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Global Effects of E-Learning Management Systems: Under the New Educational Revolution, LMS Establishes a Global Educational System: A Comparative Study

V. Thangavel¹

¹Head-LIRC and Librarian, St. Francis Institute of Management and Research, Mumbai, India. E-mail: v.thangavel@rocketmail.com

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Abstract

The "research vision is 2032," according to which all educational sectors will have made use of LMS systems that have been accepted and implemented by higher education bodies worldwide in every country. To create soul bio educational systems (SoBES) under one Roop that supported remote monitoring systems (RMS), every national educational sector combined with global education systems (GES) integrated at a single parameter scale. The students were able to continue their education and pursue their studies at other institutions, colleges, and universities by using the GES, RMS, and SoBES to assist with education transfer. All colleges and educational sectors have easy access to the newest, creative ideas and research findings. Governments have the option to implement and launch the Global Learning System (GLS), which might then grow to regional and international territorial levels before potentially expanding to individual countries in Asia, the Arab world, Africa, America, Europe, and the Russian Union. In the field of education, it is a recent discovery. The GLS to the Global Educational Policy may employ financial assistance. Each national planning commission may designate unique financial plans and assign various monetary schemes. Every country encourages other countries' educational advancements, which it may then apply to the natural and healthcare sectors. This article focuses on the worldwide educational system via global educational policy under remote access and primarily focuses on the LMS and related feature research, new adoption, and implementation.

Keywords: *eLearning, LMS, Cloud-based learning, Online learning, Teaching-Learning, Global learning system, Remote education system, Global education system, Global education policy*

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1. Introduction

Sidney Pressey invented the first 'teaching machine' in 1924, resulting in the first Learning Management System (LMS). A cloud-based LMS allows employees and customers to use the platform from any location with an internet connection. This sort of LMS does not require users to install any hardware or software on their computers. After that, An LMS is a digital platform that centralizes and streamlines the process of administering, distributing, and tracking educational content and training programs. An LMS can be used to: swiftly and effectively provide and manage material. Automate tasks and track learner progress. Artificial Intelligence technology also has been adopted in LMS. An AI-powered LMS is a learning management system that includes artificial intelligence (also known as machine learning) technologies to

* Corresponding author: V. Thangavel, Head-LIRC and Librarian, St. Francis Institute of Management and Research, Mumbai, India. E-mail: v.thangavel@rocketmail.com

automate and organize your online learning environment. These features include content management automation, tracking learner progress, and grading management.

1.1. LMS Concepts

LMS stands for Learning Management System. This is a type of software that allows businesses and educational institutions to create and manage lessons, courses, quizzes, and other training materials.

1.2. LMS Platform Classification

Cloud hosting is common in both hosted LMS and SaaS LMS. The difference between hosted LMS and SaaS LMS is the infrastructure upkeep. In the event of a hosted LMS system, you will be responsible for hosting the LMS as a business organization, school, or college.

1.3. Elements of an Excellent Learning Management System

1. Experience centred on the learner. Isn't the point of purchasing an LMS to eventually train your users?
2. Intuitive User Experience
3. Mobile Capabilities
4. Built-in Reporting
5. Native Integrations
6. Surveys
7. Blended Learning Capabilities
8. Regular Updates.

1.4. Objectives or Purpose of LMS

The LMS's objective is to host and track e-learning. An LMS provides a virtual hub for e-learners to access training resources, with the goal of making training accessible to remote learners while also offering a central destination for training across a business.

1.5. Advantages of LMS

The Most Important Advantages of Online Learning for Students are:

1. Online learning meets the needs of all students.
2. Lectures can be repeated if necessary.
3. Content may be changed.
4. Prompt delivery.
5. Economical.
6. Consistent in quality.
7. Less environmental impact.

1.6. Users or Learners of LMS

All learners added to the LMS are automatically assigned the position of learner. A learner is the counterpart of a student. Learners have no access to system data and can only visit their learner home page. A learner's role is to finish assigned and optional course content.

1.7. LMS Features Checklist

While shopping for one of these platforms, keep the following LMS features checklist in mind.

