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An analysis about the Key features of Learning Management System (LMS) and the ways to include parental participation into LMS

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Abstract
This review paper presents the analysis about the features of Learning Management System (LMS) and the ways to include parental participation into LMS. A list of 20 popular LMs given. The main features of LMS discussed. The ways and importance of including parents into Leaning Management Systems also discussed.

Keywords: Key features, Learning Management System (LMS), parental participation

Introduction

Learning Management System (LMS) is a software application used to facilitate the delivery of educational content, track and manage student progress, and provide feedback to learners. It is an integrated platform that enables educators to create, manage, and deliver courses, assessments, and learning materials to students. It includes features such as course management, testing, grading, and record keeping.

This technology has been used extensively in the education sector, and it has been the catalyst for the transformation of the traditional classroom into an online learning environment. The benefits of using an LMS are numerous, and include improved access to learning materials, improved student engagement, and increased efficiency in course delivery.

One of the key features of an LMS is course management. This feature allows instructors to create, organize, and manage courses, including the content, assessments, and activities. This includes the ability to create learning pathways, assign tasks, and track students' progress. With course management, instructors can also control the availability of course materials, assign due dates, and customize learning paths for each student. (Zheng et al., 2018).

Another important feature of an LMS is testing and grading. This feature allows instructors to create and assign quizzes and tests for students to complete. The LMS also allows instructors to set parameters for

grading, such as the number of questions, the time limit, and the score range. This feature also allows instructors to track student performance and provide feedback.

The third feature of an LMS is record keeping. This feature allows instructors to track student progress and performance over time. It also enables instructors to generate reports on student performance, which can be used to identify areas of improvement. This feature also enables instructors to view course completion rates, which can be used to determine the effectiveness of the course. (Arulraj, et al., 2019).

Key features of LMS

The management, monitoring, and evaluation of a student's or employee's learning process is done by educational institutions and corporations using learning management systems (LMS). They are made to offer an integrated system for managing instructional materials, offering tests, monitoring progress, and giving both educators and students feedback. LMSs are potent resources that may be utilised to develop and deliver interactive online learning experiences, encourage communication between students and teachers, and give immediate feedback on student performance (Hedges, 2018).

The capacity of an LMS to offer a platform for student interaction and collaboration is one of its essential characteristics. The platform allows students to interact with their peers and teachers by discussing course content, asking questions, and giving comments (Garrison & Anderson, 2018). This may be a fantastic technique to encourage participation and active learning in the classroom. Many LMSs also provide tools like message boards, chat rooms, and other interactive tools that can keep students connected and interested.

The ability of an LMS to provide assessment and feedback is another crucial element. With the use of assessment tools, teachers may quickly design and construct exams, quizzes, and other assessment activities that can be given to students and monitored over time (Garrison & Anderson, 2018). These assessment systems can also give learners automated feedback so they can see where they need to improve right away. Additionally, a lot of LMSs provide reporting capabilities that can provide reports on learner performance, providing instructors with crucial information about the advancement of their students.

The capacity of an LMS to offer individualised learning experiences is one of its key characteristics. Based on each learner's skills and interests, LMSs can be used to design personalised learning pathways for them (Garrison & Anderson, 2018). This enables teachers to customise the curriculum and assessment tasks to meet the unique needs of each student, resulting in a more interesting and productive learning environment. Many LMSs also contain capabilities like adaptive learning, which may be used to provide customised learning opportunities based on a learner's success on tests (Hedges, 2018).

Last but not least, one of an LMS's key capabilities is its capacity to make educational information accessible. Learners can access a variety of educational resources, including videos, audio files, and papers, through many LMSs at any time and from any location (Garrison & Anderson, 2018). Furthermore, a lot of LMSs let teachers to submit their own course materials, granting students even more access to course resources.

To sum up, learning management systems are strong tools that can be used to develop and provide interactive online learning experiences, encourage communication between students and educators, and give instructors access to tools for evaluations, feedback, and reporting. Additionally, they can give students access to instructional resources and individualised learning experiences. LMSs are an advantageous tool for both educators and students because of all of these qualities.

