

Survey on Coders and Buyers Platform

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Abstract: Due to Covid-19 pandemic, the rate of unemployment is on upsurge. The main objective is to solve the joblessness of the skilled coders. The approach is to bring coders and buyers on a single platform. Also it provides web interface to buy or develop their custom software. This approach will improve the job opportunity of skilled coders..

Keywords: Coder's, Buyer's, Unemployment, Software

I. INTRODUCTION

The main goal of this survey is to provide more job opportunities to the skilled coders. As a result of Covid-19 pandemic many of the peoples are facing salary cuts and joblessness. The current approach would be very useful for those who need a job as a coder. This approach allows the customers who need to build custom applications can find coders in a business friendly environment. Both coders and buyers can be benefited from this approach. It contains mainly three modules and each module has its own features.

II. THEORY

2.1 Applications

An application additionally referred as application or application software system. it's a laptop software system package that performs a selected perform for the tip users. associate application are often a gaggle of programs. Applications requests services via associate application programming interface. completely different completely different} applications perform different functions. Applications are often put in from app stores or downloaded from the web. picture editor, mobile apps like video play square measure examples for applications.

2.2 Coders

A technologist could be a skilled United Nations agency understands programming languages and writes programmes to perform specific tasks. Coders square measure chargeable for writing programs in several languages. technologist means that perpetually learning, reading, planning, mapping out a replacement creation, pondering a way to solve a current downside or writing solutions. Coders square measure sometimes given the duty of writing forthright items of code which will simply be delegated by the developers. Coders uses differing kinds of programming languages like c, c ++, JAVA etc for developing applications.

2.3 Buyers

Buyers square measure people who ought to develop their custom comes. they supply details of the project to be engineered to the coders. additionally give a point in time for the project completion. the ultimate project are going to be reviewed and analysed by the client. they supply payment for the requested project.

III. RELATED WORKS

As research reference, previous twenty studies that have been conducted are considered as previous works. In personality evaluation and CV analysis using Machine Learning Algorithm [1], present a system that has automatic ability to check and aptitude evaluation of candidates in a recruitment process. Selecting a good and eligible candidate for the recruitment process from a large number of candidates has been a fundamental issue. For this, an online

application is needed for the analysis of aptitude or personality test and candidate's CV. This system analyses eligibility by analysing the CV. System uses machine learning approach using TF-IDF algorithm. The output will give a decision for candidates recommendation. Also by analysing the scores obtained in different areas will be used for evaluating the qualities in the candidate. System will act as a helping hand for the recruitment process. After the evaluation candidates CV will be shortlisted and fair decision will be made. As per the organization requirements, the administrator is responsible to design, update or drop the questions. Administrator has the complete control to prepare personality questions. Based on the test outcome, a fair decision can be made. At last score of the candidate published and CV analysis of the shortlisted candidates will be analysed as per organization needs.

The purpose of this research [2], is to conduct feasibility study and design a prototype of online freelancer market place. Regarding the trend of online marketplace, information are collected by distributing questionnaires and literature reviews. Also uses object-oriented method to analyse and design freelancer online marketplace. This provides a business-driven service in a collaborative way. Therefore, it can be used as an opportunity for freelancers to find new job. This is a freelancer online portal, a place for creative and temporary workers in seeking employment projects. This online platform brings people together and used as a media to channel. The main objective of this research is to perform market analysis and to observe the current condition of freelance industry in Indonesia.

Bias in on-line Freelance Marketplaces: proof from TaskRabbit and Fiverr [3] describes whether or not 2 distinguished on-line freelance marketplaces (TaskRabbit and Fiverr) square measure wedged by racial and gender bias. The good thing about these kind of on-line freelance market place give equality. The accessible opportunities of staff could also be limit thanks to aware and unconscious biases. several on-line freelancing platforms square measure still designed as a standard work flow, wherever customers wish to look for staff and browse the private info. Before the hiring method, here collect the profiles of 13500 employee and collect all info concerning client reviews, gender, race, ratings and positions in search rankings. the most goal is to look at bias within the freelancing on-line marketplaces with relevancy perceived gender and race. principally focuses on demographics of staff. Since this directly corresponds to the expertise of consumers once hiring staff. Here the web profiles of staff square measure judged and examined. This study fairly compare staff with similar expertise, however completely different demographic traits. Here staff no have to be compelled to self report gender or race.

