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Prayog B.E. Android Application-An E-Learning Educational System

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Abstract: ***Utilization of online E-learning systems would benefit from a structured approach to design, implementation and student assessment. Prayog BE Application lies within these three principle activities. Efficient execution of these three major activities necessitates the use of design and educational models to achieve the time efficiency as well as high academic quality. The Prayog BE Application for developed in java which mainly focuses on basic operations in a lab like view practical by using videos, view viva questions and significance of practicals. By this application student can revise theory and practicals before exam. Client will be the student who will be interacting with the application through their mobile phones. The system is an Android Application written for smart phones, designed to help users to maintain and organize Prayog BE Application. It will allow fast transaction flow and will make easy to handle application using the available applications.***
Keywords: Application, Videos, Practical's, Android, E-learning etc.

I. INTRODUCTION

Day to day advancement in technology is bringing us easier ways to learn, study and internet is playing a vicious roll in it. Developing app for android is on the rise now days. With more and more smart phones flooding the market, android is the buzz word everywhere. Educational Technology is constantly evolving and growing, and this progression will continually offer new and interesting advances in our learning environment. Traditional E-learning system developed for laptop and desktop computers were based on stand-alone software application or through website and lack the ability to provide a comprehensive ubiquitous learning environment. A ubiquitous learning environment based on early days mobile phones lack the processing power of notebooks or desktop computers, low data transfer speed and capacity. Prayog B.E. Android Application is the E-education application. This application allows you to manage and learn E- practical on Android device. The main objective of this proposed system is to, view practical journal and practical video through this Application. User can understand theory by using the practical approach, proposed by this application in easy and better way. Prayog B.E. application will useful to understand concept using practical approach. By this application student can revise theory and practical before examination. Various sections are introduce in an android application and practically divided into two part first activity basic practical and another one is software base practical performed in laboratories. The technology can be used to refer to a collection of techniques. In this context, it is the current state of humanity's knowledge of how to combine resources to produce desired products, to solve problems, fulfil need or satisfy wants; it includes technical methods, processes, techniques, tools and row material. The latest technological advancement by product that promotes the importance of practical videos and pictures more than texts and descriptions. Utilization of online educational systems would benefit from a structured approach to design, implementation and student assessment.

Some student can understand theory based on practical approach in better way .If user want to learn and perform practical again and again they can easily learn practical through the *Prayog* B.E. android application. *Prayog* B.E. Android Application is useful to understand concept of practical. Maintenance all experiment videos, significance without any hazels and also provide easy interface to students and faculty. *Prayog* B.E android application is the updated version of previous android application which is available in Play Store. App will provide a student a greater level of understanding a practical and will be more confident over studies. Student can revise theory and practical before examination. From this way student will make more confidence regarding study. *Prayog* B.E. application open access to all.

In Android Application for Library Automation, usage the digital objects include visual material, electronic media formats and these electronic content stored locally, or accessed remotely via computer networks[1]. The aims Educational Android App for student is, only focused on the theory and actions involved in the real world. This application use the video lesson, video made by student itself [2]. In Android mobile augmented reality app base on different learning theories allows users to experience the real world with virtual objects superimposed upon or composited with the real world. The use of augmented reality will further enhance the outcome of studies and makes it more interesting [3]. In Use of android in education system it is form of digital learning which can

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be applied for learning and teaching purposes where some educational experts view it as subset of e-learning delivered onto android mobile phone [4].

The paper is organised as, section II contain Literature Review, section III contain Proposed system, section IV consist results, section V consist of Conclusion and future work, section VI consist of references.

II. LITERATURE REVIEW

A. In Android Application for Library Automation literature usage a virtual private network (VPN) for library that will exist only between college library and the students studying in the same college. The android application for library automation mainly focuses on the basic operation in a library like viewing notes, view assignments and view books. Advantage is to use of online library management system has increased drastically since the rise of the cloud technology. So in our system we are implementing this android application for the internal college [1].

B. In Educational Android App for student literature usage Engaging video lesson, Designed by India's Best Teachers, these unique video class modules will give you complete understanding of even the most complicated concepts in such a simple way that user will fall in love with learning. All class courses, ePathshala, CBSEguide, Meritational study. In this application all videos are made by student itself. Student can easily communicate through this android application because it is college private network [2]

C. In Android mobile augmented reality app base on different learning theories literature usage to advancements in the mobile technology and the presence of strong mobile platforms, it is now possible to use the revolutionizing augmented reality technology in mobiles. This research work is based on the understanding of different type of learning theories, concept of mobile learning and mobile augmented reality and discusses how applications using this advance technologies [3].

D. In Use of android in education system android mobile within and without the classroom makes it easier for students and teachers to collaborate. It provides access to modern society a massive amount of education and learning resources. Technologies are use for students such as internet, mobile, Pc. A ubiquitous learning environment is any setting in which students can become totally immersed in the learning process [4].

