

THE IMPACT OF SMARTPHONE IN EDUCATION

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Abstract

The aim of this research is to identify the impact of smartphones on the users in the educational aspect whether smartphone is giving the good or bad influences to the users. This research proposes the positive impact of using the smartphones as tool to help the students in education. Besides, the application in smartphones was also highlighted and introduced to be well-known among the students. This research also brief an article that related to the smartphones to give more knowledge to the readers. Smartphones helps students being motivated, give the effectiveness tools for students, helps students in build up the confident level, self-esteem, and so on.

Keywords: smartphones, impact of smartphones, educational tools, positive impact of smartphone, negative impact of smartphone and healthcare.

INTRODUCTION

Nowadays, smartphone be number one of human needs in their daily life. A smartphone is a gadget that allows people to communicate with other users either in the same country or other country. Smartphone have many types such as Samsung, Apple, Motorola, Nokia, Asus and the latest one is Oppo. The vendors of smartphone always updated their goods to make sure users are satisfied with their product. They will compete in upgraded their products and users will choose the best one.

The function of every smartphone has the same features that enable users to communicate with others. The differences between them is the shape and appearance of each of smartphones. Every of them has the camera which is users can take their own photo by using the smartphone. Before this, users need to buy a camera to take the picture and save it as the memory. But now, users can only use their own smartphone and save it into the memory of smartphone and also can upload it into the social media such as twitter, Facebook, Instagram and so on.

The smartphone also has many features that interested that can make easier for users in facilitates users in doing their daily tasks which is they can set the reminder for something important such as meeting time so that they can attend that meeting on time. According to Sevari (2012), smartphone are cheap and many users' abilities to have its at least one per user. Researchers also say that users are happy to use the smartphone because it easy to use and bring it anywhere in user's pockets. According to Mansour (2015), the smartphone is becoming important nowadays because of their connectivity. It isn't only used for a phone call or messaging, but they also can help us in connecting

with other connectivity which is social networking such as Facebook, Twitter, Instagram, E-mail and so on.

Furthermore, users start from two years of age are know how to use the smartphone because their parent are teaching them to using it even they are still young. Sometimes, they know even more than us how to use it. Smartphone usually presented in small sizes that make users bring it everywhere with ease. Users can do anything with the smartphone because it has no limitation. Users can also use the smartphone as GPS tracker which is use the Google Maps and Waze to find the location that we don't know.

Alson (2016), states, although many users are used the smartphone as the tool for connecting to media social, some users use the smartphone as the tool to learning which is a calculator, writing the notes, searching the information by using the Google and so on. Other uses of smartphone is, it can entertain us with the latest entertainment. With the busy lifestyles, users can download the application to download the latest song or movies by using the smartphone. Users don't have to open the television to watching the movie. They can only use the smartphone by downloading the application Tonton and other application. Other than that, users can also download their favourite games or play online games by using the smartphone. So that, users can easily play their favourite games and watching the movies in everywhere and every time they like.

ISSUES

In this paper, several issues are discussed regarding the impact of smartphones in education that affect the users either in positive or in negative impact. Based on my observation from the research articles, there is some issues that related to the smartphones use as the tools in education. There are:

- The overuse of smartphones make the users addicted and cause their social effect.
- Issues that related to the privacy and security.
- Smartphone that use more often reduce the critical thinking.

RESEARCH OBJECTIVES

- To identify the effect of smartphone in education.
- To evaluate the impact of smartphones on the users in the educational aspect whether smartphone is giving the good or bad influences.
- To find out the benefits of smartphones in education.

RESEARCH QUESTIONS

These research questions have been considered in order to guide this study:

- What is the effects of smartphone in education?
- What is the impact of smartphones in education?
- What is the benefits of using smartphones in education?

LITERATURE REVIEW AND PROPOSED FRAMEWORK

Based on this research, our main topic is the impact of smartphones in education. Based on the main topic, we are divided by two variables which is positive impact of using smartphones in education and the negative impact of using smartphones in education. In this variable, we are determine the two variables which the main topic is the impact of smartphones in education are be the independence variables and positive impact of using smartphones in education and the negative impact of using smartphones in education being the dependence variables. The independence variable is bringing changes in a situation which impact of smartphones in education give the situation that be divided into two which is the positive and the negative impact of using smartphones in education. The dependence variables is the outcomes or changes that brought by the independence variables. The changes when the two outcomes of the impact of smartphones, divided by two which are the positive and the negative impact of using smartphones in education.

