

Innovation of Pedagogy: Development of Digital Classroom to Increasing Student's In Foreign Language Proficiency

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ABSTRACT

This study aims to develop a digital classroom to improve the foreign language skills of MA MUQ Langsa students in facing digital-based learning challenges according to the demands of the 21st century. To find out the effectiveness of using digital classes in foreign language learning. The method in this study is the research and development (R&D) method. The results of this study were testing foreign language learning materials with a score of 4.00 (good category) and media testing with media experts obtained a score of 4.00 (good category). Meanwhile, for random testing of students, a score of 4.00 (good category) was obtained. The average score obtained at the pretest was 38.88 and the posttest was 39.00. So that it can be explained from the results of alpha and beta testing and seeing the effectiveness of product development, it can be concluded that the product is feasible and effective for learning foreign languages. This of course will be very beneficial for teachers in transferring teaching materials and providing innovation in student learning spaces..

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1. INTRODUCTION

Education is one of the means to create quality human resources. Quality human resources are what will build a country so that it can improve the quality of a nation. The development of science and technology (IPTEK) besides influencing the industrial world also influences the world of education in Indonesia. Technology makes a positive effect not only on social life but also on education. As technology becomes increasingly prevalent in educational settings, there is an emerging expectation for educators to leverage digital tools to support classroom teaching. (Arif Wahyu Wirawan et al., 2017)

Education is a vehicle for forming young people who are smart, have character, the government continues to develop the quality of human resources, in Law Number 25 of 2000 concerning the National Development Program it is stated that there are three big challenges in the field of education namely:

1. Maintain the results of educational development that have been achieved;
2. Preparing capabilities in the field of human resources to be able to compete with changing times;
3. In line with the enactment of regional autonomy, the national education system is required to make changes and adjustments so as to create an educational process that is more democratic, pays attention to diversity, pays attention to the needs of students, and encourages increased community participation.(Uci Dwi Cahya, 2023)

Education units face enormous challenges in educating the younger generation to become intelligent and responsible generations. In addition to equipping the younger generation with basic academic knowledge and skills, educational units face the challenge of creating a positive learning environment as one of the determining factors for the effectiveness of teaching and learning activities and supporting factors for improving learning achievement. Considering the magnitude of the influence of the learning environment on the learning process and achievement, an appropriate assessment model is needed to photograph/obtain a picture of the learning environment in each educational unit. Another challenge faced by educational units is the formation of the character of students. (Uci Dwi Cahya et al., 2021)

In this era learning has many changes in various fields, namely science, education, and technology. The current learning process is students who come from the Z gene. The teacher's role as the center of attention is no longer suitable in this generation, so changes are needed so that students act as the center of attention, especially since students have diverse abilities. In today's learning, it is not only the teacher who is the main actor, but students are required to be the main actor in student learning. It is hoped that students now have to live more in learning, especially learning that has recently been widely applied, namely online-based learning or e-learning. (Maliki Amri et al., 2022)

School is an educational institution as a form of conscious effort in creating a learning atmosphere and learning process for students to be able to develop their potential. UUSPN No. 20 Th. 2003 defines learning as a process of interaction between students and educators and learning resources in a learning environment (Law No. 20 of 2003 concerning the National Education System). Relatively permanent abilities, attitudes, or student behavior as a result of experience or training. Thus it can be said that learning is part of the learning process that produces changes in a learner. Learning activities will not take place if there is no motivation in students. The size of the motivation to learn in students greatly affects student learning outcomes. The greater the learning motivation of students, the greater the learning outcomes obtained by students, and vice versa. For this reason, the role of the teacher as a constructional expert and motivator in the learning process is needed to create a pleasant learning atmosphere and can increase student learning motivation. (Hiwa Wonda et al., 2022)

Learning is not a goal, but a process to achieve a goal. The involvement of learning media in the learning process is expected to influence the learning experienced by students and the goals to be achieved in the learning itself. The use of learning media in the learning process will also contribute to optimizing the achievement of learning objectives.

