HUMANITY IN FLUX; ADAPTING EDUCATION TO CONTEMPORARY CHALLENGES AND NURTURING MODERN MINDS FOR TOMMORROW

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Abstract:

In this modern era, education faces various challenges that are contemporary in nature, so there is a need for new innovations in dealing with the increasingly dynamic development of the world of education. Learning Management System (LMS) consists of Google Classroom and Zoom Platform. The relevant theory related to the research entitled "Humanity in flux; Adapting Education to Contemporary Challenges and Nurturing Modern Minds for Tommorrow" is the theory of constructivism. Various ways that can be done in facing various challenges in the world of education that are contemporary in nature, is by doing distance learning. Then, modern technology such as Learning Management System (LMS) emerges as a potential solution. Learning Management System (LMS) can be done with Google Classroom and Zoom Platform. With the help of technology and the internet, we can see a potential solution to contemporary education challenges. Technology and digital with its various advanced features and functions, help to create a more inclusive and interactive learning environment, making teaching and learning more efficient and effective.

Keywords: *Education, Contemporary Challenges, teaching and learning*.

INTRODUCTION

Humans are basically dynamic creatures that process and cannot be separated from the influence of nature and the needs associated with it. Humans are basically creatures that interact and influence each other. In the world of education, human resource management is a very important thing to implement. Without human resource management, an organization in general will have difficulty in achieving its goals, as well as in the world of education. Human resource management is the most important element in management because human resources are the first element in management before other elements. The role of human resource management in the world of education is certainly very contributing in helping to improve the quality of education, because quality education comes from the people who manage education itself are quality human resources as well (AKILAH, 2018). Quality human resources are needed to face challenges in the contemporary world of education.

In this modern era, education faces various challenges that are contemporary in nature, so there is a need for new innovations in dealing with the increasingly dynamic development of the world of education. One of the ways that can be done to face the challenges in the world of education that continues to grow is by doing distance learning. However, modern technology such as Learning Management System (LMS) emerges as a potential solution. Learning Management System (LMS) consists of Google Classroom and Zoom Platform.

According to a study published in the International Journal of Educational Technology in Higher Education, distance learning has become a key element and integral part of contemporary education. The study emphasizes how this method of learning has expanded and evolved rapidly, influencing educational structures and approaches around the world. Nonetheless, distance education also brings with it a unique set of challenges that need to be addressed. The main issues include accessibility and lack of interaction in the face-to-face learning process. Accessibility is a big challenge, especially for students who are in remote areas or who do not have stable internet access. These obstacles must be properly addressed in order to provide a solution to the increasingly dynamic development of education.

Distance learning can be done by using the internet. The use of the internet as a learning tool can make one way to launch distance learning. This of course requires the participation of human resources, namely teachers in its management so that the use of the internet can be well directed and in accordance with the learning process. The directed use of the internet can make distance learning successful (Atmoko Nugroho, 2012).

Learning methods adapting education to these contemporary challenges have become widespread and rapidly evolving, influencing the structure and approach of education worldwide. Learning Management System (LMS) is emerging as a potential solution as well. Furthermore, an LMS is not just about delivering digital learning materials, but also supporting interactivity that is essential in the learning process. With powerful communication and collaboration features, such as discussion forums, live chat, and group collaboration tools, an LMS changes the way students interact with learning materials, teachers, and their peers. With these capabilities, an LMS serves as a bridge that connects the gaps that exist in modern education.

Through advanced and user-friendly features and functions, the LMS creates a more inclusive, interactive and customized learning environment, which can meet the various needs of students and teachers. By doing so, LMS opens up new opportunities in education and contributes greatly to improving the quality and effectiveness of the teaching and learning process. Virtual Class allows learning to be done anytime and anywhere. Virtual class is an online learning environment that contains all the necessary materials where students and lecturers can still interact without space and time constraints. Currently, many Learning Management Systems (LMS) have been developed that can be used as Virtual Class tools (Sudiana, 2016). One of the concrete proofs of technology utilization in learning management during the pandemic is the use of Learning Management System or often known as LMS in carrying out learning activities (Gusti, 2022).

