



ANDROID APP ON DEPARTMENTAL NEWS USING JAVA

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Abstract: The project “Android Application on Departmental News using Java” is named as IT News app” takes the educational format from traditional methods to new age techniques. In the recent years, there has been increasing demand in joining of new technologies into educational processes. IT News is a technology in educational programs, provides support to instructors to reach their pedagogical goals, organize course contents and support students. The Proposed system has many modules that will help both teachers and students to better communicate with each other. Student can get easy access to contents and help them track all the activities. The system is android based so it can easily be used on any smartphones. IT NEWS helps monitor student progress and performance in the course. It has an in-built feature that keeps track of their records, grades, submissions, and engagement with the course. Likewise, it collates important files and documents shared by the students in the platform.

Introduction

There can be no doubt that technology has transformed the way education is delivered to people across the globe. We now live in an interconnected world where the traditional concept of formal learning, taking place in a single physical location, is becoming increasingly less relevant. Modern learners are becoming dissatisfied with the stand-and-deliver approach to education that dictates attendance times, learning venues, and modes of participation. The emergence of sophisticated communication technologies and mobile devices has enabled a new generation of information consumers to satisfy their demands for knowledge without the need to meet in a physical location. Software vendors, open-source developers, and educational institutions, cognizant of this development, have embraced systems that can facilitate the management of courses and engagement with students remotely.

IT News can be defined as web-based software platforms that provide an interactive online learning environment and automate the administration, organization, delivery, and reporting of educational content and learner outcomes. Feature: - A robust, high-quality IT News is a vital tool to the success of any online course and can make or break an institution's reputation in the highly competitive education market. IT News not only need to provide content to learners, but they must also facilitate timely and accurate communication between learners, course facilitators.

An IT News (IT News) is a android application which handles all aspects of a learning process, including the administration, documentation and delivery of educational courses. By gathering all learning materials in one place, an IT News can create professionally structured course content that is delivered through a variety of different modes.

A key feature of an IT News is the ability to create different types of users. In our Code IT News project, we have Administrators, Users, and Teachers, who all have differing levels of access to content and performing CRUD operations on the site. Users are able to read articles, and the administrators, who have complete access to everything on the site.

E-learning is an education via the Internet, network, or standalone computer. E-learning is basically the network-enabled convey of skills and knowledge. E-learning refers to using electronic applications and processes to learn. E-learning includes all forms of electronically supported learning and teaching. The information and communication systems, whether networked learning or not, serve as specific media to implement the learning process. This often involves both out-of-classroom and in-classroom educational experiences via technology, even as advances continue in regard to devices and curriculum. E-learning is the computer and network-enabled transfer of skills and knowledge.

E-learning applications and processes include Web-based learning, computer-based learning, virtual education opportunities and digital collaboration. Content is delivered via the Internet, intranet/extranet, audio or video tape, satellite TV, and CD-ROM. That is to say E-learning systems contain both IT News and Course management system. It can be self-paced or instructor-led and includes media in the form of text, image, animation, streaming video and audio. It is commonly thought that new technologies can make a big difference in education. In young ages especially, children can use the huge interactivity of new media, and develop their skills, knowledge, and perception of the world, under their parents' monitoring, of course

Earlier learning took place in a chalk and talk method with the teacher-centric education. Then with the infusion of technology in education, there was a paradigm shift in the way learning experiences were provided to the students.

The most recent trend in patterns on learning is e-learning, i.e., technology-enhanced education. Learning programme and materials are hosted and available online, allowing students to learn, interact and even earn or obtain degrees sitting in the comfort of their own homes. Even though the internet allows for hosting the learning material, the challenges of administering the instructions over the internet is also to be difficult. Hence, IT News (IT News) or the software designed to aid organizations/institutions in managing their e-learning initiatives have mushroomed and there is a huge market for the same.

Purpose

The main purpose of an IT News is to manage the learning process (the name IT News is pretty much self-explanatory). It is a system because it works in an automated, pre-determined way. Or we could say system is a fancy word for software.

Whatever you prefer. Basically, IT News were created to make your life easier. And we, from Easy IT News, want to make it even more easier, because our IT News software (as the name says) is very intuitive and easy to use. Nope, there's no need to be a techie to start creating awesome courses and exams. All you need is to have a computer, Internet, be able to use both, and you're all set!