Developments in technology and science rapidly affect human life. Technology and science produce tools or machines that can facilitate human life. Human life is influenced by technological developments, one of which is the field of education. The demands of the times demand the education sector to adapt to current technological developments. This adjustment is expected to be able to improve the quality of education so that student learning activities can be in accordance with the demands of today's times. Several schools have also implemented e-learning or digital classes to keep up with developments and progress of the times. One of the madrasahs in Langsa City that has implemented digital classes is MA MUQ Langsa. Digital classes at this school have been running for about the last two years. The type of digital class used is the synchronous digital classroom type which is carried out in real time (face to face). Synchronous digital classroom, namely the use of computers for each student which is carried out online so that they can participate in class via the internet, in this case the teacher uses a computer to study and manage the learning process by utilizing sophisticated technology. (Dea Rindiana & Tazkiyah Firdausi, 2019)

Digital classroom comprises all forms of electronically supported learning and teaching. The Information and communication systems, whether networked or not, serve as specific media to implement the learning process. It is essentially the computer and network-enabled transfer of skills and knowledge. Digital classroom applications and processes include Web-based learning, computer-based learning, virtual classroom opportunities and digital collaboration. Content is delivered via the Internet, intranet/extranet, audio or video tape, satellite TV, and CD-ROM. It can be self-paced or instructor-led and includes media in the form of text, images, animation, streaming video and audio. Acronyms like CBT (Computer-Based Training).

It can be explained that a digital class is a class that utilizes the internet, multimedia and digital tools as a means for teaching and learning activities. Application of digital classes in the form of learning materials, processing of exams and assignments, correction systems, grade systems and online and website-based attendance systems. Digital classes also enable students to improve their academic abilities and mastery of technology through digital learning systems.

Education is also experiencing very rapid development, from face-to-face education directly taught by teachers in the traditional way to learning using a smartphone, the use of a smartphone in school-age children apparently will also improve children's learning achievement, especially in kindergarten. Education is also experiencing very rapid development, from face-to-face education taught by teachers in the traditional way to learning using a smartphone, the use of a smartphone in school-age children will apparently also improve children's learning achievement, especially in kindergarten, of course this development is also influenced by technology and information that is developing at this time, the development of the digital world in learning does not mean that it does not have obstacles, adaptability and network access also adorn a series of obstacles to digital learning. (Khairul Anam et al., 2021)

Language is a tool to communicate with fellow human beings. English is an international language that is used to interact with other countries. Proficiency in English is needed in the era of globalization. English has become the Lingua Franca globally. All people in all corners of the world if they want to communicate with people from different nations and languages, of course they will use English. In addition, in every international forum and event, it will usually always use English. English is the main thing that must be mastered to be able to communicate and socialize globally. It is impossible for us to participate in global association if we cannot speak English. Beginning with the process of enriching vocabulary, which is packaged or taught through songs, picture cards, sports, films, or other media. The process of learning English in children will gain a lot of language skills when children are given a variety of fun activities while learning the language itself. There is quite a lot of research that discusses the methods used for teaching English to young children, for example the use of flash cards. There are so many media that can be used for the development of the second language of early childhood, especially English. (I Putu Yoga Purandina, 2021)

English for Indonesian people is considered as a foreign language which is a particular difficulty for students. With a different language structure, different pronunciation, will create problems for students. The problem that is often faced by students is the difficulty of learning a foreign language. Sometimes students are reluctant to learn English. When students hear the word English, it becomes a threat to them because it is considered that English is a very difficult language to learn. For this reason, efforts to improve English learning skills are needed through digital classroom activity programs.

Learning English in the current era is very necessary because of the diverse cultures of society, geography, religion and culture. Learning English is needed as a medium to communicate with one another. English provides a wider discourse as part of the global community of the world community. In fact, in certain fields, English is absolutely necessary. Therefore, as educators, specifically in lower education, it is appropriate to introduce English to students from an early age.

There are several strategies in improving English learning skills, including:

1. Help prepare mentally for children.
Changes in habits can make children feel surprised because they are not ready to adapt. One of them is the change in learning activities nowadays when schools still have to be closed (online learning), by providing an understanding so that they are more enthusiastic about learning.
1. Create a time rule. Before school students, rules were made in the use of gadgets. Gadgets should be used more for learning, to adapt to virtual learning activities. Then it is necessary to make rules, when gadgets are used for learning and when gadgets are used for playing.
2. Support students to stay social. At school, students certainly learn to get along with their classmates, interact with teachers, principals, up to canteen guards or school guard officers. To support their socialization needs at home, children can be invited to chat with family or friends. With this activity, students can practice getting used to interacting with

teachers when starting distance learning activities from home. By supporting students to continue to socialize with other people, it can help make their mood more excited, especially when they have to study at home all day. (Eny Munisah, 2021)

Make it a habit for students to wake up early in the morning. Routine student activities can help to get used to doing new things, such as studying at home. For this reason, even though school is carried out from home, it is better to maintain a routine like when students go to school, for example getting up in the morning, having breakfast and taking a shower. Morning routines like this help remind him to get ready to start studying at home.