- a. Simple course building
- b. Virtual classroom

- c. Customization possibilities
- d. Video/PPT/PDF/SCORM/Tin Can uploading.
- e. White labelling
- f. Multiple teachers
- g. Mobile compatibility
- h. Multilingualism
- i. Quizzes
- j. Surveys
- k. Reporting
- l. Certificates

Also, don't forget to investigate the LMS provider's customer service. This will determine your experience, and you can rest assured that the support team will be there for you if you require assistance after making your purchase. You may also learn how to choose the best LMS by watching this video.

a. Are you ready to deploy an LMS for online training?

Learning Management Systems have evolved into the backbone of modern workforces. They are a one-stop shop for developing, managing, delivering, and tracking courses and exams. Before you invest in a learning management system, make sure to investigate its features and assess your training requirements and budget. This will ensure that you pick the best buy for your company. The finest LMS software should have features like as e-learning authoring tools, professional courses and templates, social learning tools, quizzes, surveys, and reports. If you're still perplexed, read our blog about the 15 best learning management system software of 2023. Remember that the LMS you select should have the capabilities you genuinely require to fulfill your training objectives. To put it another way, it should be feature-rich rather than feature-bloated.

1.8. Why LMS's Necessary

Learning management systems examples (LMS) help create better online learning experiences for your learners. They allow you to develop, design, and deliver your training programs faster and more effectively. Most LMS do this by offering a course library, content management system, user management, and authoring tools. They also automate most of the manual work that's normally done when planning and executing training programs, such as user enrolment and training trackers. That's why, with learning management system examples, you'll be able to better focus on what really matters: optimizing training for your learners.

1.9. LMS Market Trends

The market is increasingly emphasizing personalized learning experiences. LMS platforms are implementing advanced features like as adaptive learning algorithms and data analytics to cater to this consumer preference. This personalization allows learners to receive individualized information, assessments, and recommendations, which increases engagement and knowledge retention. Furthermore, rich media formats, gamifications, and virtual reality are now available. The learning experience is becoming more dynamic and entertaining as LMS systems become more immersive and engaging. Consumers' increasing emphasis on mobile learning and microlearning will continue to affect the market picture ([Global Market Insight, 2023](#)).

1.10. LMS Market Analysis

The academic LMS market earned over \$20 bn in sales in 2022 and is expected to reach \$110 bn by 2032 (Figure 1). Educational institutions ranging from K-12 schools to universities are increasingly utilizing LMS platforms to streamline their educational procedures ([Global Market Insight, 2023](#)). With the shift towards blended learning and remote education, LMS platforms have become critical in offering virtual classrooms and facilitating distance learning. These systems not only improve administrative efficiency, but also collaborative learning, student involvement, and personalized instruction. The emphasis on improving the educational experience and satisfying the changing demands of students and educators in the digital era is driving the segmental share.

