

## **Career Services Portal**

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### **Abstract**

In today's world choosing the right career is very important. It is a very complicated and difficult task for the students. Our application is a solution to all these problems. It is an approach to provide proper guidance to the students by advising them on careers after 10th and 12th grade. Today, if a person does not have a clear idea about how and which correct path, he should take to balance his present and future, it is a matter of concern. The Career Services Portal aims to automate manual processes using easy-to-use computer software and hardware, ensuring efficient data storage and retrieval. With readily available and easy-to-use hardware and software, the system promises to be efficient and reliable management. By minimizing the attention paid to maintaining files, users can focus on their activities and optimize the use of resources. This study aims to determine the factors that influence the perception of recent graduates towards job portals.

### **Keywords**

Career Choice, Fresh Graduates, Employment Opportunities, User Interface, Career Guidance

### **1. Introduction**

Choosing a career has always been a challenge for everyone. This system has been developed to remove all the ambiguities. Our website is a real relief for users. Users first need to register on our website, then login using the same credentials and then select the grade after which they are looking for career guidance (for example, after 10th grade or after 12th grade). A contact form is also included in our system. In case of any difficulties or queries, students can contact us and clarify their doubts. You can contact us through the email address provided on the website. This application will make a great contribution when used effectively.

Unemployment is one of the most serious social problems faced by both developing and developed countries. There are some web portals that provide an effective way to search the internet for online information about job vacancies for job seekers. Today, the Internet has changed many aspects of our lives, such as the way we search for jobs. If a person wants to find a new job, they can submit a resume using a word processing software such as Microsoft Office Word, open a web browser to send the resume, and receive an email. Online recruiting has become the standard method for employers and job seekers to achieve their respective goals. A portal is a tool that connects companies with job seekers. Companies provide the necessary resources, and job seekers find and apply for jobs that match their interests. The guide is a term sometimes used in a broad way to refer recommend or help an individual with any type of Educational, professional or personal problem. The professional guide consists of services that help people successfully manage their career development. Professional guide is a general term, which includes the development of work research, on interview skills, positioning in a chosen vocation and follows positioning to guarantee

effectiveness. Career guide, advice is used as one of the Interventional strategies. Design a web application that will help young people understand themselves well and recommend them on right career path that best suits them.

The existing system has many problems. In the proposed system, we have used advanced technologies like artificial intelligence technologies and web development. This application is developed using various languages like HTML5, CSS, JavaScript, Java.

Manual training and placement which are done in various colleges are done through human intervention, due to which there is maximum chance of errors. The main problem is searching and updating the data of the students. Placement agents have to manage the profile and documents of the students. They have to collect the information from the different companies that want to hire them. The information has to be obtained manually. This process is very difficult and tedious when the number of users increases. It is tedious and time-consuming. It is also possible that data is missing. Our web application helps provide information about students placed, campuses to which students have applied, latest campus promotions, and internships offered so that students can view and evaluate their options. The project focuses on developing a web application that serves as a comprehensive platform for students and companies involved in the internship process. In addition, the web application includes a resume builder that simplifies the creation of professional resumes, as well as an electronic bulletin board for important notices and announcements. The application also provides a transparent overview of the flow of internship activities at the college.

### **1.1 Objectives**

This study aims to review the effectiveness of a career guidance web application. We want to see if it helps people make informed career choices and reduces confusion about their future. We also want to check if the application is user-friendly and provides accurate guidance.

Additionally, we will examine how artificial intelligence enhances the application's guidance. We will compare its features to existing career guidance systems to identify areas for improvement. Our goal is to ensure the application is accessible and useful for everyone.

By conducting this review, we hope to understand the application's potential impact on career counseling and education. This will help us find ways to integrate it into existing systems, making career guidance more efficient and effective for all users.

## **2. Literature Review**

The emergence of career service portals (CSPs) has revolutionized the way people explore, manage, and develop their careers. CSPs have become an essential professional development tool, offering a range of features and functionalities that enhance career decision-making and job search effectiveness. This literature review aims to provide an overview of the current status of CSPs, their benefits, challenges, and future developments.

Career development theories, such as Holland's (1997) and Krumboltz's (2009) theory, emphasize the importance of understanding one's personality, interests, and work environment. CSPs have leveraged technology to facilitate career development, providing online counseling and coaching (Kidd, 2006), job boards, and career platforms (Wanberg et al., 2015). These platforms have improved job search efficiency (Gati et al., 2011) and enhanced career exploration and decision making (Hansen, 2018).