In Indonesia, online education serves as a foundation for distance education. Distance Learning is mandated by the Regulation of the purpose of the Implementation of Distance Education in Higher Education is to increase the expansion and equitable distribution of educational opportunities, thereby making it easier for universities to provide high quality, relevant education and learning. Currently, e-learning is a necessary component of education. Along with traditional or classical lectures, online lectures, or what is commonly referred to as e-learning, is one method that can be used to innovate learning. The use of technology in everyday life and in the process learning needs to be used wisely so that the benefits can be maximized and according to needs. The need for educational innovation exists because, in addition to the rapid advancement of information technology, the number of students enrolled in higher education continues to grow. Additionally, one of the benefits of online lectures is that students can interact with learning resources at any time and from any location, because learning resources have been packaged electronically and made accessible to students via online learning. One of the competencies required in the workplace in the twenty-first century and the industrial revolution 4.0 era is competence in the use of digital technology. Learning is a process that students engage in in order to accomplish learning objectives. Students are involved in problem solving through the design of artifacts in project-based learning. Online education is the type of education that is required today. As objects in the industrial era 4.0, we are compelled to follow developing trends. Online education can assist students in comprehending the material. Online education allows for greater flexibility in the classroom because it can be accessed from anywhere and at any time. Numerous academic institutions that were previously hesitant to alter their traditional pedagogical approach were forced to make a complete shift to online teaching-learning. issue persists, it will have a significant effect on student competence. (Andi Mariono et al., 2021)

In the internet era, teachers need to shift partly and/or entirely their conventional instructions to technology-based instructions which are commonly known as a digital class. A digital class refers to a class consisting of at least three enduring practices, such as interactivity, symbolic flexibility, and vast sources of information and it is facilitated by technology that provides students and teachers some elements of control over time, place, path and/or pace. Integration of technology in instructional practices is a concept of digital class and it is advocated for a wide array of reasons, engagement, improvement in academic ability, paradigm shift, assessment shift and collaborative learning enhancement and improves the quality of instructions. To sum up, a digital class is an instructional practice facilitated by internet-based technology so that teachers and students may engage and interact with each other easily. (Sumardi Sumardi & Muamaroh Muamaroh, 2020)

The development of new information technologies and their introduction into them educational process of providing knowledge and developing competencies is an integral part of our times. Information and communication technologies are effective means, methods and techniques for solving major problems and attaining educational purposes. The study of foreign languages as part of the humanization of higher education is essential, as it contributes to the development of a holistic view of the world, the nurturing of values, the building of communicative relations relationships and mutual understanding between different people, nations and cultures. Modern information and communication technologies provide invaluable support to this process.

Information technology is modifying the social and communication space and establishing new conditions for the development of heuristic dialogue. A special role is assigned to internet communication (web forum, audio/video conferences, chat, blog, email, internet file sharing, whiteboard, which enhances cognitive-communicative interaction. The Internet allows actual opportunities for modelling learning and information environments, with certain communication connections and relationships. This specific nature of Internet

communication can be implemented in the process of teaching foreign languages. Certainly, online communication cannot replace personal or face to face interactions, but at the same time, social media significantly complements the conventional educational process by transferring it to the Internet. (Olena Ihnatova et al., 2021)

