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Review on Career Guidance Web Application

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Abstract: The future depends on what you do today. So today if one is not clear about how and what right path he/she needs to take to balance present and future then it's a matter of concern. Competition in today's education and career world is at peak. Importance of correct guidance for different colleges and jobs related queries are other fundamentals for better future. Nowadays students are often facing a dilemma in deciding to choose a career in their life. Students get confused about their career which is the defining point of their life. There are several factors that influence the students while choosing their career path such as their personal aptitude, educational achievements and their environment. From completing their first degree or under graduation students are always in some sort of difficulty when it comes to choose a career path which may suit their skill and potential the best. Our system helps in guiding the students for choosing the appropriate field. For that we will be taking their information which will mainly include the user's qualifications, interest area and other academic related data. On the bases of which it will suggest a list of colleges so, it will make it a bit easier for students. Also it is important to be aware of the notified vacancies in time so that aspirants can apply within the given time frame and can prepare for the job as well. Teacher also needs a stable and easily accessible platform to search for vacancies in different schools and colleges as per the data provided. Our system helps in searching the vacancies around on the bases of one's qualification and teaching experience. It even filters the data according to their subject and location which will make it easier to the user. In a nutshell our project focuses on helping students and teachers in finding best possible colleges, courses and jobs around as per their situations and demands.

Keywords: Career guidance: colleges, job opportunity, Client Server, Colleges, Job opportunity, Web Applications, Data Mining.

I. INTRODUCTION

Competition in today's society is heavily multiplying day by day. Especially it is too hard in present days to face the technical world. So as to compete and reach the goal of students, they need to be planned and organized from initial to the final stages of their education and when it comes to education we only think of students but not only students the teachers also face difficulties in finding jobs or you can say vacancies. Career guidance and employment is very importance thing in one's life. Because if one get proper guidance then can make greater career in their favourite field After primary and secondary education it is not affordable and easy to go and visit the institutes which he/she likes it's not an easy thing, so what comes to one's mind is surfing over the internet which has become a very common but also a very important medium of interaction. The application helps students to search the institutes according to their requirements, interest. Through the concept of data mining our primary focus is to help more students as well as teachers from the rural area that are not able to visit the campus before getting admission and job recurrent to it. By using this website students will get to know about colleges where as teachers will get to know about vacancies in different colleges. The proposed system is very easy to use, and anyone can use this website on through browsers or on the smart phone also. Hence, our application functions on 3 C's i.e.

1. Course and Colleges: - We tried to provide best data for colleges and courses.
2. Confusion: - While surfing over the internet students usually get confuse about choosing the right course and stream that will be best for them, so we tried to solve this confusion as well.
3. Conclusion: - We have provided profile creation and aptitude test options through which the user will reach their satisfying conclusion.

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II. LITERATURE REVIEW

[1]This paper develops a novel keenly intellective testing system for students. Equipped with user friendly interfaces, the proposed system offers the following features and advantages: Self- Adaptive .Item attributes in an item bank are adaptively updated to reflect student's newest learning states. Tests with high assessment qualities are reliably generated. It is flexible for generating parallel tests with identical test ability. In this paper, the self-adaptation strategy and the Ant Colony Optimization based test composition (ACO-TC) method are firstly described. ACO, an advanced computational intelligence algorithm is used for searching high quality results. Another paper proposes a career path recommendation framework which addresses shortcomings. Using text mining and collaborative filtering techniques, it first scans the user's profile and resume, identifies key skills of the person and recommends personalized job recommendations. And also additional skills for the related job openings. Text mining module fetches user's profile data and then outputs required data needed as input to recommendation engine. Depending on the engine, the output differs resulting in the two types of recommendation, namely job and skill .Choosing the right option for their career is important and in the contemporary world, the awareness about this is increasing. The system proposes an improved approach using algorithm for generating rules and for applying statistical correlation on the results. The application helps students to search the institutes according to their requirements, interest. Through the concept of data mining our primary focus is to help more students as well as teachers from the rural area that are not able to visit the campus before getting admission and job recurrent to it. By using this website students will get to know about colleges where as teachers will get to know about vacancies in different colleges. The proposed system is very easy to use, and anyone can use this website on through browsers or on the smart phone also.

[2]In this paper they described that in today's competitive world; education is one of the most important aspects of our life. Students get confused about their career which is the defining point of their life. Their system helps in guiding the students for choosing the appropriate field. For that they will be taking several assessment tests which include aptitude test i.e. verbal, quantitative, logical and miscellaneous test and personality test. In their system they will be using data mining algorithms so that they could better assess the students. They will be providing the students with an assessment report which would help them choose a suitable stream according to their personality type. Keywords: Data Mining, Career Guidance, Counseling, Stream

[3]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. For various reasons, most of them end up switching to other majors. Literature is full of references which outline the view of professional grownups (e.g., researchers, teachers, governmental personnel, engineers, doctors, pharmacist, bankers, and bachelor of mass media (BMM), lawyers, and others) regarding factors affecting such changes. It is not known how this career selection and switching problem is seen by the young generations these days. At university of Buffalo, USA, a research was done regarding this issue. The ways of discussion here were as follows: a modified Delphi brain-storming process, communicate with each other asynchronously via electronic means, apply a set of Deep Think idea generation strategies to think and act creatively, and conduct multiple rounds of structured interactions, under the guidance of a knowledgeable team leader to produce increasingly novel ideas. Choosing college majors and career paths after schooling is a critically important decision for young people to make. Because of the advancement in technologies

[4]Many machine learning techniques, such as decision trees, artificial neural networks, matrix factorization, collaborative filters and probabilistic graphical models, have been applied to develop prediction algorithms. Most of this work ignores the continuous effect that students enhance their knowledge over time and follow the prediction as a one-time task. To take the temporal/sequential effect into account, a three-mode tensor factorization (on student/problem/time) technique was developed for predicting student performance in solving problems in IT Sector. There are mainly two issues while developing this sort of model one is weather the student is willing to build his career based on his interests and compassions and weather the student has proper identification of improving his Skills by pursuing certification courses based on the interests of the students. So a Questioner developed in this model must classify the reflections of the student outcomes.

