# ANDROID BASED ALUMNI MANAGEMENT SYSTEM

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*Abstract* - **This project proposes a centralized system for alumni management which is institution independent and concentrates on alumni network pan organizations. The fundamental incentive of the system lies in the mentorship process in the institution as well as organization verticals. The system recognizes as an alumni not only graduates but also those individuals who are presently in the institution/organization, thereby facilitating network among the professionals and the students of the institutions from where the professional had graduated. Apart from the alumni, the institutes/organizations also enjoy a comprehensive list of benefits. The minimum age for registration for alumni has been mandated to be 15 years. Hence, the system takes into account those institutions also from where a certain individual has passed the 10th examinations. Hence, the system defines the list of alumni those institution which serve degrees for 10th, 12th, graduation, post-graduation, doctoral and working organizations. Literature comparison has been done with an existing proposal and our system exhibits better features.**

*Key Words***: Alumni system, centralized alumni system, CAMS, alumni management system, alumni network**

## INTRODUCTION

Alumni management is one of the thrust areas considered focal to institutional development, mostly in developing countries. A strong alumni system plays a vital role in reaping enormous benefits for student-student networks as well as institution-student networks. A few robust alumni systems exist in the present day but they are strictly institutional. Centralized generic alumni system void of any institutional affiliation is the call for the day. A major problem in dedicated institutional alumni systems lies in the given test case: that can be used by any member of the institution, anywhere, anytime on android devices. Since mobile device makes all the tasks, there is no pa- per work involved and it provides direct access to the participants and coordinators. This provide direct access to the user that, means the participants can clarify the event details with the coordinator irrespective of where they are at a given time. This system allows both the registered users and the new users. The project provides basic requirement of an event, which is organized by the admin. The user have to choose an event from given list of event to participate. When the admin want to add an event, the application allows the admin to fill details such as date of event, place, name, head, image and additional information. All data is stored in the database and then it is shown on the users UI.

## PROBLEM DEFINATION

The main Motive of implementing this system is for communication with alumni embodies one of many ways how university can keep tracking with its graduates. Except for communication between university and its graduates, the information system should allow communication between graduates themselves and their personal presentation in public

## ADVANTAGES OF SYSTEM

1.       Time Reducing system
2.       Easy to find alumini of collages data
3.       Reducing Manpower.
4.       Stay connected

## LITERATURE SURVEY:

1. "App for Organizing Alumni Event", Sonal Sawant 1, Pooja Jamd- hade2, Vishakha Desale3, Varsha Bodade4 In this paper, The earlier versions were based on traditional methods, it was not secured for registration purposes, and managing the user profile was not properly done. This traditional manual system had very little security i.e. anyone can take or lose the records. Therefore, we used the modern internet method so that no above problems, which was faced by traditional manual system, were in our system. This Event Management System is a project based on managing the events in the respective college. It is a college-level application; it is an android-based application. In this project, we have used flutter with respective to dart language. However, the main purpose is the college-level events; it means the events, which occur in respective college by the council. The term Event management is all about keeping a record of events which are been growing rapidly or to analyses the crowd and to deciding which kind of events should be organized such as educational regarding, career regarding, intern regarding or, fun-based. Therefore, we are developing this small-scale college level applica- tion so that any kind of event can be managed by the admin and it will create a common platform for the users where they can be able to see all the events in his particular area..

2. "Design and Development of Alumni Career Information System us- ing PHP MySQL" Mustofa Abi Hamid;Didik Aribowo
Alumni data collection at the Electrical Engineering Vocational Education Universitas Sultan Ageng Tirtayasa was still performed

manually and there were no career information media about soft skills training and development, tracer studies, and job vacancies information. Therefore, media is needed to accommodate career information and alumni data collection quickly and effectively. The web-based information system using PHP MySQL was developed and tested for feasibility as an information medium for soft skills training and develop- ment, tracer studies, job vacancies information, as well as career counseling and consulting. This study used a Modify RD as a development method and the 4 Android Based Alumni Management System waterfall method as a development model consisted of analysis, design, coding (implementation), and testing. The testing was carried out by 37 people consisted of software experts, admins, alumni, and students of Electrical En- gineering Vocational Education. The test was based on the ISO9126 standard with functionality, usability, reliability, and efficiency aspects. Based on the results, the functionality aspect had a score of 77 (very feasible), the usability aspect had a score of 87.8 (very feasible), the reliability aspect had a score of 100.

