poor quality or irrelevant search results could lead users to find other search sources. This project will help to search large amount of database effectively to fetch relevant information. Many time when one types keyword to search. The results in which it appears very less are also included. So, this project facilitates users to set the sensitivity of search by using a **sliding bar** sort of widget below search button.

> ➢ **Pros**
> - It will avoid irrelevant information to appear in results.
> - User defined search algorithm.
> - Reduces effects of **Black hat** SEO techniques.
> - User will have to go through very less information.
> - Increases the quality of results with optimized quantity of results.
> - Less time consuming for users.
> - Easy to use.
> - Make searching flexible.

II. Implementation

> ➢ The data searched depends on sensitivity and sensitivity is of following parameters:
> - How frequent is the keyword(**meta tag**)
> - Downloads count of file
> - Number of visitors
> - Page Rank
> - Based on semantic understanding of webpage

Using the data from the above predefined parameters sensitivity can be calibrated and user can change sensitivity according to his/her requirement.

- If user set the sensitivity high then program will check for density of keywords along with downloads count of file, Number of visitors, Page Rank ;after searching the pages in which this parameters are on higher side are included in results.
- For different value sensitivity weightage of different parameters is predefined.
- As this algorithm does not depend on meta tag alone effect of black hat SEO techniques can be implemented.

III.Timeline

➢ **April 23 - May 20 (Community Bonding Period)**

Will take a closer look at code of searching algorithm such as Google Hummingbird, Google Penguin, Google Panda, Google Instant. Also discussing new parameters that can optimize search. Will discuss with mentor as well as other community people and will take feedback which help to make searching more flexible.

➢ **May 21- June 10 (Coding - Phase 1)**

Implementing search algorithm with different weightage of parameters mentioned above. Simultaneously bug fixing and user feedback will be taken if any improvement is needed.

➢ **June 11 - June 30 (Coding - Phase 2)**

Implementing sliding bar with different weightage values obtained from Phase.and and timing analysis to measure how quickly results are obtained .Simultaneously bug fix and user feedback.

➢ **July 1 - July 15 (Coding - Phase 3)**

Implementing this search with various data such as documents, video, images music, online shopping etc. and fixing bug.

➢ **July 16 - July 31 (Coding - Phase 4)**

Implementing support for external devices

➢ **August 1 - August 13 (UI Polishing, Bug fixing)**

Doing UI polishing to make it easy to use . Encouraging other community people and users to use such algorithms and to report bugs if any and getting their feedback to improve SlidSearch. Fixing the posted bugs.

➢ **August 14 - August 24 (pencils down)**

IV. Background Information

I am pursuing B.Tech in Electronics and Commnication from Nirma University. This being my first experience with any open source organization I am very enthusiastic about it. I am good at coding and more importantly very good when it comes to algorithms. I have coded in language such as C, C++, Java and I have also worked with some technical computing language such as Matlab, Scilab . I learnt about GSoC from my seniors and found it interesting. I will be in India during summer of code. I have no prior commitments during summer so GSoC will be main focus. On an average I can devote 6 hrs/day for coding.

V. About me

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