

# Implementation of Open Campus Alert System

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**Abstract:** This paper presents a system that effectively and efficiently provides an application of website development by assisting graduating students and helping them with their company placements. This website helps engineering students to get notified on time for the placement drive being conducted in the nearest region or in the particular region, thereby avoiding confusions among students and thus preventing students from being vulnerable to fraud placement notifications and advertisements. The website normally consists of registration of students and various companies, and uses database and php applications to execute the same. This website is very helpful to the BE/BTech students who are in search of their dream company and want to get placed in one of the best IT companies.

**Keywords:** Campus alert, Off Campus Notification, Company Placement Notification and Placement Notifications.

## 1. Introduction

In today's world with the gradual improvement of technology, work process is becoming more and more automated. Now-a-days, Campus Drive is also playing an important role of being a stepping stone in the life of Under Graduate engineers. Conducting a campus placement drive is a cumbersome process, if conducted manually. Hence, automation of placement activity is the need of the hour. The efficient usage of computers in daily work has caused a sharp decrement in the paper work, usually required while conducting the placement drive. Open Campus Alert System is a web-based emergency notification system that enables college and university administrators to send emergency alerts from one easy-to-use interface [3]. Requiring no software or hardware, our unified emergency alert system enables you to communicate with your entire campus community in minutes via those communication channels most popular with students: SMS text messaging, Email and Desktop Alerts.

In the proposed online system, everything gets automated including registration of students, display of the list of eligible students, deleting the records of some students, updating student's records, activation and deactivation of student's profile which has been created earlier by him/her, privileges offered to the students, communication between the administrator and various registered companies and with the administrator and the registered students, etc. You can notify candidates about the campus drive from any location, be it a day or night, via SMS or email, as students have registered themselves with their email id. The main motto of this website is reaching student's cell phones, with the help of quick

notifying ways and acknowledge them with the important notifications related to campus drives taking place. Wherever the students may be (e.g. in different regions), Campus Alert's quick and reliable emergency notification system will deliver the message since students would have already registered with the website along with the important credentials [1]. With Campus Alert, campus security at colleges and universities have the power to help increase the level of safety on and surrounding campus, enhance campus communications with the community and keep your campus informed while conveying assurance and authority. The students first enter into the portal through the website. They first have to register to the portal to get to a display where their profile is shown to them. Using this system, it will be easy for the T&P Officer to keep a track of progress of an individual student. This system is capable of displaying all the details of a student at a glance without doing any of the data extraction task.

## 2. Problem statement

Students who wish to work in technical fields, join good engineering colleges and wish to get placed in the good technical companies or in their dream companies. Hence the placement process in different colleges play a very important part. In basic process, all the steps are executed manually so this may consist of fake entries too. This may lead to time delay due to error prone processes. Carrying out placement processes manually may lead to some common problems in managing databases of large number of students as large records are to be maintained. Training and Placement Officer has to collect the information of various companies who need to recruit students and notify students time to time about them. Overall, it is a very time consuming process to maintain the record of every student and inform him/her separately about the particular company.

## 3. Purpose of the system

Existing systems are always modified and advancements are induced in them. The best way to improve the existing systems is to convert it into computer based online system. The Placement Officer can pass the required information to the student via E-mail notification mode through the website or the website can directly auto-mail the notifications to the students. The online web portal has a very user friendly interface understood by students as well as companies and provides easy access to student's records. It maintains the details of the students properly and access them whenever required. It

reduces the manual work and help reduce the time taken in doing paper work and maintaining the data also saves money. The portal can be accessed at any time and after any time interval by using correct login id provided and password. Various engineering colleges can use this website as a system to handle student's placements and handle records of the students.

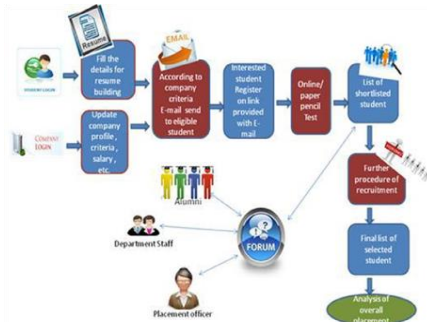


Fig. 1. Flow diagram of open campus alert system

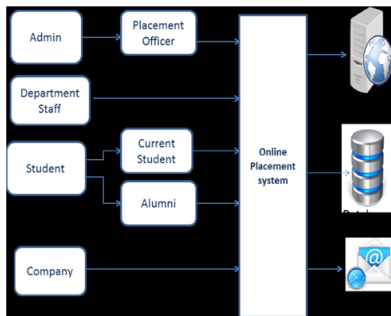


Fig. 2. Block diagram of open campus alert system

#### 4. Proposed work

The proposed Open Campus Alert System for Placement alerts is an online portal which aims at making the process of getting timely alerts and campus placements easier for students. It consists of the four main sections- Student login, Company login, College login and the Admin Section. The work proposed by all these four sections is intended to do the following:

- **Admin Section:** This section controls the Student, college and the company information. The Admin can check each student's detail and can remove fake accounts. It provides college, company and students with a unique id so that no duplication of accounts or data takes place. It is also responsible for sending timely updates to the students about the campus drive scheduled and related information.
- **Company Section:** The Companies that wish to hire Students, have to login into the "company login" section. The companies then upload their profile with the eligibility criteria for the job, dates of the drive, job profile and other related information.
- **College Section:** The colleges that wish to arrange the placement drives, have to login into the "College login" section. The college uploads their information along with the name and number of branches it has. It

also has access to the student data of their respective colleges. On the basis of which, it shortlists the students for the Campus drive according to the company criteria.

