Online   Pre-booking for College Admission through Android Application

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Abstract— **From the insception of 21st century, education has created a dramatic change in one's life.The human race is towards finding a quality education. For that they are moving to engineering college. First the student need to come college and get the information about the college and departments available in the college. Finally they have to choose the departments which are available for their cut-off marks and then only they can book their seats in the respective departments. Our project is to create an android application and to utilize the technocrat entirely for the current digital era generation to apply possibly for the beneficial of admission seekers and also the parents. This android application will help the student to gather information about a particular college and course. Then they can easily register themselves in a particular course through this application. Users of this application would be able to fill in the admission form and the application would store this information in the central database. The scope of this project is to show the potential use of Android application within organizations in the admission making process.**

Keywords: android application, online admission, admission form, central database.

I.   INTRODUCTION

Android is the open source operating system which powers many multipurpose applications. Mainly it is used in mobile devices. Android is built on Linux kernel version 2.6.25.Android being free for commercial use, it has strong, wealthiest and innovative backbone of computing behind it: Google. According to Google, about thousands of Android devices are activated daily. This indicates that Android devices are gaining popularity amongst Smartphone users [1]. Android application is a collection of tasks; each task is called an activity. Each activity has unique purpose and user interface [2]. Applications of android are developed in the Java programming language using the Android Software Development Kit [3]. Net Beans and Eclipse are the two integrated development environment (IDE's) which are used for Android development using Android Development Tools as a plug-in. This application would help students to fill their forms with the help of internet from anywhere and anytime. It also helps the organization to handle the available data efficiently [4]. Today the IT initiatives have encourage various organisations to develop new computerized systems to reduce workload and facilitate their staff and students for their day to day operations. Today all the work at the time of admission of the students is done manually by ink & paper which is very slow and consuming much efforts and time. Student admissions are a vital part of any college's alive. Students are what keep a university alive. The student admission is one of the most activities with in a college as one cannot survive without students. The existing manual system of admission system takes long time to complete and produce a lot of paper work .Online student admission system is designed for reducing workload of student admission process in any educational institutes. This application would help students to fill their forms with the help of internet from anywhere and anytime. It also helps the organization to handle the available data efficiently.

II. RELATED WORK:

The System is a combination of an android system and a database as the android system is at the frontend and a database in sql at the backend. Android is used by many companies which require a low cost operating system for devices with high technology. Android being an open source operating system makes it more desirable. The online admission system using an android application is feasible as it facilitates accuracy and reliability for both the user as well as an institute. The availability of the form 24*7 makes it easy for the users to fill forms without time constraints. Being online recipient for all applications, the system also makes it easy for the remotely located applicants to submit their forms without requiring their physical attendance at the institute. It becomes manageable for the institute as there is only one central database which stores the entire details of the students who wish to get admission in the institute. It doesn't require different administration to handle the admission process. In the online admission process only a database manager is required to handle the data. The online process would also eliminate the paper transactions of the current systems and thereby reduce the maintenance.

A. *Existing system:*

The professional course like engineering is creating majorimpact in one'slife. Today in all colleges details are entered manually. The student details in separate records are tedious task. Referring to all those records and updating is needed. There is a chance for manual errors. First the student need to come college and get the information about the college and departments available in the college. Finally they have to choose the departments which are available for their cut-off marks and then only they can book their seats in the respective departments. And also several websites are available for online admission like IDNOU (Indira Gandhi National Open University).

B. *Disadvantages:*
   ❖ Require much man power i.e. much efforts, muchcost and hard to operate and maintain.
   ❖ Since, all the work is done in papers so it is very hard to locate a particular student record when it is required.
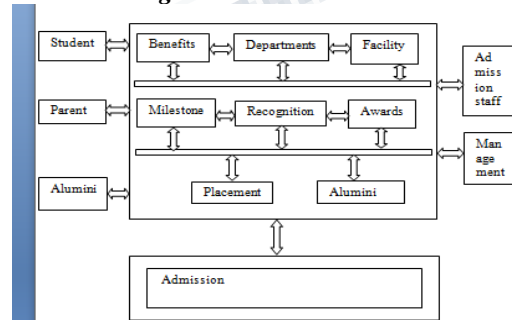
C. *Proposed system:*

The aim of the proposed system is to address the limitations of the current system. In this system the student can gather the informationabout the college, facilities in the college, department available in the college according to the mark, companies related to every department. System will allow the registration of student in particular department. System has an inbuilt validation system to validate the entered data. After successful submission, system will give unique registration number for eachstudent and sends the message to their mobile phones. The student can check their booking status.

D. *Advantages:*
   ❖ Paperless admission with reduced manpower.
   ❖ It provides proper guidance and self-counselling.

E. *Block diagram:*

Modules:
1. Benefits, department and facilities.
2. Milestone, recognition and awards.

