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Survey on Digital Language Lab Portal

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ABSTRACT: The need of education is the lead to economic growth. Earlier days many of the perseverance learners looked for the means to learn new things, but only some are succeeded as they put much effort in all means. The scenario now-a-days is entirely different as new technologies and new inventions are twinned a way for better education through digitalisation. This digitalisation paved a way for development of the academic content by e-resources. Many organisations are competing one another to produce the user friendly, widely available e- content either commercially or freely. The proposed paper covers various e- resources and learning sites through tabular form, which carries the number of courses and users enrolled, free or paid etc. It also depicts the different e-learning components visually by pie-charts. These is web as well as android application help to conducts schools and colleges in online mode. These application makes task easy such as upload documents, videos, pdf regarding syllabus and study material. By using these application teachers get online exam and generate result quick as possible. Student also conduct missed lectures beyond limit of place and time. Student conduct live lectures and lecture whose missed due to some reasons. Student get regular notification on app regarding college, department and exam. Student also conduct exams in online mode and get result quick. These application also helpful to submit assignment and practical work online to teachers..

KEYWORDS: GSM, IOT, LAN, E-learning

I. INTRODUCTION

Now a days we are see all education facilities being in online mode. The process of studying through electronic devices is called e-learning or electronic learning. This e-learning is also said to be online education. Computers and internet connections are the major components of e-learning. In this digital era where the technology develops rapidly, the usage rate of online education is also pretty high. Now-a-days most of the people across the globe are very familiar with the usage of smart phones, tablets, laptops. These electronic inventions made them get connected to various social networking platforms. Social media is one of the finest way of communication that enables us to share knowledge, information. latest news across the world. Online education also offers the capacity to save and share materials, e-notes in all types of formats consisting of films, slideshows, phrase files, and pdfs. Undertaking seminars (live sessions) and peaking with professors via chat and message forums is another feature provided to users. Some of them are listed below:

1. It is fee-effective and saves time:

By the way of lowering the time consumed far from the workplace, disposing of tour prices and putting off printed materials, on-line studying lets you save money and acts as a booming place for business productivity. E-learning support Due to many reasons student are unable to conduct lecture in physical classroom so we need to design a system such a way that these system make work simple and beyond the limit of space and time. By using these portal student can conduct lecture in online mode and also conduct lecture whose are missed by some reason. Student get all notification in their applications and also submit assignment, attend the exam. These system also helpful for teacher to examine the student progress by view their reports and also generate report on one click.



1. **Easily managed:**

E-learning courses can also be managed in our busy running schedule. The maximum of e-learning guides have a certain duration time, and it also permits learners to print out the certificate of fulfilment as an extra incentive.

2. **Online classroom environment:**

It is discreet that not all of us feel relaxed studying in a huge organisation, but e-studying allows anybody to address the subject according to the people's personal tempo, with interactive tasks ensuring an intensive knowledge during every module.

II. LITERATURE REVIEW

Among the various papers gone through, most of them are keenly concentrated on effectiveness and the impact that the e-learning sources are creating in the minds of the present generation. While some papers even discussed on additional factors like what exactly is crushing the interest of people to study something digitally. According to Mudassir Khan [HYPERLINK \l "KHA16" 1], E-learning technologies seek to enhance the educational results target by using e-learning technology instruments in a thorough manner and to empower innovative learning. e-learning is an effective part of student's technical, design and developing skills in the current era in computer science. In the view of Froilan and Gesswein [HYPERLINK \l "Mob19" 2], the e-learning system is designed to help students gain an understanding of their respected academic subjects and to enhance and engage their learning experience. Through the research they did regarding the scope of e-learning, they suggest that it would be better if the learning system as such, blooms wide across the world which can be happen only when every individual knows the procedure of accessing the sources provided.

