Android Based Study Materials and Notes Management System

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Abstract: 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. By this idea the students would get a wide range of study materials and a whole lot of opportunities to learn new things from different professors across the globe and also will get the opportunity to connect to new people of different. The proposed project will be implemented in applications such as study material, social media using Android Applications. This system will help the students to upload and download study materials or lecture notes and also will be able to connect with the students of different colleges through email, etc.

Keywords: Android, Lecture notes management, smart phone, study material, etc.

1. Introduction

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. They may have suggestions on different ideas and projects from experts and make the best out of there learning and skills sets.

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 open source and freeware. The application is compatible with all Android versions ranging from Gingerbread 2.0 to Marshmallow 6.0.

2. Literature Survey

Following are the present systems which are in use for the E learning purpose

A. Android Based Smart Learning And Attendance Management System [1].

This system basically includes the attendance tracking and till some part the idea of notes or study materials sharing. In short, the system to some extent isn’t able to fulfill the aim of notes sharing as there is no such provision mentioned in the paper or the system as well.

B. Lecture Monkey [2].

This app is basically aims at capturing the live video of the lectures and uploading on the domain so the students can watch and learn. But the videos just can’t clear the doubts if the student or the user has any which in turn creates the communication gap between professor and student.

All the above mentioned systems are either not able to implement the idea or creates a communication gap. In the proposed project Android based study materials and notes management system is designed to overcome such errors or implementing the idea to its extreme.

3. Proposed System

In the proposed application, user such as professor and student would be able to access a number of
books and study materials across the globe. The user would be able to communicate with other users through the chat application. The working 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:

**User:**
- User can view their profile.
- Upload Notes in the form of .pdf, .docx, etc.
- View the notes they have shared on their dashboard.
- View different books and notes of different courses by selecting the various category.
- Easily download .pdf, .docx, etc documents.
- User will be able to comment on the post and also add attachments to it.

**Chat Application:**
- Users will be able to communicate by sending messages.
- It can add new members to the contacts list.
- Users can create groups on the chat application for group discussion.

This application also implements the concept of clustering algorithm which would lead us to make the groups of most viewed notes and also groups of people who regularly upload notes on the android application. 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 know which professor or student to contact in order to clear any doubts if any.

**4. Conclusions**

Many professor and student have to search a lot of books and visit different libraries for research purpose or for a project. This takes a lot of time and money. This application would be able to reduce the time and money usage as the books and notes would be available on this app from across the globe thus making the things more easier. This application will reduce the communication gap between the professor and student which would boost the learning process and ease the education system.

**5. 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 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.

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7. References