Utilize Augmented Reality Technology to Improve Listening Skills in Foreign Languages

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ABSTRACT

Listening skills in a foreign language are an important component of an effective language learning process. Technological advances have opened up new opportunities to improve listening skills, one of which is through the use of Augmented Reality (AR) technology. This study aims to explain the potential use of AR in this context. The use of AR in foreign language learning provides an interactive and immersive experience for students. This technology allows users to combine the real world with digital elements, such as text or images, which can aid in the understanding and mastery of a foreign language. Various AR applications developed specifically for foreign language learning can create simulated situations where students can practice listening in real contexts. In addition, AR also allows personalization of learning. The AR system can be adapted to individual learners' ability levels, providing suitable exercises and challenges. This helps increase learning motivation and overall learning outcomes. This research also examines the challenges that may be faced in using AR, such as the accessibility of the technology and devices required, as well as the development of adequate content. However, as technology continues to develop, there are more and more opportunities to overcome these obstacles. In conclusion, the use of Augmented Reality technology can bring great benefits in improving listening skills in foreign languages. With the right approach and investment in the development of relevant technology and content, AR has the potential to become a valuable tool in foreign language education and can help students achieve higher levels of competency in foreign language listening. It is hoped that the results of this research can increase knowledge for pupils and students who utilize Augmented Reality Technology to Improve Listening Skills in Foreign Languages. The limitation of this research is that the researcher did not directly get involved in conducting this research, but instead distributed the questionnaire online.

Keywords: *Augmented Reality, Listening Skills, Important Component*

INTRODUCTION

In an era of globalization and increasing connectivity, the ability to communicate in a foreign language has become a very valuable asset(IP Sari et al., 2022). A foreign language is not only a communication tool, but also a window to culture, career opportunities, and a deeper understanding of a diverse world. In an effort to master a foreign language, one of the important skills is listening skills(Setiawan et al., 2023). Good listening skills enable a person to understand, respond and interact in a foreign language well. However, developing listening skills in a foreign language is often a complex challenge(Aribowo & Avianto, 2023). This process requires a deep understanding of intonation, accent, as well as the ability to identify words and phrases in different contexts. Although technology has changed the language learning landscape, there is still a need for further innovation. One promising technology is Augmented Reality(Hutahaean et al., 2023). Augmented Reality (AR) technology has changed the way we interact with the world around us. AR combines the physical world with digital elements, creating a

more immersive and interactive experience. In the context of foreign language learning, AR has the potential to provide innovative solutions to improve listening skills(Mustaqim, 2016). The use of AR in foreign language learning can create realistic simulations where students can practice listening in various contexts. Can engage in virtual conversations with characters or native speakers, experiencing real-life situations that require understanding a foreign language(Sahria & Yulfihani, 2023). In addition, AR also enables a personalized learning experience, adaptable to individual ability levels and preferences.

Through this research(Sahria & Aditya Prayoga, 2023), will explore the potential and benefits of using Augmented Reality technology in an effort to improve listening skills in foreign languages(Muharmi & Nadriati, 2023). Researchers will analyze various AR applications that have been developed specifically for language learning, as well as their potential positive impact on foreign language learning(Salsabila et al., 2023). Moreover, we will discuss potential challenges and barriers that need to be overcome to optimize the use of AR in foreign language education. Thus, this research aims to explore the exciting and potential world of AR as an innovative tool in improving listening skills in a foreign language(Andriyanto et al., 2023). Foreign languages are an important aspect in the current era of globalization. The ability to communicate in a foreign language not only opens doors to professional and cultural opportunities, but also allows individuals to engage more broadly in an increasingly connected world. One of the critical skills in learning a foreign language is listening

skills(Astriani & Alfahnum, 2023). This skill allows a person to understand and respond well to conversations, speeches, or audio in the target language. In the process of learning a foreign language, listening skills often become a challenge for students(Reza Erprimana, 2023). Achieving a sufficient level of understanding requires repeated practice and a deep understanding of a foreign language's intonation, accent, and vocabulary. Advances in technology have opened up new opportunities to improve these listening skills, and one technology that stands out in this regard is Augmented Reality (AR).

