

## Career Assistance Web Application

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### Abstract

The project is based on career assistance and analysis user from a particular test that is held on website. A system website is made in such a way that it detects students key interest and recommends them to respective field in which they are interested as well as they have skill to proceed in that direction. Along with assisting students, it is also provides important information which is useful for user in making their career.

A record is maintained for a particular entry, be it a person, his score, his credentials as a log file in the database so it can be used for analysis purpose in the future.

**Keywords:** Career Assistance, JSP,HTML,CSS, SQLyog, MySQL etc.

### 1.Introduction:

We are developing a web based application for career guidance and to make easier for students by assisting their career and helps pre-tertiary students to make a better career choice .

Career development is a lifelong process that, whether you know it or not, actually started when you were born! There are a number of factors that influence your career development, including your interests, abilities, values, personality, background, and circumstances.Career Counseling is a process that will help you to know and understand yourself and the world of work in order to make career, educational, and life decisions.Career Assistance is very important for our Educational System. We have an existing Manual Career Assistance System with human counselors in charge, but this system is plagued with the following problems: few number of human counselors, unavailability of a counselor in a good number of schools, few number of counselors attending to students during school hours and the office of a counselor in schools are so unpopular that students hardly meet them for career counseling. The Online Web Based Career Assistance system will be designed and implemented using data collected from interviewing students, human counselors and surveys.

### 2. Objectives:

- To design a web based career Assistance system that will improve upon the existing

career system.

- 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.
- To explore the problems encountered by the existing manual system and Resolve them.

### 3. Related Works:

Nowadays, students are often facing a dilemma in deciding to choose a career in their life as in today's world there are various career opportunities, which are unknown for many students due to lack of accurate information. There are several factors that influence the students when choosing their career path based on their personal aptitudes, educational achievements. Student's career self-determination is one of the key problems of the present day as well as the development of their personal and professional competence.

This problem directly associated with the young person's key issues such as a special activity based on personal features and abilities, balanced personal and professional development, systems approach to educational practice in whole.

All this affects the level of students' competitions on the labor market and, consequently, his material wealth.

According to NSSO, the unemployment rate in India in

2018-19 is in worst condition and having same situation similar to 1971 era. The LFPR is a measure of people looking for jobs. So, if this is declining while unemployment is growing, it means that there is a very real and serious crisis in jobs.

### 1) Career Guidance App<sup>[1]</sup> :

It is an Indian mobile application meant to help student to choose the right career path after +2 which is higher secondary education level. The application provides comprehensive information to enable students decide on the right career choices. It also provides detailed information for students choosing Engineering, Medicine, Law, Design, Arts and Management. The App allows students to stay in tune with current trends in the education field and provide career tips and career options.

#### Limitations

- This system does not provide user oriented tips .
- It does not contain classified data so one has to read all the tips.
- Thus it's time consuming System.

Author-Jayprakash Ghandhi

(<https://play.google.com/store/apps/details?id=com.a.skjgandhi.app>)

### 2) PathSource Careers and Schools<sup>[2]</sup>:

It is a career search and education tool for students, it asks questions to match the user with their ideal career and educational path. It empowers its user to discover careers or schools and figure out what to do with your life, and then learn what it takes to get there. Its features include: Career assessment that helps the user identify the ideal career that best suits their own interests and personality, get matched with the exact career, school or college major that fit their unique lifestyle and interests.

#### Limitations

- It is just limited to the student of school.
- It does not have communication tool between student and counselor.

<https://play.google.com/store/apps/details?id=www.pathsource.pathsource>

### 3) Careerfutura<sup>[3]</sup>:

This website demands that those who want to use the career guidance service must pay a reasonably large amount of money. Thereby making it not accessible to those who are not financially buoyant. No provision for free trial at all. An objective of this research is to deploy a FREE career guidance information system.

[www.careerfutura.com](http://www.careerfutura.com)

4) The Role of Career Services Programs and Socio cultural Factors in Student Career Development WCER Working Paper No. 2018-8, June 2018 BY Author: Mun Yuk Chin,\* Chelsea A. Blackburn Cohen,\* and Matthew T. Hora, Center for Research on College-Workforce Transitions, Wisconsin Center for Education Research, University of Wisconsin–Madison<sup>[4]</sup>.

