

SUBJECT EXPERT FOR HIGHER STANDARDS STUDENT COMMUNITY

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***Abstract*— This Project is mainly based on the domain (Mobile Application Development). It is one of the most essential applications for students. Most of the students don't get proper study materials. Hence this project is very important to both students and staffs. We are living in a modernized world, where smart phones play a vital role in our daily life. Students also find learning with gadgets more convenient and easily accessible. This project is an application that will be more efficient and appropriate for E-Learning. Every student can access their study material anytime and anywhere. Our application is a best remedy to reduce the stress faced by students during studies. This will help students to find their needed materials in time without searching in net or books or any other resources as all the answers for every subjects will be given in a detailed manner so students will find it easier studying in this application. This project consists of study materials based on 12th standard Tamil Nadu state board syllabus. The main objective of this project is to reduce the tedious process of searching for materials online. Hence our project will be an eye opener for every student to access materials quickly and score high grades and come up with flying colors.**

***Index Terms*—Android, smart phone, study material, etc.**

I. INTRODUCTION

Mobile devices play a vital role in one's life. It have become a way of life for students especially in higher education. Computers are replaced by compact smart phones that can fit into pocket and can be carried anywhere. This paved a way to its rapid progress in mobile technology has created a new area which is known as Mobile Learning. Mobile Learning is the next level of learning and teaching process.

Also on the other hand the books which may be the reference book and the other publications are costly and difficult to prepare for examination as well as teaching point of view. Also students who can't afford the reference books can also be benefited by this application. With development of this

Android Applications the student would prefer use of mobile devices with educational tool. This Application helps to get more knowledge on their subject and develop their skills.

Smart phones are based on operating systems like IOS and Android. To design proposed project, smart phones with Android operating system is chosen because penetration rate of Android OS is 70 percent. It is a kind of open source and freeware. The application is compatible with all Android versions ranging from Gingerbread 2.0 to Oreo 8.0.

II. PROJECT DESCRIPTION

In the proposed application, the student can access notes so that would be easy for learning in exam point of view. Each user can make use of the previous year question papers, Frequently Asked Questions also practice through the lab exercises given in a efficient algorithm manner. The major role of admin is to organize the details of the subject and ensure the data consistency. The feature of this application can be seen by executing various modules of the project. The various functions that can be performed by this application are as follows:

Student:

- Students can easily use the app.
- Access Notes in the form of .pdf, .docx, etc.
- View the notes they have starred on their starred notes section.
- Easily download .pdf, .docx, etc documents.

Admin:

- Periodical updation of information about the subject.
- Maintenance of data and it's consistency.

This application implements the concept of e-learning. This concept will ease the user in searching for the notes they need as this sorting would be done categories wise. Also using the same, the user would also find it easy to clarify their doubts and understand well.

III. LITERATURE SURVEY

Android Based Study Materials and Notes Management System

Nowadays, mobile devices have become a way of life for students especially in higher education. Computers are replaced by compact smart phones that can fit into pocket and can be carried anywhere. The rapid progress in mobile technology has created a new area which is known as Mobile Learning. Mobile Learning is the next level of learning and teaching process. Also on the other hand the books which may be the reference book and the other publications are costly and difficult to prepare for examination as well as teaching point of view. Also students who can't afford the reference books can also be benefitted by this application.

With development of this Android Applications the student would prefer use of mobile devices with educational tool. Also by developing this app the students and professors would get connected to each other across the globe and can be helpful to each other in context for different research and development related work. It is open source and freeware. An Education system in India has become so advanced in last decade due to the development in the technology. E-learning, video conferencing are some of the examples of modern educational system. These applications help the institute to move forward quickly, fulfill their vision and accomplish their goals. The main idea of this project is to make available the notes of different professors from various institutes which would be made available by their students registered on the android app. (Jacob P.Ukelson , November 2015).

Android Based E-Learning Application

Mobile learning as an intersection of Mobile Computing and E-Learning providing resources that can be accessed anywhere has capability in an excellent searching system, rich interaction and full support towards an effective Learning and performance based assessment. In addition, it has a characteristic of not being dependent on time and space. The application of mobile learning can be used through the android operating system that is chosen in consideration to that Android has been dominating the Smartphone market and is an open-source operating system that is easily developed. Class-E is platform we will be presenting which will help people to choose digital learning over

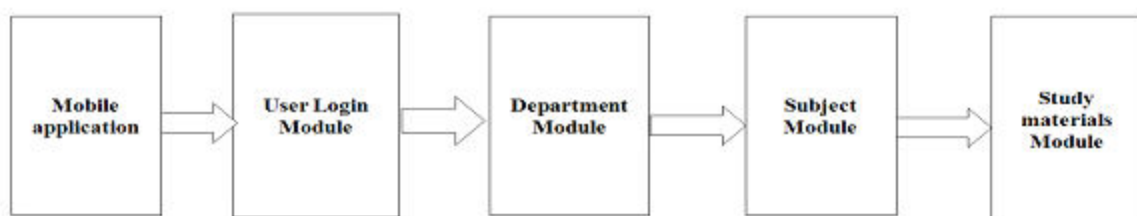
traditional learning methods. This application will have two sides of Interface: admin that will using the web-based application on the desktop and students that will use android application. In this application, test and tutorials based on various subjects and topics are given by the admin to the students and the result of the individual student is displayed.

In the proposed system it presents the E-learning base application. Input to the system will be subject name, topic name of the respective subject and difficulty level ,all this input data will entered by user through mobile app. Respected data will be stored on back end which is admin side on cloud. On back end admin will manage all databases which contain student data, subject data and Test/Score data. Admin side is dynamic enough to run CRUD operations on database. The credentials of students will be stored in database using MD5encryption so that admin cannot miss use the personal information. On front end, users will have to download app from google play store and then have to register to use its features. User has freedom to choose whichever subject they want if it contain in database. But the dynamicity is provided in app, if user wants to request a subject currently not present in database. The result of test given by user is provided right after test get submitted. (Joshi Kaustubh , March 2017)

III. EXISTING SYSTEM

- To access these apps require payment.
- Customer reviews to these apps implies that some of the information provided by them is false.
- Provided information is burdensome.
- Registration process is tedious.

IV. SYSTEM ARCHITECTURE



The above system architecture shows the sequential execution of the proposed system. This figure indicates how the actions are performed in the application.

V. FUTURE SCOPE

Using this app the students would be able to access a variety of technical and reference books at no cost. The notes for only specific Engineering departments would be included for now. In future, we would be able to add other departments also. The feature of coaching videos and tutorials can also be added. As the through this app the professor and student would be able to communicate and have group discussion which may lead to innovative ideas and projects. So in that case the IEEE papers from various journals can also be included.

VI. RESULT

Hence our project is designed in such a way it provides all the vital notes needed by the students during the examination. So as to reduce their tension and helps scoring high grades.

VII. Acknowledgment

Our sincere thanks to the staff who helps us for the paper about the project.

VIII. CONCLUSION

Many students have to search a lot of books and visit different libraries for research purpose. This type of search takes a lot of time and money. It is mainly developed based on the twelfth standard syllabus and useful for the students who is willing to learn more outside of the book. It enables you to carry basic star office and programming tutorial in your android. It enables one to understand the concept thoroughly without by hearting it. It contains 20+ programs and many previous year question papers. This will definitely help you for preparing the technical rounds in interviews, tests and in many more ways.

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