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Android Based College Activities and Notification System

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ABSTRACT: Smart College Management system is an android based application which is the new technical way to manage all department related jobs. Smart Collage management system is helpful for students as well as the colleges. In the existing system all the activities are done manually. It is very costly and time consuming. Android Based College Activities and Notification System is an application that connects the internal sources of organization.

KEYWORDS: Android, flexibility,notification, college.

I. INTRODUCTION

The current system uses lots of pen, paper work and also wastage of papers. Generally college uses notice board to display upcoming events and also the academic related information, so in order to overcome this existing system, here we developed an Android Application. This application handles various academic and nonacademic activities of a college. The system can be accessed by every student and faculties of the institution through mobile devices with the aid of username and password. College Staff uploads learning documents and college notifications through a secure, online interface using android devices. The system plans for student user interface, allowing students to access provided by the credentials. All data is stored securely on SQL servers managed by the college Administrator. The system decreases paperwork and time needed to access student records.

Previously, college relied heavily on paper records for this initiative which had its own disadvantages. This system provides a simple interface for the maintenance of student information. It can be used by educational institutes or colleges to maintain the records of students easily. Achieving this objective is difficult using a manual system as the information are scattered, can be redundant and collecting relevant information may be very time consuming. Our proposed system ensures to overcome these limitations. This application focuses on presenting information in an easy and intelligible manner which provides facilities like circular notifications, thus reducing paper work and automating the record generation process in an educational institution. There is an increasing trend for higher education institutions to be expected to monitor student records. It also provides the information about the events happening in the campus and also other Co-curricular activities of the organization.

II. EXISTING AND PROPOSED SYSTEM

In the existing college data management system, there are plenty of activities which are held manually. All these are paper based which are expensive and time consuming. Various activities are handled by various departments. This leads to major problem interlinking data and avoiding duplicates. Hence this becomes very hard and prolonged process for students to access information from management.

Disadvantages:

- No updated information available.
- Notification alerts are not available.
- Checking notification is difficult.
- Communication is not easy.



Proposed system

The proposed system introduces the new mobile application system which is to seek the updated information about the events in the college in a personalized way, at any time and any location. This application is to enable students and users to find and access all information that is relevant to college campus. All the students need is a Smartphone which enables the execution of android application.

Advantages:

- Updated information is available.
- Communication with lectures is easy.

III. METHODOLOGY

The Agile methodology is the methodology adopted in the proposed system as it is incremental and iterative mobile application development, where the app development process cycle is divided into sub-modules. Each sub module is assigned to individual team and is subjected to complete development process, starting from designing to development of application, testing and delivery. The agile approach must therefore possess scrum meetings at which members discuss the growth of completed works. During the free kick sessions, the colleagues give recommendations for change so each individual may have the better answer to the issue.

IV. TECHNICAL FEATURES OF PROPOSED SYSTEM

Faster development: In agile methodology, the entire application is divided into smaller modules which are considered as independent sub-projects. These sub-projects will be handled by different teams individually, with no dependencies on each other.

Better Quality: Unlike the traditional app development, agile does not test the app at the end of development phase. It focuses on testing every single module at the primitive levels so that it helps developers to inspect the app elements at every stage of the development process, eventually helping in delivering a higher quality of services.

Customization: Agile app development approach also provides developers an opportunity to customize their development process. No protocols to create an app in a particular way.

Earlier Market Reach: By dividing the project into sub modules, it encourages the team to deliver every module on time, hence deadlines are not possible. The outcome of the project is designed and delivered on-time or even earlier.

V. SYSTEM ARCHITECTURE

The overall system design consists of following modules:

- (a) **User Module:** In this module we are authenticating the users by providing username and password. If username and password is valid then they will be taken to their static screens. When they get matched with each other, system checks their status and transfer the control to respective user-interface.
- (b) **Admin Module:** This module is designed for staff, which uses smart phones to upload college notifications like upcoming events held inside and outside the college. The entered admin details are validated. Only after successful authentication the operations. If username and password is not valid then he/she cannot enter to next static screen.
- (c) **Notification Module:** This module allows admin to update students about any college related information through notifications. The students will get the push notifications once the admin updates the information.
- (d) **Database module:** The system uses MYSQL as its database because of its simplicity and flexibility. This module store every single information about students, faculty and model their data on specified operations. These operations can be storing data or can be authentication credentials.