#### Limitations:

Our sample was limited to undergraduates in the school of business who were disproportionately white and from middle- to upper-class backgrounds (based on self-reported family income). Because studies have found conflicting results in relation to underrepresented students' utilization and satisfaction with career services (Gallup, Inc., 2016; Shivy & Koehly, 2002), future research exploring minority student experiences is warranted. Further, longitudinal studies with in-depth one-on-one interviewing techniques (as opposed to focus group interviews) would generate a deeper understanding of the complexity of the sociocultural and organizational factors and independent activities that influence students' thinking and decisions about their careers. Expanding research to other institutions across different disciplines would yield a more thorough analysis,

5) Creating effective career development programs , Doris McGartland Rubio, Georgeanna F. W. B. Robinson, [...], and Emma A. Meagher<sup>[5][6]</sup>.

The goal of this paper is to delineate components of effective career development programs that go beyond didactic training.

**Limitations:** Lack of effective training programs that provide new investigators with critical skills needed to be successful in research. Does not Requires trainees with resilience and persistence so that they do not choose alternate career paths, but rather stay engaged in research. Lack in evaluating the efforts so that we can widely disseminate novel approaches.

#### 4. Description:

Existing Manual Career Assistance System with human counselors in charge, but this system is plagued with the following problems: few number of human counselors, unavailability of a counselor in a good number of schools, few number of counselors attending to students during school hours and the office of a counselor in schools are so unpopular that students hardly meet them for career counseling.

Existing system does not include any test which could guide students in choosing appropriate career using their personal Interest, skills and student's reasoning ability.

The problems encountered by the existing manual system, to design a web based career guidance system that will improve upon the existing manual/ human career guide 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 beneficial tool for career guide and counselors. Thus, increasing the employment rate by making them work in the field of their interest.

##### 1 Title- User registration

Description- Given that a user has opened the web application, then the user should be able to register through the web application. The user must provide user-name, password and e-mail address and other user concerned details to store this data for further use.

##### 2 Title- User Login:-

Description- Given that a user has registered, then the user should be able to log in to the portal ,so that everyone is able to use all the facilities of portal.

##### 3 Title- Career relevant information:-

Description - Given that a user is logged in to the portal, then the first page is shown that describes various career opportunities and other relevant information.

##### 4 Title- Attempt Test:-

This platform contains a test for the skill evaluation of the user so that he can identify what is best field for him. If user wants to detect his field ,he has to attempt the test.

##### 4.1 Title- Test based on 10<sup>th</sup> Standard -

Description-This test contains questions related to mathematics ,science , personal interest and aptitude . Test is based on MCQ(Multiple choice Question) format.

##### 4.2 Title- Test based on 12<sup>th</sup> Standard-

Description - This test contains questions related to personal interest and aptitude . Test is based on MCQ(Multiple choice Question) format.

##### 5 Title- Result Display-

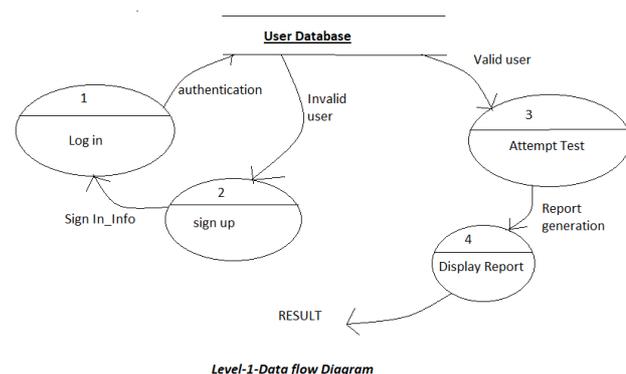
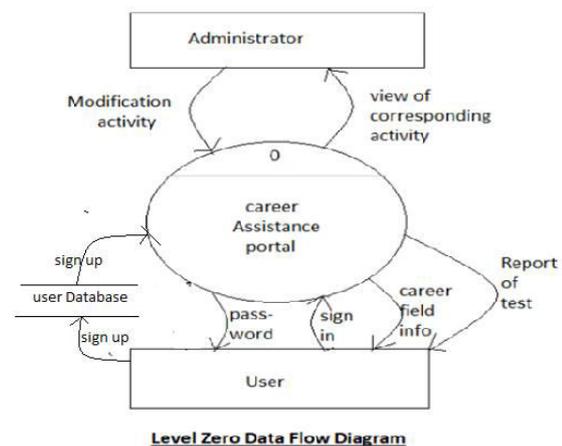
Description-After attempting test system generates the report that shows appropriate career field which should be chosen by the concerned student.