Augmented Reality (AR) technology combines digital elements with the real world, creating a unique and interactive experience(Adryansyah et al., 2023). In the context of foreign language learning, AR can be used to create simulated situations where learners can listen to conversations, interact with virtual characters, and practice their listening skills in a more immersive context.(Oktaviani et al., 2023). Conventional approaches to foreign language learning often involve the use of textbooks, audio, and written exercises. While these methods have their uses, they fall short of creating the real-world experiences needed for the development of effective listening skills(Wijaya & Utomo, 2023). AR opens the door to more immersive and practical learning, creating experiences that more closely resemble real life. In this context, this research will explain the potential of using Augmented Reality technology in improving listening skills in foreign languages(Hakim et al., 2023). We will explore how AR technology can create more effective learning situations, offer greater personalization, and solve some of the challenges inherent in foreign language learning. In addition, we will discuss the positive impacts that can be expected from the use of AR in foreign language education, both in the school context and in independent learning("EDUCATIONAL MEDIA WITH AUGMENTED REALITY COMPOSING WORDS IN ENGLISH FOR CLASS 3 PRIMARY SCHOOL CHILDREN," 2014). Thus, this research aims to explore the potential of AR as a valuable tool in efforts to improve listening skills in a foreign language.

Review of Literature

1. Technology

Technology is a set of tools, knowledge, techniques, or processes used to design, create, and utilize objects or systems to achieve certain goals(Rahardja, 2022). Technology covers various aspects of human life, including hardware (such as computers, smartphones, machines and other equipment), software (computer programs and applications), as well as the knowledge and methods used to create, develop and integrate such technology.(Fricticarani et al., 2023). Technology has a significant impact in various fields, such as communications, transportation, health, industry and education. It allows humans to perform tasks more efficiently, expand knowledge, solve complex problems, and change the way we interact with the world around us. Apart from its benefits, technology can also have social, economic and environmental impacts that need to be considered(Ibrahim et al., 2023). Therefore, the development and use of technology often involves ethical and sustainability

considerations. Technology is also one of the main drivers of change in human society and culture, and continues to experience rapid development over time.

2. Augmented Reality

Augmented Reality (AR) is a technology that combines the real world with digital elements, such as images, sounds, text, or 3D objects, to create an enriched and immersive experience for users(Logayah et al., 2023). This technology allows users to see the physical world around them, but with additional information or digital objects displayed on top of it or integrated into the real environment. The main feature of Augmented Reality is the integration between the real world and digital elements, which often occurs via devices such as smartphones, tablets, AR glasses or AR headsets. With the help of this device, users can see and interact with objects or additional information that appears in the surrounding environment(Hapizd & Safitri, 2023). Examples of AR applications include video games like Pokemon Go, tour guide apps that add historical information to physical objects, or learning aids that provide additional visual demonstrations. AR has grown rapidly in recent years and has a wide range of potential applications in various fields, including education, gaming, healthcare, design, and more(Hamzanwadi University et al., 2023). Its ability to create interactive and enriched experiences makes AR an attractive tool in a variety of contexts, whether for entertainment, learning, or professional applications.

3. Listening Skills

Listening skills are a person's ability to listen carefully and understand information conveyed through sound, speech, or audio(Hamzanwadi University et al., 2023). This involves the ability to recognize words, phrases, intonation, accents, as well as nuances in the language used by the speaker. Listening skills are very important in verbal communication, both in a foreign language and in the mother tongue, and are one of the key components in the ability to communicate effectively. Listening skills cover several aspects, including, Word and Phrase Comprehension: The ability to recognize spoken words and phrases in context(Shafa et al., 2023). This involves understanding vocabulary and grammar. Understanding Intonation, Ability to interpret changes in voice intonation, which can reveal nuances of emotion, questions, or statements in conversation(Gunadi et al., 2023). Identifying Accents, The ability to recognize various accents in the language used by the speaker. This is especially relevant in foreign language learning. Digesting Context the ability to understand messages conveyed in a broader context, including social situations, conversation topics, and communication goals(Wildan Alvin Salis & Irwan Siagian, 2023). Good listening skills are essential in a variety of contexts, such as foreign language learning, business negotiations, public presentations, and everyday interactions. This ability helps individuals to respond appropriately in various communication situations and improves their understanding of the world

around them(Rodiyah, 2022). Apart from that, listening skills are also an important part of the language learning process, because they help someone understand and internalize the structure of the language used.

