



# International Journal of Innovative Research in Computer and Communication Engineering

*(A High Impact Factor, Monthly, Peer Reviewed Journal)*

Website: [www.ijircce.com](http://www.ijircce.com)

Vol. 7, Issue 5, May 2019

## Intra College Communication Platform

Suraj S. Kadam, Akshay S. Mane, Atulkumar R.Mishra, Samarth A. Pote, Nagaraju Bogiri

B.E Students, Dept. of Computer Engineering, K.J. College of Engineering and Management Research, Pune, SPPU,  
Pune, India

Assistant Professor, Dept. of Computer Engineering, K.J. College of Engineering and Management Research, Pune,  
SPPU, Pune, India

**ABSTRACT:** In this work, we propose a design for college event management system utilizing computer aided system, which can play an important role in college management. The purpose of the system is to connect different colleges together those who are under same university and provide an efficient platform to represent the activities, events and student projects. In this system, the main authorized person will be college principal who have authority to manage his college and all data those uploaded by HOD and student also. The particular college HOD can upload his college events information on this site. Also the college students can upload their innovative projects on site and also search the college events, other student's projects on this site. Using data mining a several elements are included in it, such as teacher information, student information, college information, event information and project information etc.

**KEYWORDS:** College Event Management System; Computer Aided System; Student's Projects.

### I. INTRODUCTION

The core idea of this project is to implement android based Mobile Campus application for advancement of institution and educational system. The application will be used by students, teachers and parents. In the previous system, all the information has to view in a hard file, or in website. At the same time while searching any information it is too difficult to access and takes a lot of time to search the particular website. Hence, in order to overcome this problem a smart phone based application using Android can be used to make this process easier, secure and less error prone [1].

### II. MOTIVATION

This proposed to be a web application. The project provides most of the basic functionality required for an event type e.g. [Marriage, Dance Show Birthday party, College Festival, etc.], the system then allows the user to select date and time of event, place and the event equipment. All the data is logged in the database and the user is given a receipt number for his booking. The data is then sending to administrator (website owner) and they may interact with the client as per his requirement [2].

### III. OBJECTIVES

The main objective of this app is to make advancement in education system and institutional activities. This application helps in adding mobility and automation in managing the institutional information. The existing system uses website for publishing notices, or peon helps in circulating notices. This is very time consuming process. The android application simplifies this process by giving instant notifications to the students or concerned staff. This application makes this process easier, faster, and secure and less error prone [3].

### IV. RELATED WORK

This project is based on COLLEGE MANAGEMENT SYSTEM. It manages the college information, student information, placement information, various different types of event going on in our college. It also keeps track records

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of all the information regarding students those who are placed in the various organizations. It has a notice board which contains information about various cultural or technical or any sports which is supposed to be held soon [4].

In this work, they propose a design for college student management system utilizing computer aided system, which can play an important role in college management.

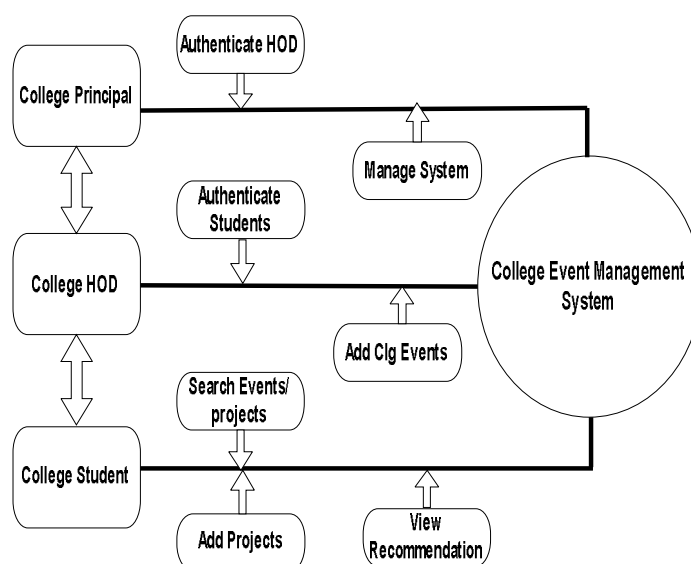
Firstly, they organize our proposed college student management system via a hierarchical structure, which contains (1) Web display layer, (2) Business logic layer, (3) Data access layer, and (4) Database layer [5].

In this proposed system, students can view results using Android phones. The data will be stored in the college server. The faculty can login into their college account through the app itself and update the academic result. In this system, students have easy access for viewing the marks, provided their authentications are correct and they are not permitted to change/update the marks. The proposed work has two modules: 1.Student 2.Admin. In the student's module, student need to register their roll no, college registration number, student name. Admin module maintains the student's marks of internal college exams [6].

This work is aimed at developing an application for event management system. Now a day's, the events such as festivals, wedding etc. have become a core part of life which has resulted in event planning and Management Company to rise. With the customers and events increasing at larger rate, it is difficult to manage using traditional system using spreadsheets, traditional database and more. In order to overcome the drawbacks of traditional Event Managing System, a new Smart Event Management System can be introduced which uses the modern technology for managing various tasks and planning for employees, customer, location, transport and more. With the help of this technology, the distance between customer and management team has reduced with the Smart Web access and mobile access [7].

Thus, this study focuses on data mining for small student data sets and aims to answer the above research questions by comparing two different data mining tools. The conclusions of this study are very promising and will encourage HEIs to incorporate data mining tools as an important part of their higher education knowledge management systems [8].