3. "Design and Implementation of Student and Alumni Web Portal" Shaimaa Q. Sabri; In this paper, The Information and Communication Technology (ICT) has witnessed great development in the recent years. Therefore, the design of Students and Alumni Web Portal (SAWP) involves the analysis of the internal and external environment of the three universities. For this purpose, SWOT technique has been used to detect the deep effect of environment factors on the strategic plan to discover the strengths, weaknesses, opportunities and threats facing the design of the proposed system. SAWP was designed using (MySQL, HTML, CSS, Java Script, jQuery, PHP, AJAX) techniques to provide robust portal sys- tem addressing two subsystems: student and alumni portal system. Testing of the SAWP was administered through two main stages: the first, to identify the students views and their preferences. The second to measure the usability of the system through using System Usability Scale (SUS) method with sub- scription of 22 potential system users. The best results of SUS testing are: the rate of overall satisfaction was high nearly 80%. While the implementation outcomes found very compatibility and reasonable in wide extents between available data and system requirements.

4. "Alumni network analysis" Martha Garrett Russell Stanford University; Alumni connections are important resources that contribute to university evaluation. Even though alumni connections represent networks, they have been mostly evaluated as tabular data (e.g. by providing average salary, employment rate, etc.). This ironically disregards all qualities of a network, from which an alumni network gets its name. It is desirable to evaluate an alumni network as a network, because networks have the potential to provide very insightful infor- mation. Evaluation of alumni networks as a network has not been feasible in the past due to data fragmentation (neither universities nor companies willing to share meaningfully significant data in its entirety). Recently the feasibility of such analysis has changed, due to new trends towards democratization of in- formation, accelerated by the Web 2.0 user-generated content phenomenon and crowd-sourcing mentality. Utilizing web-crawlers, we actively harvested data and assembled a dataset on alumni in leadership positions in technology-based industries. Moreover, we included a high proportion of startup companies, which allowed us to evaluate alumni networks with respect to entrepreneurial as well as technology involvement. We show that by analyzing alumni connections as networks, it is possible to uncover new patterns, as well as provide a new way of examining the old
.

## SYSTEM ARCHITECTURE
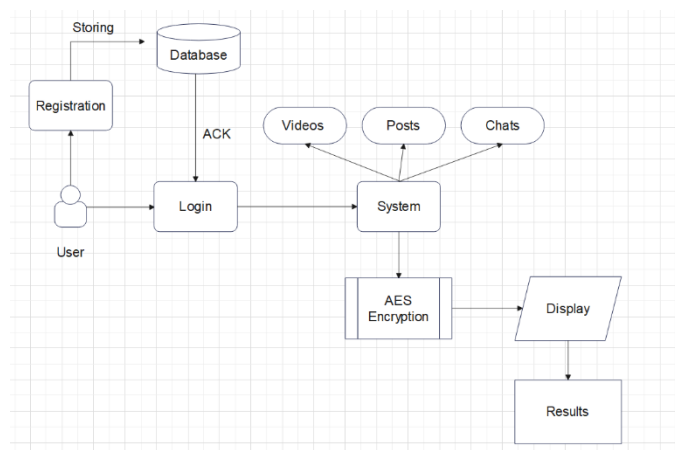


**Fig -1**: System Architecture Diagram

## ALGORITHMS

●      Hashing & Mapping: A cryptographic hash function (CHF)is a mathematical algorithm that maps data of an arbitrary size (often called the "message") to a bit array of a fixed size (the "hash value", "hash", or "message digest").

●      It is a one-way function, that is, a function for which it is practically infeasible to invert or reverse the computation. Ideally, the only way to find a message that produces a given hash is to attempt a brute-force search of possible inputs to see if they produce a match, or use a rainbow table of matched hashes. Cryptographic hash functions are a basic tool of modern cryptography.