Since the birth of technology, learning a foreign language is not as difficult as it used to be. Many technologies can make it easier for students to learn foreign languages, such as English. Many people access English content with technology applications to get videos and course materials. In this application, students and teachers can search for content according to the material they want to learn and immediately learn English without downloading videos. One of the most accessible content to get his videos on various technology applications because video content that presents English is the most accessible technology to use. The number of English people is increasing every year, and the number continues to increase. This is none other than the existence of technology, especially applications or software that are easily accessible with an internet connection, according to. She explained that in 2020 there would be approximately one billion English learners then; the number will double from before. We could use several technologies to learn English. They mentioned that many technology applications could help English learners. They added that technology was very effective in English classes. The utilization of innovation for learning, mainly English, has become a need that cannot be delayed any longer. Its various applications are currently locally available and fit to be utilized, preferably for educational purposes. The utilization of information and correspondence advancements for showing English should be possible in various techniques as per the necessities. The advantages and viability of information and correspondence developments from innovation in training can be sorted into a few capacities, which incorporate (1) as a wellspring of data, (2) as a learning guide, (3) as an educational source, (4) as an expertise objective, (5) as an administrative technique, (6) as school help, and (7) as an enlightening model. Referring to the seven functions, it is possible to feel that technology can commit to seeking individual satisfaction of students and teachers, especially in a teaching environment. (Juliana, 2022)

Digital technologies are widely used at present even in training of future translators. The educational process is experiencing a period of transition from traditional synchronous methods of learning which take place in the classroom to asynchronous ones that can be applied at any place and / or time and can be presented as distance or e-learning. The purpose of this article will describe the need for digitalization of education, and show in detail its advantages and disadvantages. The main digital tools and devices for usage of distance learning in the modern world have been analyzed to understand the convenience and the nearest prospects of this technology in the future. Digitalization of education is a modern direction to reform and modernize the global educational system. The newest sources of important information such as text, sound, video and other data have been put into digital languages. Especially digitalization has become necessary measure in condition of global pandemic when the educational process must be continued. The teachers must be more creative and the students must be more independent. Technology will help to achieve good educational results in two main ways: solving physical problems and shifting attention from preserving knowledge and maintaining student concentration. These methods should be investigated in their relationship to both the student and the teacher, in order to identify their value and effect in the educational environment. A foreign language is an academic subject where a special condition has been created for students, which determines the levels of different digital teaching aids for new tasks of a foreign language teaching. Digital teaching purposes are interactive systems, working simultaneously with animated computer graphics, sound, video frames, texts and images. The user- the student is directly influenced through various information programs, courses and tools, where the user played an active role, obtain additional knowledge independently. Multimedia lesson is an educational lesson using digital technologies, various programs and technical means for effective impact on the learner. It demands the best tools and devices, software with the highest quality. Multimedia presentations are the next effective method of teaching introduced into the educational process for their usage; the main components are a computer and a projector. Presentations can be carried out both synchronously and asynchronously be prerecorded. They show clearly the level of knowledge and technical skills, creative approaches of both sides: a teacher and a student. Of course, the way in which presentations are included in a lesson depends

on many factors: knowledge level of students, technical possibilities in classroom, the content of the

lesson and its objectives. The methods of presentation depend on purposes: learning of new material; consolidation of a new topic; checking of independent home task. Electronic testing is an automated device for monitoring and checking knowledge by a teacher or a self-monitoring tool that provides an oral and writing visual control of the results. It demands high qualification and professional skills from teachers first of all.

The basic resource should be the resource of the European Commission on Foreign ownership languages (CEFR), which allows you to determine the level of language proficiency according to the scale used in the framework of the Bologna Convention. It provides recommendations and instructions for a language learning to achieve a certain level, according to the test results. It is possible to get original Certificates after some test graduation. A multimedia Internet resource presents interactive and entertaining information (text, animation, graphics, sound and video). For teaching general and business English at higher schools, it is comfortable to use textbooks with electronic applications on the Internet speak out (A1-B2): Active Book - an electronic version of a book for students with additional materials, where you can watch videos and listen to audio materials with exercises; My Speak out Lab component makes it possible to carry out personalized training and evaluate the results online, where there are options for instant feedback, an automatic progress diary, audio and video files, a testing program that allows you to track the final test result. (Olga Baryshnikova et al., 2021)

The use of modern technology in English teaching is widely understood as including the innovative application of methods, tools, materials, equipment, systems and strategies that are directly related to English language teaching and lead to the realization of expected goals. In addition, one of the important elements for learning is the method that instructors use in Their classes to facilitate language learning process. Therefore, although technology is now generally accepted as an important educational and auxiliary tool across a range of teaching and learning environments, English language teaching is especially true because it provides many potential opportunities to enhance the content and delivery of pedagogical methods that are often compared with traditional English. Language teaching related. Technology provides offers unlimited resources to language Learners. Emphasized and teachers should encourage learners to find appropriate activities through using computer technology in order to be successful in language learning. Declare that the use of suitable technological materials can be useful for learners. (Rizky Andra Prayudi et al., 2021)