An IT News is an online integrated software used for creating, delivering, tracking, and reporting educational courses and outcomes. It can be used to support traditional face-to-face instruction, as well as blended/hybrid and distance learning environments. College's use IT News software to plan, implement, facilitate, assess, and monitor student learning. All of these activities are conducted behind a virtual wall that provides a measure of authentication, security, and privacy.

The IT News helps Colleges maintain the integrity of their educational programs by enabling educators to effectively and efficiently develop courses, deliver instruction, facilitate communication, foster collaboration between students, assess student success, and provide other learning resources for support.

This information can be analyzed to detect patterns and gaps in learning for needed remedial student support and overall class improvement. Leaders can access reports by class and overall school performance for improvement planning and data-driven professional development.

Scope

Within an IT News teachers can combine/align standards with curriculum/resources and assessments, monitor students' progress, activities, and other performance outcomes of targeted individualized student learning objectives and overall school improvement initiatives/strategies. Teachers can set the targeted individual student's learning objectives and provide them with immediate feedback on areas needing improvement. The Learning Management System (LMS) market is going through a period of dramatic changes. The rise of web-based study, interactive courses, communication advancements and gamification- All these developments show how technology is changing the conventional education system beyond imagination. After all, technology has changed the landscape of learning environment and will continue to do so at a more unprecedented level.

IT News helps various organizations to offer training to their employees while saving both time and expense. The IT News platforms are popular in the education sector and help both the educators and the students with learning on the go.

1. Centralized information

Printed handouts can be fun and useful for various classroom activities, but they can also be misplaced, lost or damaged. They can become a thing of the past (and help preserve the forests) if educators choose to use of an IT News instead, because all study materials and even homework get into the same location: in the cloud.

This centralized hub of learning materials means students can find anything they need within just a few clicks or taps away. They will always get the latest version of any document and can quickly exchange various resources, because they're all in the same place.

2. Increased communication

Through the use of an IT News students can collaborate on different tasks easily, as they don't have to be in the same physical place to speak with one another; they only have to be active in the system at the same time. This comes in handy even for introverted kids, who may find it easier to participate to class discussions, as the fear of being in the spotlight or being interrupted before finishing their thoughts diminishes.

Students can make connections and exchange opinions with others colleagues thanks to the various collaborative features they can use. They also stay updated with the latest news from teachers and their college friends easier.

3. Multichannel learning style:

The future will see lots of young and tech savvy learners continuing with their learning process and will prefer bite sized modules that they can easily complete and learn. Learning through videos, audios that are available online will increase.

The admins will find that content library will be used more to solve acute learning needs that are more like job training than tradition instructor led training. This year will see that superior reports will help to ultimately shape the culture within the organizations in order to feature lifelong learning.

4. The use of AI in learning:

AI plays a great role in various aspects of our lives. Whether it is a virtual assistant that gives you information about the weather or any news updates, AI will be more ingrained in our lives than we might even think. AI will make learning personal, relevant with insights that are based on user behaviour, data and other preferences.

AI will change enterprise learning with an incredible ability to offer automated and personalized learning that can completely change the way students will learn. IT News powered with AI will not only deliver personalized learning environments with content, but will also improve the quality of the course.

5. Adaptive learning will help adult learners:

Adult learners often have their specific needs and are more knowledgeable and experienced. Adaptive learning will have a great impact on how learners enroll in the courses and how they can use it as per their convenience of time, learning path and interest. Since adults have some specific objectives of learning the course, adaptive learning in the IT News helps them to satisfy their core objectives easily. Higher education and corporate training programs can now treat them as individuals coming from diverse backgrounds, having expertise and real-life experience and the need to meet their real-life demands.

6. IT News will focus more on user engagement and experience:

Latest IT News will focus more on learner's engagement and experience and not only on information delivery. Traditional IT News will have to enhance their features to remain competitive in the market. Future IT News will also see more engaging features like personalized learning, social learning, gamification and personal coaching and support.