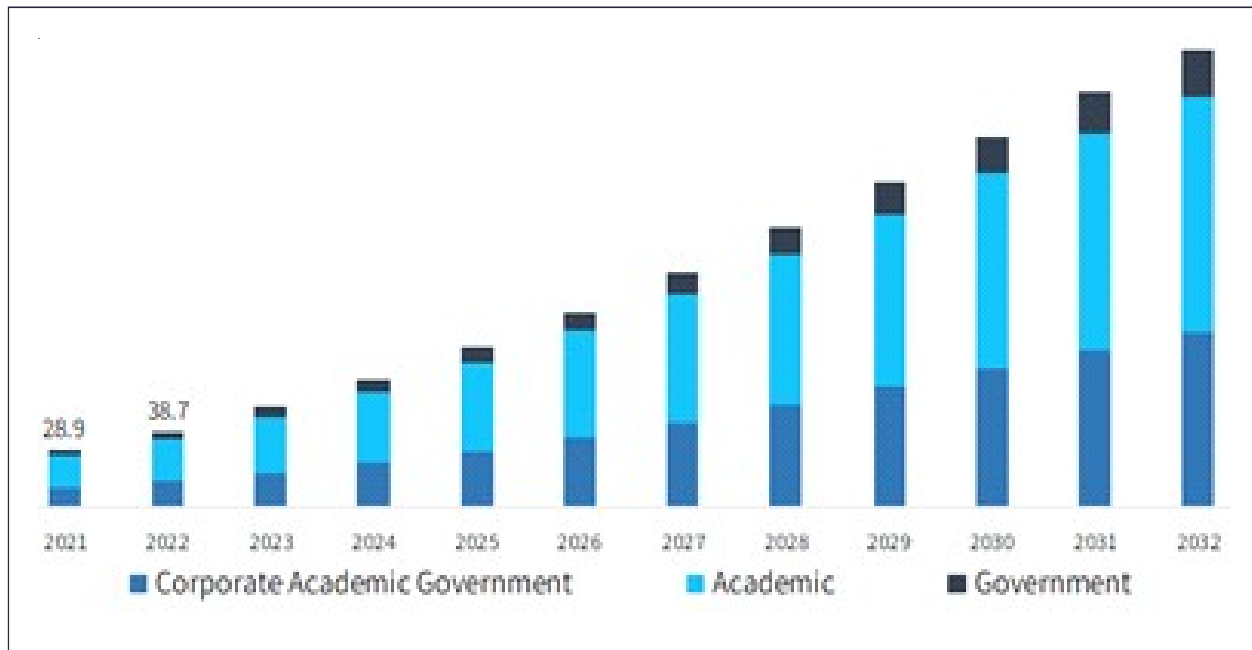


Figure 1: Learning Management System Market, by End-Use, 2021-2032 (\$ bn)

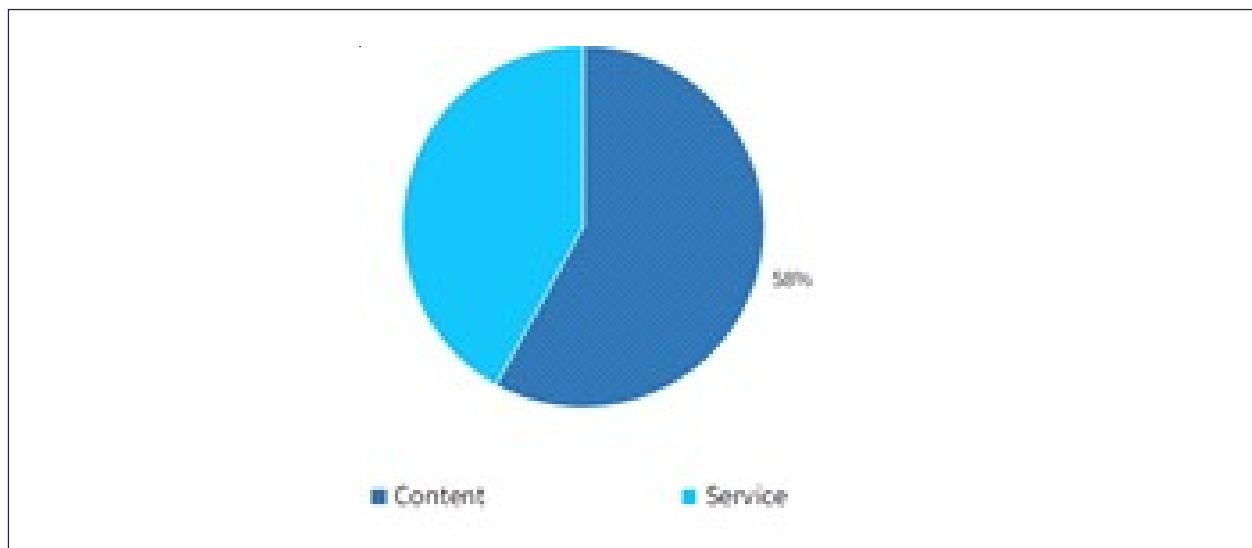


Figure 2: Global Learning Management System Market Share, By Provider in 2022

1.11. LMS in COVID-19 Impact

The COVID-19 pandemic’s impact on the LMS market has been tremendous. With the widespread closure of schools, universities, and training facilities, demand for remote learning solutions has increased. During lockdowns and social distancing measures, educational institutions and organizations swiftly turned to LMS platforms to ensure continuity of education and training (Global Market Insight, 2023). Because LMS Platforms provide a full infrastructure for delivering virtual classrooms, maintaining course materials, and facilitating communication and collaboration between students and instructors, the abrupt move to online learning has expedited their acceptance. The epidemic has not only emphasized the significance of LMS platforms in facilitating remote learning, but it has also shown their potential to improve educational accessibility and flexibility. The epidemic has not only emphasized the necessity of LMS platforms in facilitating remote learning, but it has also proved their long-term potential to improve the accessibility and flexibility of education and training.

