Student E-learning And Management System

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ABSTRACT

E-learning fulfills the thirst of knowledge and offers online content that can be delivered for the learner at anywhere, anytime and any age through a wide range of e-learning solution while compared with traditional learning system. It also provides the rapid access to specific knowledge and information. With the rapid growth of voluminous information sources and the time constraint the learning methodology has changed. Learners obtain knowledge through e-Learning systems rather than manually teaching and learning. In this research paper proposes the e-learning management system with web services oriented frame work. This system focused around the platform needed for e-learning and managements. E-learning is playing very important role in the present educational scenario. It has potential to change the whole education system and due to this very reason it has become one of the most preferred subjects for the researchers. Research works on e-learning are going on in various disciplines like Mass Communication, Education, Information and Technology (IT) and Distance Education. Scholars are working on the various aspects of e-learning. This study analyzed the various research works on e-learning to find out the research trends in this field.

Keywords : E-learning, Research Trends, Information and Communication Technology.

Introduction

The automated system is time-saving and better performance than the manual based system. Students who excel in online class develop a system for keeping track of upcoming online exams and assignments. Web-based learning is used nowadays as another option to face to face education. The increased use of e-learning among educational institutions has led to a change in higher education. One of the main reasons for this is it gives students greater access to education in comparison to traditional methods of teaching as students can undertake their study from anywhere and at any time as well as being given the option to study part-time or full-time. E-learning has transformed the educational sector by enabling students to share information and data in easy way. E-Learning describes courses that can be developed and implemented quickly. It also refers to E-Learning courses or modules that allow learners' to acquire new information or skill sets more rapidly.

Existing System

E-Learning is a web based Learning Management System that helps students to interactively learn a new course, allow course experts to publish new courses on different subjects, allow evaluators to evaluate the students

on any available course and management to obtain various types of reports. online learning you can access the content an unlimited number of times. It is used at the time of revision when preparing for an exam. It enables the learner to access updated content whenever they want it. Saves time as a student does not need to travel to the training venue. You can learn at the comfort of your own place.

Disadvantages

The main disadvantages of e-Learning is that you get knowledge only on a theoretical basis. The face-to-face learning experience not there. Most of the online assessments are limited to questions that are only objective in nature. The authenticity of a particular student's work is also a problem as online just about anyone can do a project rather than the actual student itself. The assessments that are computer marked generally have a tendency of being only knowledge-based and not necessarily practicality-based.

Proposed System

The rapid development of tools such as computers and mobile devices has supported its growth, especially with the advent of the high-speed Internet.It evolves with time and offers cost-effective learning in an efficient way. Online

learning platform is where thousands of students can apply without limit and get the degree or certificate they wish to easily.It gives opportunity to learn in ways that suit their Student's learning styles and multiple intelligences. Adaptive learning is a style of education where resources, activities, projects, and assignments are tailored to each student's needs.

Advantages

There are six major advantages are interoperability, accessibility, reusability, durability, maintenance ability and adaptability .It is a very efficient way of delivering courses online. Due to its convenience and flexibility, the resources are available from anywhere and at any time. Everyone, who are part time students or are working full time, can take advantage of web-based learning. Web-based learning promotes active and independent learning. It is a very convenient and flexible option; above all, you don't have to depend on anyone for anything.

Disadvantages

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online just about anyone can do a project rather than the actual student itself. The assessments that are computer marked generally have a tendency of being only knowledge-based and not necessarily practicality-based.

USABILITY & ANALYSIS

The first-level is the design model, Sub-systems are , Main subsystem (component that initializes and launches everything else), User management (registration in system, courses and groups, authentication, access control with different views, student tracking, student profile management), Courseware (web page editing, design templates), Courseware(e-book, course description etc.,), Assessment (exam, assessment exercises), Searching (applies to all learning objects through metadata), Course management (creation, customization, courses), Study toolkit, System Administration (new course, back up, security, systems operation check, resource monitoring etc.),School Administration (absences records, grades records, student registrations),Help desk (on-line help, user support)

Learning Management System (LMS)

Learning Management System (LMS) works as central repositories to address all type of educational needs. The major areas addressed by LMS deployment are Curriculum Planning, Instant Evaluation, Learner Engagement and Content Management.