As per Roohinder Kaur [3], today, with various technological developments, learning is not limited to lecture classrooms as the only way to transfer knowledge, but rather an electronic way of learning has continued to develop. Electronic education, enabling training through communication networks, has rendered learning via the Internet, large networks or local area networks available from anywhere at any time. According to Sonia and Kavita [HYPERLINK \l "Placeholder5" 4], India is stepping towards the e-learning sites to embrace the knowledge on new technologies leaving the traditional mindsets behind. By this, they concluded about the scope of e-learning that India would be surely becomes vibrant in using the e-resources as much as possible as the number of internet users are growing rapidly day by day, coloring a positive signal to the upcoming era. According to Arum and Vrishali [5], In under developing and developing countries, e-learning is going to play a key role be it economically or socially. It increases the wave of people in rural areas to learn easily and adopt the methods of technology somewhere to improve their life cycle. He made it clear that India's education sector is going to bloom as learning modes are varying and being brought into the lives of people in the most welcoming way. In the view of Sunil et.al., e-learning [HYPERLINK \l "Placeholder7" 6] provides much knowledge and information than the traditional learning as the learning sites take much of care to include every minute point. According to them, it increases the pace of learning and helps in knowledge sharing through the circle formation within the site or through any other medium. Be it using in training or tutoring, India meet all the bounds of learning things electronically. Through this paper, they expressed that it would be faster to educate the massive number of people at a time, mainly in remote areas. Coming to the business organizations, this method would be much fruitful as there is no need to spend millions to educate and train the employes traditionally.[3]

III. PROPOSED SYSTEM

A successful e-learning experience will use a combination of the technologies most appropriate for the practitioner, the learner group, the course content and course assessment. Central to e-learning success are communication technologies which are generally categorized as synchronous or asynchronous. Synchronous activities happen at the same time and involve the exchange of ideas and information with one or more participants.