1.12. Features of LMS

Blackboard is the most extensively used LMS software. Although Blackboard is frequently used in higher education institutions, its application is not confined to the education business. Blackboard is widely utilized in the business world for employee training. Citation and Code Embed. LMS are platforms that aid in the delivery of content online for learning purposes (Kats, 2010).

E-learning systems have a promising future ahead of them. The potential for creating impactful and captivating online learning experiences is virtually limitless when features like artificial intelligence, virtual reality, big data-driven learning analytics, and more advancements in usability, scalability, interoperability, and openness are included. To guarantee that everyone has access to a top-notch education, e-learning systems must continue to be inclusive and accessible to all kinds of users at every level (Figure 3) (Rakoczi, 2023).

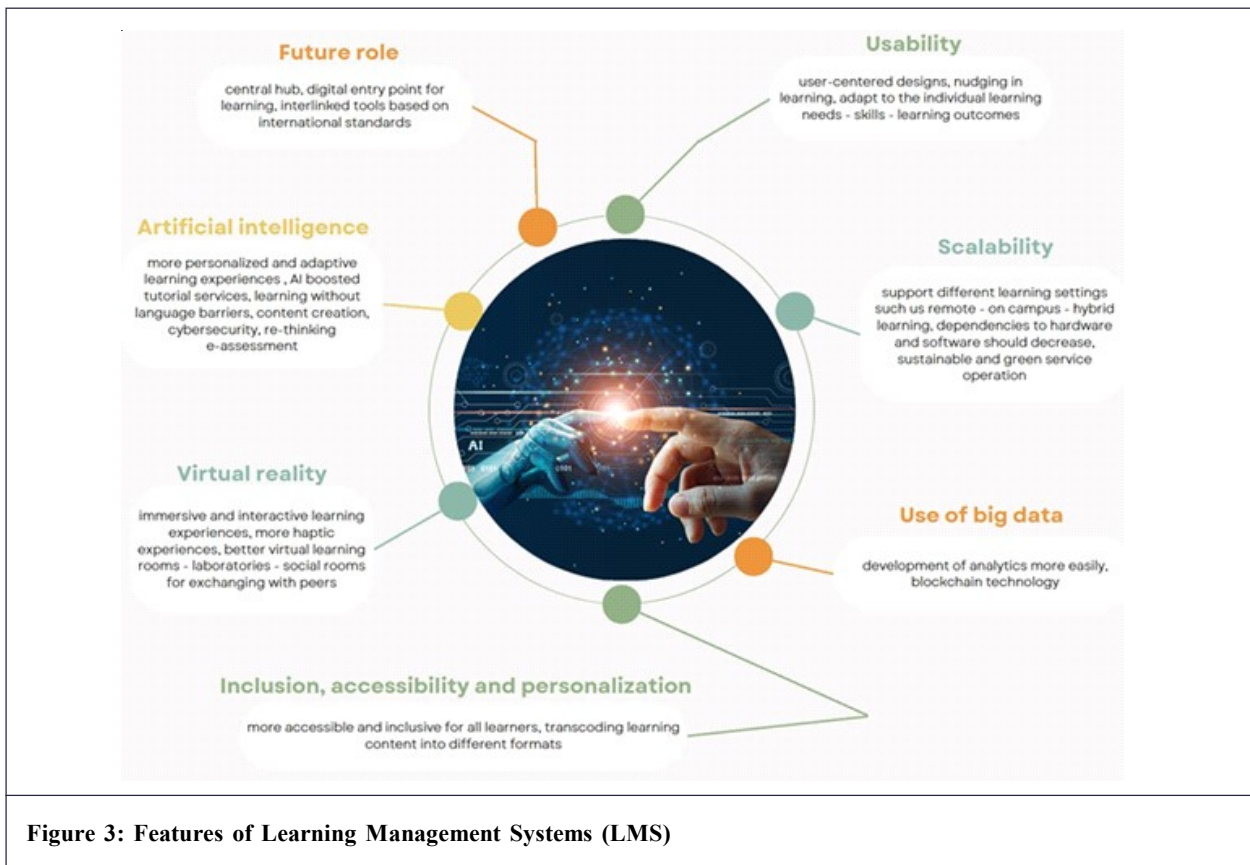


Figure 3: Features of Learning Management Systems (LMS)

2. Literature Review

According to Rakoczi (2023) it is impossible to compare how academic staff—including instructors, tutors, administrative personnel, and students—perceived LMS before and after the Corona pandemic. During this time, nearly every educational institution on the planet has expanded and enhanced its systems (Rakoczi, 2023). Numerous features, capabilities, and interfaces with other systems have been developed. Learning management systems (like Moodle, Canvas, Blackboard, and others) are becoming an increasingly important component of organizational infrastructures. Will these improvements be sustainable at this point is the question. Will the advancements fulfill the demands of teaching and learning as well as those of upcoming academic institutions? His article aims to explore the roles, difficulties, and possibilities that learning management systems will face in the coming decades. It will draw attention to the growing impact of more hybrid teaching and learning environments and emphasize the need for greater adaptability in incorporating new digital resources and activities in the future, which should allow for a higher degree of participation in digital teaching and learning. Furthermore, advancements in other study areas like artificial intelligence, virtual reality, big data, etc. will have a greater impact on future LMS. To what degree will LMS system features like user-centered support for communication and collaboration, scalability, interactivity, and networking become more important? This study aims to provide practical insights based on the experiences of an expert who has developed and integrated learning management systems for

