THE EFFECTIVENESS OF BEELINGUAPP APPLICATION ON THE STUDENTS' LISTENING SKILL AT HANDAYANI BANJARAN JUNIOR HIGH SCHOOL

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Abstract:

This research aims to know the effectiveness of the Beelinguapp application in improving students' listening skills at Handayani Banjaran Junior High School. Beelinguapp is a language learning app that combines bilingual text with audio narration, allowing students to listen while reading. This research uses quantitative experimental methods. The research sample consisted of 110 class VII students selected randomly. Quantitative data was obtained through listening tests carried out before and after the application use intervention for three weeks. The results of statistical analysis show a significant increase in students' listening test scores after using the Beelinguapp application with a result of 0.00 ($p < 0.05$). Although this study has limitations, such as a limited sample size and a relatively short duration of intervention, the findings provide initial evidence that Beelinguapp can be an effective tool in language learning, especially in improving students' listening skills. Further research with a larger sample and longer duration is recommended to strengthen these findings.

Keywords : *Beelinguapp, listening skills, language learning, educational technology.*

INTRODUCTION

This research aims to assess how effective the use of the Beelinguapp application in improving students' listening skills. This involved comparing a group of students who used Beelinguapp with a control group who did not use the app.

In today's digital era, students are increasingly exposed to technology, but traditional approaches to language teaching tend to be less able to capture student interest and

engagement. Putri et al., (2022) In the 21st century, the development of digital technology is so rapid that it can increase progress in various parts of the world. Rahmatullah et al., (2022) explains that there are several ways to face challenges education in the era of the industrial revolution 4.0 through capacity building and teacher skills by playing an active role in school.

In an ever-evolving digital era, technology has become an integral component in expanding access, improving quality, and changing the way the Reseacherlearn and teach. According to Huang et al., (2019) Educational technology is the study and ethical practice of facilitating learning and improving performance by creating, using, and managing appropriate technological processes and resources. Meanwhile, according to Wisdom & Perez (2024) Educational technology includes a dynamic system of study and moral action with the aim of specifying and providing aninteractive environment for learners' activity for their fast, easy, durable education and learning in harmony with their interests and characteristics.

Educational technology includes a wide range of tools, applications and digital platforms, having great potential to increase learning efficiency, facilitate personalization and create dynamic and collaborative learning environments. Sefriani et al., (2021) Learning media is a tool or intermediary that is useful for expediting the learning process and for facilitating communication between teachers and students.

Beelinguapp is one example of a mobile application specifically designed to help users improve their listening skills in a foreign language in an interactive and engaging way. Rosiana et al., (2024) The Beelinguapp application is a mobile application that allows users to learn foreign languages by listening to audiobooks. In addition to practicing listening skills, audiobooks require ongoing engagement. The app offers access to a variety of narratives in foreign languages, such as short stories, fairy tales and articles, presented in two languages simultaneously, allowing users to listen to and read texts in the target language simultaneously.

Listening is the learned process of receiving, interpreting, recalling, evaluating, and responding to verbal and nonverbal messages. According to Renukadevi (2014) Listening has an important place in learning as it is one of the four major skills in language acquisition. Listening ability plays an important role in language acquisition, facilitating effective communication and comprehension of various types of discourse. Franklin Ernst Jr, (2008) Optimal listening efficiency a person has varies between 30 and 70 percent of the time, of the content of an event.

This research was conducted because there are still some students who have difficulty listening. Low listening skills can be a problem at school, especially in the eighth grade of middle school. Students may have varying levels of listening comprehension. Then the lack of resources and interesting and interactive learning materials in language learning can result in a lack of student interest and motivation. This can hinder the development of their listening skills. The importance of this research is that it provides insight into how technology can improve students' hearing abilities. This kind of research can also provide valuable guidance for the development of more effective learning approaches in the digital era.

RESEARCH METHOD

Creswell (2014) explains Research design is the specific procedure involved in the research process: data collection, data analysis, and report writing". In this research the author uses a quantitative approach based on statistical information. A research approach that answers research problems requires careful measurement of the variables of the object under study to produce conclusions that can be generalized regardless of the context of time, place and situation.

Quantitative research requires a researcher to explain how one variable affects other variables. The method used is the experimental method. Creswell (2014) Say that Quantitative research is an approach for testing objective theories by examining the relationship among variables. These variables, in turn, can be measured, typically on instruments, therefore numbered data can be analyzed using statistical procedures.

Experimental research methods are included in quantitative research methods. Creswell (2014) states that the definition of experimental research methods is used if researchers want to know the causal influence between independent and dependent variables. This means that researchers must be able to control all variables that will influence the outcome unless the independent variable (treatment) has been determined.

RESULT AND DISCUSSION

Paired Samples Test

		Paired Differences							
					95% Confidence Interval of the Difference				
		Mean	Std. Deviation	Std. Error Mean	Lower	Upper	t	df	Sig. (2-tailed)
Pair 1	Pre Test - Post Test	-30.364	19.997	2.696	-35.769	-24.958	-11.261	54	.000

This is a measure of the variation of the difference between the Pre Test and Post Test scores. This value indicates how far the individual values deviate from the mean difference. Std. Mean Error (Standard Error of the Mean): 2.696 This is an estimate of the standard deviation of the mean differences, which is used to determine how accurately the sample mean estimates the population mean. - The interval shows that the Reseacherare 95% confident that the population mean difference between the Pre Test and Post Test is between -35,769 and -24,958. Since this confidence interval does not include zero, the Reseachercan conclude that this difference is statistically significant. This t-statistic value of -11.261 shows how far the observation results deviate from the null hypothesis, in standard deviation units. Sig. (2-tailed): .000 This p value indicates the probability that the observed difference in means occurred by chance.

