

Online Task Auction System

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Abstract- *The proposed web-application basically provides a means of temporary employment to people and also gets the work done easily. People can post or upload the task or work for auction and get the work done. They don't need to go out and search for work or workers. Users can get the work done with high quality at cheap price. The users can also find works and earn.*

I. INTRODUCTION

The proposed system is a web application which is built using HTML, CSS, JS and PHP. It is based on the concept of freelance marketplace system. It allows to connect the users with each other for the purpose of task auction. It provides a platform for all people where they can upload tasks or works and hire people for completion of those tasks or works. After successful completion of tasks people will be paid for their works and can gain experience.

II. LITERATURE REVIEW

- A. Job auction system enables consumers to post job details for a job and allows service providers to view the job details and submit a proposal to the consumer for the job and enables the consumer to select a proposal from one of the service providers. The system enables the service providers and consumers to interact by modifying job bids and job details.
- B. Online freelance marketplaces are websites that match buyers of services with freelancers. In these websites, buyers face uncertainty over seller quality. A buyer decides whether to choose a bid from current set of bids, cancel the auction or wait for more bids. It provides dynamic selection based on bid arrival rates and buyers' preference for bids.
- C. In the present world people are becoming smarter because of technology. People prefer multitasking and as a result they prefer digitalized systems rather than manual process. The use of web applications are increasing day by day. People are more comfortable when they get online services. So if there are people who are searching for workers for their business purpose, domestic works or any other services, they would prefer it online rather than searching for workers manually in the city. Thus, many online systems are being developed for hire and work purpose. It provides solutions to hire workers easily and get the work done easily without wasting much time in manually searching for workers.
- D. Nowadays, the use of internet based job search services are increasing. An online web based platform is provided which allows employers to post job descriptions and hire candidates using multi-phase approach. The employer provide initial questions with job description which has to be answered by the candidates. The employer can select candidates based on this information. Then the selected candidates have to go through two more phases consisting of second questionnaire and telephone interview. Finally selected candidates are called for in-person interview and are hired. Thus this online platform provides easy to access and digital records of recruitment and evaluation process.
- E. A computer-implemented method and system for determining a need to hire a new employee. The need to hire a new employee is determined and based on a labor resource planning agent (LRPA) which automatically calculates human resource deficiencies and excesses for use by a human resource manager in making hiring decisions.
- F. Crowdsourcing of jobs to online freelance platforms is rapidly gaining popularity. Most of these platforms are uncontrolled and offer freedom to customers and freelancers to choose each other. This works well for unskilled jobs with no specific quality requirement. For skilled jobs, quality requirements are must.
- G. Online freelance marketplaces are websites that match buyers of electronically deliverable services. Technological innovations such as electronic deliverability of jobs and fast Internet connections have increased the supply of remote jobs that can be performed by freelancers. In addition to that, online freelance marketplaces offer a low cost way for geographically distant players to materialize their business ideas. There is an abundance of skilled workers in emerging economies (Indian subcontinent, Eastern Europe) that have low costs of living, and a healthy demand for skilled workers in developed countries (where local labour is expensive). Many businesses are opting for these websites for getting their job done by the remote workers. These websites give Freelancers (Job Seekers) a cutting edge platform on

which to highlight the skills and experiences in attracting or retaining the businesses.

- H. There is a tremendous increase in research activities of web programming due to commercial, social and educational importance of web technology. There are several methods for writing PHP codes such as Object Oriented Programming (OOP), Procedural PHP coding and Model View Controller (MVC) pattern. Model View Controller (MVC) which is one of the most powerful method for developing PHP application has many variants such as Laravel, Symfony, CodeIgniter, CakePHP etc. However, selection of best MVC framework among the variants is of concern to the programmers as well as project managers, especially when managing big applications. Hence, performance evaluation criteria are required..
- I. PHP is a server-side scripting language designed for web-based applications. There are many advantages of PHP language, for example performance, scalability, open source, portability, loosely typed etc. One of the important features of PHP is that it is easy for developers to connect to and manipulate databases. Web application framework usually implements the Model View Controller (MVC) design pattern. The MVC pattern is a proven, effective way for the generation of organized modular applications. The MVC pattern breaks an application into three modules: model, view and controller. The model consists of database connectivity and SQL queries. The view consists of user side scripts. The controller consists of PHP code which connects model and view.

III. STUDY FINDINGS

- A. There are various challenges in providing an online service or job auction. The description of the job posting has to be complete enough for providers so that they can start bidding. If no one bids for a job that is posted, the person who has posted should be able to modify auction.
- B. Online job or service auctioning is a successful and widely used e-commerce application on the internet. There are many companies that provide online auctioning of goods as well as services. These applications provide a platform for auction and reverse auction of goods or services.
- C. Workers apply for jobs by bidding in auctions, and firms reward the job to the applicant who offers it the most profit. In equilibrium, more productive applicants always outbid less productive ones, but the threat of competition holds down the former's wage demand. The equilibrium of the job auction model is always efficient, in contrast to standard search models.

- D. This field of freelance marketplace describes many novel consumer Internet services which are built on common principles of intelligent hosting, direct trade between individuals and small businesses without middlemen, direct matching of individuals, aggregated persistent search for any commodity or service, and safe electronic commerce and personal communications environment. It also describes the integration of consumer Internet services into a consumer-centric Internet portal

IV. CONCLUSION

Online task auction system is a web based application which is created using PHP in MVC structure. The proposed system will be very beneficial and convenient for the users in their day to day life. This system provides task auctions which makes users to find works as well as get their work done easily just by logging in into this task auction community system. It provides great opportunities of employment for users to earn their life by doing part time projects/tasks and to show their skills. The users who need to get their works done can simply post their tasks or works with required details and wait for other users(bidders) to bid on it. The interested workers will bid on these tasks and the user can hire a bidder with affordable cost. Once the task is successfully completed, the worker will be paid. The users of this platform will be having dual functionality. That means a user can post task as well as bid on tasks. Thus the proposed system will make the process of hire and work easier. This web-application will provide employment to users and users can also gain experience. Also it will help users to get their works done easily without wasting time as in manual process.

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