

CLOUD BASED CAREER GUIDANCE SYSTEM

Deepriya¹, Monalisa Panigrahi²

¹Department of Information Technology, ²Department of IT,
IMS Engineering College, Ghaziabad, India
deeprivasrivastav@gmail.com

ABSTRACT- The traditional approach to career guidance is a manual method that is ineffective and inefficient. The electronic approach provides an effective and efficient career guidance. This research therefore developed a web-based intelligent career guidance system that assists students to independently choose a career path at anytime and anywhere with the use of computer system or mobile/smart phones as applicants seek admission into various fields of study in colleges/universities. The intelligent system uses student-driven parameters such as favorites science subject's combination, career interest inventory analysis result, and intelligent quotient test result for career recommendation.

KEYWORDS –cloud, career, guide, student, test

I. INTRODUCTION

In today's competitive and technology driven world, with innumerable options available, the students are generally confused on choosing the right or more suited career. The world these days is moving towards "information streams". The information is thrown to the user rather than the user learning about the information. Keeping the above in view, it is felt that the proposed system has the ability to connect to various students and help them connect to most suited career. The purpose of this system is to guide students by leading them into a sets of tests which will give them an idea on how to start and what to do further.

Therefore, a system is designed where students can see various career paths, the system shows various fields available after 10th, 12th, for graduation and post-graduation. The main focus is given to choose career path is after 10th because from their only the career path starts. Since the system needs to provide service to a large number of students it needs a cloud infrastructure. Next the system allows users to give a test. It is actually a series of tests of various general questions. After test completion a score is calculated for each test. Based on those results the system manipulates and calculates the best career for that user. The system also includes an eBooks page. Here user may click to read career guidance eBooks in their

browser. It allows for robust and enhanced experience by handling a huge number of visitors with efficiency.

II. LITERATURE SURVEY

A. Review of literature based on the IEEE paper- "Design of an online expert system for career guidance." This paper is based on the construction of an online Expert System which guides the students for the selection of their undergraduate courses after the completion of their higher secondary school education.

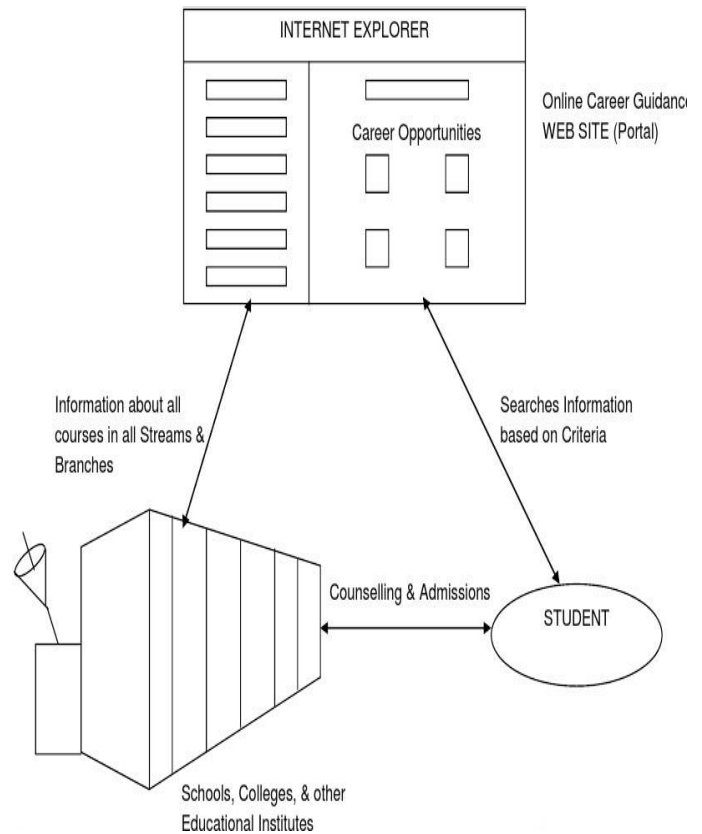
B. Review of literature based on the IEEE paper- "Multi-expert system design for educational and career guidance: An approach based on a multi-agent system and ontology", the main objective is to present the design of a multi- expert system for decision support in the career guidance field by using the multi-agent paradigm and the ontology approach.

C. Review of literature based on the IEEE paper- "Choosing Career Paths: The Outputs of VTASI Teams", Young people in high schools and colleges make important decisions regarding what to study and which career path to pursue.

III. PROPOSED TECHNIQUE

Choosing a career is a big decision and the irony is that we are not prepared to take such a big decision at the time we require taking it. We are still in our school when we have to choose between the science, commerce and humanities stream that mainly influences the career path we take up later. We must all be very careful while choosing our career. We must not enter a field just because our friend or sibling has taken it up or our parents want us to go for it. We should listen to our heart, understand what really interests us, see if we are good at it and then look forward to other aspects attached to it. The other aspects may include the cost involved in the course we wish to pursue, the demand of such professionals in the market, the packages being offered in the field we want to enter and the growth prospects in the field. While earlier, it was parents, teachers and elder siblings who largely influenced our career choice, children these days have become more aware – thanks to the internet. We can explore the various available career options on the internet as well as their prospects before we make the final decision.

To meet this need of all the students around the globe various career guidance systems are designed. This system will assist the students who are looking for various career opportunities. Systems are designed for students at various levels like high school, college, university and even after the end of their education when they are out in their professional life. The online portal will have various fields available for the students to choose after the completion of their education in respective levels from where they can choose the appropriate field in which they are interested in or have good skills in. The system has to provide service to a large set of students therefore it needs to be efficient and effective. Cloud infrastructure can be used to hold the entire data since it is a safe and easy approach. The system can have interface for the users to give online test in order to apply at different educational institutes. The system also includes an eBooks page. Here user may click to read career guidance eBooks in their browser along with some books from their subjects. It allows for robust and enhanced experience by handling a huge number of visitors with efficiency.



IV. IMPLEMENTATION

In this proposed system, the product of ours includes two major components, one for recommendation and the other for displaying the summarized results. The user will be able to interface with the system and give the test by entering their login id and password. The user will get a recommendation and a summary of the given test based on the test given. The test has five sets such as English, general knowledge, biology, mathematics with part A and part B. the test has four options for each of the sets. Each set is to be attempted. Once answered, they will be evaluated after which an appropriate recommendation can be given. The proposed system will have a fully dynamic and functional database. The database will be created using XAMPP Server and queried using MYSQL. The quiz questions will be stored in the database and subsequently retrieved using PHP and SQL commands. The result of the quiz will also be stored in the database and can be retrieved any time the student revisits the site. A student can take the quiz several times and the result of

each quiz will be stored for future use or references. The development of career guidance and counselling system lies on one of the roots of expert system which is also one of the major roots in expert systems.

Algorithm for the proposed system: -

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Start
Step 1: If (student is registered) then
Sign in
Input unique identity (uhid), password
else
Sign up
Input details (name, password, gender, date of birth,
phone number, email ID, country)
End if
Step 2: Link for test
Step 3: Give test
Step 4: Test result generated
Step 5: Back to sign in page
Step 6: Link for cloud storage where eBooks are available
Step 7: If (student wants to give test again) then
go back to step 3
Else
Sign out
End if
End
    
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V. CONCLUSION

This paper describes a technique that provides solutions to some of the identified challenges by the development of a web-based intelligent career guidance system platform where students can independently choose a career path by interacting electronically with an online career counsellor at anytime, anywhere and on any device (desktop, laptop, mobile phones, smart phones), with the use of student-driven test series.

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