[5] This paper presents a designing of a web based system for Career Guidance and Employment Management System (CGEMS). Basically, CGEMS is tries to help a user who is looking for career advice guidance, or looking for their opportune job. CGEMS tries to make one place where student, job seeker, career advisor or consultant, and various company or organization can meet and help. In order to help the users to determine their best career choice, this system also offers some tests or quizzes that are related to such career and the user personality which will be useful for the career path. Furthermore, users of CGEMS such as company or organization can post a job description, when they look for employee

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III.PROPOSED METHODOLOGY

The proposed web application is one time solution for students and teachers as it provides sorted information according to user's requirement. A web application is a computer program that utilizes web browsers and web technology to perform tasks over the Internet. Here's what a typical web application flow looks like:

1. **User** triggers a request to the **web server** over the **Internet**, either through a web browser or the application's user interface
2. **Web server** forwards this request to the appropriate **web application server**
3. **Web application server** performs the requested task – such as querying the **database** or processing the data – then generates the results of the requested data
4. **Web application server** sends results to the **web server** with the requested information or processed data
5. **Web server** responds back to the client with the requested information that then appears on the user's display

So, user selects the desired option that is Student or Teacher then taking the user credential it begins with the login and signup page. Next is user profile creation on the basis of his/her interest, requirements also qualification. Taking the data and storing it in the database for mining or sorting it to convey best suitable information regarding colleges and jobs. Factors to be considered in Career Guidance will be Interest in Field, Academic Ability and Aptitude, Personality, Opportunities after Graduation.

The system will also display the latest updates related to educational sector as notifications to the user as well as the web application will be friendly to the future updates. This web based application is platform friendly i.e. can be used by the browsers and the smart phones at the same time. In this website we are adding username and password fields for the authentication. So only the respective authority can access the desired information. Here's a flowchart following the users flow from login to exit activities.

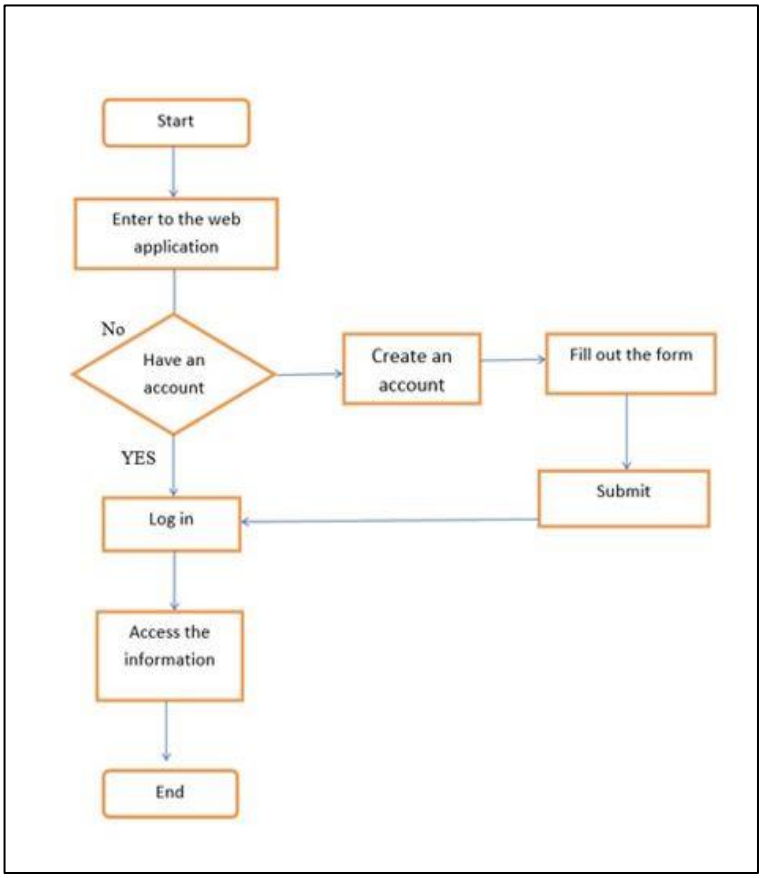

Fig: 3.1 User flow diagrams.

IV. CONCLUSION AND FUTURE WORK

The study suggests a visionary framework about college courses and job vacancies to the students and job seeking teachers. The research and data provided will surely meet the validity and reliability of the current career needs. The variable options of career test create, profile creates and job filter will enhance the college search frequency and quality. The review system will help us to identify the deemed concerns of users. Different applications and sites

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through which the is achieved. But the idea we came up was one stop solution for educators out here. The web-based college career guidance project will serve as a complementary tool interest and the future based on it.

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