Commercial CSPs such as LinkedIn (LinkedIn, 2022) and Indeed (Indeed, 2022), academic CSPs such as university career service platforms (NACAC, 2022), and government-initiated CSPs such as national job portals (USAJOBS, 2022) show different approaches to career development.

In conclusion, this literature review highlights the importance of CSPs in modern career development. As CSPs continue to evolve, research should focus on addressing challenges, exploring emerging technologies, and improving the effectiveness of CSPs to support individuals in navigating the complex and ever-changing world of work.

### **3. Methodology**

#### **i)Existing System:**

The current Career Service Portal (CSP) systems have significant shortcomings. Commercial platforms like LinkedIn, indeed, and Glassdoor offer job search and resume building tools, but fall short in providing comprehensive career development frameworks and thorough skill assessments. Academic CSPs, such as university career services platforms and Handshake, primarily serve students and alumni but struggle with ineffective mentorship programs and limited job search effectiveness. Meanwhile, government-initiated CSPs like USAJOBS and CareerOneStop face data privacy concerns and accessibility disparities, hindering their ability to equitably serve citizens.

#### **ii)Proposed System:**

The proposed CSP system offers a promising solution to address the limitations of existing systems. To address the limitations of existing CSP systems, we propose a novel framework integrating cutting-edge technologies and inclusive design principles.

The proposed CSP system will utilize a cloud-based infrastructure, ensuring scalability and reliability. The architecture will comprise:

1. Front-end: User-friendly interface with customizable dashboards
2. Back-end: AI-powered career recommendation engine, blockchain-based security, and data analytics
3. Database: Secure storage of user data and resumes

#### **iii)Modules:**

1. Student Modules
2. Employer Modules
3. Networking Modules
4. Career Resources Modules

#### **iv). Technologies to be used:**

**HTML 5:** Hypertext Markup Language (HTML) is the standard markup language and web applications. It is the most widely used language on Web to develop web pages.

**CSS:** CSS is a language that describes the HTML document. CSS describes how HTML elements should be displayed.

**JavaScript:** JavaScript is used to program the behavior of web pages. JavaScript is an interpreted programming language. Alongside HTML and CSS, JavaScript is one of the three core technologies of the World Wide Web.

**MySQL:** MySQL is an open-source relational database management system-based Query Language (SQL).

**Java:** Java is used to create a wide variety of applications, including mobile apps, enterprise software, big data applications, and server-side technologies

**Operating System:** Windows 7 and above

**Hardware:** Intel Pentium 4 Processor GB RAM Minimum, 150 GB Hard

### **4. Data Collection**

To review the career service portal, we collected data from various sources. We looked at user information, such as age, interests, and job search history, from the portal's database. We also surveyed users to understand their satisfaction, ease of use, and benefits from using the portal.

Additionally, we interviewed career counselors and employers to see how the portal impacted job placements. We held focus groups with students and alumni to gather feedback on the portal's features and services.

We analyzed website usage statistics, like page views and session duration, using Google Analytics. We also reviewed log files to understand user engagement and search patterns.

To evaluate the portal's content, we analyzed job listings, career guides, and educational resources for relevance, accuracy, and comprehensiveness.

This six-month data collection process provided valuable insights into the portal's effectiveness and user experience.

## 5. Results And Discussion

Career selection has always been an important aspect in everybody's life. By using our project, we have successfully ensured career recommendation to students. This application will help to solve all the issues with the help of great technology and ideas. In this study, we investigated career counselling, developed and implemented a functional web application, obtaining several successful test results.

In this research work we have been able to explore the problems encountered by the existing manual system, to design a system that will improve upon the existing manual and to implement a web-based application that will help young ones get a good understanding of themselves and advise them on the career path that best suits them. And also serve as a complementary tool for career guide and counselors (Figure 1).

