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Cloud Based Career Guidance System

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ABSTRACT: The choice of the appropriate career is crucial in today's environment. The kids must do a very challenging and intricate activity. One should consider their abilities, capacities, areas of interest, and skills when picking the correct vocation. The majority of pupils have trouble with this job, so it's not as easy as it seems. All of these issues can be resolved by using our program. It is a strategy to give students the right advice by suggesting jobs for them to pursue following the 10th and 12th grades. The results of the aptitude test are used to evaluate the pupils, and they are given the right career advice to help them reach the pinnacles of success in life. The intelligent system employs student-driven parameters for job advice, such as a mix of their preferred science subjects, the results of their career interest inventory analysis, and their IQ test results.

KEYWORDS: Cloud, Career, Guide, Student, Test

I. INTRODUCTION

A cloud-based career guidance system is critical to our academic system. We have an existing internet-based career advising system with a variety of concerns available on the internet: The system is not always accessible; it does not provide free courses to scholars; it does not provide courses for study; and it does not specialize in new trends. We were able to develop a web Career Guidance system that targets students who have graduated from high school and are aiming for the next step in their career. We further targeted students who have financial difficulties and cannot afford courses on the platform. Internet-based Career Counselling Tool was built and implemented with data gathered by measuring several career guidance tools available on the internet. Following scripting languages were used: JAVA, MySQL, HTML, Java Script, Bootstrap, and CSS.

II. RELATED WORK

A computerized career advising method is utilized to forecast the best department for an individual based on objectively assessed talents. If a person completes their online evaluation, which established in the system, they will automatically end up choosing a suitable course, lowering the failure rate due to choosing the wrong career route [1].

This system describes the development of a web-based system for Career Guidance and Employment Management (CGEMS). This system also provides certain tests or quizzes connected to such careers and the user personality that will be important for the career path in order to assist users in determining their best job choice. Furthermore, when looking for employees, CGEMS users such as a firm or organization can submit a job description [2].

This system will take into consideration various factors before pre-sending questions to the candidate. Also, keeping in track the student's previous history which also is of utmost importance, the final result that would be displayed to the student would take into consideration the historical factors of the students as well [3].

III. METHODOLOGY

The two main parts of our product are one for recommendation and one for displaying the compiled results in this system. By inputting their login ID and password, the user will be able to interact with the system and administer the test. Based on the exam given, the user will receive a suggestion and a summary of the test. The Test consists of 50 questions encompassing various fields including general knowledge, mathematics, engineering, and medical subjects. Based on the answers provided, personalized recommendations will be generated, suggesting the most suitable field for the individual. Additionally, our platform offers a unique feature: a TPO who can arrange webinars and training sessions, enabling students to acquire additional skills and expertise. The database for the suggested system will be fully dynamic and operational. XAMPP Server will be used to build the database, and MYSQL will be used to query it. Using JAVA and

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SQL commands, the quiz questions will first be stored in the database and then retrieved. The results of each quiz that a student take will be saved in the cloud for later use or reference.

IV. SYSTEM ARCHITECTURE

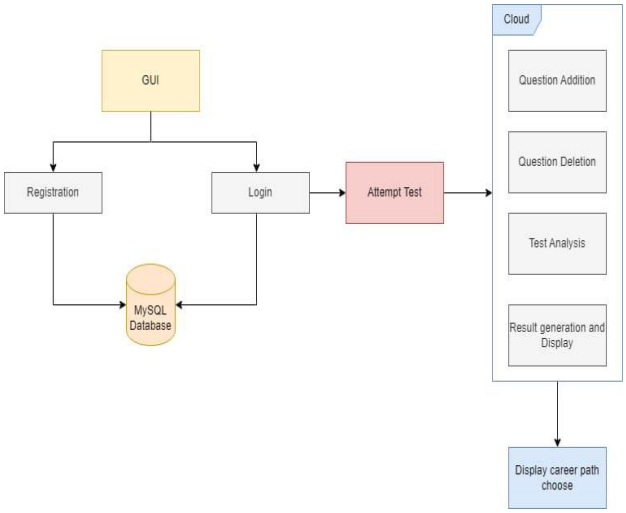

Fig.1

Algorithm:

We are using Cosine Similarity for our system. In a recommendation system, Cosine Similarity is utilized to assess the similarity between two vectors in an inner product space. By calculating the cosine of the angle between two vectors, it is possible to determine if they are oriented in a similar direction. This technique is commonly employed in text analysis to evaluate document similarity. Using Cosine Similarity in a recommendation system follows the same basic concept, wherein content with lower similarity scores will be deemed less recommendable while higher similarity scores will result in more prominent recommendations. When two vectors are projected in a multi-dimensional space, the Cosine Similarity measures the cosine of the angle between them. The output value of this calculation ranges from 0 to 1.0, where a value of 0 indicates no similarity between the vectors, and a value of 1 indicates that both items are exactly 100% similar.