Proposed Architecture

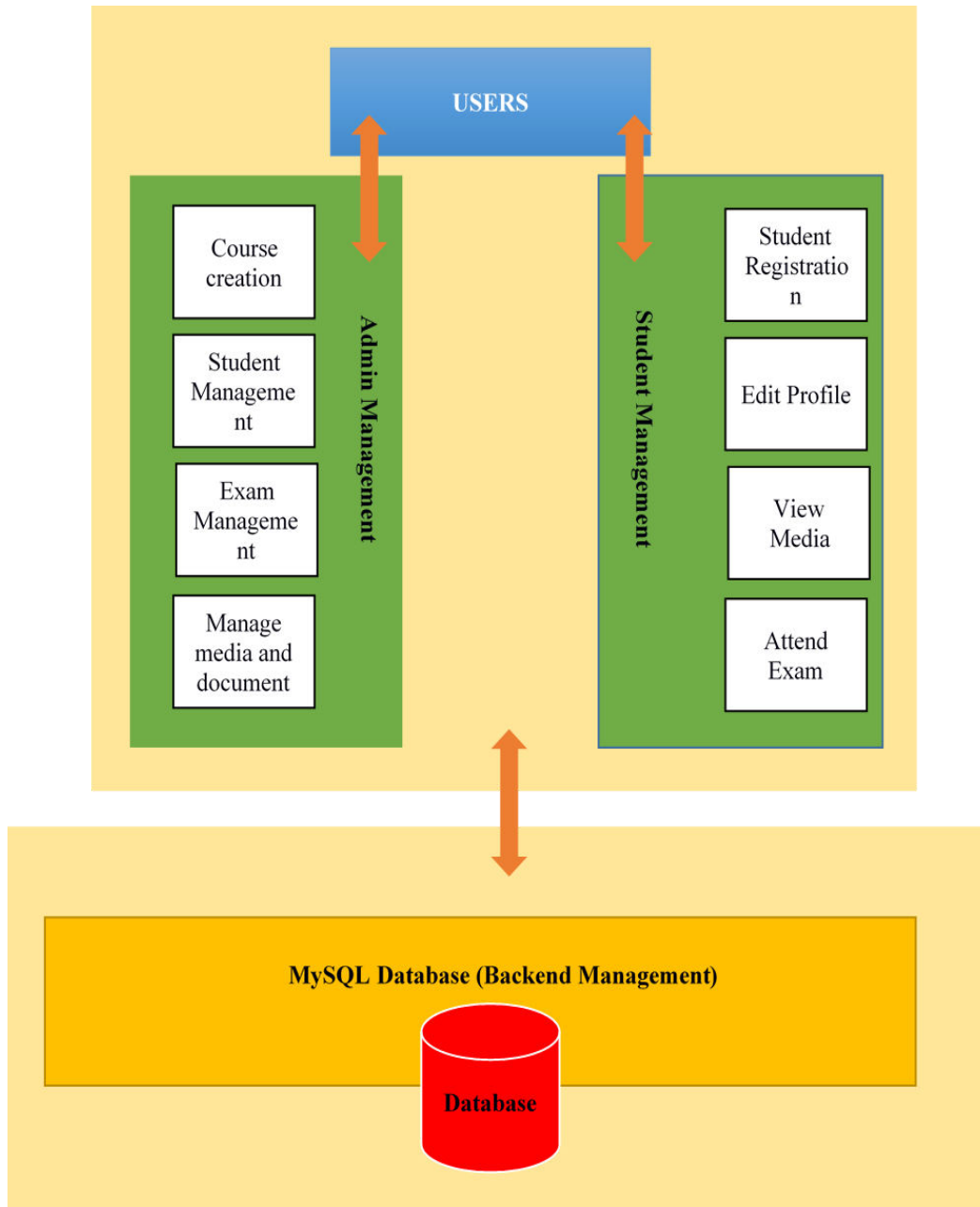


Figure 1: Architecture diagram

Synchronous activities occur with all participants joining in at once, as with an online chat session or a virtual classroom. Virtual classrooms (also virtual conferences or web conferences) allow practitioners and students to interact in real time from their own computer using text chat, live voice, and interactive whiteboards. Asynchronous activities are conducted with participants providing input at different times and use technologies such as blogs, wikis, discussion forums, and email.

A Learning Management System (LMS) is software for delivering content, tracking students and managing training. Practitioners set up a course web page to hold learning content and assessments, then track and manage their students with tools like grade books and activity reports. M-Learning or mobile learning covers learning with portable technologies like mobile phones, or PDAs (personal digital assistant), where the focus is on the technology (which



could be in a fixed location, such as a classroom); learning across contexts, where the focus is on the mobility of the learner, interacting with portable or fixed technology; and learning in a mobile society, with a focus on how society and its institutions can accommodate and support the learning of an increasingly mobile population that is not satisfied with existing learning methodologies.

IV. ADVANTAGES OR BENEFITS OF E-LEARNING

The adoption of E-learning in education, especially for higher educational institutions has several benefits, and given its several advantages and benefits, e-learning is considered among the best methods of education. Several studies and authors have provided benefits and advantages derived from the adoption of e-learning technologies into schools (Klein and Ware, 2003; Algahtani, 2011; Hameed et al, 2008; Marc, 2002; Wentling et al. 2000; Nichols, 2003). Some studies give advantage of e-learning as its ability to focus on the needs of individual learners. For example Marc (2000) in his book review on e-learning strategies for delivering knowledge in digital age noted that one of the advantages of e-learning in education is its focus on the needs of individual learners as an important factor in the process of education rather than on the instructors', or educational institutions' needs. Some of the advantages that the adoption of elearning in education, obtained from review of literature includes the following: 1. It is flexible when issues of time and place are taken into consideration. Every student has the luxury of choosing the place and time that suits him/her. According to Smedley (2010), the adoption of e-learning provides the institutions as well as their students or learners the much flexibility of time and place of delivery or receipt of according to learning information. 2. E-learning enhances the efficacy of knowledge and qualifications via ease of access to a huge amount of information. 3. It is able to provide opportunities for relations between learners by the use of discussion forums. Through this, e-learning helps eliminate barriers that have the potential of hindering participation including the fear of talking to other learners. E-learning motivates students to interact with other, as well as exchange and respect different point of views. Elearning eases communication and also improves the relationships that sustain learning. Wagner et al (2008) note that e-Learning makes available extra prospects for interactivity between students and teachers during content delivery. 4. E-learning is cost effective in the sense that there is no need for the students or learners to travel. It is also cost effective in the sense that it offers opportunities for learning for maximum number of learners with no need for many buildings. 5. E-learning always takes into consideration the individual learners differences. Some learners, for instance prefer to concentrate on certain parts of the course, while others are prepared to review the entire course. 6. E-learning helps compensate for scarcities of academic staff, including instructors or teachers as well as facilitators, lab technicians etc.

V. CONCLUSION AND FUTURE WORK

Based on the analysis and design of Digital Language Lab Portal, it can be concluded into several points. First, with Online Learning, students have no difficulty in learning. It is because the material can be obtained through this Digital Language Lab Portal (DLLP). These learning materials can be accessed on the portal. Second, in Online Learning, the progress of the learning process can be measured through the features of lesson and quiz. Then, the learning outcomes can be viewed through member dashboard. For further research, the DLLP can be expanded. For example, it can have discussion forum for users to discuss learning materials. Moreover, the future researcher can add online compiler to check the students' answer.

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