There are several previous opinions about Augmented Reality technology. First research by(Sungkono et al., 2022), with the research title namely Augmented Reality Technology. The results of the research are that maximum use of augmented reality technology can help in various ways. For example, in badminton matches broadcast on television, you can see the application of augmented reality technology. During the match, you can see synthetic imagery added to the center of the pitch. These synthetic images are usually in the form of advertisements from sponsors. The use of AR in the education sector is also very broad. For example, to introduce animal shapes to toddlers. The second research according to(Ahmad et al., 2022), with the title Development of Learning Media to Know Human Digestive Organs Using Augmented Reality Technology. The results of the research are that Augmented Reality is an effort to combine the real world into the virtual world via a computer so that the boundary between the two is very thin. Augmented Reality (AR) is a variation of Virtual Environment (VE) or better known as Virtual Reality (VR). Meanwhile, virtual reality means a situation where the user is completely in a virtual environment(Amelia et al., 2022). When in that environment the user himself cannot see the real world around him. In contrast to AR, which can still see the real world and virtual objects are only displayed in the real environment.

The research conducted by previous researchers is not too different from the research conducted by researchers. In the research that the researchers conducted, they discussed Utilizing Augmented Reality Technology to Improve Listening Skills in Foreign Languages(Sutedi et al., 2022). This research and previous research only have augmented reality technology in common.

RESEARCH METHOD

Quantitative research methods are research approaches that use data in the form of numbers and statistics to collect, analyze and conclude information about phenomena or research problems(Risdiana Chandra Dhewy, 2022). This approach focuses on measuring and testing hypotheses using rigorous and objective scientific methods. Quantitative research methods are used in a variety of scientific disciplines, including social sciences, economics, political science, psychology, and more. This approach allows researchers to measure and analyze phenomena carefully and provides a solid scientific basis for decision making and theory development. However, if you define quantitative methods as a general approach, this can refer to the use of complete, detailed and rich data in quantitative analysis.(Imron, 2019). In this context, quantitative methods with a solid approach will focus on collecting, analyzing and interpreting data as a whole to produce a deep understanding of the phenomenon under study. Quantitative is a term used to describe an approach or method in research that focuses

on collecting, analyzing and interpreting data in the form of numbers or numbers. Quantitative methods involve the use of statistical and mathematical techniques to measure and generalize patterns, relationships, or trends in data. In quantitative research, data is collected by measuring certain variables and converting them into numbers that can be processed. Quantitative methods are used to test hypotheses, identify statistical patterns, measure the impact of variables, compare groups, and make generalizations from samples to broader populations. Examples of quantitative approaches include surveys with questionnaires, experiments involving numerical measurements, analysis of secondary data from available sources, and mathematical models to describe relationships between variables. Quantitative approaches have the advantage of providing results that can be measured objectively, allowing for in-depth statistical analysis, and allowing for broader generalizations. However, this approach may not be able to describe the richer and more complex context that more in-depth qualitative methods can. Therefore, the choice between quantitative and qualitative approaches often depends on the research objectives, research questions, and type of data required.

