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Engineering 360 – An Android Based Career Counselling Application

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ABSTRACT: Career concerns are often mentioned by clients seeking not only career counselling, but also mental health counselling. Typically, these career concerns fall into 2 main categories: career decision making and job-search needs. Technology, in the form of websites, social media, and applications, has expanded the resources available to today's counsellors. We explored multiple technological tools that might accompany each step of the career decision-making process, organized through the lens of cognitive information processing theory, as well as the job-search process. Regardless of the professional identity or primary focus of counselling services provided by the counsellor, having knowledge of career-counselling websites, tools and strategies such as those presented in this paper will ensure that clients are equipped with the tools necessary to address their career concerns.

KEYWORDS: Career, Decision Making, Professional Identity

I. INTRODUCTION

A college is an educational institution that awards degree to students. After completing school students look forward to continue their further studies in college. College is a place that offers many courses out of which students can make his/her own choice. There exist many colleges that specialize only in one field such as IIT and IIM offering courses in the field of science and management basically.

It is very important to attain education from college because college studies open wide horizons of knowledge in the life of students. They get to know much more about life and students who graduate and post graduate from college are offered greater and better job opportunities than those who do not seek college studies. Many students may resist college education because of the ever increasing expenditure on attaining knowledge at higher level but still it holds its importance in terms of earning potential that it offers to students after they complete their degree

II. LITERATURE SURVEY

1] A Career guidance mobile application based on personality

Approval The thesis of Faith Too was reviewed and approved by the following: Dr. Joseph Sevilla, Director, @iLabAfrica, Strathmore University Dr. Joseph Orero, Dean, Faculty of Information Technology, Strathmore University Professor Ruth Kiraka, Dean, School of Graduate Studies, Strathmore University

This research provides a comprehensive study of the career guidance situation in the country and globally, the factors that ought to be considered for successful career guidance and the existing solutions. The collection of data was done using document reviews and questionnaires this was useful in identifying the improvements that need to be made in the way career guidance is done currently. Analysis of the data collected was done using Google analysis tool and the results used to come up with system requirements. Agile methodology was adopted as the software methodology for developing the application

Methodology

The Engineering 360 is an Android based application which focuses on simplicity. The user has the option of creating his personal account with the help of otp verification mechanism. The first screen consists of a dashboard providing a menu of three options namely Career Counselling, Engineering Colleges and College Quality Checklist.

1. Career Counselling

This feature helps the user in finding insights about the Engineering field and various streams associated with it. It further consists on three sub menus :

1.a) Engineering :

In this module a 10 questions quiz is provided to the user which helps him in decision making. It helps the user to get clarity regarding the engineering field. Based on the responses the algorithm generates a score which suggests the user whether he should pursue Engineering as a career option or not.

1.b) Branch :

After the user gets a confirmation whether to pursue Engineering as a career or not this module helps him to choose the appropriate stream of engineering. Based on the responses to the 10 questions the algorithm generates a score. This helps the student to get a clarity about his capability to pursue a particular engineering field.

1.c) Understanding Engineering Stream :

In this module the famous six Engineering branches are listed. The user can select anyone from the listed branches. After clicking, he will be redirected to the respective youtube video link wherein a detailed analysis about the Engineering stream is mentioned.

2. Engineering Colleges

This module provides a list of top engineering colleges in Pune (currently). The user can either search the desired college in the search bar or scroll through the colleges. On clicking a particular college its details will appear. The details include the college name, fees, cut off marks, placement percentage, images, branches, locality and a short description of the colleges.

3. College Quality Checklist

During the admission process, the students find it difficult to select a well-equipped college for their four year engineering career. They don't know the right questions to be asked to the college representatives. That's where this module comes handy. It provides a set of questions which the user has to answer. After recording the responses, the algorithm generates the output wherein the college is rated as below average, average and above average. This output is based on the responses the user enters in the visible questionnaire.