VI. LITERATURE SURVEY

Smartphones are used by billions of people that means the applications of the smartphone is increasing, it is out of control for applications marketplaces to completely validate if an application is malicious or legitimate. Therefore, it is up to users to choose for themselves whether an application is safe to use or not. [1]

Introduced the Android platform and the features of Android applications, gave a detailed description of Android application framework from the prospective of developers. A simple music player is provided as instance to illustrate the basic working processes of Android application components. [2]

In existing college data management systems there are plenty of activities which are handled manually. Various activities are handled by various departments. This leads to major problem in interlinking data and avoiding duplicates. Hence this becomes very hard and prolonged process for students to access information from management.[3]

An application for the android base operating system for an institute which will provide the detail and accurate information about an institute. This application is simple yet powerful in which it connects all the departments of an institute like Administration, Account, Students section, student and many more.[4]

Android OS Power Manager provides programming interface routines called wake locks for controlling the activation state of devices on a mobile system. It is an appropriate placement of wake lock acquire and release functions in the application that can make a significant difference to the energy consumption.[5]

System calls generated by the Linux kernel are collected, processed, and provided to the neural network model that will be used to predict whether the analyzed applications are malware or good ware. This paper describes how Android users typically install applications from large remote repositories, which provides ample opportunities for malicious newcomers. Hence this model is built and refined using an APK database varied between good ware and malware.[6]

Automated testing of Android apps is essential for app users, app developers, and market maintainer communities alike. The capability of model evolution significantly improves model precision, and thus dramatically enhances the testing effectiveness compared to existing approaches. Fully automated model based approach for effective testing of Android apps.[7]

Nowadays, many universities have taken advantage of e-learning in the form of a website in the lecturing. Both students and faculties who want to access the e-learning should find for a computer or laptop. However the physical size of a computer, laptop or something like that is such a large and not convenience to carry out.[8]

Project aims at digitizing and thus alleviating the amount of work that is put in managing all the records by a college or university. Along with this, it further succors in maintaining and updating student's data with minimal human efforts. This system thereby reduces data redundancy and prevent data inconsistency.[9]

Developing an Online Intranet College Management System that is of importance to either an educational institution or a college. The system is an Intranet based application that can be accessed throughout the institution or a specified department. This system may be used for monitoring attendance for the college.[10]

VII. CONCLUSION

In the modern world, the use of computers and mobile phones is becoming rampant. As a result, we need to shift from traditional notice board to E-notice board. The developed android application called Android Application for Activities and Notifications gathering in College is to provide college related notices directly on your android devices. This application presents a simple, convenient and efficient online notification system, thereby it reduces the effort of the students and instructor. This application is a solution to all the problems related to paper based traditional notices.



REFERENCES

- [1] Shipra Joshi, Rahul Sharma, "A Review of Android Security System", International Journal of Scientific Research & Engineering Trends Mar-Apr-2019.
- [2] Jianye Liu, Jiankun Yu, "Research on Development of Android Applications" International Conference on Intelligent Networks and Intelligent Systems 2019.
- [3] Samkeet Jain, Radhika Garg, Vaibhavi Krishna Bhosle, Lilashah, " Smart university- student information management system", International Journal of Scientific Research & Engineering Trends Mar-Apr-2019.
- [4] Anjaneyulu G. S. G. N, Gayathri M and Gopinath, "Analysis of advanced issues in mobile security in android operating system", International Conference on Innovative Mechanisms for Industry Applications, 2017.
- [5] Faisal Alam, Preeti Ranjan Panda, Nikhil Tripathi and Namita Sharma, "Energy optimization in Android applications through wakelock placement", Design, Automation & Test in Europe Conference & Exhibition (DATE), Dresden, Germany, 2017.
- [6] Tianxiao Gu, Chengnian Sun, Xiaoxing Ma, Chun Cao, Chang Xu, Yuan Yao, "Practical GUI Testing of Android Applications Via Model Abstraction and Refinement", IEEE International Conference on Software Engineering, Canada.
- [7] P. Kong, J. Gao, K. Liu, T. F. Bissyand and J. Klein, "Automated Testing of Android Apps," IEEE Transactions on Reliability, March 2019.
- [8] D. He, L. Li, L. Wang, H. Zheng, G. Li and J. Xue, "Understanding and Detecting Evolution-Induced Compatibility Issues in Android Apps", IEEE International Conference on Automated Software Engineering (ASE), Montpellier, France, 2018.
- [9] V. Holotescu, D. Andone and R. VasIU, "Developing hybrid mobile applications for learning", International Symposium on Electronics and Telecommunications, Timisoara, 2018.
- [10] Lalit Mohan Joshi, "A Research Paper on College Management System", International Journal of Computer Applications, 2016.



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