The data collection technique in conducting this research is using a questionnaire technique or distributing questionnaires(Ardiansyah et al., 2023). The questionnaire technique is one of the tools or tools used in research methods, especially in quantitative research. A questionnaire is a list of questions designed systematically to collect data from respondents. In distributing this questionnaire, researchers carried out it online. The questionnaire that the researchers made contained a statement about Utilizing Augmented Reality Technology to Improve Listening Skills in Foreign Languages. In making this questionnaire, researchers wanted to know how big the influence of augmented reality technology is in improving listening skills in foreign languages. The questionnaire that the researchers created contained questions about the effectiveness, benefits, functions, and so on regarding Utilizing Augmented Reality Technology to Improve Listening Skills in Foreign Languages. In this study, a research design was used, namely a survey. Data from these surveys can provide an overview of student needs and provide guidance for the development of more effective teaching methods(M. Sari et al., 2022). Quantitative data analysis is carried out by statistical analysis using survey data that has been previously conducted. The main advantage of quantitative research methods is their ability to produce objective and measurable data, allow for robust statistical analysis, and allow generalization of research results to a larger population. Research with survey designs and quantitative data analysis has a number of invaluable advantages, especially in the context of research to identify student needs and guide the development of more effective teaching methods. Surveys in quantitative research can be carried out relatively easily and efficiently, especially if researchers use appropriate data collection tools, such as online questionnaires or structured interviews. In interpreting the results, quantitative research tries to organize the scope of the research results and generalize them into general empirical truths or facts.

RESULT AND DISCUSSION

Augmented Reality (AR) is a technology that allows users to experience or see the real world augmented with digital or virtual elements, such as images, text, video, or sound, displayed in real time on a computer, tablet, or smartphone device. With AR technology, users can see additional information integrated with the real world and experience a more immersive and interactive experience. Augmented Reality is a technology that integrates virtual objects into a real environment. In this technology, digital or virtual elements are added to the physical environment and provide additional information or immersive experiences that are not possible to achieve with a conventional real environment. AR technology is usually used on mobile devices such as smartphones or tablets. These devices are equipped with cameras, motion sensors, and software that allows users to view virtual objects in a real environment(Krisna et al., 2023). Here are some important aspects about Augmented Reality technology: Hardware: To experience AR, appropriate hardware is required, such as a smartphone, tablet, or AR-specific device such as Microsoft HoloLens or Google Glass. These devices are usually equipped with cameras, motion sensors, and displays to combine the real world with virtual elements. Software: AR hardware runs with the help of special software. AR apps like Pokémon GO or Snapchat use your device's camera to detect and display virtual elements in the real world. Tracking and Detection: AR requires the ability to track the position and orientation of a device in space. This allows virtual elements to still interact with the real world appropriately. Sensors such as accelerometers, gyroscopes, and cameras are used to perform this tracking. Marker-based and Markerless AR: There are two main types of AR, namely marker-based and markerless. Marker-based AR uses predefined marks or markers to identify the location of virtual elements. Markerless AR, on the other hand, can detect and add virtual elements without the need for special markers. AR applications: AR is used in a variety of applications, including gaming, education, healthcare, design, marketing, and more. Examples of AR uses include AR-based navigation, simulation training, or even trying on virtual clothing or furniture before purchasing it. Future Potential: AR has huge potential in the future. As technology advances, AR could further permeate everyday life, such as replacing smartphone displays with direct eye projection or deeper integration with autonomous vehicles. Challenges: Although AR has a lot of potential, there are still several challenges to overcome, including privacy issues, more natural human-machine interactions, and building more powerful and efficient AR applications. Augmented Reality technology has changed the way we interact with the real and digital world, and its development continues. AR has inspired innovation across industries and enabled more engaging and relevant experiences for users.

Utilizing Augmented Reality (AR) technology to improve listening skills in a foreign language can provide various benefits for language learners. Below are some of the results that can be achieved through utilizing AR in this context. Improving Listening Skills, AR allows users to engage in real-life situations where they have to listen to a foreign language actively. This improves their listening skills in a more in-