III. RESULTS

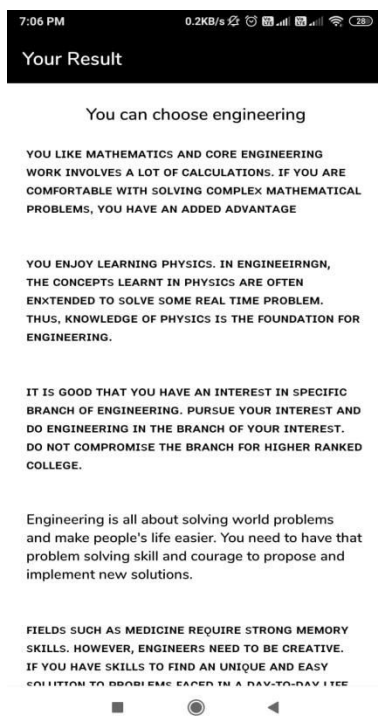


Fig 1: Final Result

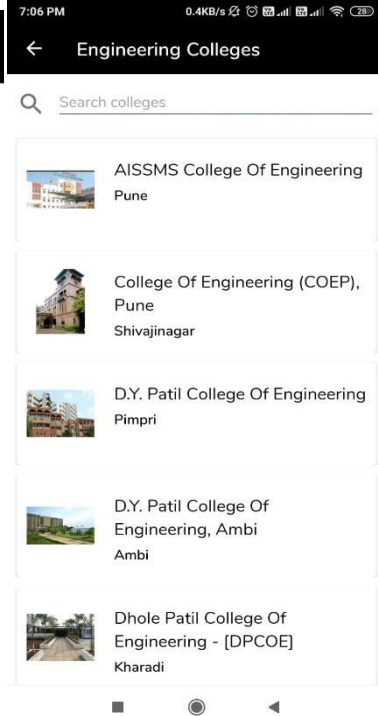


Fig 2: List of Colleges

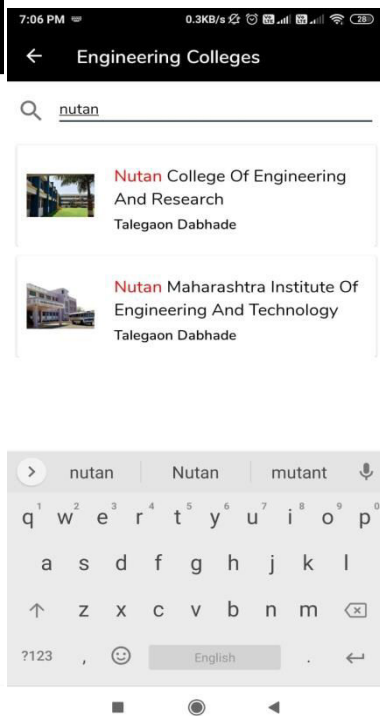


Fig 3: Use of Search bar

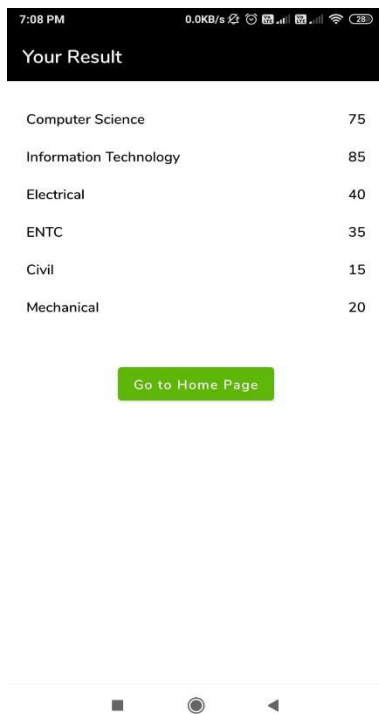


Fig 4: Output based on User responses



Fig 5: College Details



Fig 6: Various Engineering Streams

List Of Modules Created:

1. User Authentication Module
2. Career Counselling Module
3. Career Planner Module
4. College Finder Module

Libraries required:

1. AndroidX
2. Firebase - Messaging, Firestore, UI, Functions, Authentication, Storage
3. Butterknife
4. Auto Image Slider
5. Android Image Cropper
6. Glide
7. Material Drawer

V. CONCLUSION

With the help of Engineering 360 application the student's decision making is enhanced. He is informed about various engineering streams and is given detailed information about the engineering colleges available.

We have learnt mobile app development and NoSQL database with the help of Android Studio and Firebase. We also got to learn various languages such as Java, XML and designing UI and their implementation in real world project.

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