The implementation of Smart Edu Family application

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Abstract. The rapid development of technology requires people to adapt in almost every aspect of their lives, including their homes. This paper identifies the implementation of an application namely Smart Edu Family. The application is carefully analyzed in this study. The results had proven that the application was effective especially for supervising children learning outcome virtually. The fact that it is mobile (applicable in web-based, Android-based, and iOS-based devices) gives an advantage to people who belong to millennials and generation Z. It is also inferred that the application is relevant within the fields of industry and education.

1. Introduction
The in Law No. 20 of 2003 concerning the National Education System, chapter 1 article 1 stated "Education is a conscious and planned effort to create an atmosphere of learning and learning process so that students actively develop their potential to have religious spiritual strength, self-control, personality, intelligence, noble character, as well as the skills needed by himself, society, nation and state." [1].

The progress of the world of technology that continues to develop makes smartphones and information media also develop. Smartphone technology is not only used as a communication medium but can also be used as an educational information media. The information media which was originally in the form of books in line with technological developments turned to be mobile-based through smartphones. Smartphones can be used as a tool in helping human work by becoming a place of information in any case [2].

Student learning outcomes are largely determined by the curriculum and learning materials carried out by teachers and parents by involving cognitive, affective, and psychomotor aspects that are carried out continuously by a teacher [3]. However, this cannot be directly monitored by parents because of the limitations of information media and tools that serve as benchmarks for children's education.

Starting from these concerns caused this application is designed to ensure education provided by teachers can be monitored directly by parents without having to interact directly. This is expected to be a tool that makes it easy for parents to monitor children's education and see the latest learning outcomes from teachers.

2. Methods
By looking for relevant papers taken from several databases such as Science Direct, Sage Journal, and other referral sources that are critically analyzed. Use the keyword "technology" by adding the terms "learning outcomes", "children". Paper analyzed in the past five years.
3. Results and discussion

The learning process undertaken by children in formal schools will be different when applied at home, this is because children are more comfortable studying at school with teachers who understand the learning material to the fullest [4]. Parents as formal education companion at home will make every effort to provide comfort for children in the learning process at home. Because according to a journal entitled "Motivational interviewing with families in the home environment" states that the learning process at home with family will provide a stronger bond and foster a sense of comfort in children because parents already understand the condition of children [5].

However, learning at home must still be monitored by parents so that the development of children's education as seen from the results of learning can be controlled without any problems in the future. Because the learning process at school cannot be monitored for 24 hours by parents with limited facilities available [6]. With the application "Smart Edu Family" for supervision of children's education at school that makes it easy for parents to control children's learning outcomes and teacher performance in providing education for their children. This application was also made in dealing with the decline in children's learning outcomes due to the lack of teacher awareness of the educational development of every child in school which causes a decrease in children's learning achievement at school [7].

The application "SMART EDU FAMILY" applies two direct supervision processes, namely from the side of parents and the side of educational institutions that can control the performance of a teacher in providing education to students. The challenge for a teacher who must master technology and understand the various features provided by this application is that the monitoring results can be appropriate. The advantage of this application is the teacher's live monitoring feature to monitor children's learning processes just by checking on the parent smartphone application [8].

With the conditions of learning at school and at home can continue to be carried out with assistance in this application. Teachers can input tasks and learning as well as children's values that can be directly seen by parents, but when children cannot understand the use of technology, parents are required to assist and guide the learning process at home through the application "Smart Edu Family" so that the purpose of making this application can be realized.

4. Conclusion

The learning process undertaken by children in formal schools will be different when applied at home, this is because children are more comfortable studying at school with teachers who understand the learning material to the fullest [4]. However, learning at home must still be monitored by parents so that the development of children's education as seen from the results of learning can be controlled without any problems in the future. With the application "Smart Edu Family" for supervision of children's education at school that makes it easy for parents to control children's learning outcomes and teacher performance in providing education for their children. The application "SMART EDU FAMILY" applies two direct supervision processes, namely from the parent's side and the educational institution's side which can control the performance of a teacher in providing education to students. With the conditions of learning at school and at home can continue to be carried out with assistance in this application. Teachers can input tasks and learning as well as children's values that can be directly seen by parents, but when children cannot understand the use of technology, parents are required to assist and guide the learning process at home through the application "Smart Edu Family" so that the purpose of making this application can be realized.

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