Online Career Guidance System for Students using Java

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Abstract—At the advent of the 21st century, the internet has brought us so any possibilities. We strive to make a progressive world today. This website examines current careers education and guidance being delivered to students and determines whether it is relevant and helpful for students during their decision making process. Web Based Career Guidance is very important to our Educational System. Career guidance consists of services that help people successfully manage their career development. Although this aspect of human development occurs on its own as we mature, everyone can benefit from assistance navigating through this process. This website will be beneficial to the society at large, but more specifically to secondary school leavers and counselors.

Keywords— Career, Guidance, Career Guidance, Counsellors, Career Library, Chatbot

I. INTRODUCTION

Guidance is a term sometimes used broadly refer to advising or helping an individual with any kind of educational, vocational or personal problem. It can also be referred to as a service provided by the particular school to help young persons in making clever decision and changes so as to develop their potentials as an individual and a contributing member of the society.

Career guidance is a set of intervention strategies designed to ease the career development of the individual. Career guidance is a broad term, which includes the development of job search, on interview skills, placement into a chosen vocation, and follows up the placement to ensure effectiveness. In career guidance, counseling is used as one of the interventional strategies.

II. RELATED WORK

Objective—

The objective of the project is to explore the problems encountered by the existing manual system and design a web based career guidance system that willimprove upon the existing manual/ human career guide. This web based application 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 counsellors.

Problem statement—

This Project needs arised due to following problem statement.

a. The numbers of full time counselors are highly insignificant and cannot cater for the number of students.

b. Some counselors are not committed or diligent and can sometimes be unapproachable.

c. The problem of generation gap: the general idea among students is that the guidance and counselor is a middle aged man or woman who is perceived to be „old school‟ thus can only offer suggestions or solutions in like manner

d. Some students could find the counseling season a torture and boring therefore they avoid it.

Existing System—

No.	Existing System Name	Features	Limitations/Gaps
1.	Global Career Counselor [4]	Newsletter subscription	➢ No login and sign-up feature ➢ Need to feel an enquiry form ➢ No Chatbot ➢Cannot explore career options directly on website
2.	Career Guide [5]	➢ Chatbot ➢ Psychometric Career Test	All features are paid.
3.	Tucareers [6]	➢ Career assessments ➢ Career exploration models	It provides only summarized report. Users have to pay for detailed report.

III. METHODOLOGY

Tools and Technology—

Java- Java is a general-purpose, class-based, object-oriented programming language intended to let application developers *write once, run anywhere* (WORA). It is developed by Sun Microsystems.It is designed for having lesser implementation dependencies.

JavaScript- JavaScript is a dynamic computer programming language. It is commonly used as a part of web pages, whose implementations allow client-side script to interact with the user and make dynamic pages. It is an interpreted programming language with object-oriented capabilities.

HTML- HTML stands for Hypertext Markup Language. HTML is not a programming language, it is a markup language thatis used to structure a web page and its content. HTML consists of a series of elements, which you use to enclose, or wrap, different parts of the content to make it appear a certain way, or act a certain way.

CSS-Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language such as HTML.CSS saves a lot of work. It can control the layout of multiple web pages all at once.

Proposed System—

The system of ours includes two major components, one for displaying all the career options and the other for solving queries directly from expert. The user will be able to interface with the system either via chatbot or expert and get their answers by login id and password. The user will get desired result and choice of career they want to step in.

The idea behind designing such a system is to provide the Students a one-stop solution to all their future academic queries. Compared to earlier times when there were very few options available to the candidates, today there are a number of good remunerative career professional that are available to the students. Besides these, the current level of media exposure makes majority of students thoroughly confused. Many of these aspiring candidates and their parents.

System is divided into 3 modules:

i   **Admin:** Admin manage and maintain websites, taking into account functionality, appearance, content, and performance.

ii **Expert:** Career experts are usually employed in academic settings, aiding students in building future educational or career paths.

iii **Student:** The student will be able to access all the features of the system.