V. FLOW CHART

FIG.2 DFD LEVEL 0

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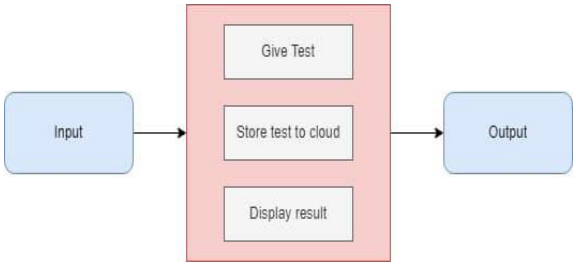


FIG.3 DFD LEVEL 1

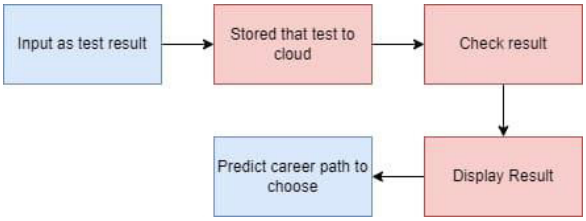
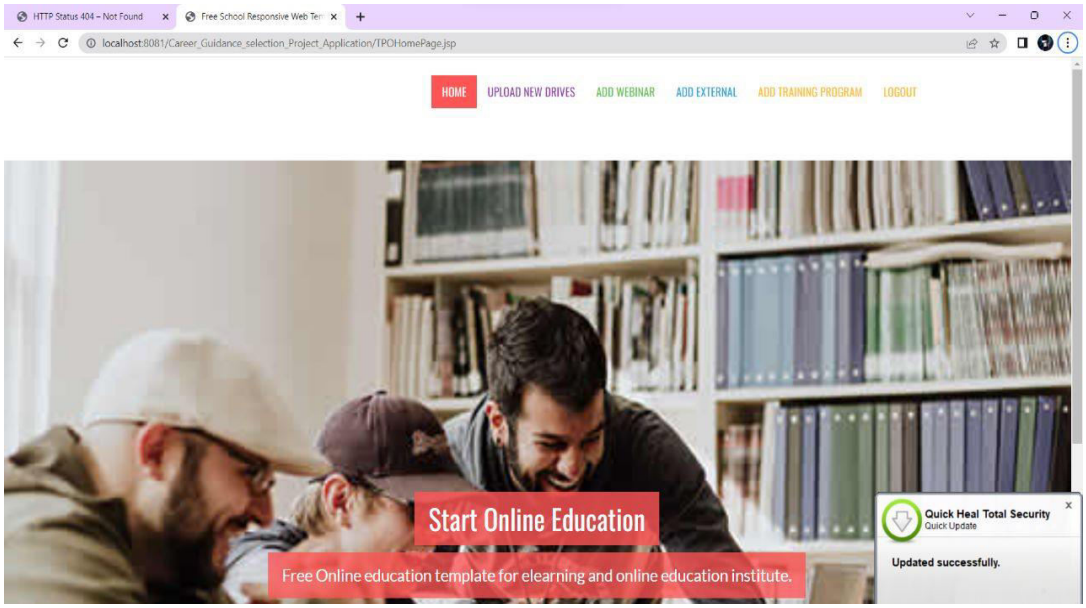


FIG.4 DFD LEVEL 2

VI. RESULT AND DISCUSSION



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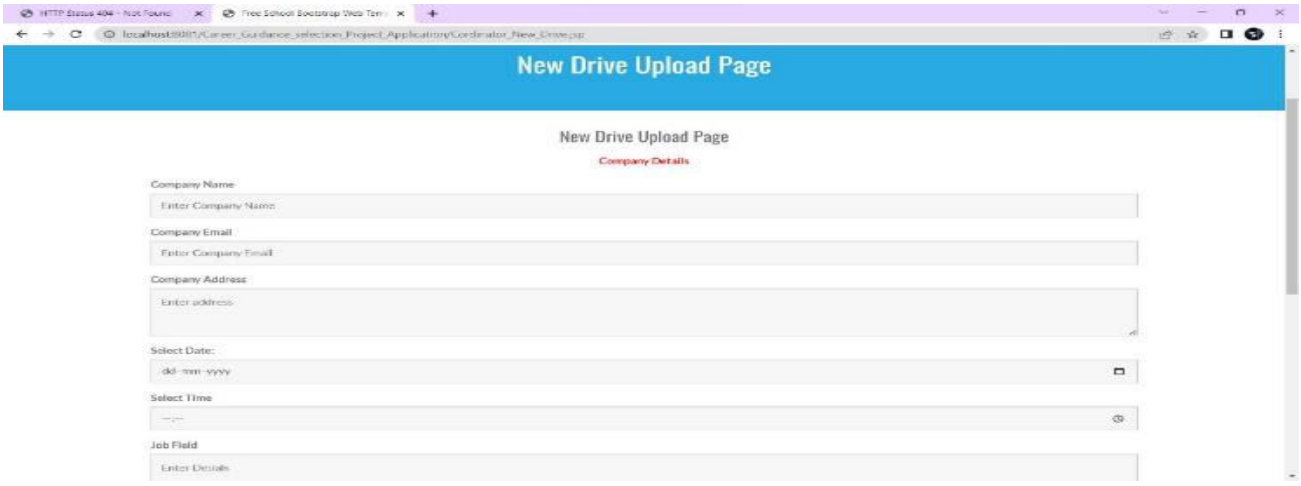