In term of independence variables, positive impact of using smartphones in education, it discusses about the good impact using the smartphones as the tools in helps students in education aspect. We have identified many benefits of using the smartphones in education. By using the smartphones, users able to searching the information in internet resources. Despites, it make students read the article in improving their knowledge in various type of resources. Apart from that, students are able to gain their knowledge in downloading the application that help them in improving their skills. For example, dictionary and ginger in improving their grammar and dictionary in other language. So that, students will be able in learning the various type of language by only using the smartphones.

Second of term independence variables, which is the negative impact of using smartphones in education, it describes the bad impacts which students being addicted while using the smartphones. The new generation that use the smartphone to connecting and communicating are able to get addicted. They are easily being addicted because they need to face the new technology that became growth day by days. Apart from that, the negative impact to the young users is the issues that related to unwanted sites and apps. The availability of content in the internet such as pornographic sites make users easily to watched, downloaded and save the pornographic film in their smartphones. It affect young user lifestyle and decreased the social problem such as child abuse, suicide, violence and vandalism and so on.

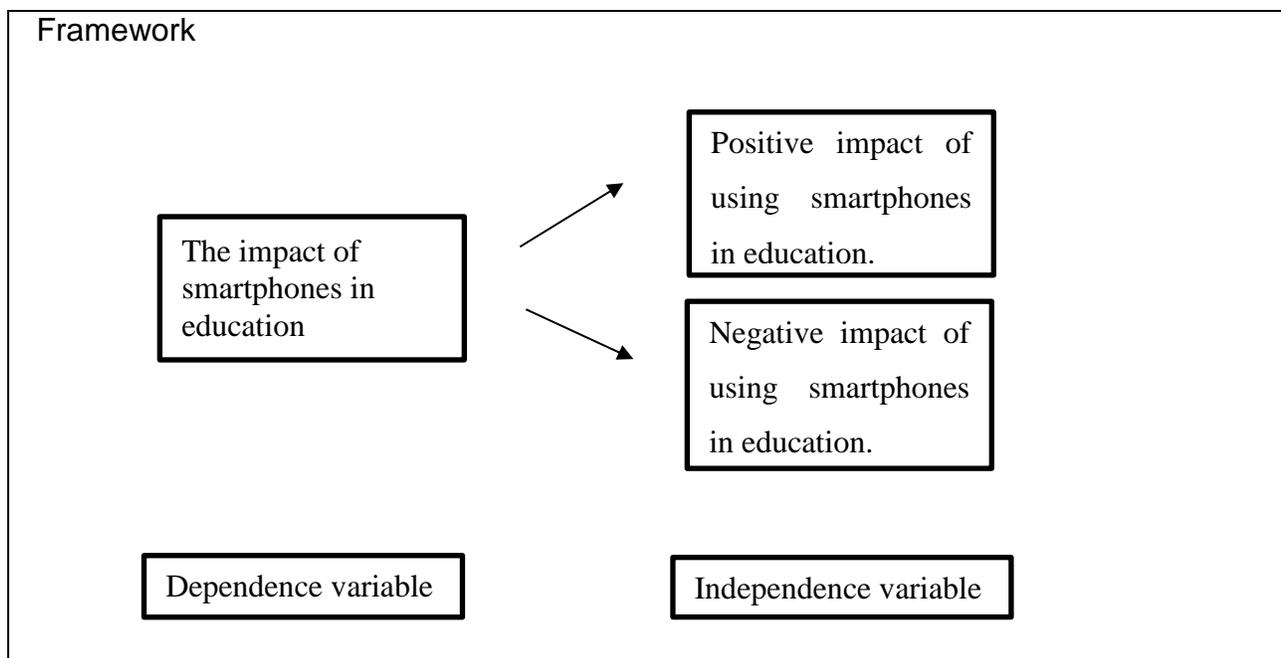


Figure 1: The theoretical framework

Benefits of using smartphones in education aspect

In this research, we are coming out the impact and benefits of using the smartphone in the education aspect. The using of smartphones have its own negative impact and also have the benefits that useful for users include for the learning tools, entertainment, communication and other purpose. There is the point of the benefits of using smartphones in education aspect. According to Seviri (2012), the using of the smartphone for communication purpose make their relationship became closed. By contact with parents and friends make them feel closed and know all the activities that doing by their children. Users are abilities to have at least one the smartphone because now the smartphones became inexpensive. The using of smartphones among the students not depends on their parent's occupation. In the school, the time for learning process are too limited. Using the smartphones, the teachers and students can communicate and collaborate with each other by using the smartphones. For example, they created the Whatsapp group in their class and in that group they discussed and exchanged their opinion. In the group also teachers gives the information such as the news about their assignment and so on. The author also said that the learning process by using the smartphone will be the best way because the more students use the smartphone, they being more active in academic performance.