III. PROPOSED SYSTEM

The Work of admin module to upload the practical videos on YouTube and practical journal which is in pdf format. For uploading videos on YouTube admin have to create YouTube channel.

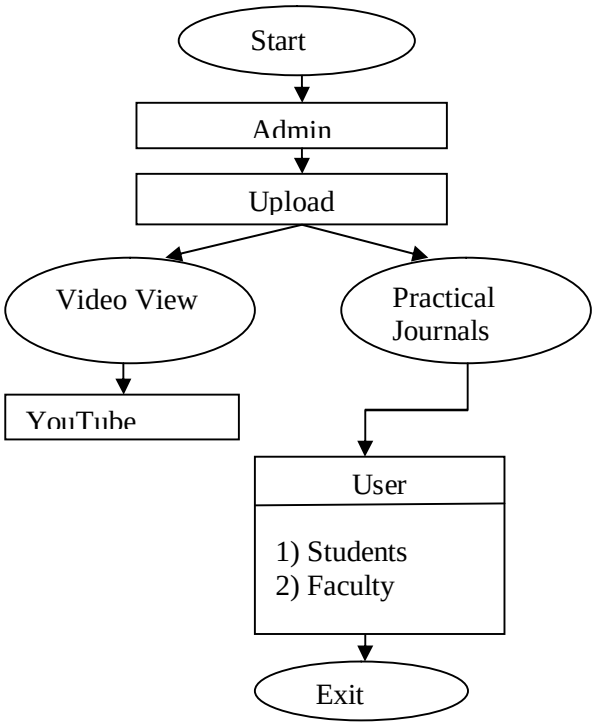

Fig 3.1: Flow diagram for Admin.

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User installs the app from the play store, after initialization app provides two branches that are IT (Information Technology) and CSE (Computer Science and Engineering). In the android application provide different practical video and practical journals as per the practical. Videos are in MP4 format and journals in PDF format.

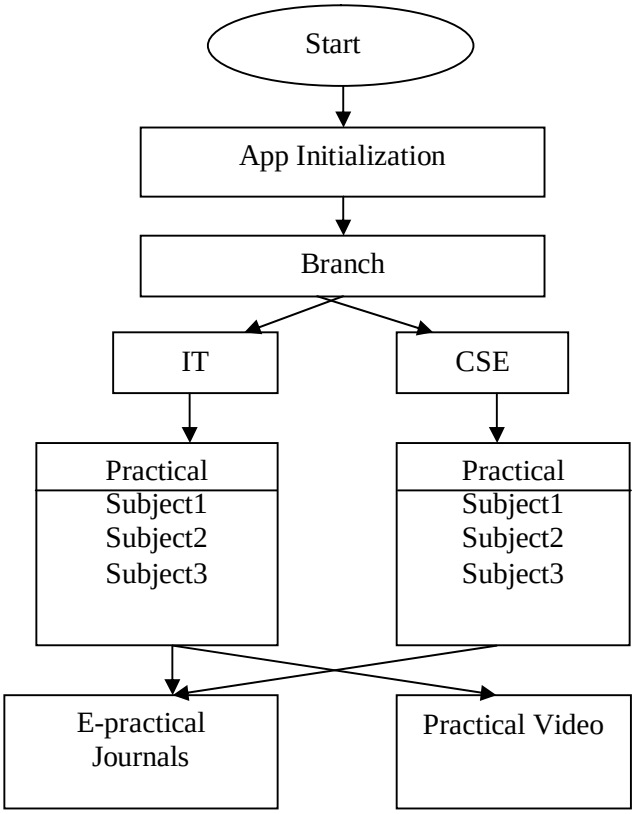
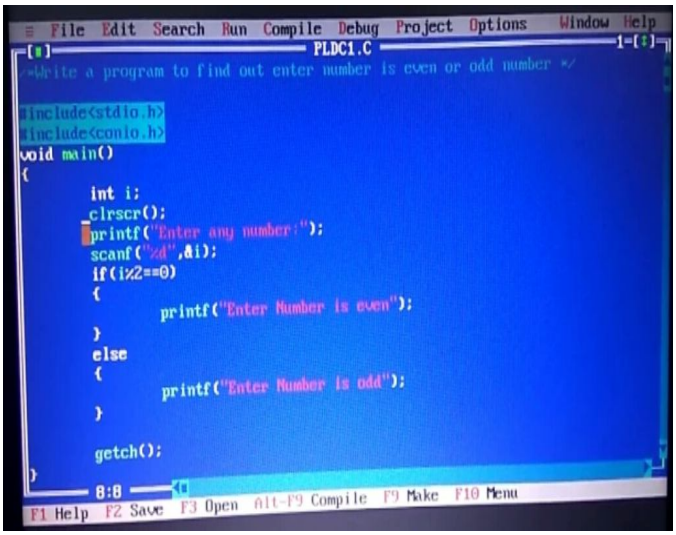


Fig 3.2: Flow diagram for User

IV. RESULT AND DISCUSSION

A. Module I: Video Capturing



Practical related videos captured by camera to study the all practical. In this application all videos are made by student itself. Student can easily communicate through this android application because it is college private network.