Features-

Chatbot: A chatbot is a computer program that's designed to simulate human conversation. Chatbot work based on pre-written keywords that they understand.

Career Library: It contains all the possible career options in a wide range.
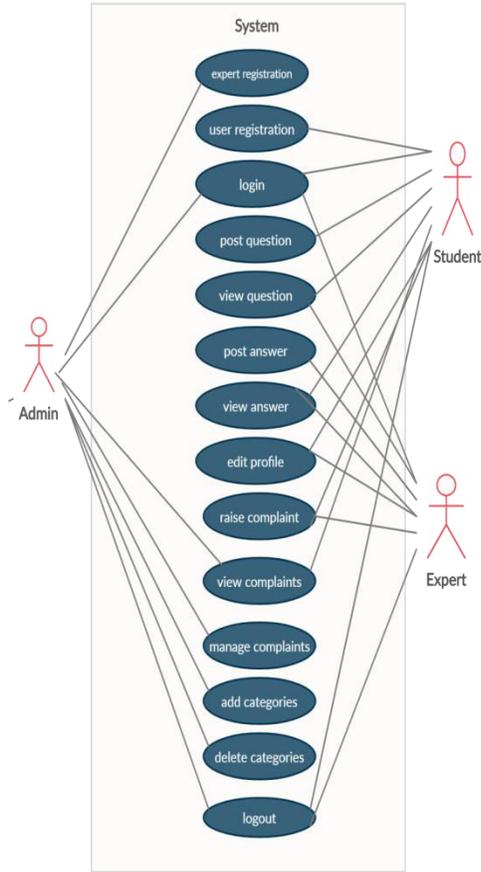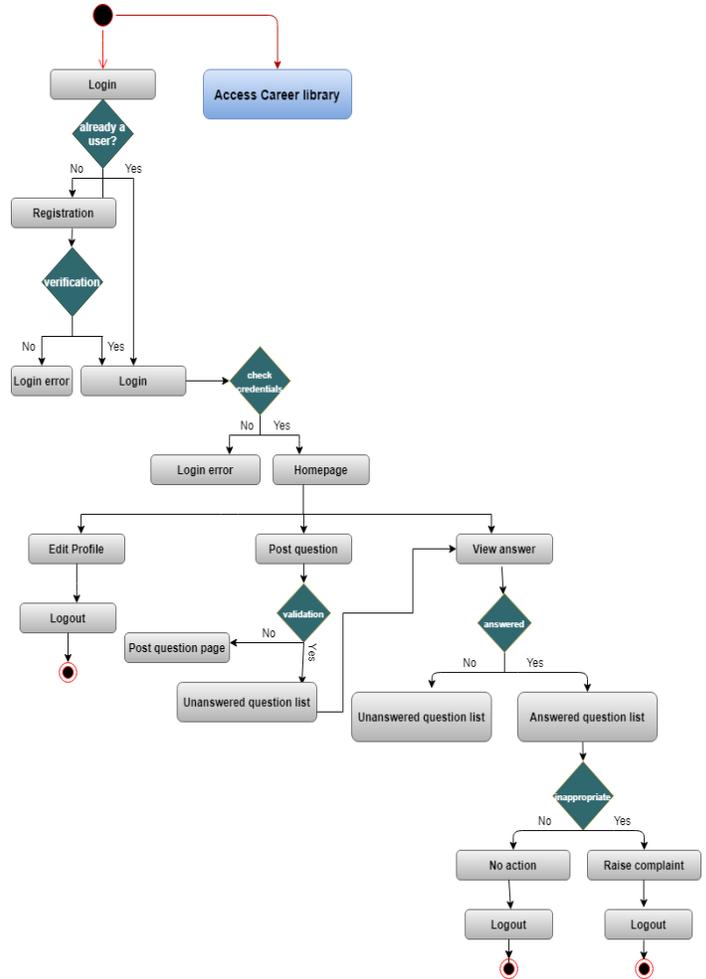

