An Android Application for Course Guidance and College Finder

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ABSTRACT

Changes in Information Technology (IT) allow schools to utilize databases and applications such as Student Information System (SIS) thus, making the accessing of records centralized. In any field, after higher secondary education there is an entrance examination for getting admission to graduation/ post-graduation college. It may be Engineering, Pharmacy, Medical or any other technical or nontechnical field. The proposed system is an Android application which provides course guidance and helps students to find colleges in engineering field as per the marks they got in their entrance exam (e.g. MHT-CET). It also helps to find Colleges for higher secondary education (i.e., XIIth) for Arts, Commerce, and Science.This application can be used by students or parents in order to get maximum details of the courses in which they want to go and accordingly as per the entrance examination marks in which colleges they are eligible. The application is bounded within Mumbai University (i.e., courses and colleges shown will be under Mumbai University only). To access the application User registration is required.

Keywords : Course Guidance, College Finder, Android Applications, Real-Time Locations.

I. INTRODUCTION

In any field after higher secondary education there is an entrance examination for getting admission to graduation/ post-graduation college. It may be Engineering, Pharmacy, Medical or any other technical or nontechnical field. Nowadays, it is easy to gain information through tons of websites about any courses just by searching it.

In order to get admission in good colleges, students first have to get the good score in the entrance examinations. But even after getting a good score most of the students or their parents are not having any idea about the good colleges in that particular field. And for the students who has got the average score, it is an even more difficult task to find the appropriate college and get the admission in it. It happens that for searching the colleges the students have to search on the internet extensively [4].

The proposed system is an Android application to manage student details on mobile and keeping them updated about latest courses in college. This application is an Android OS based application which will be working on all the smart phones and tablets that are working on android OS 4.2 and above. It is an application that will help these students to get the most appropriate college for them in whatever field they are aiming to develop their career. It will also provide real-time locations of college as per User's choice.

Most importantly, the given courses and colleges shown are under **Mumbai University** only. By entering, the marks of their entrance exam the list of engineering colleges will be generated according to their rankings and also for the other courses college list is available according to their rankings. For courses, short and precise will be shown and also the syllabus and topics within the courses are also shown.

II. Existing Systems and Their Limitations.

Currently in the market, a number of books are there which give such kind of information, but these books are costly and are also not reliable. Also, there are some websites which do provide similar functionality, but there is no smart phone application like this for Android OS. Android is an open source software stack that includes the operating system, middle ware, and key applications along with a set of API libraries for writing mobile applications that can shape the look, feel, and function of mobile handsets. Android takes a different approach to applications. The architecture of Android permits a highly customizable software environment thanks to its runtime binding of requested actions and the code to satisfy those requests. In android market there is an "Engineering buddy" application which gives the engineering college list and attendance system calculator. One more application is "Engineering Stream Suggester" which suggests the engineering field for user based on there academic details. The above mentioned android applications working only for engineering departments and it does not guide users about course syllabus and eligibility criteria.

III. PROPOSED SYSTEM

This application is an Android application. The main objectives of this application are providing proper guidance of the related course and also find the colleges accordingly. The proposed system will provide the information short and precise about the course and interact with the user as per his preference. For finding the college, the user has to enter the marks which he scored in the entrance examination. After entering information a list of colleges will pop-up according to the rankings/preference. The functionalities can be divided as follows:

REGISTRATION AND LOGIN: After downloading and installing the application, the first step of the user is to register. The application will provide details regarding registration. Registration can be done through application or he can simply register through Facebook or Google+ (a feature provided in the application).

USER DETAILS: It includes basic details such as Email-id and password for registration. After registration, a verification link will be sent to the user's mail and after clicking that link user can Login afterward.

COURSES: Various tabs of fields are shown in the application after logging in User can select any of the fields in which he wants to explore and can obtain as much information he/she wants. Courses shown here are the courses which comes under Mumbai University. Courses regarding technical and non-technical fields (like Engineering, Medical, Law etc..). are provided here. It gives detailed about the courses and admission criteria.

COLLEGE FINDING: The second task of the proposed system is finding the college of the required field. For e.g. If the user is opting for Engineering and want to see the colleges for it, then he simply needs to add the Engineering field and MHT-CET marks. After adding this information, a list of Colleges pops-up on the screen. This list is shown according to the ranking of the college. Similarly, for the other courses the college lists are shown according to their rankings . Afterwards, user can select the college which he/she wants. After selecting the college, basic details of college(like Name, Address, Website, Email-id , Fax no. etc..) is shown along with its real-time location. So if User needs the direction of the college can have it.

STUDY RESOURCES: User can also download the syllabus according to the selected courses.

IV. RESULTS AND DISCUSSION

REGISTER:
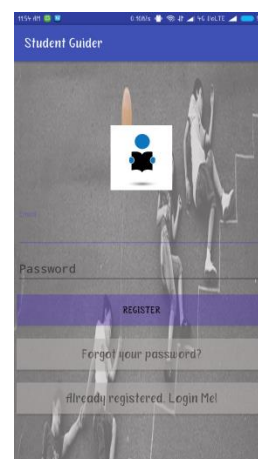The registration activity of the application is shown below.

Figure a. Register Activty.

LOGIN:

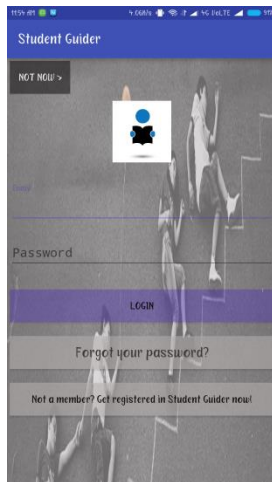The login page of our application is shown below.

Figure b. Login Activity.

HOMEPAGE:

After logging in user will visit the home page of the application(as shown in Fig b.).

Figure c. Home Page.

COLLEGE LIST AND COLLEGE DETAILS:

The application also give feature of providing college list and college details of a particular course.(as shown in Fig d.).
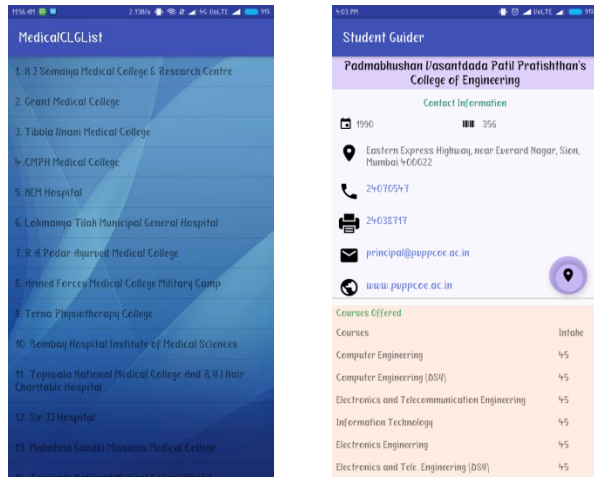

Figure d. College List and College Details.

V. CONCLUSION

This application assists in guiding the courses and finding colleges. It can be monitored and controlled remotely. It reduces the man power required. It provides accurate information always. Malpractice can be reduced. The data which is stored in the repository helps in taking intelligent decisions by the management[5]. It makes finding information much easier and is shown in a structured format which makes it simple to understand.

I. REFERENCES

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