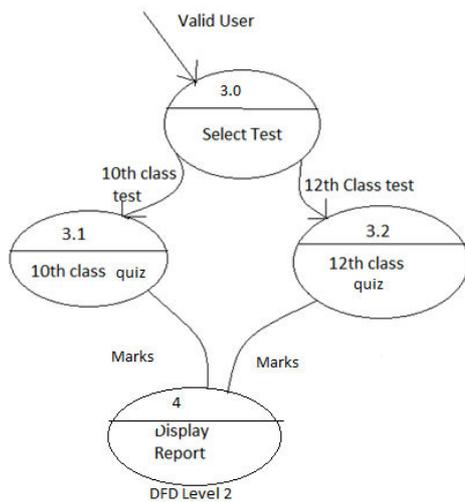
##### 6. Title- Administration Panel

Description- at the back Hand, the website is easily handled (managed) by even the non technical admin user. This will maintain the simplicity for the back hand users.

#### 5. Proposed System:

The proposal is to deploy a system which can guide students of 10<sup>th</sup> and 12<sup>th</sup> in choosing the various career fields and save the information of that object in the database at that very moment.





and services) to successfully deploy the system. These are mentioned below :

**Hardware requirement:**

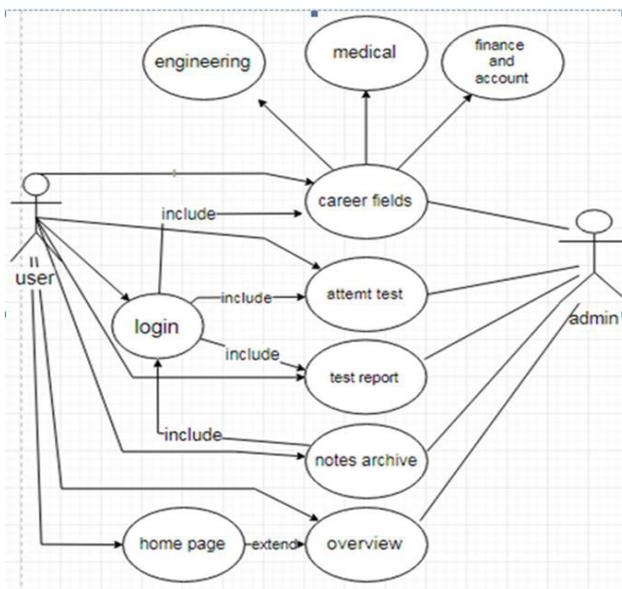
Platform :all GUI based OS are supported

Processor: Dual core or above

**Software requirement:**

Languages: JSP,HTML,CSS,sql

Tools used: Netbeans IDE 8.2 RC, SQLyog, MySQL



**Figure 1: UseCase Diagram**

The current system had a lot of challenges that are overcome by this system :

**1 Security:** Maintains admin and students accounts confidentiality and provide information protection and different controlling power to different users.

**2Connectivity:** Keeps organizations better connected with their customers and students. By staying connected with their customers get a better view of their management process..

**3Monetary Savings:** it lifts the burden of any of the paid counselling and guides students through a regular single test.

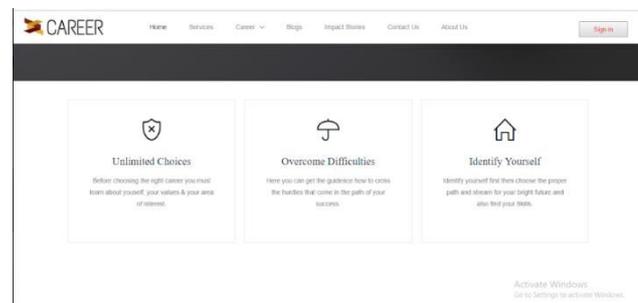
**4Accessibility:** software is accessible for all type of users. All that's required is an Internet connection and users can access a vast range of facilities.

There are various requirements (hardware, software

**6. Result Discussions:**

The output of the system is typically the result of the quiz and the accompanying guidance tips that comes with the quiz result.

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**Figure 2:Career Assistance homepage**



[6] Robinson GFWB, et al. Understanding career success and contributing factors for clinical and translational investigators. *Academic Medicine* 2016; 91: 570–582. [PMC free article] [PubMed] [Google Scholar].

[7] <https://www.w3schools.com/>

[8] <https://dev.mysql.com/downloads/workbench/>

[9] <https://www.sublimetext.com/3>

[10] <https://httpd.apache.org/download.cgi>

[11] <https://www.apachefriends.org/download.html>

[12] <https://php.net/downloads.php>

[13] <https://en.wikipedia.org/>

[14] <https://www.geeksforgeeks.org/>

[15] <https://www.tutorialspoint.com/>

[16] <https://www.boisestate.edu/career/what-is-career-counseling/>