many years. It will address these challenges.

Saadati *et al.* (2023) studied self-regulated learning (SRL) has become a focal point in research on academic achievement and online learning in higher education. The adaptive SRL intervention and blockchain-based learning management system (LMS) in online higher education have not received much attention from research papers so far. This paper sought to create a blockchain-enabled learning management system (LMS) with SRL adaptive intervention (AI) as a metacognitive tool for online higher education. The goal was to enhance planning, monitoring, collaboration, ZPD (zone of proximal development), scaffolding, and reflection in the direction of learning achievement and the development of self-regulation. To do that, a blockchain-based learning management system (LMS) that offers three stages of preparation, action, and reflection of SRL AI across the online curriculum is designed. This is based on benchmark data from 33 English Language Teaching (ELT) Master of Art (MA) students. Both quantitative and qualitative data were gathered using the SRL pre- and post-test questionnaire, which was evaluated using the t-test, and reflective essays, which were analyzed using the content analysis approach. The study's conclusions showed that MA candidates had the chance to hone their SRL skills in realistic goal setting, self-monitoring, self-reflection, and self-awareness through coaching/judging, ZPD, and teamwork through the blockchain-based SRL intervention online program.

According to Habibi *et al.* (2023) considering the Corona Virus Disease 2019 (Covid-19), the current study looked at factors influencing how higher education students used a mobile-based learning management system (m-LMS) for remote learning. A validated survey instrument was developed using the Technology Acceptance Model (TAM) and the Theory of Planned Behaviour (TPB). The 1032 replies provided the primary data. Data computation was done using Smart PLS 3.2. The measurement and structural models were evaluated using partial least squares structural equation modeling (PLS-SEM) techniques. The suggested model is trustworthy and legitimate. The study's conclusions demonstrate that correlations appear in seven of the ten hypotheses. The association between perceived usefulness and attitude is the strongest, whereas the relationship between perceived ease of use and attitude is the weakest. Because of pandemics like COVID-19, this study highlights the importance of raising awareness regarding the usage of m-LMS in education, particularly during distant learning. It is anticipated that the model will serve as a helpful foundation for scholars in the future who are interested in researching related subjects.