3. Placement and alumini.
4. Admission.

III.   MODULE DESCRIPTION:

A. *Benefits,department and facilities:*

Benefits:

College strives to achieve academic excellence by futuristic outlook in the fields of Engineering and Technology in a well-disciplined environment through, Commitment to continual improvement in all areas,
   ❖ Involvement of people at all levels
   ❖ Up gradation of infrastructure and human resources
The campus has a green cover with many trees and neatly maintained lawns. Concerted efforts were made in planting the trees regularly. A group of experienced labourers take care of watering and preservation of trees, lawns and garden to maintain a sustainable environment.

B. *Departments:*
Aeronautical engineering:

It is one of the most popular career options for students who want to make their career in designing and building airplanes, space shuttles, jumbo jets and other similar exciting stuff. It deals with all the technical details and mechanisms behind all flying bodies.
Civil engineering:

The department's professional programme includes a deeper study of a number of engineering sciences to which the students are introduced at the core curriculum level, experimental solution for physical problems, techniques and methods of design of systems relevant to the contemporary industrial world.
Computer science and engineering:

The department attributes its success to the creative and innovative outlook of its students also. It encourages students to participate in numerous symposium and to present papers in them. Students are also made to undergo in-plant training programs, where they hone their technical skill in the realm of computers.

Electronics and communication engineering:

The emphasis that has been placed on the industrial needs of our country in the curriculum is being updated continuously with rise to incorporating the fast-changing technological trends in the Electronics and Communication Engineering in our department. The department has a close interaction with the alumni and is continuously using their inputs for improvement of the curriculum and research facilities.
Electrical and electronics engineering:

The Electrical and Electronics Engineering degree program prepares graduates to enter a dynamic and rapidly changing field with career opportunities in Electric Power, integrated circuits, Robotics and control, Computer hardware and software. The demand for Electrical Power is increasing rapidly and thereby Electrical Engineers are in great demand to meet the requirements.

Mechanical engineering:

Mechanical Engineering addresses the analysis and development of technological system involving motions and allows people to harness the energy and forces that exist in nature to provide for the needs of society. Mechanical Engineering are responsible for the conception, design, manufacture, control, maintenance and management of such systems. The range and diversity of career choice Mechanical Engineers is consequently tremendous.

Information technology:

The department deals with the study, design, development, implementation and management of computer-based information systems, particularly software applications and computer hardware. The department has grown up steadily keeping pace with the development in the industries and the need for the qualified graduates and post-graduates to meet the challenging scenario of the day.

Facilities: Internet:

All students and faculty members have access to internet facilities. The college uses a bandwidth of 20MBPS from BSNL and Vodafone Service providers and hosts a net cafe that is accessible to every user who wants to expand the horizon of knowledge.

Hostel:

Separate hostel facilities are available for boys and girls. Tidy rooms and hygienic facilities make for an ideal away from home ambience. Students in the hostels have access to everyday conveniences including telephones and enjoy the luxury of watching a film every weekend. The mess facilities in the hostels are designed to meet international hygiene standards.

Medical facility:

The college ensures that students and staff have easy access to medical facilities at any point of time.

ATM Centre:

For the convenience of students and staff, there is an ATM centre within the college premises. This makes it easy for them to meet routine expenses as well as contingencies.

Transport:

College provide an enormous bus facility for the students and student's convenience and security. College provides bus facility for all the routes.

Cafeteria:

To nourish our students and staff with delicious food, the college canteen functions regularly and provides a variety of food and eatables to the taste of all the people at a nominal rate.

2.Milestone, recognition and awards:
- ❖ Milestone:
- ❖ 93.67% top result in April / May 2015.
- ❖ 3 gold medals and 59 university ranks in 2014 batch.
- ❖ 82.59% 18th rank in April / May 2013.
- ❖ 83.21% 6th rank in Nov / Dec 2013.
- ❖ 81.12% 4th rank in Nov / Dec 2012.

VI. RECOGNITION:

Our college is approved by AICTE New Delhi, Affiliated to Anna University, NBA Accredited Courses (MECH, ECE, and CSE) and An ISO 9001:2008 Certified.
3. Placement and alumini:

Placement:

While it has been years filled with activities and satisfactory results for the Training and placement Cell, it goes without saying that much more has to be aimed at. Raising the level of information-support for the students, wider exposure to the industry, enthusing more students to take relevant training courses and inculcating the spirit of entrepreneurship in the student community are the areas that need further intensity. Our recruiters are Tata Consultancy Services (TCS), L&T InfoTech, Tech Mahindra, HCL Technologies, USTGlobal, I-Gate Solutions, WiproTechnologies, Accenture, Cognizant, Exterro, Info view, NTTData, Infosys, AON Hewitt,Avalon, Coca-Cola,HGS,Sensible,and Symantec etc.

Alumini reviews:
S.Malathi(cutoff:198.75)

VII. CONCLUSION:

This project when implemented would help the large organizations to reduce the manual work needed for different reasons. This would also provide up-to-date information to the users on their android devices and would also make the complete data available to organization at one site.

It would also help in reducing the human errors such as misplacing the form due to paperless transactions. The time required to generate the reports from the

available data will be reduced significantly as the computation will be done by the machine. The project will make an effort to eliminate the geographical boundaries through the means of Internet.

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