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
NGainScore	55	-.20	1.00	.5052	.25565
NGainPersen	55	-20.00	100.00	50.5243	25.56529
Valid N (listwise)	55				

NGainScore values range from -0.20 to 1.00, with an average of 0.5052. The standard deviation of 0.25565 indicates that the NGainScore values are not too far apart from the average. NGainPercent values range from -20.00% to 100.00%, with an average of 50.5243%. The standard deviation of 25.56529 indicates that the NGainPersen values are more spread out compared to NGainScore. In general, these two variables provide an idea of how the values are distributed in the sample taken, with NGainPercent having greater variation compared to NGainScore.

Language learning has experienced many changes along with the development of information and communication technology. Language learning applications such as

Beelinguapp have become an effective tool in improving students' language skills. Beelinguapp uses a bilingual learning method with story texts displayed in two languages. This approach makes it easier for students to understand the context of the story while listening to the target language, thereby helping improve their listening skills. Godwin-Jones (2015) states that mobile learning technology can provide more flexible and interactive learning opportunities, which can help students develop their language skills independently.

The Beelinguapp application provides an interactive and engaging learning experience for students. With features like audio stories in two languages, the app not only captures students' attention but also increases their engagement in the learning process. According to Kukulska-Hulme and Shield (2008), mobile learning allows students to learn anytime and anywhere, increasing their learning accessibility and motivation. This can be seen in the research results which show an increase in students' listening abilities after using this application.

The research results showed that there was a significant improvement in the listening ability of students who used Beelinguapp compared to those who did not use the application. The experimental group that used the application showed a significant increase in their average post-test scores compared to their pre-test scores. Vesselinov and Grego (2012) found that the use of language learning applications can improve students' listening and speaking abilities significantly compared to conventional learning methods.

The relatively small standard deviation of NGainScore indicates that the improvement in students' listening abilities is relatively consistent among the samples taken. This means that most students experienced similar improvements on the NGainScore scale. Lu (2008) shows that mobile applications for language learning can improve students' listening and comprehension skills by providing interesting and interactive content.

While NGainScore shows consistency, NGainPercent shows greater variation. This means that the increase in percentage varies more among students. Some students may experience very high increases, while others may experience lower increases or even decreases. A larger NGainPercent standard deviation indicates that there are significant individual differences in response to application use.

This research also shows that conventional methods used in class are less effective than using interactive applications such as Beelinguapp. The control group experienced only minimal improvement in their listening abilities. Stockwell (2010) states that the use of technology in language learning can provide a richer and more varied learning experience, which often cannot be achieved through conventional methods.

One important factor in learning is student motivation. Using applications such as Beelinguapp can increase students' learning motivation because they feel more interested and motivated to learn. Deci and Ryan (2000) stated that technology that provides immediate feedback and enjoyable learning experiences can increase students' intrinsic motivation. This high motivation has a positive impact on improving their listening abilities.

Educational technology enables personalized learning, which can help meet students' individual needs and improve their learning outcomes. Clark and Mayer (2011) emphasize that educational technology allows for personalized learning, which can help students learn at their own pace and learning style. This is very relevant to the use of the Beelinguapp application which can be accessed anytime and anywhere by students.

The results of this study have several important implications for language teaching. The use of technology such as the Beelinguapp application can be an innovation in English learning methods at school. In addition, this application can be used as an additional tool to develop students' listening skills more effectively. This research also shows the importance of integrating technology in the learning curriculum to improve overall student learning outcomes.

CONCLUSION

The test results showed a significant increase in students' listening abilities after using Beelinguapp. The post-test score which is higher than the pre-test indicates that this application is effective as an aid in learning listening skills. This improvement can be attributed to Beelinguapp's interactive and bilingual features that allow students to listen to stories in English while understanding the meaning in their native language.

Most students responded positively to using Beelinguapp. They find the app interesting, interactive, and helps them understand the material better. Students' learning motivation increases because they can learn more fun and not monotonous.

This research supports the use of technology as an effective learning medium. Beelinguapp provides a variety of learning methods, which can increase student motivation

and engagement. Using applications such as Beelinguapp gives students the opportunity to learn independently and flexibly, according to their individual learning pace.

Factors supporting the effectiveness of Beelinguapp include interactive features such as bilingual texts and interesting audio stories, as well as ease of access that allows students to learn anytime and anywhere. However, there are several challenges that need to be overcome to maximize the use of this application. One of them is device limitations, where not all students have access to the smartphones needed to use the application. Apart from that, sometimes there are some students who don't have the quota to open the Beelingualapp application.

The results of this research have several important implications for language teaching. The use of technology such as the Beelinguapp application can be an innovative method for learning English in schools. Teachers can integrate the use of this app in their lesson plans to improve students' listening skills more effectively.

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