Fig 1: Use Case Diagram

Fig 2: Activity Diagram

IV. RESULTS AND DISCUSSION

- **Splash page with Chatbot:**
  Website opens with a Splash screen, followed by Chatbot.
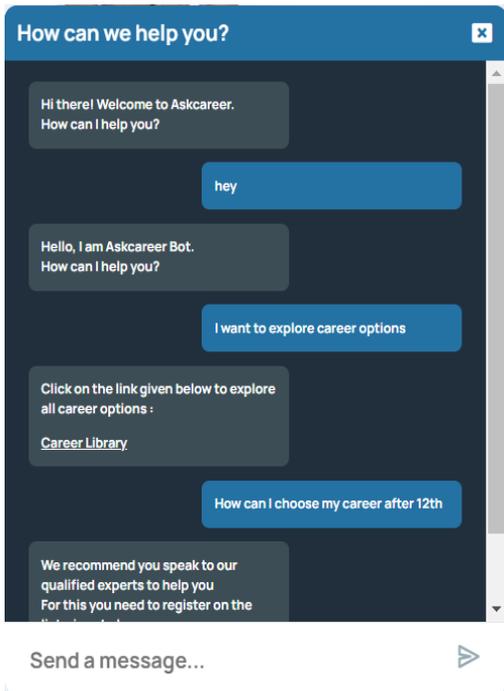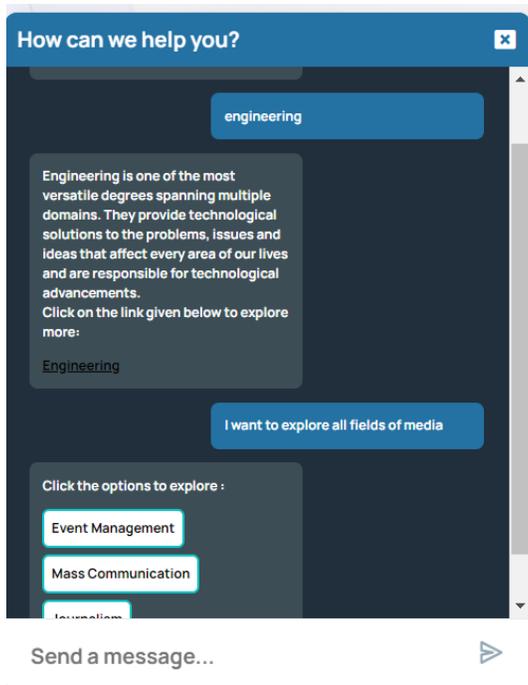

Fig 3: Home Page

Fig 4: Chatbot

Fig 5: Chatbot

- **User Home Page:**

After successful login or sign in User Home Page is visible. On User Home Page we have different options like Post Question, Answered Questions, Unanswered Questions, Incident Raised and we can also search question by using Search option.
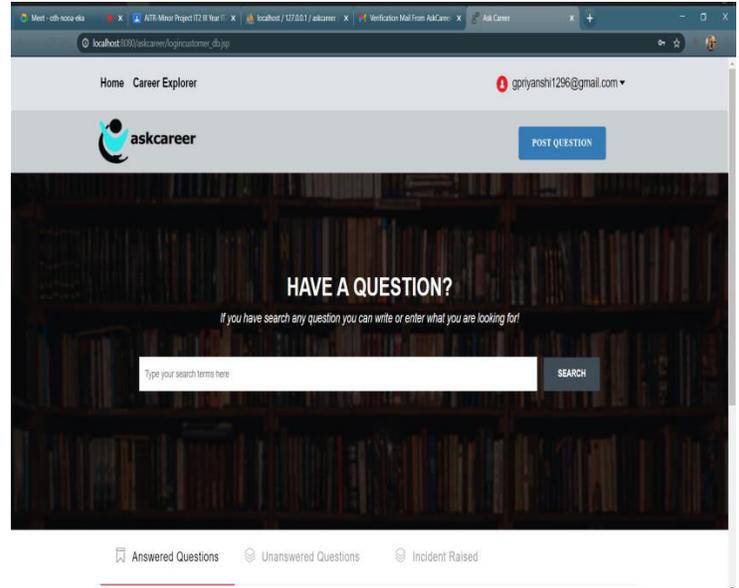