In code-n-mingle [4], it supports the Indian government proposed idea of New Education Policy (NEP). The main goal of this research is to decrease unemployment rate. Due to the current pandemic many people were forced to quit their jobs and also very few opportunities for the youth. The main advantage of this system is that it reduces transaction costs for both parties. In this system hiring process takes place online itself. All the necessary parameters required during hiring process provided by the platform. All the bids placed for a particular project will be deleted after a period of deadline. This will reduce the unwanted data stored in the database. This approach is a right platform for IT & programming students who wish to be freelancers. This platform is more easy and efficient for the employer to select or hire a freelance employee.

The paper [5] is a frame work of multidimensional assessment which evaluates several dimensions of freelancers. The proposed system also utilizes the past jobs he has performed. The data collected from a popular online market place were evaluated by the framework. CrowAdvisor is the framework that assists recruiter in making right hiring decision. Over the proposed dimensions a set of metrics are defined to assess freelancers and also recommend right set of freelancers to a client. Hiring managers considers the past data on successfully completed jobs while hiring. Here uses various ML algorithms to predict freelancers hiring probability.

The system [6] is a decision making support is made using Simple Additive Weighting (SAW) and Profile Matching Method. A decision support method is a profile matching using calculation of weight by dividing the supporting factors and main factors. It is a method for calculating SAW and weighted sum must go through normalization stage to be compared to all available alternative ratings. A decision maker is required to determine each attribute weight. By adding up all the multiplication results between weight and rating of each attribute, total score for the alternative is obtained.

This implementation system [7] is targeted to provide a platform to the talented people. They can sign up according to their skill sets. Different opportunities are provided for freelancers of different skill sets and expertise. For developing server side PHP, MySQL, Javascript and Node JS are used. Provides high level of scalability and platform performance. The main aim of this design is to optimize throughput and scalability in real time web applications. With the use of technology, the solution promotes freelancing and self employment.

Digital Marketing Communication for Freelancer Job [8] is focuses on how XYZ web can be used for digital marketing communication. For exploring and understanding a central phenomenon, the research used descriptive qualitative method. By utilizing this simple website platform digital marketing communication activities can run effectively and also makes the website visitors comfortable. An online design service website XYZ connects the client who need design with a community of designers. The 8 design service categories are offered by XYZ such as logos and identity branding, business and marketing, packaging and label design, website and application design, clothing and merchandise, other designs, business packages and combos. Based on the result freelancing manager guide able to maximize the company's rand. Also the personal branding of its members can be maximized.

The system [9] is an e-market application designed to transact between sellers and buyers. This is developed by using Random Application Development (RAD) and the profile matching method. This is an object oriented approach to the system. The main goal is shortening the application processing time and process. This platform increase the level of customer convenience in finding workers and also increases the freelancer revenue. This will make transaction process efficient and effective. It will helps for the client selection by providing decision criteria.

Freelancing offers flexibility and freedom than regular jobs. By using this platform [10] any one can register as a freelancer or job posters. By using this platform Sri Lankan service providers can be registered as freelancers. By using foreign freelancing sites, the Sri Lankan freelancers have to pay high range service charge for their revenue. This will reduce the gross profit for their services. This system can be used to overcome these drawbacks. But this system is only useful for Sri Lankan freelancers. Mainly three modules are used-validation module, file sharing module and manage profile. Freelancers and job posters are the users of the system. The details of the job poster, job, gig and freelancer are the inputs of the system. Notification, feedback and overall rating are the outputs of the system. By using a questionnaire, level of user satisfaction is evaluated.