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B. -II: App Creation

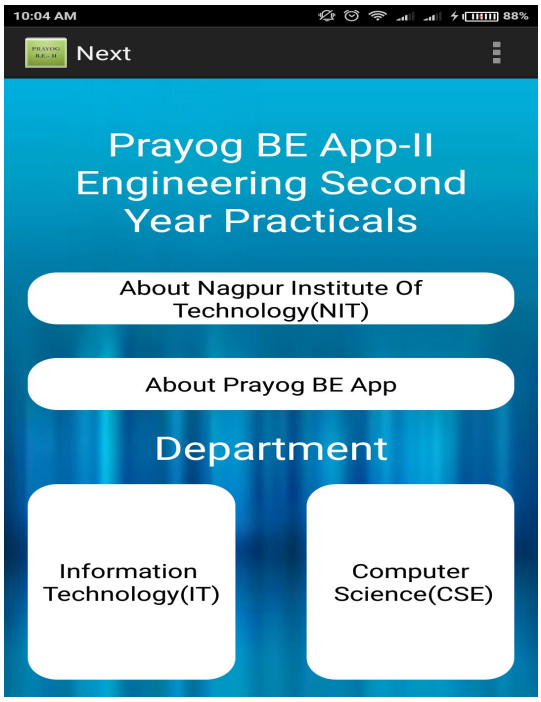

Fig 4.1: Home Page

In the android application provide the four on click button i.e. About Nagpur Institute of Technology which gives information about NIT College, About *Prayog* B.E. App which provides the information about project, Information Technology provide Number of practical and Computer Science (CSE) provide the practical.

Fig 4.2: Practical page of IT department

It is practical page for department, which provide three practical. In which use image button for performing on click event. When user click the practical button the new event will perform then user can view the practical videos and journals.

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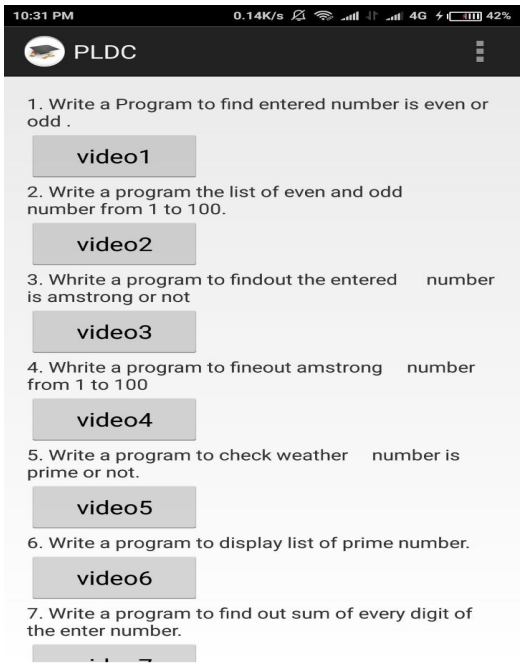

Fig 4.3: PLDC practical page

In android application provide video button and journals in PDF format for practical. Which helpful for every user to view the practical videos and journals through the android application.

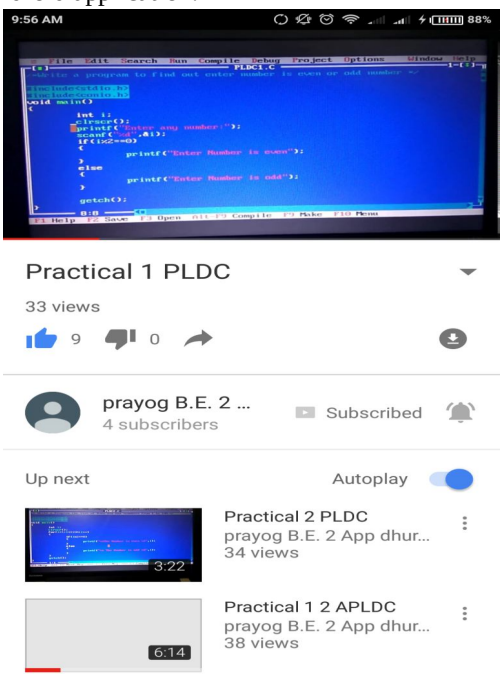

Fig 4.4: video on YouTube

This YouTube page use to show the all practical videos. Online video linking with YouTube are provided on *Prayog* B.E. android application. Which helpful for every user to view the practical videos and journals through the android application.