2. METHODS

The method used in this research is the Research and Development method, Research and Development is an industry development, which the findings of research are used to design new products and procedures, which then are systematically field tested, evaluated and refined until they meet specified criteria of effectiveness, quality, or similar standards. The United Nation Conference on Trade and Development explained that research and development consist of four types of activities, namely: basic research, applied research, product development, and process development. The development model that is used as a reference in this study is development design.

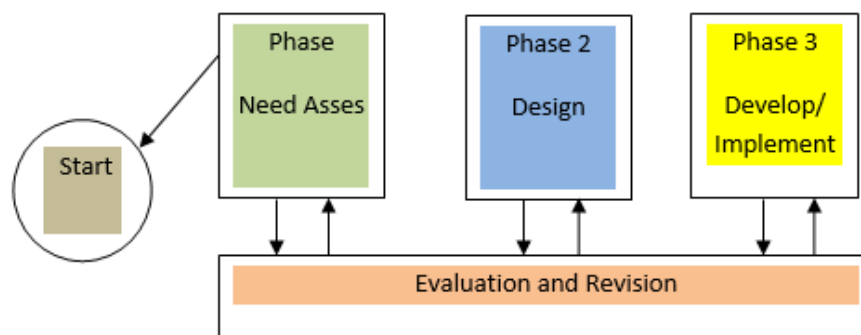


Figure 1. Hannafin and Peck's Development Model

While the data collection techniques of this study include observation, interview methods, questionnaires, and document study.

1. Observation: the researcher will prepare observation guidelines in detail with a check list and field observation notes (file note observation). Observation carried out related to planning the implementation of learning
2. Interview: this research interview was conducted with MA MUQ Langsa foreign language teachers. This interview is to gather information regarding the learning resources used in the teaching and learning process.
3. Questionnaire: the questionnaire used is a test before (pretest) and after using the product (posttest). The form of the questions used is multiple choice which results can later be seen to determine whether or not there is a change in the use of the learning resources used (the effectiveness of the learning resources).
4. Document Study: the study of this research document was carried out by collecting data, in the form of documents related to planning the implementation of learning using digital learning resources (digital classroom).

Table 1. Guidelines for Scoring Research & Development Scores

Kualitatif Data	Score
Very Good	5
Good	4
Cukup	3
Enough	2
Very Less	1

3. FINDINGS AND DISCUSSION

The application of digital classes can improve the foreign language skills of MA MUQ Langsa MA students can be improved if the functions of digital classes are rich and varied so that they are close to user perceptions and attract students to enter the learning classroom. With regard to the dilemmas faced in digital learning, it is hoped that the school administration can provide software and hardware support and assistance to teachers, as needed, to reduce doubts about digital learning and with encouragement, integrate teachers with interests to form an organization similar to a community. professionals to promote digital learning to students. The key in developing the effectiveness of digital-based learning in teaching lies with the teacher. In other words, the promotion of digital classroom learning can provide alternatives and innovations in classroom teaching. With advances in information technology and supported by relevant technology, digital learning will be accepted by students and teachers. This is the teacher's goal and task so that students receive systematic knowledge through the network and have the concept of correct use.

The steps for developing digital classes to improve foreign language skills for students consist of three phases, namely:

1. Needs analysis phase

The development of digital archival learning media begins with a needs analysis which is the first step in developing a media or product. The needs analysis stage is also the basis for creating a learning media in the form of a digital class. The purpose of carrying out a needs analysis is to obtain supporting data for media development that is produced according to the needs of media users. Research and development are carried out at MA MUQ Langsa. In the needs analysis phase, based on the observations made, it can be concluded that the teacher has difficulty conveying the subject matter. This subject is identifying the organization and main issues of archiving and the position of archiving in the organization. Teachers also experience difficulties in making learning media so that in giving examples to students they are still not optimal. Therefore it is necessary to develop learning media that are adapted to the learning materials at MA MUQ Langsa. This is supported by adequate facilities and infrastructure such as LCD projectors, laptops or computers that can be used easily by students. This media can be used for independent learning media by students, it is hoped that with the development of digital learning media students can master the material well and can have more motivation in learning so that learning outcomes can increase.

