

Web-Based Career Guidance System for Students

**Shubham Sambhaji Davang¹, Devika Rajaram Dinde²,
Gayatri Appaso Ghadage³, Shravanee Dileep Ghorpade⁴**

^{1,2,3,4}Department of Computer Engineering, D.Y. Patil Technical Campus, Talsande

ABSTRACT

Choosing a suitable career is one of the most important decisions in a student's life. Many students feel confused while selecting a career because they do not have proper guidance or enough information about available opportunities. The Web-Based Career Guidance System is designed to support students in identifying appropriate career options according to their interests, abilities, and educational background. This system provides information about various career fields such as Engineering, Medical, Commerce, Arts, Information Technology, and other professional areas. Students can create an account and log in to the platform to get career suggestions and view details about courses, colleges, required skills, and job opportunities. The application is developed using HTML, CSS, and JavaScript for the frontend, while Python (Flask/Django) or PHP is used for the backend. MySQL is used as the database to store user and career information.

The main aim of this research is to develop an easy-to-use and helpful web application that assists students in making better career choices. The system can be useful for students, schools, colleges, and career counseling centers to provide proper guidance for future planning.

Keywords: Career Guidance System, Web Application, Career Recommendation, Education Technology, Student Support.

INTRODUCTION

Choosing the right career after finishing school or college can be challenging for many students. A large number of students are not fully aware of the different career opportunities available or the skills needed for various professions. Due to this lack of awareness, they often depend on advice from friends, relatives, or family members when making career decisions, which may not always match their abilities or interests. Modern technology can help solve this issue by offering an online platform where students can learn about multiple career options and receive proper guidance. A web-based career guidance system can provide accurate and organized information that helps students understand different fields and choose the right direction for their future.

The main purpose of this project is to design and develop an online system that gives career recommendations along with details about courses, colleges, and job opportunities. By using current web technologies, the system allows students to explore their interests and identify a career path that suits their skills and goals.

LITRATURE REVIEW

Many researchers have worked on developing online career guidance systems and educational recommendation platforms. These systems are designed to help students understand their interests and connect them with suitable career options.

Most of the existing platforms only provide basic information about different professions and fields of study. They often do not give personalized guidance based on a student's interests, skills, or educational background. In some research studies, online questionnaires and aptitude tests were used to analyze students' abilities and recommend possible career paths.

Previous studies show that web-based guidance systems can increase students' awareness about different career opportunities. However, many existing systems still have some limitations, such as outdated information, less interactive design, and weak data management. This project tries to overcome these problems by developing a simple, interactive, and user-friendly platform that provides better support for students while choosing their careers.

PROPOSED SYSTEM

The proposed system is a web-based Career Guidance System created to help students select suitable career options. The system allows users to create an account, log in, and provide information about their interests, education level, and future goals.

After collecting this information, the system suggests possible career fields and related courses that match the student's profile. It also provides useful details such as information about colleges, required skills, and job opportunities related to each career option.

The system is divided into two main parts: The User Module and the Admin Module. The User Module allows students to view career suggestions and explore different career fields. The Admin Module is used by administrators to manage the system by updating career information, adding course details, and maintaining the overall database

SYSTEM METHODOLOGY

The development of the Career Guidance System is carried out through several important steps. These steps help in designing and building the system in a proper and organized way.

First, the system requirements are gathered and analyzed to understand what students and administrators need from the platform. After analyzing these requirements, the system design is prepared. This includes creating the database structure and designing the layout of the user interface.

After the design phase, the development process begins. During this stage, both the frontend and backend parts of the system are developed. The frontend is responsible for collecting information from users, while the backend processes this information and retrieves the required career data from the database.

Once the development is completed, the system is tested to make sure that all modules are working properly and that the system provides correct results. Finally, the application is deployed on a server so that students can easily access it through a web browser.

SYSTEM DESIGN

The system works using client-server architecture. The frontend is the part where users interact with the website and enter their information.

This information is sent to the backend server. The backend processes the data and connects to the MySQL

database to get the required information.

The database stores user details, career options, course information, and job details.

This design helps the system work fast and handle user requests easily. It also makes the system easy to update and maintain in the future.