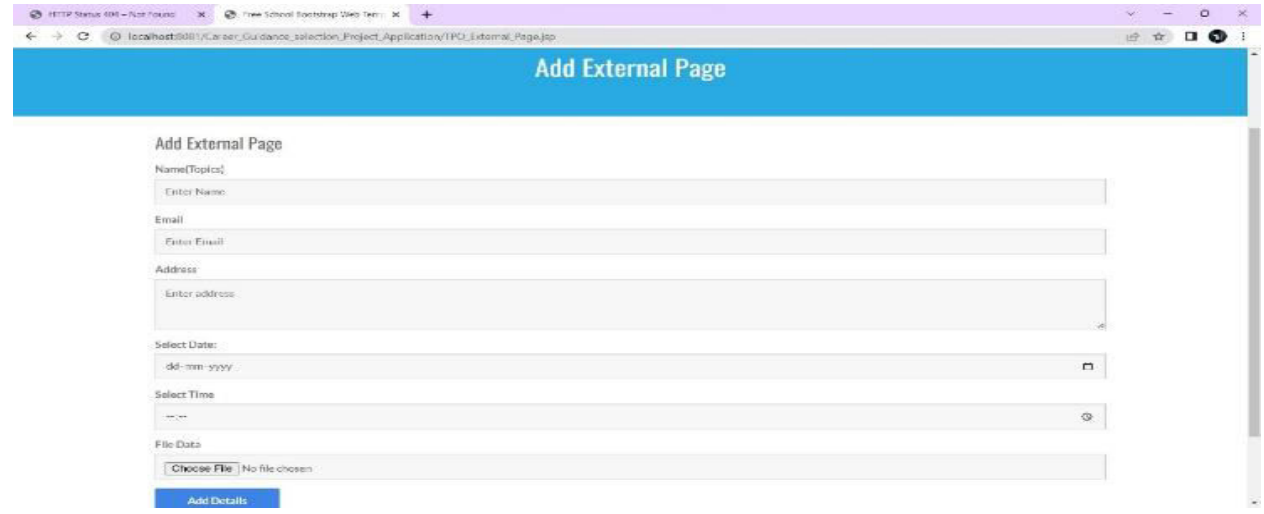

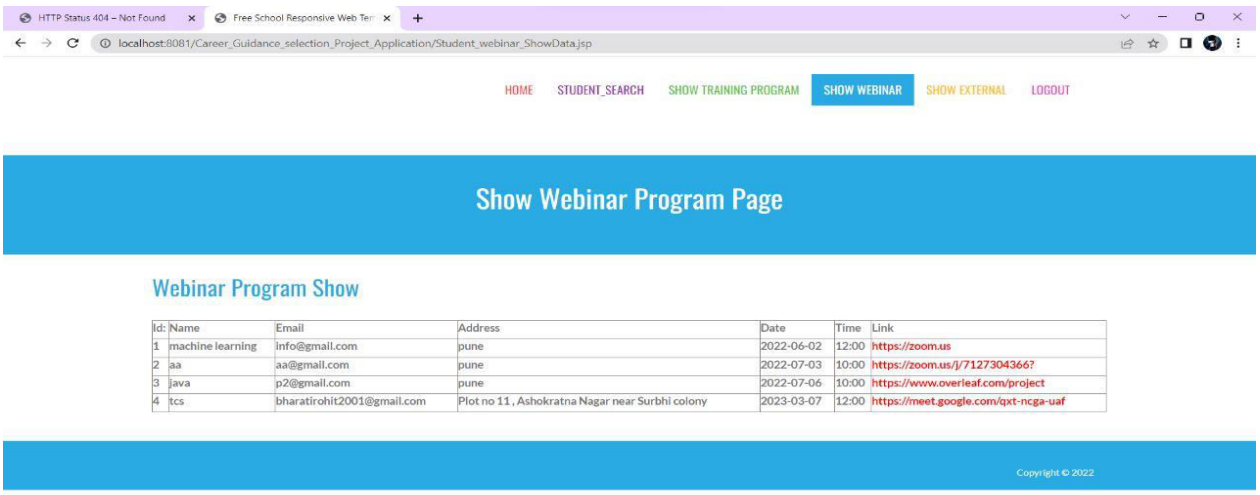

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VII. CONCLUSION

The system's major goal is to help pupils identify their own personal talents, personality and abilities Students can select a professional path with the assistance of a career advice system by interacting directly with the online counsellor. It will additionally benefit them to pursue their passion This approach assists both 10th and 12th grade students. Typical students in the tenth grade would be able to select appropriate streams for their own benefit Students in the 12th grade can choose from a variety of fields. This procedure is dependent not only on professional experts, but also on information provided by parents and their offspring. This process is also highly significant and beneficial in terms of development.

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