Fig 6: User Home Page

- **Post Query :**
  On clicking Post Question button, we can post our queries. After entering correct questions' details, it will show a message "Your question is posted successfully and will be answered within 12 hours".
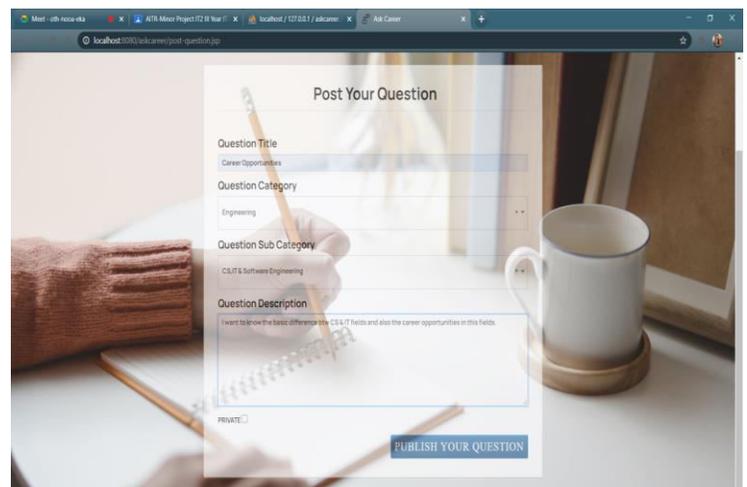

Fig 7: Post Question

- **Answer List:**
  On clicking Answered Question, we can see answer for our question.
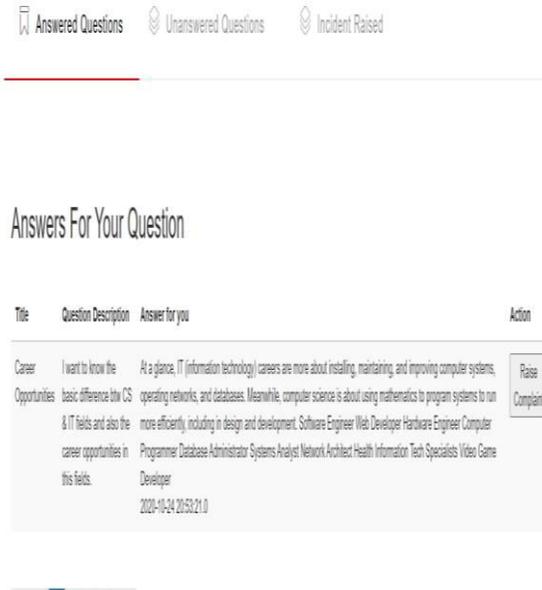

Fig 8: Answer List

- **Raise Complaint by User :**

If user find any inappropriate answer then on clicking raise complaint button, a dialog box will appear and after successfully entering valid description and clicking on Post Complaint button, a message will appear "Your complaint has been raised ".
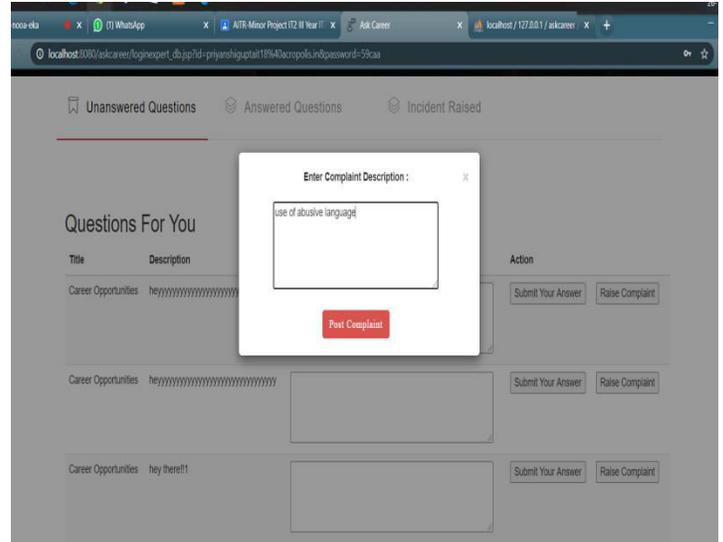