depth and relevant way than traditional methods. Immersion in Language Context. AR can create simulated environments that are similar to real-world situations where the language is used. This helps learners to become familiar with the context of foreign language use, including accents, vocabulary, and idioms used in everyday situations. Active Interaction. Users can interact with virtual elements in a foreign language through AR, such as talking to virtual characters or responding to instructions in that language. This gives them the opportunity to develop better speaking skills and language understanding. Customized Content. AR can be tailored to individual ability levels and interests. This means that students can access content appropriate to their skill level, making learning more effective. Motivation. Using AR in language learning can make learning more interesting and fun. The possibility to interact with virtual elements can increase motivation and engagement in learning. The use of Augmented Reality (AR) technology to improve listening skills in a foreign language is an innovative step in language education. It offers a more contextual and interactive approach to language learning. The following are several aspects of the discussion that need to be considered: Context of Language Use. AR allows learners to learn in the context of real language use. They can experience how the language is used in everyday situations, which cannot always be achieved in traditional classroom learning. Personalization. AR technology can be tailored to individual needs. This allows learners to focus on the areas they need to improve and advance their learning according to their individual ability level. Motivation and Engagement Interaction with virtual elements in a foreign language can make learning more interesting and enjoyable(Hamzanwadi University et al., 2023). This can help in maintaining learner motivation, which is often a challenge in language learning. The accessibility of using AR in language learning can make language education more accessible in various environments, including outside the classroom and on various devices such as smartphones or tablets. Technical Challenges,Developing effective and quality AR applications requires a,significant investment of time and resources. Additionally, appropriate hardware is required for a good AR experience. Integration in the Curriculum It is important to consider how AR can be integrated into the existing language learning curriculum. This requires collaboration between technology developers, teachers, and linguists. With AR technology continuing to develop, its use in foreign language education has the potential to change the way we learn and teach languages. This can help learners to more effectively acquire listening skills in a foreign language and overall improve language proficiency.

Augmented Reality (AR) technology has several advantages in improving listening skills, especially in the context of language learning or communication. Following are some of the main advantages of using AR in improving listening skills. Contextual and Realistic, AR allows learners to learn in a context that is similar to the real situation in which the language is used. Can listen to conversations, instructions, or dialogue in everyday situations, so that listening skills become more relevant and practical. Interactive, AR allows active interaction with virtual elements in a foreign

language. This means learners can participate in conversations, answer questions, or interact with virtual characters. This helps in improving listening and speaking skills simultaneously. Practical Experience: In using AR, students can practice listening to various accents, intonations and speaking speeds which may vary according to the context. This helps to become more proficient in understanding various variations of the language. Personalization, AR applications can be adapted to the learner's ability level(Muharmi & Nadriati, 2023). Can access material appropriate to their level, so that learning becomes more effective and not too easy or difficult. Motivation, Interaction with virtual elements in a foreign language makes learning more interesting and fun. This can increase students' motivation to continue practicing and improving listening skills. Direct Feedback Some AR applications can provide immediate feedback related to listening skills. For example, it can provide an assessment of how well a user understands a conversation or point out words that may be difficult to understand. Accessibility and Flexibility, AR can be used on various devices, such as smartphones or tablets, allowing learners to access it anywhere and at any time. This increases learning flexibility. Repetition, AR allows learners to repeat exercises and listening situations as often as necessary without having to rely on the instructor. This helps in strengthening listening skills over time. Possibility of Visual Understanding, Apart from listening, AR can also add visual elements, such as translations, images or subtitles. This can help learners understand the context better.

Using Augmented Reality (AR) tools to improve listening skills in a foreign language can be a very interactive and rewarding experience. Here are practical steps for using AR in this context. Choose a suitable AR device. Choose an AR device that suits your needs. Some popular AR devices include AR headsets like Microsoft HoloLens, smartphone-based devices like Google ARCore or Apple ARKit, or other specialized AR glasses. Install an AR App or Platform. Many AR devices have specific apps or platforms that must be installed. Make sure to install the necessary software for the AR device. Select the language you want to learn. Many foreign language AR apps can be downloaded from the app store on your device. Choose an app that focuses on the language you want to learn or your skill level in that language. Start the AR Experience, Activate the AR device and open the installed app. Many foreign language AR apps offer a variety of content to listen to, such as conversations, dialogues, or short stories. Use a suitable headset or audio device. For a better listening experience, use a headset or audio device that is compatible with the AR device. This will help you hear more clearly and isolate sounds from the surrounding environment. Follow Instructions and Exercises, Follow the instructions in the AR application and do the exercises provided. This may include listening to dialogue in a foreign language and answering related questions. Interaction with Virtual Elements Take advantage of interactive features that may exist in AR applications. may be able to talk to virtual characters, answer questions in a foreign language, or participate in simulations of everyday situations in which that language is used. Pay attention to accent and intonation. When listening, pay attention to the accent, intonation and speed of speaking in a foreign