Maninová (2013) introduced in 2002, Moodle (Modular Object-Oriented Dynamic Learning Environment) was designed as an aid for social and constructive approaches to education. It can be applied to assist with distance learning, part-time, and full-time studies. It is available without cost as free and open software under the terms of the GNU General Public Licence, and it can be used on any desktop, tablet, or smartphone that has an Internet-connected web browser.

Šín (2013) the Université catholique de Louvain developed this open-source learning management system in 2000. As a result, the Claire Consortium was founded in 2007 and presently comprises 15 universities, the majority of which are in Belgium and France. This explains why the system's first language was French and English was used as a second language. The LMS's main advantages are its ease of use, cogent execution of individual functions, and simple management. The learning curriculum's themes are organized into files and provided either individually or by being compressed into a single folder if several files are uploaded. This characteristic is regarded as a system vulnerability since it could lead to technical issues while trying to access the content. The standard requirements like those of other LMSs are reflected in test results on different types and formats. The biggest drawback is that there is no command of the Czech language.

In 2005, EDUCAUSE conducted a study of the LMS used by over 12,000 college students. Researchers found that student attitudes toward their CMS were overwhelmingly positive (Amalia, 2018; Kvavnik and Caruso, 2005). The features of the CMS that students used most often and rated the most valuable were the ability to keep track of grades, access sample quizzes, class readings, and syllabi, take tests online, turn in assignments online, and get assignments back with feedback and grades. Interestingly, students did not rate online discussion board assignments nearly as high. These findings support the notion that students place the highest value on those features that make their lives easier and their learning more convenient (Piña *et al.*, 2008).

In 2004, EDUSAT: GSAT-3 was launched. EDUSAT is intended for distance classroom instruction from the elementary school level to higher education. This was the first "Educational Satellite" that provided the country with satellite-

based two-way connections to classrooms for the delivery of educational content. This is a 1-2-k Bus-based geosynchronous satellite. GSAT-3 shared 74° E longitude with METSAT (KALPANA-1) and INSAT-3C (Dharanshankumar, 2020; Edusat 2004).

In 1997, the Blackboard LLC Company was founded, specializing in technological standards and consulting for online learning (Belanger, 2004). This strategy emphasizes the display of study materials, references, syllabuses, and other information in a user-friendly environment. In 2005, the rival WebCT Company and Blackboard Inc. combined. Currently, approximately 20 million people utilize Blackboard for online learning in more than 60 countries. The system is utilized by over 20,000 educational institutions and is accessible in over 50 languages. In a 2004 survey conducted at Duke University in the United States, 85% of students noted that the system was easier to access and more readily available online.

Luckyardi and Rahman (2021) study is to determine the positive effects of e-learning systems on improving student's understanding of concepts and comparing e-learning with old learning systems. Nowadays, the internet is one of the ways to find pieces of information easily without reading books and attending classes. The method used in this research is the literature study method by obtaining information and data from various sources. The results from this study are that e-learning can improve students' cognitive abilities as it is easier to access words, PowerPoint, HTML, or PDF in the application. The conclusion is that e-learning can be used as a learning innovation that can help teachers and students using the Software Learning Management System.

As the most potent tool for social and economic growth, methodological methods and endeavors to achieve excellence in higher education are undergoing significant changes, both technologically and otherwise (Kpolovie and Lale, 2017). The university curriculum must be modified to reflect the needs of the Revolutionary Information Age in order for the institution to take the lead in the rapidly evolving fields of globalization, internationalization, and digitalization. Higher education institutions (HEI) throughout Europe, North America, South America, Asia, Oceania, and the majority of Africa use LMSs for various purposes. In today's dynamic, globalized digital information economy, there is an ever-increasing and aggressive need for LMS in Third World countries, just as there is in Developed World countries. Unfortunately, though, because of a lack of knowledge about LMS usage, acquisition locations and procedures, and the most widely used LMSs worldwide, no Nigerian university now uses LMSs. In order to satisfy the demands of the Revolutionary Information Age for internationalization and globalization, this research sought to offer universities the necessary information to easily purchase, develop, and use LMSs for the efficient delivery of higher education.