Fig 9: Complaint Description

- **Career Library :**
  On clicking Career Explorer, we can explore all the possible career options.
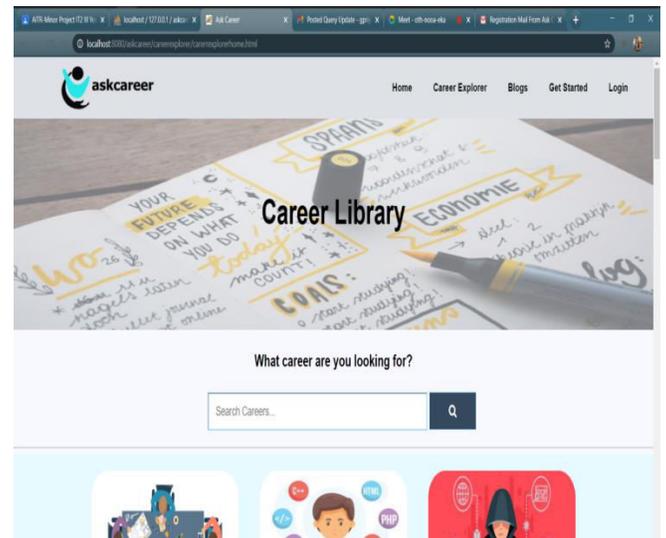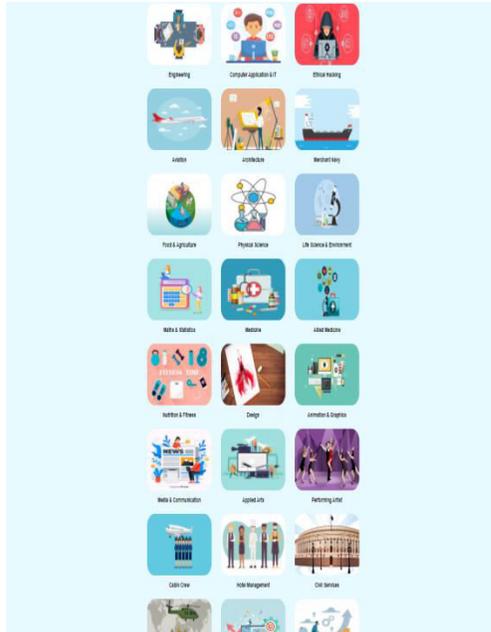

Fig 10: Career Library

Fig 11: Career Library

V. CONCLUSION AND FUTURE SCOPE

This is a web based career guidance system used to study career guidance as a tool to helping students to choose a proper career path. In this, we are able to explore 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 and advise them on the career path that best suits them. And also serve as a complementary tool for career guide and counselors. In this research we have studied career guidance, designed a functional web application and implemented it with some successful test results.

Limitation of Work—

The main limitation of our application is that only one expert is available for each sub category and henceforth students might not get satisfied with the answers. And there is no direct contact between experts and students, therefore experts would guide the students on career regardless of student's basic interest and capabilities.

Future Scope—

In future, we too have plans to update our application. In plan to future, we will improve chatbot. Currently there is no direct contact between experts and students, so the main plan is to develop a live chat platform between experts and students.

VI. ACKNOWLEDGMENT

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