There are various ways that can be done to face the challenges of today's education world with various contemporary educational challenges. Then how can we do to deal with it? Therefore, it is necessary to have modern thoughts by human resources that are poured in the form of innovation to face the challenges in the development of the world of education. According to the author, one way that can be done is distance learning / education and such as the Learning Management System (LMS). Based on the things that the author has described above, the author feels the need to make a research entitled *"Humanity in flux; Adapting Education to Contemporary Challenges and Nurturing Modern Minds for Tommorrow"*.

RESEARCH METHODS

The relevant theory related to the research entitled "Humanity in flux; Adapting Education to Contemporary Challenges and Nurturing Modern Minds for Tommorrow" is the theory of constructivism. Constructivism is a philosophy of knowledge that emphasizes that knowledge is our own making. Knowledge is not a copy of reality, nor is it a picture of the real world that exists. Knowledge is the result of cognitive construction through individual activities by creating structures, categories, concepts and schemes needed to form the knowledge (Cahyo, 2013).

Constructivism theory holds that knowledge cannot just be transferred, but must

be interpreted by each individual. Knowledge is also not something that already exists, but a process that develops continuously. In this process, a person's activeness is very decisive in developing his knowledge. Because, in reality, there are still many students who misunderstand something given by their educators.

According to Agus N. Cahyo constructivism is actually not a new idea. Because something that is passed in our lives so far is the collection and development of experience after experience. Therefore, a person becomes knowledgeable and more dynamic. Constructivism theory has characteristics in learning, namely that individuals construct their own learning information. Individuals will receive and convert the information they get into their own understanding. In processing their own understanding, individuals always compare one information with another. Discovery learning is where learners are encouraged to learn through active engagement with predetermined concepts and principles. Meanwhile, educators encourage learners to have experiences and conduct experiments that allow them to discover principles for themselves.

According to Suparno, the principles of constructivism are outlined (1) knowledge is built by students themselves, both personally and socially; (2) knowledge is not transferred from teacher to student, except with the student's own activeness to reason; (3) students actively construct continuously, so that concept changes occur towards concepts that are more detailed, complete, and in accordance with scientific concepts; (4) the teacher's role is to help provide facilities and situations so that the student construction process runs smoothly (Suparno, 1997).

Constructivism theory emphasizes the fact that experience is the main source of knowledge in people's lives. Constructivism is a learning theory that states that individuals' mental abilities and activities help in building their knowledge base. Constructivism learning theory studies about building perspectives on things and constructing meaning based on our experiences. The constructivism approach is heavily influenced by a person's age and mental abilities, and may not always be accurate. But as a person develops, it becomes more complicated and realistic. This theory is very appropriate to use in the research entitled "Humanity in flux; Adapting Education to Contemporary Challenges and Nurturing Modern Minds for Tommorow".

RESULTS AND DISCUSSION

Resources that must be prepared in facing the 5.0 era include the readiness of quality facilities and infrastructure that provide convenience in the implementation of learning. Likewise, the readiness of human resources in utilizing existing facilities and infrastructure. Educators, education personnel and students who are the human resources of education that must be considered. Especially the competence of educators in designing learning that can provide convenience to students in understanding learning. The professional competence of every educator must be prepared in facing the challenges of the current industrial revolution 5.0 era (Hayani, 2021).

In facing various challenges in the contemporary world of education, there is a need for new innovations that can facilitate learning. One of the ways that can be done is by doing distance learning. Then, modern technology such as Learning Management System (LMS) emerges as a potential solution. In the following, the author will examine one by one about distance learning and Learning Management System.

Distance Learning, In distance learning, lecturers can utilize WAG (WhatsApp Group) as an online learning model. The pattern of utilizing WAG (WhatsApp Group) is as a reference material in learning activities, developing teaching materials and learning media. Each lecturer is free to innovate and be creative in utilizing the WhatsApp menu according to needs and situations. By utilizing WAG (WhatsApp Group) as an online learning media in the learning process, it means that it has implemented digital and technological literacy competencies. This situation is in accordance with what is expected in education in the era of the industrial revolution 5.0, namely a generation that is technology and internet literate. The application of learning with online devices is also in line with the existence of Permendikbud Number 68 of 2014 concerning ICT educators

and educators of computer skills and information management in implementing the 2013 curriculum and Permendikbud Number 119 of 2014 concerning the implementation of Distance Education (PJJ) at the primary and secondary education levels (Hayani, 2021).