Business intelligence is not as well-liked as electronic learning, or e-learning, among the myriad technologies that assist knowledge management. With the swift advancement of contemporary communications and information technology, along with the growing need to establish and preserve company continuity skills, e-learning has become a feasible option for ongoing, on-demand instruction and organizational learning (Liu and Wang, 2009). It is imperative that organizations use well-researched theories and technologies that are appropriate for their organizational setting when designing and developing an efficient e-learning system. Our research revealed that numerous critical success factors (CSFs) contribute to the success of an e-learning system, with technology playing a pivotal role in this regard. In addition, we carried out a comparative analysis of e-learning theories, products, and technology from the viewpoints of Chinese and Western practitioners. The ways Chinese practitioners are creating e-learning theories, technologies, and products have unavoidably become a focus point in the information technology industry due to China's rapid economic expansion and quick adoption of communications and information technology. We highlight the trends in e-learning system development and stress the significance of appropriate theories in directing the development of e-learning systems through an examination of the available e-learning technologies and products.

3. Types of Various LMS Systems

Learning management system (LMS) examples have been adopted by organizations all around the world. This is due to their smooth procedures of delivering training and customizing it to the demands and needs of learners. In this essay, we'll go over what an LMS is and how it might benefit your organization (Daniel Brown, 2023).

4. Specialization of LMS Systems (Pro Profs Training Makers, 2023)

An LMS makes it simple to keep your learners involved by offering features such as learning paths, brain games, quizzes, surveys, self-paced micro-learning on portable devices, and collaborative social learning.

Table 1: Learning Management System, Services and Features			
S. No.	Name of the LM Systems	Services	Feature
1.	EdApp	Open Access	ECORM
2.	Schoology education platform (K12)	Open Access	Like Facebook
3.	It's Learning (K12)	Corporate	Like EdApp
4.	Kadenze (College Courses)	Corporate	Video-based lecture
5.	ATutor	Open Access	Gamification
6.	EthosCE (Health Care Professionals)	Corporate	Accreditation Program
7.	WiziQ (Employees)	Corporate	Multimedia base
8.	Spongelab (Digital Learning)	Corporate	Multimedia base
9.	Sakai	Open Access	Like ATutor
10.	Edmodo (K-12)	Corporate	Remote Class
11.	Omnify (online Booking System-Classes)	Corporate	On-Line System
12.	Violet LMS (Employer on-board Training)	Corporate	Business & Training
13.	Loop (ERP)	Corporate	Auto Training
14.	Learnbook (Market, Finance, Foodservice)	Corporate	Management Training
15.	EduBrite (Professional Training)	Corporate	Like google suite
16.	Formal LMS (for employees)	Corporate	Training Courses
17.	ProProfs (for Trainers)	Corporate	Gamification
18.	LearnAmp (Auto Trainer Deployment)	Corporate	Training material
19.	Abara LMS (Dissertation Writing Services)	Corporate	Academic Upliftment
20.	Claroline	Open Access	Using EU Universities
21.	Moodle	Open Access	Higher Education
22.	Blackboard (for PG Studies)	Corporate	60 Countries using
23.	Enterprise Knowledge Platform	Corporate	Train to Teach
24.	Axle	Corporate	Teaching Learning
25.	Edmingle	Corporate	Teaching Learning

- a. Course Creator for Simple Content Creation:** The capacity to create courses is one of the most fundamental features of a learning management system. It allows you to create professional-looking courses in minutes. You can include audio, video, and other types of multimedia files. Training materials in Word or PDF format can also be uploaded.
- b. Using a Content Library to Save Time When Creating Courses:** Some LMS providers feature a course library that has been professionally designed. These resources are generally ready to use with or without alteration. These LMSs can help you save time on course building.
- c. Management of Users and Groups for Ease of Administration:** A learning management system, like traditional classrooms, allows you to organize learners into groups based on training type, department, location, position, and other parameters.