EXPECTED RESULT

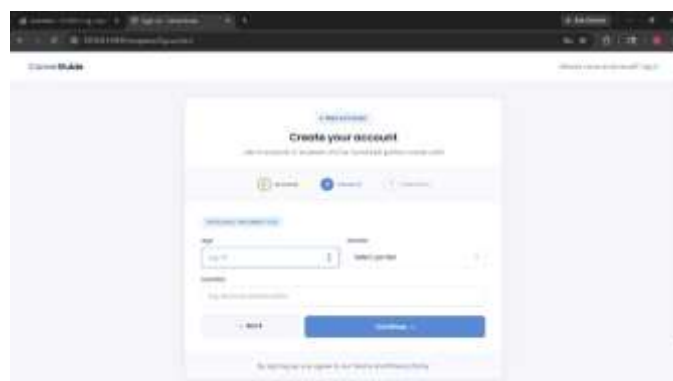
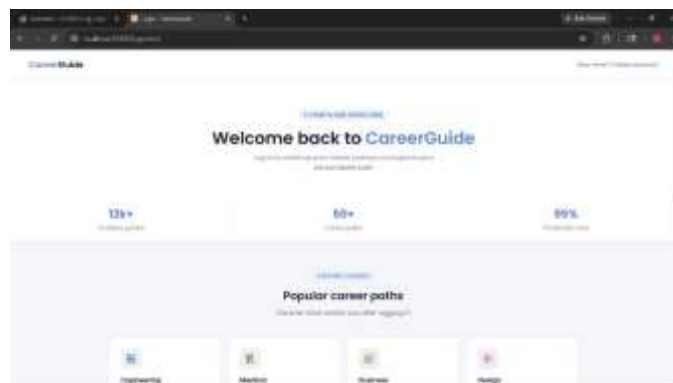
The final result of this project is a web-based Career Guidance System that helps students find and choose the right career.

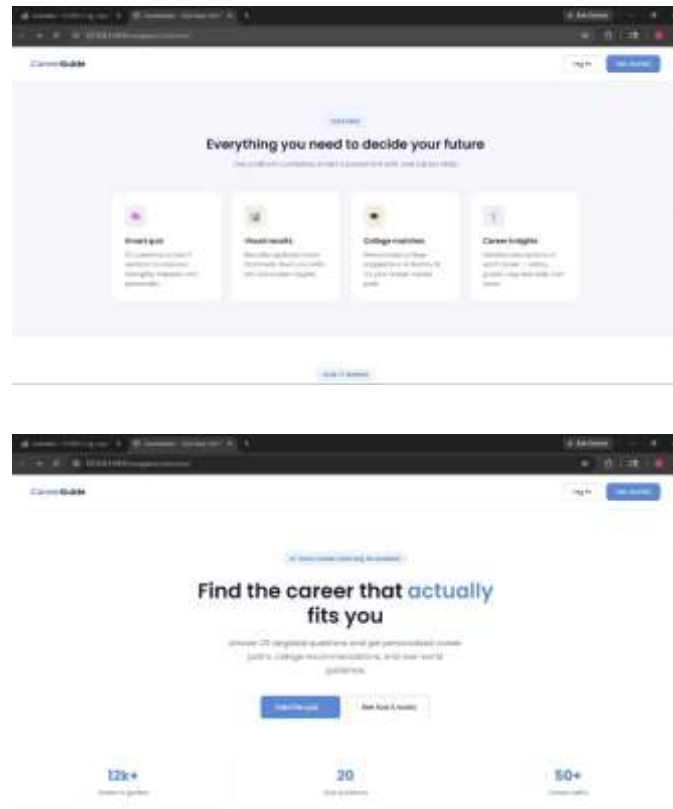
Students can register on the website, enter their interests, and see suggested career options. The system will also show related courses and job opportunities for each career.

This information will help students understand different career paths and plan their future properly.

The system also has an admin panel. The admin can add, update, or manage career information in the system.

Overall, the system provides a simple and useful platform that helps students get career guidance easily.





CONCLUSION

The **Career Guidance System** shows how technology can help students choose the right career. By giving proper information and simple suggestions, the system helps reduce confusion when students are selecting their career path.

This project also shows how web technologies can be used in education and career guidance. It helps students understand their interests and learn about different career options before making important decisions.

In the future, the system can be improved by adding AI-based career prediction, aptitude tests, and chatbot support. These features will make the system more smart and interactive for students.

FUTURE SCOPE

Future work includes extending the system with AI-based prediction, multi-language support, and real-time counseling features to enhance user experience.

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