



INTERCOMMUNICATION INFORMATION SYSTEM USING ANDROID

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Abstract

Developing an intercommunication information system using android application is to give great facilities to the Head of the departments, to the staffs and to the students in the campus. Intercommunication information system using android provides a meaning of collaborative learning for the students. In recent years the Android Technology with web services has brought many extreme changes in the mobile application development field. Intercommunication information system using android provides a simple interface for better communication between head of the departments, staffs and students. It can be used by educational institutions and colleges to circulate messages very fast. It also spreads all the activities happening in the college.

Keywords-Android, Smart Phone, Notification

1. INTRODUCTION

Smart campus is designed to help professors and instructors to share the information to students quickly. In the recent days of globalization, technological advancement has increased noticeably in every sphere including mainstream education. These advances have introduced new communication arrangement i.e. Smart Campus. Superficial investments in technology in this decade have given rise to a worldwide explosion of information. Many educational institutions have been confused by this information disorder. They are driven by the goal to use newly found access to global data communication. This is the communication environment located within a computer mediated communication system. It

consists of asset of group communication and work spaces and facilities that are constructed in software.

Information wellspring of strange recognition strategies incorporates the activity parcels and framework logs. Specialists in the observing and resistance framework are utilized for information gathering and they remain in a similar host constantly [1]. Along these lines, there may be thousands of specialists in a huge scale framework. After they gather the information, they will send the crude information to the focal servers for investigation. In light of the examination comes about, the servers perform anomalous identification and reaction. Hence this sort of engineering will involve many system data transfer capacities [2]. This innovation came to fruition, as it were, to free individual gadgets from requiring expansive capacity or preparing limits—rather, these elements could be exchanged to the cloud. In this sense, distributed computing can be comprehended from various perspectives, from the basic plausibility of remote data stockpiling to the intricate structure that empowers whole stages of administrations as indicated by every client's particular needs [3]. These abilities allude not exclusively to the equipment and programming frameworks (normally called cloud) situated in shared data centers, additionally to applications gave as administrations by these foundations. Introduce WHYMPER, a structure utilizing Natural Language Processing (NLP) systems to distinguish sentences that portray the requirement for a given consent in an application depiction.

Their outcome shows awesome guarantee in utilizing NLP systems to connect the semantic crevice between client desires and application usefulness, which further ought to help in the hazard evaluation of versatile applications. Capacity to prevent assaults from high digital wrongdoing areas by incorporating topographical areas in the predicates used to indicate nearby and venture wide strategies [4]. The firewall arrangement in versatile frameworks will rely on the area from where a parcel starts (area particular assaults). One of the prerequisites of this venture is to find the area of an assault. We have built up a plan utilizing cell worldwide personality to find assailant's area regardless of the possibility that the aggressor is taking cover behind an intermediary [5]. In creating nations, patients may need to visit doctors in different clinics because of various specializations and aptitude. In any case, to get the correct therapeutic treatment, understanding history must be promptly accessible at the critical moment. Because of the dispersal of PHRs, there is a necessity of putting away them at a typical place, for example, cloud. Be that as it may, it has difficulties of mix and issue of the day in and day out accessibility in spots with poor foundation and availability.

The S-MAPLE social insurance incorporates scattered PHRs utilizing standard HL7 organize. It holds all medicinal data including solution, lab test reports, recommended and current pharmaceuticals from different doctor's facilities.

Diverse approved therapeutic experts get to it by simply tapping wellbeing card to their cell phone, utilizing low vitality remote correspondence interfaces, for example, NFC and Bluetooth.

The developing security issue is somewhat because of components, for example, portable terminal security openings, regular system assaults, helpless TCP conventions, et cetera. In any case, the dangerous development of portable terminals (e.g., cell phones) has quickened the utilization of applications. A huge number of cell phone applications are currently accessible from various application stores, giving clients a plenty of alternatives to pick. In any case, few of these applications have been sufficiently tried before their open discharge.

To ensure the sheltered utilization of the portable Internet, a standout amongst the best and basic arrangements is to test the security execution of versatile terminals being utilized. Customary framework and application testing techniques require rehashed operations from analyzers, and these operations increment the length of the testing time frame.

There are a few approaches to secure texting An exploration in 2011, a paper proposed a protected module for the testing which includes an extra "secure module" and applies a hash calculation to encode the way amongst handset and directing modules

2. LITERATURE SURVEY

Student information system or SIS incurs such application software designed for educational establishments to manage student data. Student information systems provide capabilities for entering student test and other assessment scores, building student schedules, tracking student attendance as well as managing many other student-related data needs within the institution university. Thus, many of these systems applied in the Philippines can be scaled to different levels of activity and can be configured by their home institutions to meet local needs. Moreover, before universities have created their own bespoke student record systems, but with growing complexity in the business of educational establishments, organizations now choose to buy customizable within the shelf software. It can be that, modern student information systems are usually server-based, with the application residing on central computer server and are being accessed by client applications at various places within and even outside the school. During the year 1990s, student information systems have been changing and are fast adopted through the presence of a web medium as a channel for accessing SIS without any hassle upon viewing student details and information. Ideally, educational institutions are under constant pressure to demonstrate both willingness and capacity to incorporate the latest developments in student information systems along with communications technology supporting various teaching ways. As asserts that SIS process within such technological sophistication does create precise knowledge edge, that such SIS application can be appealing to students and to the academic faculty as well as

the parents. Thus, believing that technology is the repository of the bulk of the information that underpins society's major enterprises and concerns and the medium of communication through which SIS interact with one another. Furthermore, SIS is transforming educational tactics understandings and school practices in relation to system information and to be able to assist better communication ground through SIS execution, as found within the heart of learning mechanisms [6]. SIS as of today is changing what people is learning upon such as with the burgeoning of the Internet, the control exercised in the past by the Philippines from various departments of education and by individual teachers over pedagogical content may have diminished significantly. Through this new informative medium, resources of varying quality and provenance on virtually diverse subject matter are now available to the students.