The use of WhatsApp Groups as a learning medium is still being used. The reason WhatsApp users choose this application is because of the various conveniences available in it. The following are the features and functions of WhatsApp: WhatsApp Web and Desktop: WhatsApp can also be used by users through a computer browser or directly on a computer provided that WhatsApp on the cell phone must be active. Voice and Video Calls: This feature can be used to make voice calls and video calls around the world using an internet connection. Calls can be made with 8 people directly. Photos and Videos: Users can share photos and videos with other users either personally or in groups, Audio: Users can use this feature to share sound files, Documents: Users can share documents with other users personally or in groups, End to End Encryption: This feature is for security system for users.

Advantages of Whatsaap Application WhatsApp media has several advantages, as for some of the advantages of whatsapp media, namely easy, practical, fast use, saving internet data and can be accessed only with a cellphone, which has different features that can be used to convey assistance such as the presence of new groups, whatsapp web, starred messages and settings with network access. The group menu option is used as a place for teachers to discuss with students with their friends in solving problems The use of whatsapp is very helpful for communicating activities in distance learning in the development of the contemporary world of education (Hayani, 2021).

Figure 1. WhatsApp Online Learning Platform

Number	Aspect	Indicator	Agree %	Disagree %
1	Lecturer	Lecturers' opinions about the implementation policy of WA-based learning	80 %	20 %
2	Parents	Parents' opinions about the WA-based learning implementation policy.	76.9%	23.1%
3	Students	Students' opinion about distance learning.	66.7%	33.3%

Figure 2. Observation Description

From the percentage above, it can be concluded that the teacher's readiness is very good even though it can only be done through WA as an alternative to distance learning implementation as much as 80%. Parents stated that they were ready for WA-

based learning as much as 76.9%. Students' response to WA-based learning is 66.7% agree.

Learning Management System (LMS) often also called Learning Management Platform in general is software designed to create, distribute, and organize the delivery of learning materials. Learning Management System is a web-based software program for the management, documentation, monitoring, reporting, administration and distribution of educational content, training programs, technical manuals, instructional videos or digital library materials, and learning and development projects.

Learning Management System has many benefits or advantages in the distance learning process, here are 10 benefits or advantages of LMS: Learning time is more efficient as online learning can be accessed anywhere and anytime. The cost of using LMS is cheaper than face-to-face learning. Facilitate lecture activities such as quiz, assignment, material upload, interactive discussion. Alternative online learning during the COVID-19 pandemic. Make it easier for lecturers to collect and analyze data on student lecture results in a shorter time. Make it easier for lecturers to find and organize lecture materials for students. LMS learning methods that use several information technologies in the form of images, sound, animation, video, and text make learning materials easier to understand and not boring. Encourage students to do independent learning. Learning content for students can be well documented and Facilitate interaction between lecturers and students with chat features and discussion groups.

With the development of learning management system (LMS). With the LMS, learning evaluation can be optimized, especially learning process evaluation. The presence of LMS is expected to reduce the "gap" between online and/or blended learning and conventional learning. The LMS that can be applied to online and blended learning is google classroom. The review of the discussion consists of the benefits and uses of google classroom, the utilization process, advantages and disadvantages, and supporting features. In addition, the application of google classroom in the learning process is presented in a simple, comprehensive, and applicable manner. LMS can be applied in the form of:

Google Classroom, Google classroom is a free digital e-learning platform that can be utilized as an LMS for online and blended learning. This LMS can be utilized by teachers, students, parents, practitioners, and the general public. Specifically for utilization in schools, this LMS provides features that can connect teachers, students, and parents to enable discussion and control between teachers, students, and parents; between teachers and students; and/or between teachers and parents. Before utilizing this LMS, prospective users (whether in the role of teachers, students, or parents) must have an accessible email. The steps for utilization are as follows: Prospective users can type "google classroom" in the google search box (Google Chrome or Mozilla Firefox) and then select google classroom or by visiting the website address "https://classroom.google.com". After searching, the prospective user will go to the account confirmation page as shown in Figure 1.1 below:

Google classroom is a Learning Management System (LMS) offered by Google. This application provides a central location to communicate with students, ask questions, and make assignments. In an increasingly digital world, google classroom helps facilitate online learning for digital learners today. Similar to many new applications, google classroom comes with a unique look and feel. Because of this method, the teacher organizes classrooms uniquely as teaching methods because the google classroom starts as a blank canvas (Ketut Sudarsana et al., 2019).

Google Classroom is a Google Apps for Education (GAFE) feature that was released on August 12, 2014. Google Classroom is a web-based way of creating virtual classrooms. Google Classroom can be used to transfer assignments, collect them, and even grade them (Shahroom & Hussin, 2018). Google Classroom is a free option which is available to anyone who creates a Google Application for Education account. Google Classroom is an extremely useful application for online education because it is completely free and can be used on any device. A feature that adds sophistication to the application is its ability to be used collaboratively in groups. There are several advantages

to using Google Classroom as a learning management system. (Soliman, 2014). Google Classroom can be accessed on a variety of platforms, including computers and mobile devices. Lecturers and students can access Google Classroom at https://classroom.google.com or via the Play Store on Android or the App Store on iOS by searching for the keyword Google Classroom (Abd. Syakur et al., 2020)
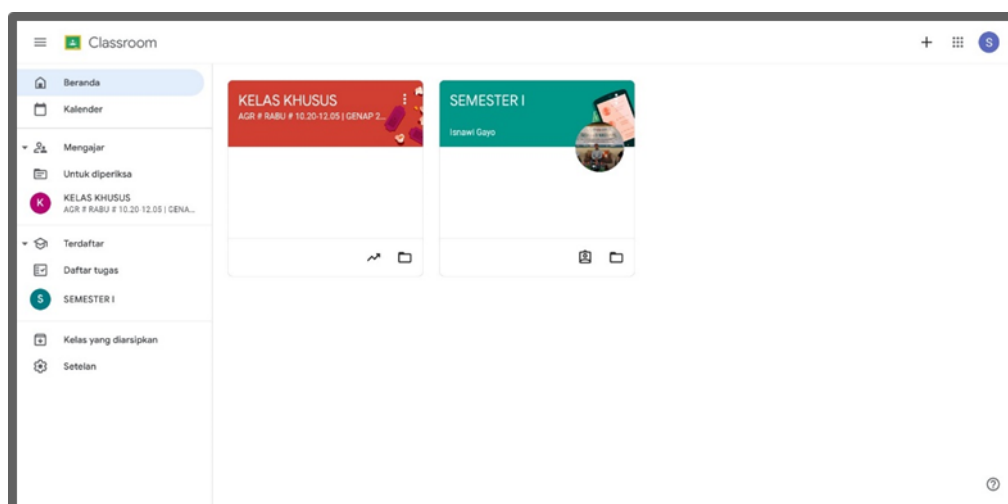

Figure 3. Google Classroom application

Figure 4. Google Classroom application

Zoom, Learning in this digital era requires learning and teaching to communicate interactively by utilizing information and communication technology, as well as using computer media and the internet, mobile phones with various applications, especially the zoom cloud meetings application (Buzzard, Crittenden, Crittenden & McCarty, 2011; Munir, 2017). Learning in this digital era is very much implementing a digital-based learning mechanism. This learning begins with planning, as well as the ways the learning material will be delivered. Learning in the digital era is now entering the industrial revolution 5.0 era, where the industrial revolution 5.0 era uses a technology that causes the biological and digital dimensions to form an indistinguishable blend. For example, two people can share without having to be in the same place or at the same time both physically and biologically. Hence the digitization of information and utilization in artificial intelligence (Putrawangsa, 2018; Shabbir & Anwer, 2015).