- i. You may easily assign them classes.
 - ii. To administer learner groups, add group administrators.
 - iii. Allowing student self-registration saves time and effort.
 - iv. Invite course participants in bulk.
 - v. Send course due date and certificate expiry alerts.
- d. Tests to Determine Knowledge Retention:** Regular evaluation remains essential in any outcome-based eLearning software or program. This is true whether you are training five or 500 people. With the use of online quizzes, you should be able to track your progress towards your L&D objectives.
- e. Real-Time Reporting and Analytics:** An AI-powered LMS delivers comprehensive reports and statistics for instant data visualization of your learners' progress, performance, milestones, and difficulties. This LMS reporting function provides you with immediate access to actionable learning data. View aggregated reports for individuals and groups. These reports provide a bird's-eye perspective of your students' grades in the form of a grade book. Similarly, you can filter reports by time, such as today, yesterday, and the last seven days. View only what you need without having to navigate up and down a report.
- f. Mobile Learning for On-the-Go Learning:** One of the biggest aspects of a Learning Management System is that it allows users to access training materials and exams on mobile devices such as smartphones and tablets. It also encourages them to finish their courses on schedule and aids in memory retention. This strong technology is extremely beneficial because it allows for self-paced microlearning on personal devices rather of being confined to a workstation. This is useful for construction and manufacturing workers. Remove frequent scheduling obstacles and allow learners to learn at their own pace if they meet the deadlines.
- g. Multilingual Assistance for Training a Global Audience:** Language is one of the most important elements that influence learners' decision to enroll in a course. Ascertain that the learning management system you select supports several languages. Remove linguistic barriers and instruct students in the language of their choice. Make your system available in multiple languages. This will allow you to quickly teach or train a global audience.
- h. Personalised Learning Pathways to Improve Learner Productivity:** You can use an LMS to construct personalized learning paths that provide a comprehensive overview of your courses. For a more seamless learning experience, group your previous courses into specific subjects and organize them in a logical sequence. Allow your students to take courses in descending order of difficulty to help them excel in a specific subject. Allow them to collaborate with their learners and teachers to resolve doubts at each learning point.
- i. Group Discussion & Knowledge Sharing Collaboration Tools:** Most LMS software has a social learning element. It encourages collaborative learning, which is an important component of modern education. Create an online learning community and support live discussions and group problem-solving. Increase learners' confidence and promote higher-level thinking skills through peer-to-peer learning.
- j. Reminders and Announcements to Maintain Compliance:** Other important aspects of a training LMS include reminders and announcements. They allow students to meet course completion or credential expiration deadlines. This feature allows instructors to define a completion date for courses or quizzes. They can also specify when certificates expire. This is a simple way to assure continuous compliance and increase course completion rates.
- k. Connectivity to Take Advantage of Software Interoperability:** Imagine having the advantages of two tools seamlessly combined into one platform. That is made feasible by a learning management system. Eliminate the continuous platform swapping. Robust connections with widely used tools like CRMs and CMSs enable LMS users to benefit from software interoperability and enhance the already potent capabilities of these learning resources.
- l. Security and Authorization for Controlling Access:** Security settings for some of the best cloud-based LMS training systems on the market today are simple to adjust. It is possible to assign roles and permissions to users and set up secure access control. Additionally, you can manage user login with REST API and Single Sign-On (SSO). You can use password protection to keep your courses private or public. A cloud LMS that complies with GDPR protects personal data protection and fosters client confidence.

5. Conclusion

Based on different platforms, LMS offers multiple learning systems approaches, including learning process management, learner assessment, notifications, analytics, certifications, and competencies management. These are the primary goals

of every LMS function²⁵. They can answer queries, address issues, and make the environment more user-friendly by achieving these goals. These only highlight its significance and fresh application to the forthcoming occurrences via new technological advancements. The output illustrates the institutional usage and user interest for their basic needs in a variety of scenarios. Several LMSs with sufficient quality exist on the market, according to the prior analysis, and they may serve as a solid foundation for an e-learning solution. Like the traditional approach, the size and equipment of the school building are not as important as the instructor and student's ability to mediate knowledge. The foundation of the teaching process is the learner-centered approach, which entails providing the student with learning materials and instructor assistance to help them acquire new information. According to this analysis, LMS has good qualities and will shine in future attempts. It might take a few years to adopt globally for teaching-learning purposes across all university types, including technical, educational, and college-level institutions.

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