The amount of material available from unaccredited sources is cause of considerable concern to many educators, brought up them into a more integrated college information system such as those found and applied in the University as well as those within the grounds of integrated school wherein CIS processes of were truly understood and realized by the institutions' education system. Even within academic disciplines there has already been a shift in the importance accorded to the traditional forms of published knowledge, refereed and refined through well accepted process. In such cases there has been movement towards the more rapid electronic dissemination of findings and opinions in a less polished form, depending more on the judgment of the individual reader than on the processes of CIS effectiveness as implied for validation and verification of college resources [2]. The strong implication for education is that skills in effective online searching should occupy more value and more important place within the education curriculum at all levels wherein the adaptation of CIS is most valued for academe effectiveness. From the perspective of the individual student, CIS incorporates enormously increased potential for representing and manipulating information in range of structured education paradigms and strategic study forms as appropriate for a justifiable application of diverse learning styles [3]. Thus, pointing towards CIS within the knowledge of education services as utilized that include databases used

and whether or not students were familiar with curriculum software packages [2].

To understand the impact of a lack of mobile security, we need to understand how smartphones are most commonly being used. Smartphone usage has become so varied it would be near impossible to document every available usage of the mobile phone. As previously noted, the "Google Play" market has over 11 million apps [4]. There are two primary attack vectors for mobile phones. The first is when a mobile phone connects the internet; the second is when a mobile phone connects to a network. Because so much personal and financial data is being fielded on a phone, this is making the mobile phone environment more and more appealing to hackers. In 2010, McAfee labs reported a 46% increase in mobile phone security, and more than 55,000 new mobile malware strains are being found every day at the labs [8]. While PC's are steadily being utilized to launch mobile botnets, the primary focus of mobile malware is inclined toward stealing money and private data [5].

Existing System

- Existing system may be portal used as communication medium.
- Existing system doesn't have the facility to send message to students.
- Existing system is not having the facility for faculty to upload the documents.
- The Existing System doesn't provide the facility for the students to view the documents.

Proposed System

- Mobile application which ensures a better communication mode between students and staffs
- Registration for multiple students
- Faculties can post message to students by choosing the group
- Upload and view of documents.
- Shared documents and can be viewed by students.

3. SYSTEM ARCHITECTURE

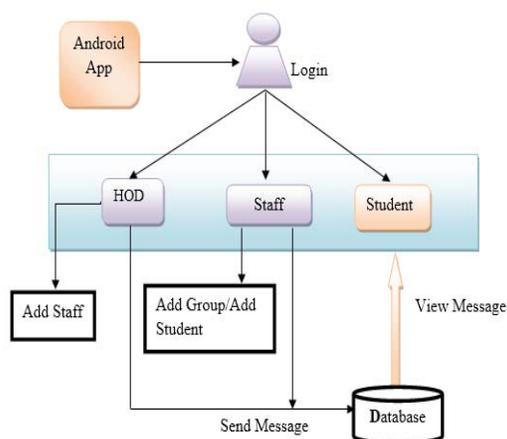


Figure. 1 Architecture Diagram

The system architecture has a smart phone with android OS, a web services, a database server and the user as its components. The user will login to the application through an android smart phone. The user-type is verified with the database server and access is given to the appropriate user. The web application also can be used to login and perform certain operations such as registration of users. The web application and the android application access data from a common Database server through the internet.

4. METHODOLOGIES

This process can be entitled as intercommunication information system using android. It uses android as front end and MySQL as back end. This process can be done through the following modules.

- Faculty
- Students
- Message sharing
- File sharing

A. Faculty

Head of department can add staff members and communicate with a message to staff members. Faculties/staff can create group and add students to group. Faculty can send message to group of students and share a file with them. Staffs can post important events, circulars and activities etc. Staffs have authority to provide an authentication to student, also interact with students via messaging.

B. Student

Students can be registered to a group and login. Students can login and view the information shared by staffs. Information such as events, important circulars and file if any can be viewed by students. Students can use the Android application with the some authentication. Students can view and enter information around the clock and from any location.

C. Message sharing

Message can be shared between head of department and staff members. They can communicate between them. Student can receive message from staffs, they can only view message from staffs.

D. File sharing

Staff can share a file to the group of students already registered. Students can only view message and file from staff.

5. FUTURE ENHANCEMENT

1. The students could get all the information of which all books and latest magazines are available in college library.
2. Students can check and view their academic result.
3. Each department can communicate with each other.
4. Communicate the colleges with one another.

A number of directions can be followed as an extension of this research. Some challenges and open questions still to be explored in the research work are as follows:

1. Identifying new sources of implicit knowledge.
2. New methods for extraction of knowledge.
3. New methods to improve the performance of educational institutions.

This project is developed for Android OS, this can be extended for other OS.

4. CONCLUSION

This application in automating the existing manual system. All the HOD, faculty, student can get the required information without delay. This is a paperless work. It can be monitored and controlled remotely. It reduces the man power required. It provides accurate

information always. All years together gathered information can be saved and can be accessed at any time. The data which is stored in the repository helps in taking intelligent decisions by the management. This system is essential in the colleges.

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