V. CONCLUSION AND FUTURE SCOPE

Process made in smart phone to reduce human efforts and to increase the efficiency. The maintenance of the records is made efficient, as all journal through which data can be retrieved easily. Through the *Prayog* application android user can view journals

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and practical videos, significance and viva questions. Hence student can easily learn through this android application as well as student can revise theory and practical before exam. We wish our Prayog BE application will go a long way by satisfying user's requirements. This project will not only improve the efficiency but will also reduce human stress there by indirectly improving human recourses. The Prayog BE Application saves users estimable time by making complete procedure online.

Future Scope is this app can be upgraded for third year and fourth year student. Can be providing different exercise related to practical and can be provided notes.

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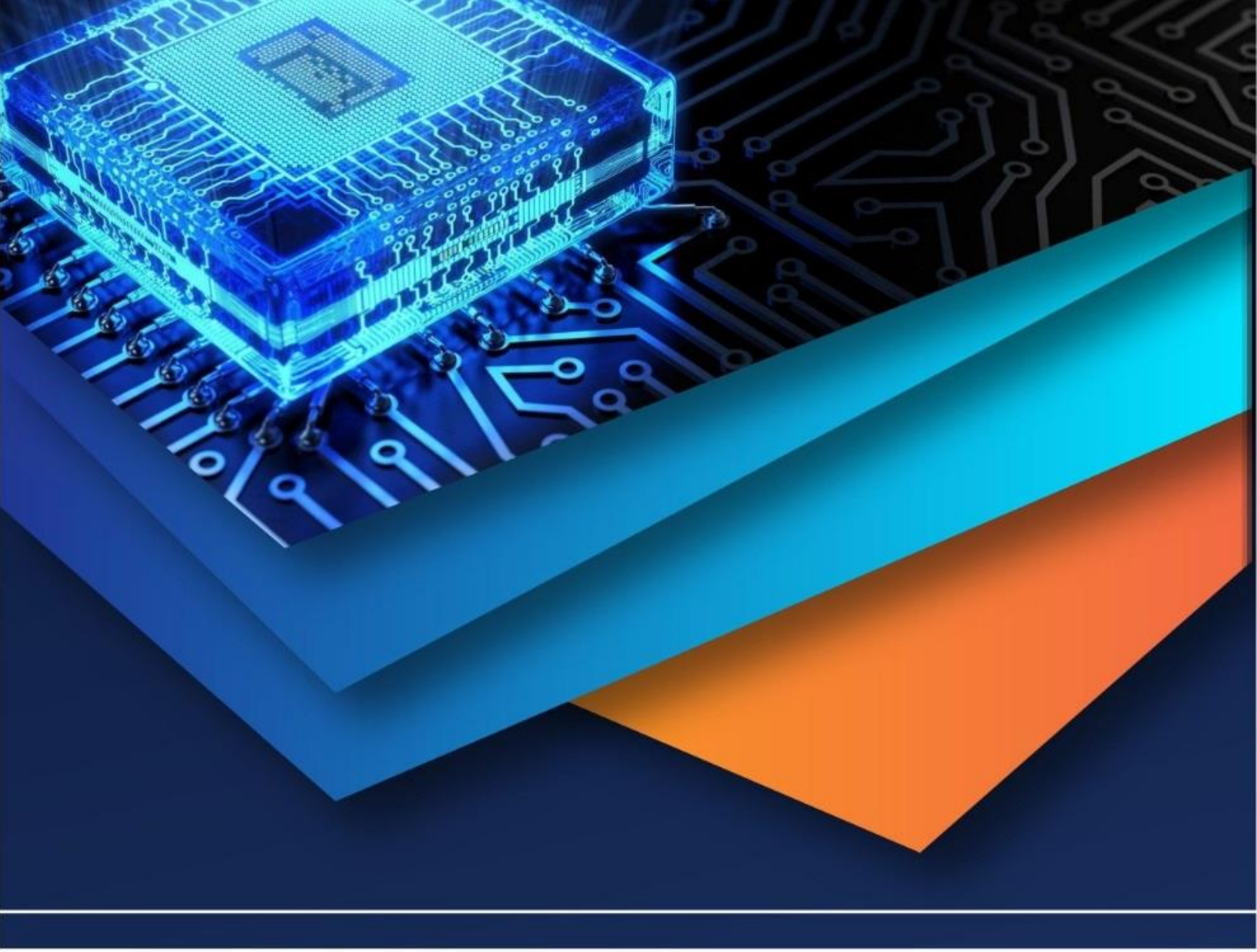

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