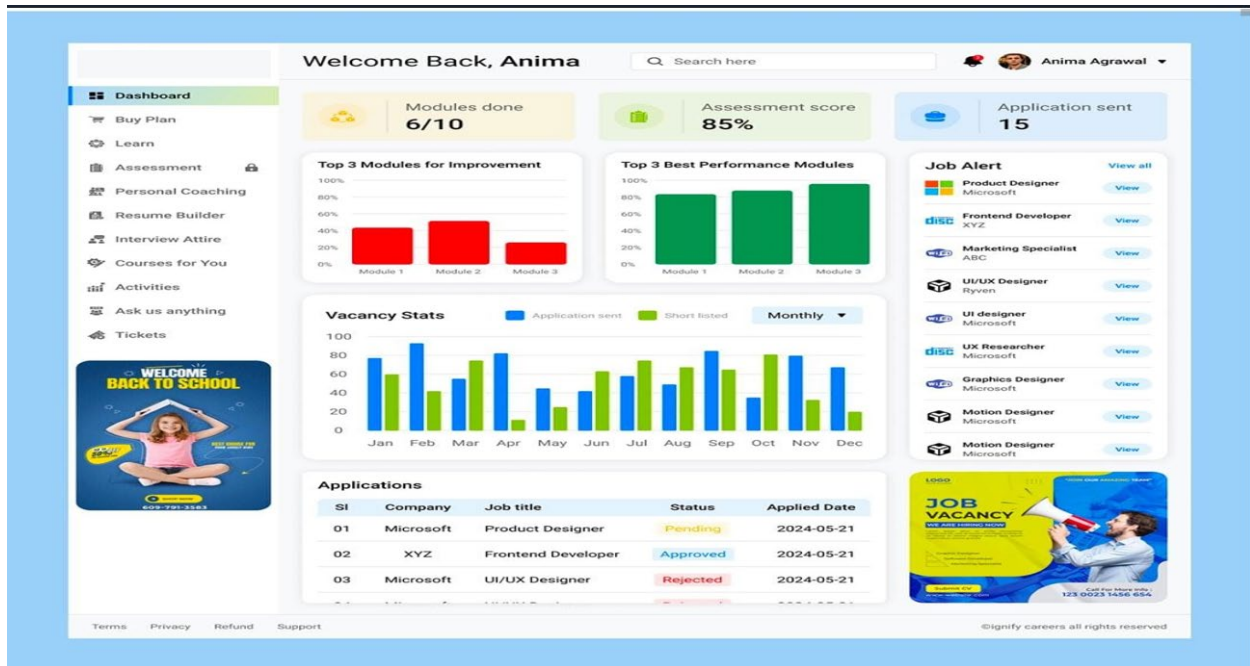


Figure 1. Career selection

## 5.1 Numerical Results

Numerical Results presented in Table 1.

Table 1. Numerical Results

Metric	Value	Inferences
Active Users	To Be Determined	User base size to be assessed
User Registrations	-----	Growth rate and user interest to be evaluated
Career Guide Downloads	-----	Demand for career guidance to be measured
Overall Satisfaction	-----	User experience quality to be determined
Satisfaction with Job Search	-----	Job search feature effectiveness to be assessed
Satisfaction with Career Resources	-----	Career resource quality to be evaluated

## 5.2 Proposed Improvements

To enhance user experience, we will simplify navigation, reduce clutter, and provide clear instructions. Personalized job recommendations will be introduced, based on skills, interests, and experience. This will ensure users see relevant job openings.

Our career resources will expand, offering guidance on resume writing, interviewing, and networking. Online workshops and webinars will be introduced, covering various career topics.

Support will be improved through faster response times and helpful answers. A comprehensive FAQ section will be added.

Technological upgrades will ensure faster page loads, secure data storage, and seamless navigation.

Regular feedback requests will help refine the platform. Partnerships with educational institutions, industry associations, and job boards will expand job opportunities and career resources.

## 6. Conclusion

The main aim of the project is to make students understand their strengths, personality and skills. With the help of a career service portal, students can choose a career path by directly interacting with the online counsellor. Also, it will help them to follow their interest. Student's bright future is the crucial of the country. This is why in this paper we to present a model for guiding the appropriate pathway, so they professional career. The opportunities provided by the technology is immense and many students can make use of this platform to choose a career more appropriate to their skills.

The application was created in a way that makes it simple to make modifications in the future. The project's development has led to the following conclusions.

- ☐ Productivity is increased when the entire system is automated.
- ☐ It offers a user-friendly graphical user interface that is superior to the current system. Depending on their permissions, it grants authorized people the necessary access.
- ☐ It successfully gets over the communication lag.
- ☐ Information updating gets a lot simpler.
- ☐ The standout characteristics include dependability, data security, and system security.

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