- **Student Section:** The students that want to appear for the placement drives, have to login through the student login section. The student then has to upload their profile, along with their education details of all the semesters and their skill sets. On the basis of which they will be scrutinized for the various company's placement drives. Only the Registered Students will be eligible to apply for the drives. The alerts will be in the form of mails and personal messages. The student's information is accessible to the company as well as the student. The students will get the alerts about the drives before 5 to 6 days (or may be earlier) depending on the announcement made by the company conducting the drive.

#### 5. Design details

##### A. Use case diagram

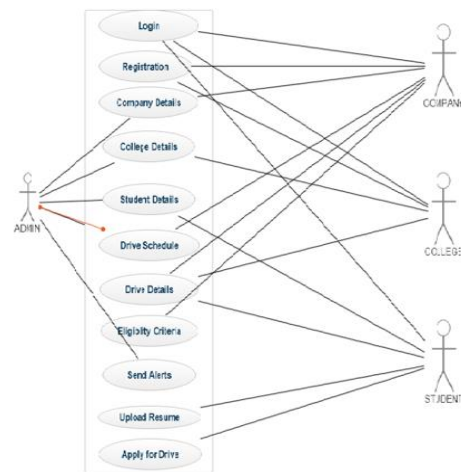


Fig. 3. Use case diagram of OCAS

##### B. Class diagram

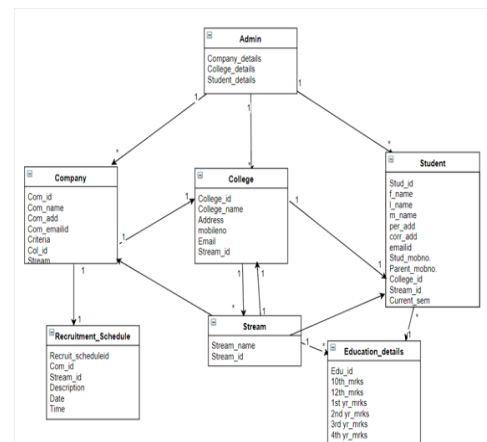


Fig. 4. Class diagram of OCAS

A. Block diagram

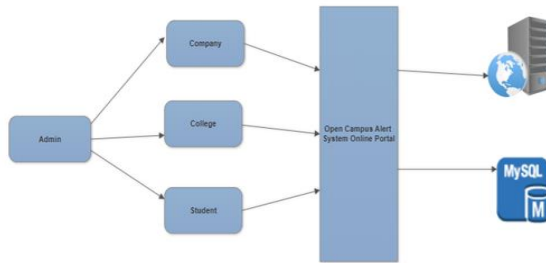


Fig. 5. Block diagram of OCAS

### 6. Result

When the company has successfully registered and posted their recruitment criteria along with their description, the registered students, who fulfil the criteria stated, will get notified through email and personal message. The admin can cross check the student's identity as well as college and company's unique id and will validate it using, and generate the list of eligible students on the basis of particular company's eligibility criteria, the company details will be displayed automatically to students.

### 7. Conclusion

In the existing Training and Placement management system, 80% work is done manually and there is a possibility of occurrence of some errors sometimes may be due to fake entries. In this kind of system the main problem is updating student records, making time to time changes in it, deleting some records or listing them in some order (or sorting them).[4] It becomes very tedious to manage all these tasks manually and that too without any quick notifying method available to give information to students except the notice board that is displayed

in the institution. Students can search online on the portal for required companies and thus can apply for the best company. As a conclusion, the overall process of placement is automated by designing a successful online web portal for students and companies.

### 8. Future scope

There is a huge scope for more improvements in the proposed open campus alert system. Many new features can be added in the system. This system can be placed in the cloud in future so that the maintenance of the data can be reduced. The online placement system can be integrated with the exam system so that the students can practice online for the campus recruitment. [2] The exam will consist of model question papers based on quantitative aptitude, verbal ability and logical ability required for the company recruitment. It will directly give results to the registered students and help them analyze their efficiency and help them to know where they stand. Various tools can be integrated with this system which will analyze the study pattern and efficiency of the students and will also analyze the solving capability of the students. The whole system can be made intelligent artificially, by doing this the system would be able to keep track of the student's records and help them by assisting them in future.

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