Applicability

The IT News app has been well received by the IT department students and teachers, the best IT News gives us the ability to keep track of learner progress and ensure that they are meeting their performance milestones. For instance, if an online learner is

not able to successfully complete an eLearning scenario, you can offer them supplemental resources to improve their performance or learning behaviors.

Most IT News feature reporting and analytics tools that also allow you to pinpoint areas of your eLearning course that may be lacking, as well as where it excels. If you discover that many of your online learners are struggling throughout a specific online lesson, for example, you can assess the eLearning content and make modifications if necessary. The app has also been praised for its user-friendly interface and intuitive design.

Requirements Specification

I. Functional Requirements:

1. Admin

- Update information: The information of the students will be updated by admin regarding any error or issue in their registration
- View Student: The details of all the students that are already there or new registered Student can be viewed by the admin.
- Login and logout: The admin will have its own id and password for logging in and logout after performing the functions

2. Student

- Register: The student can register on application and will get userid and password to further use
- Login: Each user will have its own unique user id and password and they will be able to access all features.
- Complaint: They can give complaints regarding their issues to administration and will get a solution as soon possible
- E-Content: The students can get access to various study lectures uploaded by respective teachers of their course
- Notes: Students can get access to various study materials like books, notes, study materials, etc
- Assignments: Students can view assignments
- Logout: The user needs to logout after the work is completed.

3. Teacher

- Register: The teacher can register on application and will get userid and password to further use
- Login: Each user will have its own unique user id and password and they will be able to access all features
- Assignment: Teacher can upload assignments to students with submission dates
- Video: Teacher can upload video lectures to students
- Logout: The user needs to logout after the work is completed

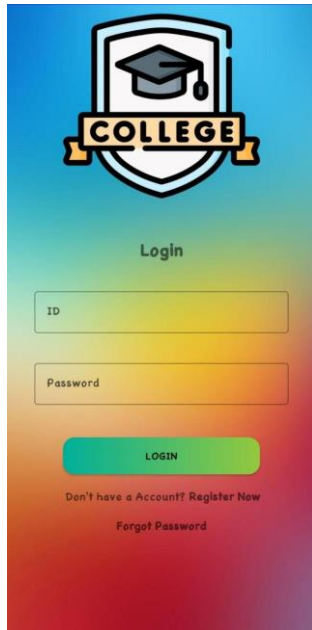
II. Acknowledgement

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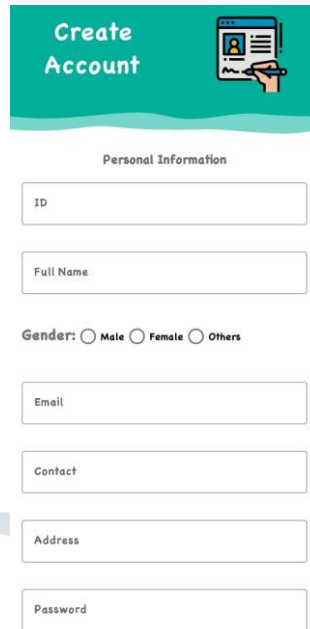
III. Future Scope

LMS trends and predictions about online education in the future show that the market for these platforms are growing. The global market for LMS software is expected to reach \$7.57 billion by 2026. In addition, e-learning is trusted by a host of Fortune 500 companies who have witnessed the effectiveness of an LMS first-hand. The learning management system (LMS) is a rapidly evolving field with constant technological advancements and changes in the educational landscape.