Curriculum Planning: The word curriculum planning means what courses of study to teach and within a specified course what topic to teach in a particular semester/year in a college system. Generally, faculties of Technical Educational Institutions (TEI) are involved in curriculum planning and are done by making a course plan and lecture schedule before starting the course work. Course plan is detailed structure of course clearly stating chapter description and reading resource (page number, website, handouts etc.) and lecture schedule states total number of lecture hours required for completion of course and amount of course coverage in a particular class.

Instant Evaluation: All LMS supports instant evaluation for multiple choice questions asked during test/exam. As soon as student click submit button, all multiple choice questions are evaluated

simultaneously and grading is displayed on screen

Learner engagement: Learner engagement means engaging today's students for academic success.

Learning Management System is a user–friendly window. Faculties, students and management can login in using their login and password details. Login access is given to only to authenticate user, belonging to same organization. After user enters login details, another window comes, and it has course plan during a semester, list of enrolled students, study material etc.

The common features of any education learning management system are listed below:

1. **Content management**: Course material like lecture notes soft copies may be included as a part of the suite and uploaded in parallel with classroom teaching.

2. **Assessment and testing**: All assignments shall be distributed and submitted online using LMS and quizzes/test shall be instantly graded.

3. **Curriculum Planning**: LMS shall be used for designing of course plan and lecture schedule.

4. **Reports generation**: LMS provide nice reporting tools with options to customize

student's report.

5. **Classroom and college announcements**: All classroom and college news in form of updates are visible in announcements in LMS.

MODULE DESCRIPTION

1. **Student**
2. **Staff**
3. **Admin**

Student

Student module have been designed for student to log in to the account created using registration form and view information. Student can view the following things such as Student profile, Subjects, Syllabus for Course, Notes for Syllabus

- Login: User can login his account using id and password.
- Main Menu: User will have access of main menu
- View: user can view webpages.

Staff

Staff module have been designed for staff to log in to the account created using registration form and share information to admin.Staff can add the following things such as Subject details,

Subject Notes, Syllabus, Attendance Details, Internal Marks.

- Login: Staff can login his account
- Upload: Staff can upload documents
- View: Staff can view all the documents

Admin

Administrator module is for controlling administrative works such as View account for students and staff, formation of curriculum and Update the subjects etc. So, administrator module can be considered as main module on which other modules rely on.

FUTURE SCOPE

Development of information and communication technology has supported the growth of learning management software and its propagation.

Adaptive learning is a style of education where resources, activities, projects, and assignments are tailored to each student's individual needs. Social learning takes the base components of human interaction and group dynamics and applies them to the modern technological age. AI has found a use in the context of eLearning. Backing up the concepts behind adaptive learning, AI is not only able to guide students through courses, but it can also help inform learning predictions and on-the-

fly personalization. Microlearning is indicative of a trend that goes beyond eLearning itself, and into the realm of traditional classroom spaces. mobile learning, or mLearning, is certainly an appropriate trend to consider and mLearning will grow to be huge. With the advent of learning management systems (LMS), instructors and other eLearning practitioners are able to develop, document, and administer the courses and curriculums that are produced.

SCALABLE & EFFICIENT

Online E-Learning sessions are especially easy to keep up-to-date because the updated materials are simply uploaded to a server and can be managed from anywhere.

ACCESSIBILITY & TIME SAVING

E-Learning materials are accessible at any time and any place.

Conclusion

E-Learning System has a number of advantages, which will put an impact on our traditional education. In this case, we should make good use of e-Learning, at the same time, integrate with traditional education, and stimulate one another for common development. E-Learning System is helpful for the context learning of students and task-driven of teachers, it can also improve the knowledge structure of teachers,

change the educational concept, so that the teaching reform can be pushed ahead with the development of information technology. Today's online learning opportunities offer everything from one-hour live workshops to online degrees. There is virtually something for everyone, all you have to do is find it.Learning online is different from learning in a face-to-face setting, and it is important to think about your goals, needs and interests. You also need to think about the time you have available, your comfort level with using technology. As we all become more familiar with computers and computer access becomes increasingly common, online learning will continue to open doors and offer learning opportunities.

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