This study [11] is designed to analyze the Pakistan's economy regarding the contribution and opportunity of freelancers, amid corona virus pandemic. From the web survey, data will be collected provided by the freelancers in Pakistan. In this study, the freelancers are working not only in manageable and conducive environment. The freelancing act as a source to utilize the free time of many young graduates. Also provides job opportunities for young graduates. In business, freelancing playing an influential role by considering their creative minds and increases the swift mobility and flexibility to modern business.

The main goal of this paper [12] is to know the person-job fit and impact of virtual community trust in the context of digital work platforms. Here an online survey is conducted to collect the data and these data is used to test the relationship between work engagement, virtual community trust and person-job fit. To test the goodness of a theoretical model, confirmatory factor analysis and structural equation models are used. This research shows the importance of trust in the development of both person-job fit and work engagement.

For selecting a set of employees from a large number of applicants, we may need an employee recommendation system. Employee recommendation system [13] uses a machine learning model where data as a training set. This learning model will use a lot of resumes and the system will analyses these resumes and recommended on the basis of some parameters for the recruitment process. The system will extract required information from the resumes provided by the applicants. The system will predict whether a particular candidate will be selected or not using machine learning algorithm.

It [14] is a marketplace for coders for developing and selling personalized apps. Coders have the opportunity to access large number of possible jobs and also get an opportunity to work directly from their home. All the users may not be able to approach major software consulting firms. This approach will be more useful these users. Who are looking to automate their business, the current approach will be very suitable.

This paper [15] discusses the recommended user-based collaborative filtering algorithm also point out the problems in the K-nearest neighbors algorithm. This paper describes the improvements made to the algorithm of the K-nearest neighbors. Also describes the collaborative filtering algorithm. This will improve the recommendation accuracy and reduce the computational complexity.

The main objective of this study [16] research trends in freelancer-supported software development. This helps to understand that which area of software development has the support of empirical evidence to support management decision making. Also helps to understand which software development area requires the research attention and which area have higher concentrations of research efforts. The mapping protocol, executing the protocol and reporting the findings are planned and conducted by this systematic study. Visualization tools like bar charts and pie charts are used for this. The research focus should address the unique challenges associated with individual activities.

“Recommending Expert Freelancers To Buyers In Online Marketplaces” [17] platform recommends jobs to the freelancers and freelancers contractors. This paper recommends expert freelancers to contractors in a novel approach. It will helps to save the time of contractors and also reduce overload for them. This approach is highly effective. Also recommend relevant expert freelancers to contractors in a better way than the currently existing recommendation systems. In this platform the freelancers profile is the most important success of his/her. The client will post a project with the required specifications and skills. There is no any physical meeting, the freelancer have to submit proposals to the client and then the client will select the suitable freelancer which meets his requirements.

This paper [18] is dealing with the systematic review of the literature and also analyses the use of recommender system by using a machine learning algorithm. It will helps the software engineers to know where to focus research efforts. This research is mainly focuses on filtering algorithms based on the content, neighborhood of objects.

Individuals are offering their capability as a human service online with the progress of service computing technology and crowd sourcing. This paper [19] constructs a model to quantify the evolution of in the human service echo system by using a three-layer time-aware heterogeneous network model. This study is presented to uncover how human service providers and consumers develop their capability in service provision and orchestration.

“KNN Model-Based Approach in classification” [20] is a simple method for classification. The major drawback of CNN are low efficiency, dependent on the “good value” for k. KNN type method for classification is introduced to overcome these drawbacks. This model reduces the dependency on k and makes classification faster.

IV. CONCLUSION

It was a great pleasure for us to work on this exiting and demanding paper. This approach helps the user to enter the data using simple and interactive types. By using this approach, we can solve the joblessness of skilled coders during this pandemic. It will also provide better exchange rates for the buyers. So this is an effective and helpful approach for both buyer and coder.

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