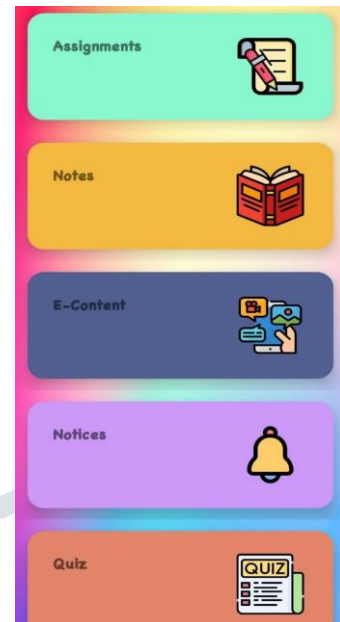
IV. User Documentation



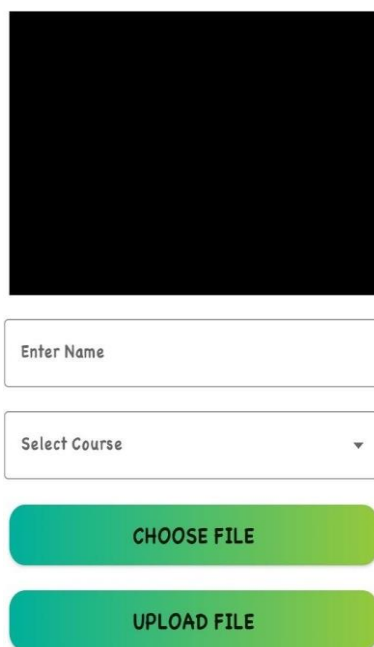
login screen



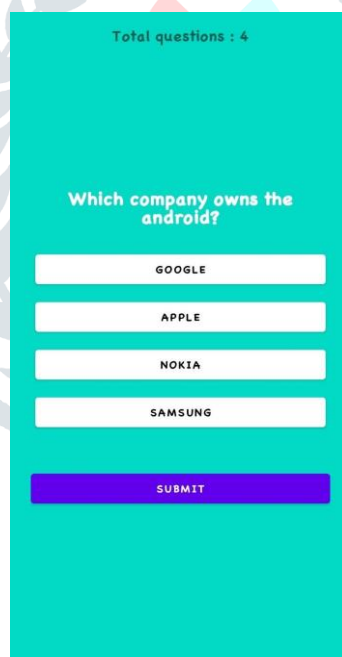
Registration Page



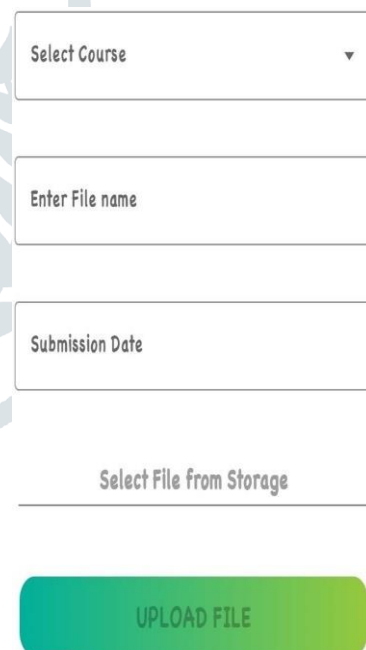
Menu Screen



Upload Page



Quiz Page



Assignment Upload Page

Conclusion

An android application is developed which is very helpful tool for both students and teachers. It provides an easy-to-use platform for learning and communication and has various resources for students to gain Knowledge. It will reduce the stress on students and will help students to carry less materials to college. With the increasing use of mobile devices, an Android app LMS is a convenient way for students to access learning materials and communicate with their peers and teachers. The app's ability to support different types of content and formats allows for a diverse range of learning experiences that cater to different learning styles. Overall, an Android app for LMS is an important resource that enhances the learning experience and provides a convenient and flexible way to access educational resources.

REFERENCE

1. Al-Azawei, A., Parslow, P., & Lundqvist, K. (2017). Investigating the effect of learning styles in a blended e-learning system: An extension of the technology acceptance model (TAM). *Australasian Journal of Educational Technology*, 33(2), 1-15.
2. Alshammari, F., & Karpinski, A. C. (2018). Factors influencing students' acceptance of mobile learning for higher education in Saudi Arabia. *International Journal of Interactive Mobile Technologies*, 12(7), 21-36.
3. Bedir Tekinerdogan, E., & Iahad, N. A. (2016). Using Agile methodologies in teaching: A systematic mapping study. *Journal of Systems and Software*, 114, 101-121.
4. Siemens, G. (2005). Connectivism: A learning theory for the digital age. *International Journal of Instructional Technology and Distance Learning*, 2(1), 3-10.
5. Thomas, M., Reio, T. G., Jr, & Hatten, K. J. (2010). Teaching business students with learning style in mind: An empirical investigation. *Journal of Education for Business*, 85(5), 282-289.