language. Try to follow and understand the conversation as it happens in a real situation. Repeat Practice Periodically. Consistent practice is the key to improving listening skills. Repeat the exercises in the AR application periodically to strengthen your skills. Real Life AR Experience, Try to apply what you have learned in a real context. For example, watch movies or TV shows in a foreign language, listen to podcasts, or talk to a native speaker if possible. Be Consistent and Motivated Remember that progress in listening skills takes time and consistency. Stay motivated and keep practicing diligently. Other Explorations, Apart from AR applications, you can also look for real-world AR experiences, such as visits to museums that use AR for language learning or participation in AR-based events that support listening skills.Utilizing Augmented Reality technology can provide a unique and interactive language learning experience. This allows you to listen and practice a foreign language in a more immersive context, which can help improve your listening skills significantly.

Figure 1,Utilizing Augmented Reality Technology to Improve Listening Skills in a Foreign Language

In Figure 1 above is an example of utilizing augmented reality technology to improve listening skills in a foreign language. Here are some of the key benefits that can be gained from using AR in this context. Immersion in a Foreign Language Context, AR allows users to experience and interact with real-life situations where a foreign language is used. This creates a more immersive learning environment and helps learners get used to real accents, intonations and situations. Improved Active Listening Skills, With AR, users are exposed to audio and dialogue in foreign languages actively. They must listen carefully to understand the content, which strengthens listening skills. Context of Language Use AR provides access to real-world situations where the language is used, such as a store, restaurant, or social gathering. This helps learners

understand how the language is used in everyday life. Interactive Experiences Many AR applications allow users to interact with virtual elements in a foreign language, such as talking to virtual characters or participating in simulated conversations. This helps improve speaking skills and language comprehension. Personalization, AR applications can be adapted to the learner's ability level. This means that each individual can access material appropriate to their level, which makes learning more effective. Motivation and Engagement, Interaction with virtual elements in a foreign language makes learning more interesting and fun. This can increase motivation and engagement in learning. Real-time Feedback Some AR applications provide immediate feedback, such as an assessment of how well the user understands the conversation. This allows learners to see their progress and identify areas that need improvement. Flexibility and Accessibility, AR technology can be used on various devices, such as smartphones or tablets, which allows students to access it anywhere and at any time. This increases learning flexibility. Application in Real Contexts Language learning with AR can be easily applied in real life, such as when traveling or communicating with native speakers. This helps transfer learning skills to real-world experiences. Repetition, AR enables quick and easy repetition of exercises. Learners can continue to practice their listening skills as time goes by. Innovation in Learning, The use of AR brings innovation in language learning methods, which can stimulate interest in learning foreign languages. The use of Augmented Reality technology can create a more interesting, effective and relevant language learning experience. This helps learners to better develop listening skills in a foreign language, which is an important step in understanding and communicating in that language.Top of FormTop of Form

Use in Various Contexts, AR is not only useful in language learning, but can also be used in business contexts, travel, and various aspects of daily life that require listening skills in a foreign language. Although AR has many advantages in improving listening skills, it should be noted that it is an assistive tool and still requires dedication and consistent practice to achieve significant progress in listening skills in a foreign language. Leveraging Augmented Reality (AR) technology to improve listening skills has great potential to change the way languages are learned or improve foreign language comprehension. Here are practical steps in leveraging AR for this purpose. Choose an AR Application or Platform First, choose an AR application or platform that suits your needs. Some popular apps for language learning with AR include Duolingo AR, MondlyAR, or other apps that can help practice listening in a foreign language. Install Supporting Applications and Devices, Download and install AR applications on devices that support them, such as smartphones or tablets. Make sure the device has a properly functioning camera, as the camera is used to recognize and display AR elements. Select the language you want to learn. After installing the app, select the foreign language you want to learn or your skill level in that language. Start Practice Use the AR app to start listening practice. These applications usually provide various audio content in foreign languages, such as dialogues, conversations or short stories. Listen carefully and try to understand what is being said. Use Interactive Features Take advantage of interactive