**RESULTS**
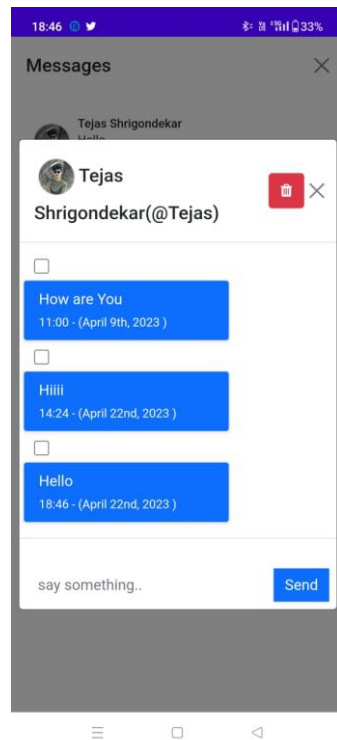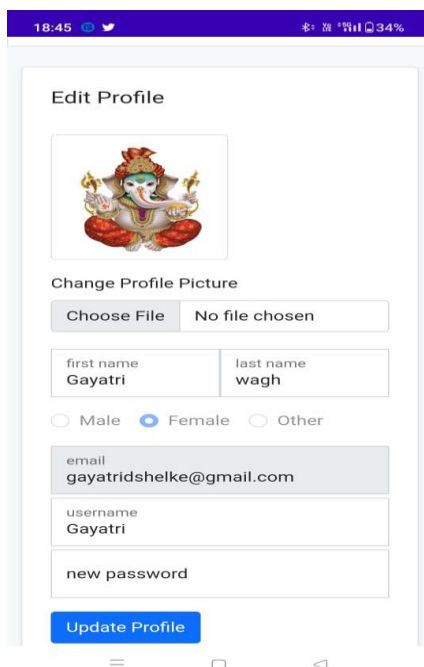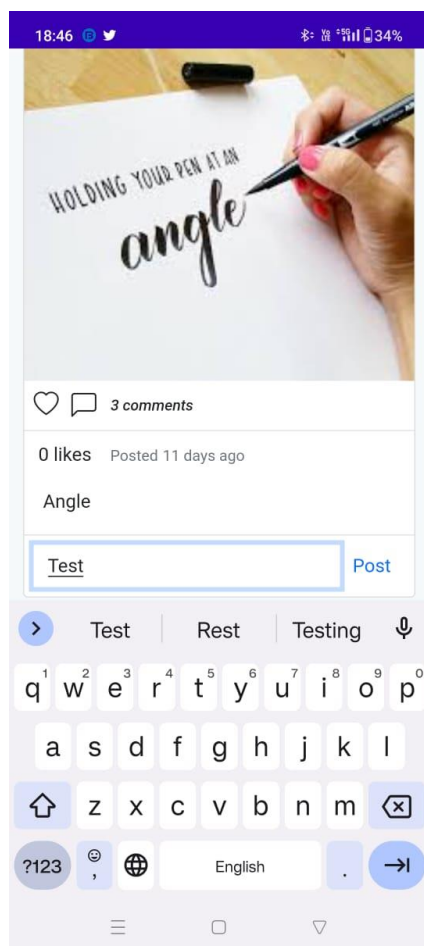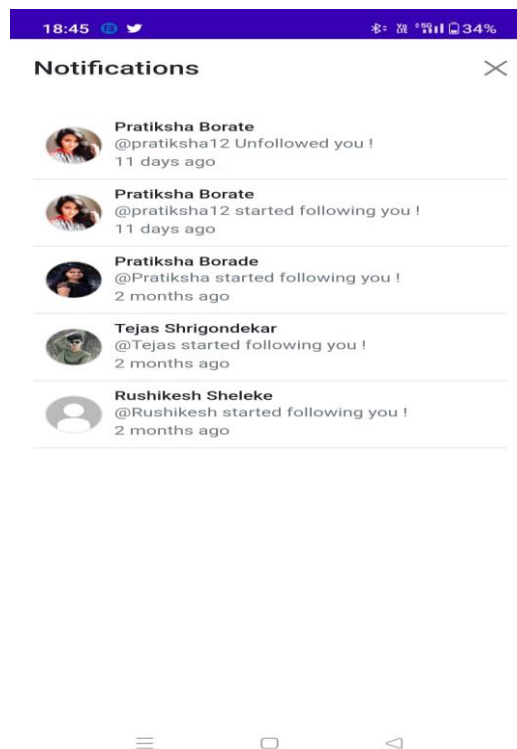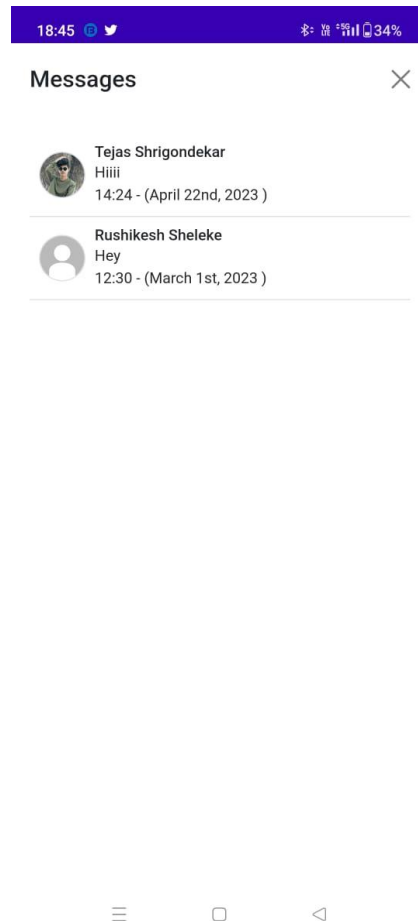
**CONCLUSION**

We can conclude that Our Alumni system solves the problem concerned with graduate's feedback to the faculty with an inquiry module. In this module the faculty can define questions with answers which active graduates can respond. This module should be used for collecting data which are not included in graduate's profiles and have high information value for the faculty. Society, and avoiding chances of fraud in transactions.

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