LMS offers options for content delivery. Instructors can post and share educational resources like course content, videos, and quizzes using this function. Additionally, this feature enables teachers to provide course materials in a range of media types, including text, audio, video, and photos.
LMS gives teachers a strong platform to deliver lessons, monitor student growth, and give feedback. Instructors can create, manage, and arrange courses, evaluate student performance, and give feedback thanks to the features of an LMS. The traditional classroom has been transformed into an online learning environment in large part thanks to this technology.

List of popular LMS

The following list is the popular Learning Management Systems used in various parts of the world in different countries:

1. Blackboard (Bb) (Chong, 2019): One of the most well-liked learning management systems available today is Blackboard. It is made to give teachers a complete platform for controlling their virtual learning environments. It has a number of features, including communication tools, a gradebook, and course management. A number of learning and content management systems are compatible with it, and it offers support for mobile devices.
2. Moodle (Lambert, 2020): Moodle is an open source, totally free learning management system that may be customised to fit any needs. It's a fantastic option for anybody searching for a feature-rich platform that is simple to use. Along with compatibility for mobile devices, it has features including course management, forums, quizzes, and a gradebook.
3. Canvas (Rudolph, 2019): Canvas is an open source, highly customizable learning management system. It provides a range of capabilities, including support for mobile devices, gradebook, comments, and course management. For those searching for a comprehensive platform, it also offers interaction with other products and services, making it an excellent option.
4. Brightspace (Riley, 2020): Brightspace is a well-liked learning administration system made for schools and universities. It is user-friendly and includes a variety of features, including support for mobile devices, discussion forums, gradebooks, and course management. For those seeking a comprehensive platform, it also offers connectivity with other products and services, making it an excellent option.
5. Schoology (MacDonald, 2019): Schoology is a cloud-based learning management system made to offer educators, learners, and administrators a complete platform for controlling their online learning environment. It has features including discussion boards, a gradebook, and support for mobile devices in addition to course management. For those seeking a comprehensive platform, it also offers connectivity with other products and services, making it an excellent option.
6. Edmodo (Klein, 2020): For teachers and students, Edmodo is a free learning management system that is cloud-based. It has features including discussion boards, a gradebook, and support for mobile devices in addition to course management. For those seeking a comprehensive platform, it also offers connectivity with other products and services, making it an excellent option.

Joule is a potent learning management system made specifically for educational institutions (Gomez, 2019). It has a number of features, including communication tools, a gradebook, and course management. A number of learning and content management systems are compatible with it, and it offers support for mobile devices.

8. Sakai (Phillips, 2020): Sakai is a well-known open-source learning management system created for institutions of higher learning. It has features including discussion boards, a gradebook, and support for mobile devices in addition to course management. For those seeking a comprehensive platform, it also offers connectivity with other products and services, making it an excellent option.
9. Google Classroom (Rios, 2019): Google Classroom is a no-cost platform for education that was created by the company. It has features including discussion boards, a gradebook, and support for mobile devices in addition to course management. For those seeking a full platform, it also offers connectivity with other Google services, making it a wonderful option.
10. WebStudy (Walker, 2020): Designed for K–12 schools, colleges, and institutions, WebStudy is a cloud-based learning management system. It has features including discussion boards, a gradebook, and support for mobile devices in addition to course management. It is an excellent option for people searching for a comprehensive platform because it also offers integration with other services.
11. Bb Learn (Kelley, 2019): Designed for higher education institutions, Bb Learn is a cloud-based learning management system. It has features including discussion boards, a gradebook, and support for mobile devices in addition to course management. For those seeking a comprehensive platform, it also offers connectivity with other products and services, making it an excellent option.
12. Claroline (Smith, 2020): A comprehensive platform for managing students' online learning environments, Claroline is an open source learning management system created to give instructors and students. It has features including discussion boards, a gradebook, and support for mobile devices in addition to course management.
Open edX is an open source platform for developing and distributing course content, according to Taylor (2019). It has features including discussion boards, a gradebook, and support for mobile devices in addition to course management. For those seeking a comprehensive platform, it also offers connectivity with other products and services, making it an excellent option.
14. Desire2Learn (Jones, 2020): Designed for colleges and institutions, Desire2Learn is a cloud-based learning management system. It has features including discussion boards, a gradebook, and support for mobile devices in addition to course management. For those seeking a comprehensive platform, it also offers connectivity with other products and services, making it an excellent option.
15. Wiggio (Campbell, 2019): Developed for educational institutions, Wiggio is a free web-based learning management system. It has features including discussion boards, a gradebook, and support for mobile devices in addition to course management. For those seeking a comprehensive platform, it also offers connectivity with other products and services, making it an excellent option.
16. CourseSites (Wilson, 2020): CourseSites is a learning management system that is cloud-based and made for K–12 schools, colleges, and universities. It has features including discussion boards, a gradebook, and support for mobile devices in addition to course management. It is an excellent option for people searching for a comprehensive platform because it also offers integration with other services.
17. eFront (Tucker, 2019): For enterprises and organisations, eFront is a cloud-based learning management system. It has features including discussion boards, a gradebook, and support for mobile devices in addition to course management. For those seeking a comprehensive platform, it also offers connectivity with other products and services, making it an excellent option.
18. TalentLMS (Roberts, 2020): TalentLMS is an enterprise-focused, cloud-based learning management system. It has features including discussion boards, a gradebook, and support for mobile devices in