2. Desain phase

At this stage the design phase is based on the results of observations in the needs analysis activity which is the first step in preparation for producing a learning media, namely digital class. Researchers create digital-based classrooms which are a general design. The designs that have been made will be consulted with material and media experts. Revisions and improvements will be made if the design is not appropriate. If the design has been assessed as good, the digital class development process progresses to the next stage, namely the development stage (product creation). The manufacture of these products is guided by the design that has been made.

3. Development and implementation phase

In this phase learning activities are carried out by utilizing digital classes as learning innovations. This shows that there is no significant difference in the average digital class-based student learning outcomes. The development of learning media by implementing digital classes to improve the foreign language skills of MA MUQ Langsa students is implemented in each class. This step is taken to improve the ability of students in foreign languages.

Based on this description, we can see that 90% of the use of media in the learning process is a very important factor in improving student learning outcomes, especially in the 21st century era where the use of technology has been implemented in the world of education, because learning media that keeps up with the times is a tool that really supports the development of a person's knowledge, especially in implementing the learning process at school.

Then school should pay attention and provide complete educational media so that the learning process in class can run effectively and also be very enjoyable for students, because students are more motivated to learn if learning is explained accompanied by direct practice. In previous research, the Web Learning-based Virtual Classroom was a complement and a new learning medium for grade 8 students at SMP Negeri 1 Pakis in the English subject. We got a lot of Histories. Web Learning-based Virtual Classroom is a learning medium that involves online interaction between students and teachers, used by students to learn independently. Web Learning-based Virtual Classroom has a guide on how to use it and has many features that make it easier for students to use it (Maliki Amri et al., 2022). Similar things have also been stated by previous researchers, digital innovation in the educational paradigm is increasingly clear after the Covid-19 phenomenon. This has also been strengthened by government policies in responding to this need, by launching "kurikulum merdeka" that demands the use of "merdeka mengajar" platform with all its characteristics. The concept of digital learning with a variety of devices is offered. SMP Islam Al Azhar 21 Solo Baru has implemented a program that is quite progressive in an effort to find an education digitalization system. It is in the form of digital class services, which can be used as an option

for students and parents to carry out all digital-based and e-learning activities (Khilmi Dzulfornain et al., 2023). Apart from that, research relating to digital classroom student activity, namely online learning has opened many innovations and opportunities in developing digital technologies in classroom, especially in language learning. However, in English for Specific Purpose (ESP) like in Railway Mechanical Technology study program, the development of online applications is still limited. Therefore, there is an urgency to conduct study about digital technologies in English class for Railway Mechanical Technology (Damar Isti Pratiwi, 2021). Digital technology is also used in developing students' English skills (listening, speaking, reading, and writing), for example, the use of YouTube videos, digital posters, digital comics, and Grammarly tools. Henceforth, this study urges the ELT teachers to leverage their digital technology competences as well as their pedagogy to attend meaningful and engaging learning for their students (Like Raskova Octaberlina, 2023). Teachers and students who use Google Classroom also feel helped by the features that make the learning process easier at SMA Negeri 2 Pilot. This research uses a descriptive qualitative approach, where data is collected through observation, semi-structured interviews, and documentation. Field findings are that the teachers at SMA Negeri 2 Pilot play an active role in establishing an effective communication process during the learning process (Afriani Eka Mulyana & Ratri Candrasari, 2021). Based on reasearch learning is also easier to understand, so this is 85% very influential when students apply foreign language skills in society, and MA MUQ students do not experience significant difficulties, in the research that has been carried out, different digital devices are used but have the same goals and benefits.

4. CONCLUSION

Based on the results of the research that has been done, it can be concluded that the product developed is in the form of a digital class. It can be concluded that the product developed has been declared feasible (alpha and beta test) with a good category and is effective for use in MA students at MUQ Langsa with pretest results obtained an average of 38 .88 and posttest 39.00. This means there is a gain or increase. This research needs to be further improved in terms of the scope of the subject and the duration of the research time which is even longer so that there is great hope that in the future both researchers and other studies can be used as a reference for things that are very useful and beneficial.

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