JOB SEARCH SYSTEM USING INTELLIGENT AGENT

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Abstract

Finding jobs that best suits the interests and skill set is quite a challenging task for the job seekers. The difficulties arise from not having proper knowledge on the organization's objective, their work culture and current job openings. Summer jobs are becoming year-round side work. Even I'm rolling up my sleeves on the path of researching the best apps that will put to work on tasks, jobs and chores in one's extra time. We set the hours and the amount of time you want to carve out for this side work. An app for finding small paid work in your local area. It is for users who are in need of some quick cash and willing to do small works like repairing a computer, babysitting, mowing a lawn and other similar tasks.

Keywords:-job, Job Search, agent

1. INTRODUCTION

Finding jobs that best suits the interests and skill set is quite a challenging task for the job seekers. The difficulties arise from not having proper knowledge on the organisation's objective, their work culture and current job openings. Summer jobs are becoming year round side work.Even I'm rolling up my sleeves on the path of researching the best apps that will put to work on tasks, jobs and chores in one's extra time. We set the hours and the amount of time you want to carve out for this side work.

In general, employers do not register themselves with these mediums to provide full details of the job specifications but instead post important details on their own website only. Also with the growing number of online job search engines, making it almost impossible for job seekers to get an overview of all relevant positions. Therefore we do not always get to know all the vacancies, the nature and status of the employer to decide if this is the sort of job that is being sought.

Also at times we get flattered by the job providers profile but don't get information about the rating of the company by the existing or past employee in terms of salary and so. Taking all these into consideration we propose to develop an intelligent agent (instead of a human agent) to perform the same search operations by interacting with the employer and job search coordinator agents. We propose to use an agent based utility concept to provide suitability profiling based on configurable

factors such as distance from work, days and shift requirements, work environment, safety and hazard considerations, remuneration, skill-set, etc.

2. RELATED WORK

Our main aim is to provide an easy going application for people who are in search for small paid work in our local area. It is for users who are in need of some quick cash and willing to do small works.

To understand the problems and struggle faced by the rural people in their daily life and try to relate the solution to their problems by applying the basic understanding of our engineering knowledge.

The existing system for job recruitment includes traditional methods like Employment agencies, advertising through newspapers, televisions and radios, college fairs etc., which are too slow and stressful. With the advancement of internet, jobseekers rely on the online job portals, which makes the job search efficient. Again, most of these are limited to the web/desktop applications, which requires jobseekers to have a laptop or desktop connected to internet and is not handy. And disadvantages include: Time Consuming, Stressful, Challenging.

Job Search System is a Java-based android application that provides functionalities of erecruitment on portable devices like Android based smart phones/tablets. The applications do not require internet to perform the desired functionalities. Advantages: Cost and Time efficient, Portable.

Job Search System is developed to provide an effective means for the employers to post job openings with required qualification to have a better penetration into the job market and jobseekers to find out the information regarding the current openings in the organization or in the market.

In addition, job seekers can view the reviews provided by the applicants to make necessary improvements in their system if needed. Job search System is an android application providing flexibility for the users.

3. IMPLEMENTATION

1. login/signup

2. If role is Job Provider: - choose location and post the job

3. If role is Job Seeker: - choose the job needed

Advantages: Accuracy, Classification.

Disadvantages: Processing time.

Job Search Algorithm: Job-search theory attempts to propose strategies for making optimal employment decisions by considering factors that determine individual's demands and their prospect for finding an acceptable job offers.

The variables to be considered are: Industry, Occupation, Education, Job Type (Full-time, part-time, contract, etc.), Career Level (amount of experience obtained versus what is required for the job),Salary and Allowances (salary and all additional benefits).

Proposed System: Job Search System is a Java-based android application that provides

functionalities of recruitment on portable devices like Android based smart phones/tablets. The applications do not require internet to perform the desired functionalities. Advantages: Cost and Time efficient, Portable.

Purpose of the System: Job Search System is developed to provide an effective means for the employers to post job openings with required qualification to have a better penetration into the job market and jobseekers to find out the information regarding the current openings in the organization or in the market.

In addition, job seekers can view the reviews provided by the applicants to make necessary improvements in their system if needed. Job search System is an android application providing flexibility for the users.

Fig: - 1System Architecture
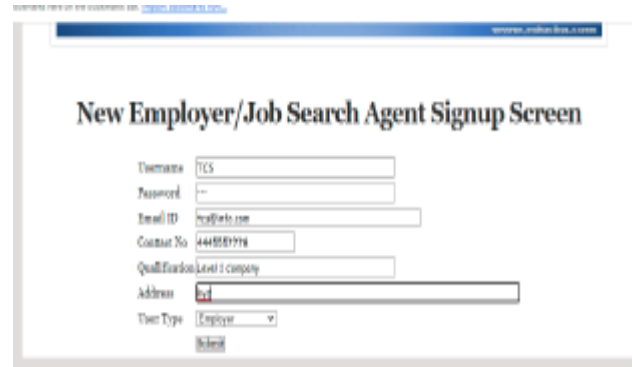
4. EXPERIMENTAL RESULTS

Fig: - 2 Signup screen

Fig 3 job search result screen

5. CONCLUSION

Job Search is a very involved process that could require hours of interaction with different search sites, applications, human agents, etc. The developed system intelligently anticipates the needs of the user and makes intelligent decisions based on fuzzy preference rules and dynamically make location, salary markup and markdown, and allowances choices that are perceived as beneficial to the user. This is evident in the results presented in the form of scenarios and supporting screenshots. The system could be extended to include a secure application process where the applicant's experience and education is verified possibly by including biometric data along with
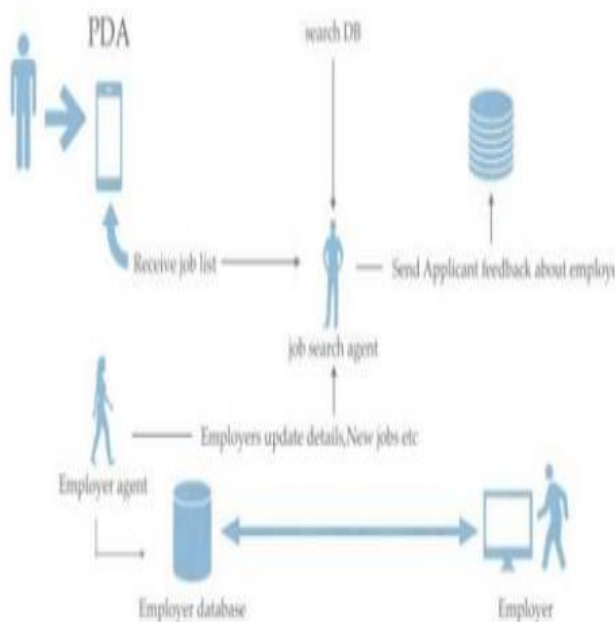
the job application details which has been published elsewhere. In addition the job search process could enhance the calculation of utility by including risk factors of success in choosing one job over another. This could enhance the probability of applying for the job that would be most suitable for an applicant on many levels. This project fulfils the primary requirements of the job seekers and employers. It can be extended in several ways – We can provide recommendations and email updates for new job postings based on the job seeker's search history. Since, the job seekers might be interested in building a strong Resume, we can provide tips and information for the same. We can also provide templates for building the Resumes which might interest most applicants. The mobile application is developed fulfilling the functionalities of job seeker, it can be extended to support functionalities of Employer as well.

6. REFERENCES

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