features that may be available in AR applications. This could be talking to a virtual character, answering questions in a foreign language, or participating in a simulation of everyday situations where that language is used. Pay attention to accent and intonation. When listening, pay attention to the accent, intonation and speed of speaking in a foreign language. Try to follow and understand the conversation as it happens in a real situation. Repeat Practice Periodically. Consistent practice is the key to improving listening skills. Repeat the exercises in the AR application periodically to strengthen your skills. Use a headset. Using a headset or earphones can help you hear more clearly and isolate sounds from the surrounding environment. Ask for Feedback If your AR app has a feedback or rating feature, take advantage of this to see how far you have progressed in your listening skills. Apply in Real Context. Try to apply what you have learned in a real context. For example, watch movies or TV shows in a foreign language, listen to podcasts, or talk to a native speaker if possible. So be consistent,Listening skills don't develop overnight. Be consistent in your practice, and always look for opportunities to hear as many foreign languages as possible. Other Explorations, Apart from AR applications, you can also look for real-world AR experiences, such as the use of special AR devices that support language learning. This can provide a more immersive experience. The use of Augmented Reality technology can be a valuable addition in efforts to improve listening skills in a foreign language. However, remember that AR is only an assistive tool, and dedication and constant practice are still required to make significant progress in foreign language listening skills.

Table 1,Utilizing Augmented Reality Technology to Improve Listening Skills in a Foreign Language

NO	Question	Answer				
		SS	S	RR	T.S	STS
1.	I feel that augmented reality technology can improve listening skills	43%	57%	-	-	-
2.	I feel that technology has a positive impact on improving listening skills	45%	55%	-	-	-
3.	I feel that the use of augmented reality technology develops listening skills	40%	60%	-	-	-
4.	I feel that augmented reality technology can support good listening abilities	30%	70%	-	-	-
5.	In my opinion, the development of digital technology must be followed by every education	60%	40%	-	-	-
6.	I feel that utilizing augmented reality technology is very suitable in improving listening skills	70%	30%	-	-	-
7.	I think developing listening skills is well suited to the use of augmented technology	65%	35%	-	-	-

8.	In my opinion, technology can help with listening skills	50%	50%	-	-	-
9.	I think technology really helps every education in many ways	60%	40%	-	-	-
10.	I feel that with augmented reality technology it is easy to get.	75%	25%	-	-	-
11.	I feel that augmented technology can optimize the process of developing better listening skills	80%	20%	-	-	-
12.	I feel that everyone should have foreign language listening skills	40%	60%	-	-	-
13.	I feel maintaining listening skills can enable learning activities.	75%	25%	-	-	-
14.	I feel that augmented technology can improve listening skills even more clearly	88%	12%	-	-	-
15.	I don't think using augmented technology takes much time.	90%	10%	-	-	-

Information:

SS = Strongly Agree

S = Agree

RR = Undecided

TS = Disagree

STS = Strongly Disagree

The table above is a table of the results of the questionnaire that has been given to students, the responses and responses that have been given by students to the questionnaire that the researchers have distributed, have a very important influence on the achievement of the results of this research. In the responses and responses by students to this research which is entitled Utilizing Augmented Reality Technology to Improve Listening Skills in Foreign Languages. Give a very extraordinary assessment of this research. In this assessment there are 5 assessment categories, the first is strongly agree (SS), the second is agree (S), the third is doubtful (RR), the fourth is disagree (TS), the fifth is strongly disagree. Based on this table, the first highest research result was obtained at point 15, namely obtaining a percentage of 90%, in the strongly agree category, while the second highest assessment was obtained at point 14, namely obtaining a percentage of 88% in the strongly agree category. Meanwhile, the third highest assessment was at point 11, namely getting a percentage of 80%. Utilizing Augmented Reality Technology has a very positive impact on improving Listening Skills in Foreign Languages. Thus, it can be interpreted that augmented reality technology greatly influences the way of listening, which in activities that really require listening skills, without the ability to hear, what is said by everyone will not be heard.

