

Advanced Internet Information Processing

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Programming Project

Group Members

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(1) Project description

Our project Job Search helps to find jobs with criteria such as job title, job specialization and keyword (if no fitful search results are found then it matches keywords in job description and other columns such as region, state, city, company name).

- I. **An itemized description:** The following functions help to generate ratings for search query:
 - a) **computeAJobTitleRating():** For finding the Job Title, we used LIKE keyword/feature in sql query to match job titles for an exact and partial match. The ratings are returned based on the search query. If an exact match is found then the rating is 100. In the case of a partial match the rating is computed based on differences in search string. For example, if Analyst is selected in job title, it gives a rating 100 to jobs with title Analyst and Programmer Analyst gets a penalty of 10 since there is one difference in the search string and Senior Programmer Analyst gets a penalty of 20 since there is a two-word difference in the return results.
 - b) **computeAJobSpecRating():** For matching the job specialization field, we first change the query to use LIKE keyword/feature. Next, we loop through all possible words in job specialization i.e. “Digital Design” is searched as “LIKE Digital Design OR LIKE Digital OR LIKE Design”. This ensures that jobs like Logic Design and Analog Design are included in the search results. Now for the ratings, similar to job title, we assign ratings according to selected option in drop down menu. For example, if Digital Design is selected, then Digital Design specialty jobs get 100 rating and Logic Design and Analog Design gets a penalty of 10.
 - c) **computeAJobRatingBasedOnKeyWord():** If job title and job specialization, region state, city, job type etc. are selected as “any” and a keyword asked to be searched with 3 characters or more, then the matched keyword in all the columns are displayed with a rating of 100 for exact matches and penalty of 20 is assigned for non-accurate matches and we add 2 for each partial match. We add this 2 for each partial match to make sure the ratings remain above zero. If any of the drop downs are selected and a keyword is asked to be searched then we use the same rating logic for exact matches and penalty for partial matches.

II. **Please open README.txt.**

III. **URL:** http://newfirebird.cs.txstate.edu/~m_g859/cs5334-php/index.php

IV. **Directory of project:** /home/Students/m_g859/public_html/cs5334-php