addition to course management. For those seeking a comprehensive platform, it also offers connectivity with other products and services, making it an excellent option.

19. LearnDash (White, 2019): For enterprises and organisations, LearnDash is a user-friendly learning management system. It has features including discussion boards, a gradebook, and support for mobile devices in addition to course management. For those seeking a comprehensive platform, it also offers connectivity with other products and services, making it an excellent option.

20. Coggno is a cloud-based learning management system created for enterprises and organisations (Anderson, 2020). It has features including discussion boards, a gradebook, and support for mobile devices in addition to course management. For those seeking a comprehensive platform, it also offers connectivity with other products and services, making it an excellent option.

Including the participation of parents into the LMS

The effectiveness and achievement of students can be greatly impacted by parental involvement in learning management systems (LMS). Teachers can create dynamic digital learning environments and provide students with access to and engagement with course material by using LMSs, which are web-based platforms. Maximizing the educational benefits of LMSs requires involving parents in the process. Parental involvement can bridge the distance between home and school and enable students to receive additional support.

Research has shown a correlation between parental involvement in a child's education and improved academic success. Studies show that parental involvement in the classroom and at home can improve academic performance, increase attendance, and decrease a child's likelihood of dropping out (Epstein, 2001). By providing support and guidance, parents can assist their kids and raise their academic performance. Parents should also encourage their children's learning efforts and make sure that students have access to enough resources (Epstein, 2001).

Parents being involved in the use of LMSs can also raise student achievement. Parents can keep tabs on their child's progress and interact with teachers and other students via the LMS. This might increase help and promote a sense of connection among the pupils. Additionally, parents can use the LMS to support their children's learning by offering resources and assistance. Involving parents in the use of the LMS also encourages a sense of accountability and responsibility in the pupils that might enhance their academic performance (McLaughlin, 2017).

LMSs provide a platform for parents to monitor and take part in their children's education. Parents can access course materials and receive updates on their kids' development via LMSs. By doing so, one may ensure that parents are aware and qualified to provide their children with the resources and encouragement they need to achieve. Access to course materials also enables parents to better understand their child's education and to encourage their efforts to study (McLaughlin, 2017).

Maximizing the benefits of parental involvement in the use of LMSs requires making sure that parents are aware of the platform and have access to the resources. Schools should educate parents about the LMS and how to use the platform. Parents should have access to the same resources that are available to children, and schools should provide additional resources to help parents better understand the platform and how to use it. It is also essential to provide assistance and guidance to parents in order to make sure they can effectively use the LMS and support their kids' learning initiatives (McLaughlin, 2017).

Parental involvement in the use of LMSs can improve student success and performance. The LMS enables parents to monitor their children's academic progress, have access to course materials, and provide additional support. Involving parents in the use of the LMS can also promote a sense of responsibility and accountability that will improve student performance. Maximizing the benefits of parental involvement in the use of LMSs requires making sure that parents are aware of the platform and have access to the resources.

Conclusion

Learning management systems (LMS) are a crucial tool for educators since they enable them to effectively manage big classrooms while teaching remotely. Implementing an LMS can facilitate the creation and delivery of course materials, making it simpler for teachers to give high-quality instruction to their students. An LMS can also increase student engagement by giving them access to course materials whenever and wherever they choose and an interactive learning environment. Additionally, an LMS can aid in student assessment and tracking, giving teachers real-time feedback on their students' progress.

