IJARSCT



International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

Volume 3, Issue 2, March 2023

Design and Development of Education Management System

Anand Mishra¹, Ashutosh Kumar², Rushikesh Chidre³, Sankalp Mahavir Pande⁴, Prof. D. G. Jadhav⁵

Students, Department of Information Technology^{1,2,3,4}
Professor, Department of Information Technology⁵
Sinhgad College of Engineering, Pune, Maharashtra, India

Abstract: While pursuing any graduation Degrees or in school student have difficulty controlling their time and faculty work parallelly. This certainty affects work productivity in offices. With the establishment of the Education Management system application. The purpose of making this application is to assist users in managing their college work or school work all at once in an application. The research method used in data collection is literature study and indirect observation. The application development method uses the system development life cycle method with the waterfall model. This model uses a systematic and sequential approach that starts at the level of requirement to the level of maintenance. This application is based on Android Developed with the Java programming / Kotlin language. The result is an Education Management system application that can be used for remainder or also bring a Digitalization which also reduce a crowd or keeping a store of documents of college students or school students.

Keywords: Education System

I. INTRODUCTION

Working through mail can be suitable, especially for those who live in faraway places. Still, this method is time consuming and difficult because the taking and sending an information manually. Existing studies have pointed out that remote applications will decrease student trouble and helps to interact smoothly. As the number of service-oriented applications is increasing, the importance of dependability of them increases, too. To make this a reality the application should be accessible to the students or faculty member without making them stand in a long queue outside the department or office. Over the years many systems and ideas have been implemented and imitated to achieve a possible application for Education. The main goal of this idea proposed is to encouragestudent to make aware to digitalization wherever they are, whichever smartphone they are using to reduce the time consumption and make it more flexible and possible for the people.

II. LITERATURE SURVEY

2.1 Existing Android Applications

A. Money Diary Application Models on Android

In terms of smartphone deployment, Android is at the first level with the most market share. This is likely to have a direct or indirect impact on the number of applications developed with Android-based to facilitate human life. Online market applications are becoming one of the applications that are mushrooming and at the same time are causes of financial control are not well controlled. So basically Previous android application working on the basis of Financial Exchange.

B. College Management System

Recent days, there is a huge necessity needed for automated system which includes their role in academic infrastructures like schools & colleges that needs to change the role of their manual system to mobile computing systems. The Computer Technology changes uses the databases & application of the Information System of students, which helps to make their documents and records as centralized. Android play a vital role. It leads to the inventiveness to the processing of traditional – transactional systems. For example, attendance management in the existing organization is done on paper sheets. The whole session attendance is stored in either register or record books and at the

Copyright to IJARSCT DOI: 10.48175/IJARSCT-8839 367
www.ijarsct.co.in

IJARSCT



International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

Volume 3, Issue 2, March 2023

term end reports are generated. We are not able to spawn report in the middle of the session or as per the requirement because it takes more time in scheming. It is a very time intensive process, also provide a platform for college students to develop better interaction with students.

C. Mobile based Student-Centered Learning System

Information technologies and wireless communications have made a very vibrant change in the global educational scenarios. Higher education in Science and Engineering are the process of knowledge sharing among the professors and the young students. Educational system involves learning, training, coaching and teaching. In digital learning process, electronic learning (e-learning) is the conventional way to gather engineering knowledge and technical skills through internet in form of digital library sources such as, e- books, visual aids, text files, audio files and video presentations. Mobile learning (m-learning), is a latest idea in the academic learning steps which shows the capability of information sharing without considering the physical site of learning process. Smart mobile devices, tablet computers and PDA's (Personal Digital Assistants) are the hand-held devices can be used for smart learning. The authors in surveyed with 63 undergraduate and graduate students to evaluate the applications of mobile learning from the student side that produced positive reports. Basically, it states that innovative teaching method and effective learning.

III. PROPOSAL WORK

Android and MySQL project on Education Management System is an android based project and we have developed this project in Android Studio, we can manage College faculty, Books, Students, Branch, Issues from this project. The main objective to develop Android project on Education Management System is to provide android app on College Management to students, from where user can use it from his mobile device. Android project on Education Management System is compatible with all android mobiles. So user can install and configure it on their mobile devices. If you have any specific requirements then We can develop major android projects on College Management System according to requirements.

In this project, there are various type of modules available to manage College faculty, Books ,Notes, Issues etc. We can also generate reports for Books, College faculty, Branch. Here the College faculty(admin) module manage all the operations of College facultys, Books module can manage Books, Students module is normally developed for managing Students, Branch module manages Branch operations, Issues module has been implemented to manage Issues.

Also if you are looking by DBMS views on Education Management System then you can develop it in Android and MYSOL. We have implemented advance search feature for searching records on various criteria for Books, College faculty, Issues also admin can perform Create, read, update and delete (CRUD) operations on Students, Branch, Library. In this project all the modules like College faculty, Branch, Books are tightly coupled and we can track the informations easily.

IV. IMPLEMENTATION

4.1 Background

In this project, there are various type of modules available to manage College faculty, Books ,Notes, Issues etc. We can also generate reports for Books, College faculty, Branch, Issues. Here the College faculty(admin) module manage all the operations of College faculties, Books module can manage Books, Students module is normally developed for managing Students, Branch module manages Branch operations, Issues module has been implemented to manage Issues.

V. DESIGN OF THE EMS

The system consists of three phases: -

- 1. College Faculty,
- 2. Branche,
- 3. Books,
- 4. Notes,

Copyright to IJARSCT www.ijarsct.co.in

DOI: 10.48175/IJARSCT-8839

IJARSCT



International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

Volume 3, Issue 2, March 2023

VI. CONCLUSION

Existing College management system is not perfect, and it does not guarantee perfectly secure work. However, it does have the potential to deliver much more security than other methods. When carried out competently, using a protocol that properly takes advantage of the power of EMS, an application can be carried out on the internet with the results published and available to everyone in a secure, private way. Our research has led to the conclusion that EMS is a clearly superior method by which to carry out whole Education Management; its myriad of PROS outweighs its relative drawbacks. As with any modern technology it is still being developed and our yet-evolving protocol and implementation have and will continue to contribute to this.

REFERENCES

- [1]. https://sci-hub.se/https://ieeexplore.ieee.org/document/9211266--- IEEE paper
- [2]. Sci-Hub | A New Android Application (Breeze) for College Management System. 2019 3rd International Conference on Computing Methodologies and Communication (ICCMC) | 10.1109/ICCMC.2019.8819787 IEEPaper.
- [3]. Sci-Hub | EEapp: An Effectual Application for Mobile based Student Centered Learning System. 2018 4th International Conference on Computing Communication and Automation (ICCCA) | 10.1109/CCAA.2018.8777733--

DOI: 10.48175/IJARSCT-8839

Copyright to IJARSCT www.ijarsct.co.in