## V. PROPOSED METHODOLOGY



The purpose of the system is to connect different colleges together those who are under same university and provide an efficient platform to represent the activities, events and student projects. In this system, the main authorized person will be college principal who have authority to manage his college and all data those uploaded by HOD and student also. The principal authenticate the HOD after that he/she will get the permission to handle his task. Second, the particular college HOD has the authority to authenticate the students. Also HOD can upload his college events information on this site. Also the college students can upload their innovative projects on site and also search the college events, other



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student's projects on this site. The students can get recommendation about upcoming events. This system is very useful website for inter college communication and will fulfill all requirements of both HOD and students

## VI. LITERATURE SURVEY

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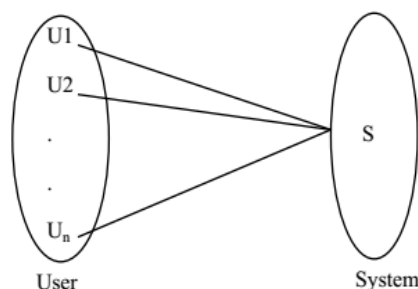
The main objective of this app is to make advancement in education system and institutional activities. This application helps in adding mobility and automation in managing the institutional information. The existing system uses website for publishing notices, or peon helps in circulating notices. This is very time consuming process. The android application simplifies this process by giving instant notifications to the students or concerned staff. This application makes this process easier, faster, secure and less error prone.[3]

This project is based on COLLEGE MANAGEMENT SYSTEM. It manages the college information, student information, placement information, various different types of event going on in our college. It also keeps track records of all the information regarding students those who are placed in the various organizations. It has a notice board which contains information about various cultural or technical or any sports which is supposed to be held soon.[4]

In this paper, they propose a design for college student management system utilizing computer aided system, which can play an important role in college management.

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## VII. MATHEMATICAL MODEL



In our system, the user can be college principle, college HOD or college student.

Set Theory:  $S = \{s, e, X, Y, \Phi\}$

Where,

$s$  = Start of the program.

Register in system.

Log in system if already registered.

Add event/ projects, search events, projects.  $e$  = End of the program.

Get events details, project details, recommendation.

$X$  = Input of the program.

Input can be search keyword related to projects and events.



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Y = Output of the program.

Get the upcoming events details, student's innovative project details, recommendation about upcoming events and projects.

$X, Y \in U$

Let U be the Set of System.

$U = \{ \text{Client, K, F, R} \}$

Where, Client, E, D are the elements of the set. Client= User can be college principle, college HOD or college student

K= Searching keyword

F = Fuzzy Logic

R =Recommendation

## SPACE COMPLEXITY:

The space complexity depends on presentation and visualization of discovered patterns. More the storage of data more is the space complexity.

## TIME COMPLEXITY :

Check No. of records available in the datasets= n

If  $(n > 1)$  then retrieving of information can be time consuming.

So the time complexity of this algorithm is  $O(n^n)$ .

$\Phi$  = Failures and Success conditions.

### Failures:

Huge database can lead to more time consumption to get the information.

Hardware failure.

Software failure.

### Success:

Search the required information from available in Datasets.

User gets result very fast according to their needs.

**Above mathematical model is NP-Complete.**

## VIII. ALGORITHMS

### A. Fuzzy Logic Algorithm

Fuzzy matching is a technique used in computer-assisted translation as a special case of record linkage. It works with matches that may be less than 100% perfect when finding correspondences between segments of a text and entries in a database of previous translations. The procedure of fuzzy words matching is based on a modified algorithm of the Levenshtein distance. Levenshtein Algorithm (Fuzzy Matching) The proposed by W. Levenshtein metric of dissimilarity of strings (words) has been modified by accounting for the word quasi core constancy and the distance of examined characters from the beginning of the word. Levenshtein distance is a string metric for measuring the difference between two sequences. Informally, the Levenshtein distance between two words is equal to the number of single-character edits required to change one word into the other. The term edit distance is often used to refer specifically to Levenshtein distance. The Levenshtein distance between two strings is defined as the minimum number of edits needed to transform one string into the other, with the allowable edit operations being insertion, deletion, or substitution of a single character. Mathematically, the Levenshtein distance between two strings a, b (of length |a| and |b| respectively) is given by  $lev_{a,b}(|a|, |b|)$ .



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Where,

$$lev_{a,b}(i,j) = \begin{cases} \max(i,j) & \text{if } \min(i,j) = 0, \\ lev_{a,b}(i-1,j) + 1 \\ lev_{a,b}(i,j-1) + 1 & \text{otherwise} \\ lev_{a,b}(i-1,j-1) + 1_{(a_i \neq b_j)} \end{cases}$$

where,  $1_{((a_i) \neq b_j)}$  is the indicator function equal to 0 when  $(a_i) \neq b_j$  and equal to 1 otherwise, and  $lev_{a,b}(i,j)$  is the distance between the first  $i$  characters of  $a$  and the first  $j$  characters of  $b$ . Note that the first element in the minimum corresponds to deletion (from  $a$  to  $b$ ), the second to insertion and the third to match or mismatch, depending on whether the respective symbols are the same.

## IX. CONCLUSION

This project will be useful website for inter college communication. Using data mining a several elements are included in it, such as teacher information, student information, college information, event information and project information etc. This system will be easy to define events, activities and projects related to college level. This system is very useful website for inter college communication and will fulfill all requirements of both HOD and students. Also the risk includes team changes, incomplete specification.

In future will enhance this system using Android application also by this way we will able connect all the colleges of their perspective universities.

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