Onno W. Purbo explains that the term "e" or the abbreviation of electronic in elearning is used as a term for any technology used to support learning efforts via electronic internet technology (Onno, 2002). Zoom is a communication application

using video. The application can be used in a variety of mobile devices, desktops, to telephones and room systems. The features in the application include: HD video and audio by using this application, you don't need to worry about the resulting images and audio. The reason is, the Zoom application has been supported with high definition quality or often called HD. In addition, this Zoom application can also support up to 1000 participants and 49 videos on the screen. Built-in collaboration tools Multiple users can share the screen simultaneously and co-write notes for a more interactive meeting with the collaboration tools of the Zoom app. Security When it comes to security, users don't need to doubt it anymore. The reason is, this application has been supported with end-to-end encryption for all meetings that have been scheduled through the Zoom application. In addition, there is also password protection so that user security becomes safer. Recordings and transcripts Meanwhile, users can also record meetings conducted with Zoom and store them on their respective devices used or on cloud accounts. Furthermore, the recording can be found easily if you need it again. Read also: Zoom's Response to User Data Security and Privacy Issues. Scheduling feature This app also has a scheduling feature for starting meetings. In addition, you can also start meetings through your Outlook, Gmail, or iCal accounts.Team chat Chatting with groups can be done easily. Meanwhile, conversation history can also be easily searched, file sharing is integrated, and archives can be saved for ten years. This makes it easy for users to make calls from one user to another or group calls. To use this app, you can use both computer and mobile devices.
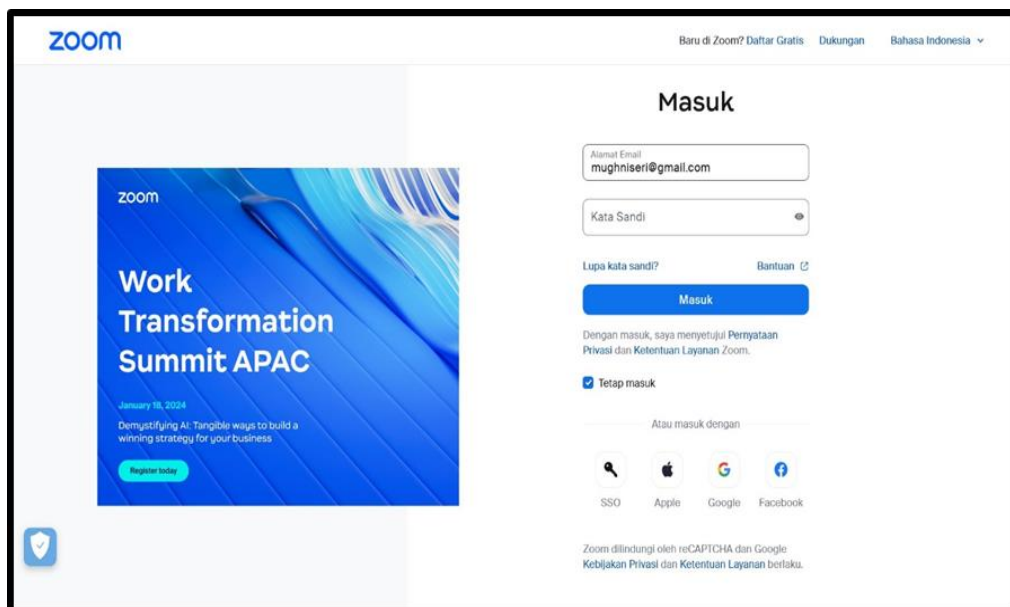

Figure 5. Zoom Platform Application

CONCLUSION

In this modern era, education faces various challenges that are contemporary in nature, so there is a need for new innovations in dealing with the increasingly dynamic development of the world of education. One way that can be done to face the challenges in the world of education that continues to grow. Some of the ways that can be done is by distance learning. However, modern technology such as Learning Management System (LMS) emerges as a potential solution. LMS can be applied in the form of: Google Classroom and Zoom Meeting. With the help of technology and the internet, we can see a potential solution to contemporary educational challenges. Technology and digital with its various advanced features and functions, help to create a more inclusive and interactive learning environment, making the teaching and learning process more efficient and effective.

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