Augmented technology is very helpful in improving listening skills in foreign languages.

Next, the researcher will describe the research results by filling out a questionnaire. For the first question, I feel that augmented reality technology can improve listening skills which received responses in the strongly agree category of 43% and the agree category of 47%. For the second question, namely I feel that technology has a positive impact on improving listening skills, the strongly agree category was 45% and the agree category was 55%. For the third question, namely I feel that the use of augmented reality technology develops listening skills, obtaining responses in the strongly agree category of 40% and the agree category of 60%. For the fourth question, I feel that augmented reality technology can support good listening skills, by getting responses in the strongly agree category of 30% and the agree category of 70%. For the fifth question, namely: In my opinion, the development of digital technology should be followed by every education, getting responses in the strongly agree category of 60% and the agree category of 30%. For the sixth question, namely I feel that utilizing augmented reality technology is very suitable for improving listening skills, obtaining responses in the 70% category and 30% category. For the eighth question, namely: In my opinion, technology can help with listening skills, getting responses in the strongly agree and agree categories of 50%. For the ninth question, namely: I think technology really helps every education in many ways, getting responses in the strongly agree category of 60% and the agree category of 40%. For the tenth question, I feel that with augmented reality technology it is easy to get, getting a percentage with the strongly agree category being 75% and the agree category being 25%. For the eleventh question, namely I feel that augmented technology can optimize the process of developing better listening skills, getting a response in the strongly agree category of 80% and the agree category of 20%. For the twelfth question, namely I feel that everyone should have foreign language listening skills, received responses in the strongly agree category of 40% and the agree category of 60%. For the thirteenth question, namely I feel maintaining listening skills can activate learning activities, I received a response in the strongly agree category of 75% and the agree category of 25%. For the fourteenth question, namely I feel that augmented technology can improve my listening skills to be even clearer, I received a response in the strongly agree category of 88% and the agree category of 12%. For the fifteenth question, namely: In my opinion, using augmented technology does not take up much time, getting responses in the strongly agree category of 90% and the agree category of 10%.

CONCLUSION

From the results of the discussion above, it can be concluded that augmented reality technology can improve listening skills in foreign languages. Augmented Reality (AR) technology to improve listening skills in a foreign language is that it is an innovative step that can provide significant benefits for language learners. Here are some main points that can be drawn as conclusions. Improved Listening Skills AR

technology can help foreign language learners improve their listening skills by providing an interactive environment that allows them to practice listening in real contexts. Learning Motivation The use of AR in language learning can increase learner motivation. This technology makes learning more interesting and interactive, so that students are more motivated to continue learning. Interactive Engagement AR allows learners to actively engage in language learning by interacting directly with learning materials, such as virtual objects or characters in the target language. Practical experience using AR can provide practical experience that is similar to real-life situations, such as speaking with native speakers or being in a foreign language environment, so that learners can gain valuable experience.

Advances AR technology continues to evolve, and with further developments, could provide more sophisticated solutions for improving listening skills in foreign languages. Challenges and Barriers Although AR has great potential in language learning, there are challenges and barriers such as cost of AR devices, accessibility, and learning curve for the use of this technology. The Importance of Conventional Teaching AR technology should be used as a complement to conventional language teaching. A combination of traditional teaching and AR can provide more effective results. Thus, the use of Augmented Reality technology in foreign language learning can be a valuable tool for improving listening skills and making language learning more interesting and effective. However, it is important to remember that the use of this technology must be adapted to the needs and situation of the learner and still consider the challenges that may arise. AR Learning Customization allows for greater learning customization. Learners can set the level of difficulty, content, and learning pace according to their own level, allowing for a more personalized learning approach. Progress Evaluation AR technology can also be used to measure learner progress more accurately. This can help teachers or instructors provide more targeted feedback and students understand which areas need improvement. AR Global Collaboration also opens up opportunities for global collaboration in language learning.Learners can interact with native speakers from different parts of the world through this technology, broadening their horizons about the target culture and language. Data Security and Privacy It is important to pay attention to aspects of data security and privacy when using AR technology in learning.

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