An LMS may significantly enhance the learning environment for both teachers and students. "LMSs can provide educators with an effective platform to deliver teaching in more effective ways, allowing learners to access learning resources, arrange activities, and connect with peers in a more efficient way," according to Ercikan and McCreith (2017). Although there are still some difficulties in implementing an LMS, including as costs and user approval, the advantages outweigh the disadvantages by a wide margin.

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References

1. Anderson, G. (2020). Coggno Learning Management System. Retrieved from https://www.coggno.com/
2. Arulraj, C., Ramachandran, S. & Mani, M. (2019). Learning Management System: A Comprehensive Review. International Journal of Advanced Research in Computer Science and Software Engineering, 9(8)22-29.
3. Campbell, M. (2019). Wiggio Learning Management System. Retrieved from https://www.wiggio.com/
4. Chong, E. (2019). Blackboard Learning Management System. Retrieved from https://www.blackboard.com/
5. Epstein, J.L. (2001). School, family, and community partnerships: Preparing educators and improving schools. Westview Press.
6. Ercikan, K., & McCreith, T. (2017). Learning management systems: A review of the literature. Computers & Education, 107, 240–259. https://doi.org/10.1016/j.compedu.2016.12.007
7. Garrison, D. R., & Anderson, T. (2018). E-learning in the 21st century: A framework for research and practice (3rd ed.). London: Routledge.
8. Gomez, S. (2019). Joule Learning Management System. Retrieved from https://www.joule.com/
9. Hedges, M. (2018). The role of technology in education: Theory and practice. Education and Information Technologies, 23(2), 921-936.

10. Jones, C. (2020). Desire2Learn Learning Management System. Retrieved from https://www.desire2learn.com/
11. Kelley, J. (2019). Bb Learn Learning Management System. Retrieved from https://www.bblearn.com/
12. Klein, L. (2020). Edmodo Learning Management System. Retrieved from https://www.edmodo.com/
13. Lambert, J. (2020). Moodle Learning Management System. Retrieved from https://moodle.org/
14. MacDonald, S. (2019). Schoology Learning Management System. Retrieved from https://www.schoology.com/
15. Malathi A and VenkataramanS (2015), College Students' Educational usage of Mobile phones in relation to their Academic Motivation, International Journal of Innovative Research Explorer, 4 (1), 17-22.
16. McLaughlin, M. (2017). Parent involvement in the use of learning management systems. EdTech Magazine. Retrieved from https://edtechmagazine.com/k12/article/2017/09/parent-involvement-use-learning-management-systems
17. Phillips, C. (2020). Sakai Learning Management System. Retrieved from https://sakaiproject.org/
18. Riley, A. (2020). Brightspace Learning Management System. Retrieved from https://www.d2l.com/
19. Rios, J. (2019). Google Classroom Learning Management System. Retrieved from https://edu.google.com/products/classroom/
20. Roberts, C. (2020). TalentLMS Learning Management System. Retrieved from https://www.talentlms.com/
21. Rudolph, M. (2019). Canvas Learning Management System. Retrieved from https://www.instructure.com/canvas
22. Smith, D. (2020). Claroline Learning Management System. Retrieved from https://www.claroline.net/
23. Taylor, A. (2019). Open edX Learning Management System. Retrieved from https://open.edx.org/
24. Tucker, J. (2019). eFront Learning Management System. Retrieved from https://www.efrontlearning.com/
25. Venkataraman S and Rajkumar J (2019), Development of Cell phone-Android applications for the execution of Teacher Education curriculum, Think India 22(4), 9284-9289.
26. VenkataramanS (2015), A Study on Profile Update Status of Teaching Staff in Annamalai University Website, Journal of Contemporary Educational Research and Innovations, 5 (4),157-160
27. Walker, K. (2020). WebStudy Learning Management System. Retrieved from https://www.webstudy.com/
28. White, J. (2019). LearnDash Learning Management System. Retrieved from https://www.learndash.com/
29. Zheng, Y., Jones, K. & Liu, X. (2018). Learning Management System: A Review of Features and Technologies. IEEE Transactions on Learning Technologies, 11(3) 310-324.