However, Eteokleous (2015), stated, the learning by using the smartphones more effective because it improved student's performance in the academic aspect. The using of smartphones be the formal and informal learning because students and teachers communicate each other either in classroom or in outside of classroom. When students

access the Google to searching the information, automatically they read the sources that they found. In this situation, it enhanced their knowledge automatically. They know the information automatically without they want to know about the information. It proven that using the smartphones make students more focus on the academic also strength the student's knowledge. Students that use the smartphones in the right way can give the positive impact to their self, parent, teachers and schools. The using of smartphones make students motivated themselves. Because by using the search engine such as Google to searching the information, they get many information and by this, it will improve their skills in searching the information by using the various apps in the smartphones.

According to Jumoke (2015), the benefits of using the smartphones as students learning tools motivated students in studies in different ways. They not only focus on studies in the classroom, but got the knowledge on where ever and every time they need. The studies in another environment that make students more comfortable and happy in their studies. Moreover, the usage of smartphone as education tools, students explored more that they needed by using the various apps in the smartphones. Some of users are using the smartphone as a medium to help them in education. For example, they use the calculator to calculate something and set the reminder for the important date such as examination or test. Some of users are using the smartphone to improve their skills in learning process which is download the application in the smartphone that related to education. For example, users download the application of dictionary to improve their knowledge. Another example, users are download the Ginger in improve their knowledge in grammar. So here, they can improve their knowledge by using the apps in the smartphones.

According to Ismail (2013), the changing of technology nowadays are affect the learning style in the schools. So that, the using of smartphones in school environment is the best ways that should be used for the future studies. The using of smartphones give the effectiveness to the student's in academic performance. Trifonova (2003), stated, the attracted of the smartphones make it more effective for the future use learning tools. The using of smartphones as the learning tools increased parent involvement in their children education because now parents checked their children examination result in the schools websites. Parent also checked their children performance in the school by joining the school websites. Moreover, parent abilities to checked the calendar and activities in the schools and ask the administration about the activities that involving their children in the school.

Alson (2016) highlighted the uses of smartphones are depends on users. Some of them use the smartphones to education purpose such as set up the reminder, calculator, download the dictionary and so on. Other users use for entertainment such as listening to the music, playing the video games and so on. All of features on a smartphones make students excited to use it. According to Lenhart (2013), the smartphones are same characteristic with the computer and laptop. Their features that enable users to searching the information and by using the Microsoft Office Word, it enable users to writing by using it.

Halder (2015) highlighted smartphones helps students in access the internet, use the information, which in Google, then, contributed the knowledge and lastly share it with friends and teachers. The learning by using the smartphones also make easier to users in distance learning. Subramanya (2012), states, the smartphones application helps students in increased the student's performance for example, the application that helps in Mathematic, English, Science and so on.

Mansour (2016), stated, students constantly use the smartphones for the educational purpose such as access the Google to find the information resources, to contact with their teachers, completing the task that given by the teachers and joining the group discussion with the classmates. Searching the information by using the smartphone more relevant because students can choose the right information that can help them in their studies. However, Hossain (2015), the application in the smartphones helps students in fulfil the student's needs. The several of apps make students choose the better one that interested to them and simple to use. Also increase the student's achievements in the academic.

Vorley (2015), the effectiveness of using the smartphones make students more confidents. Because if students are ashamed to asked the teachers in the classroom, they can ask the teacher by using messaging or called the teachers. The long distance students are constantly use the smartphone as the medium to them to get the information or news from the teachers and classmates. For example, Malaysian students are studied in University in London, the students can only use the smartphones to interact with the teachers. They can use the Skype to face to face but in virtual. It make easier to both of them because they still can contact each other even though the barriers of distances. There is no reason to studies and get the new knowledge by using the smartphones. However, Allan...(et.al.) (2016), states, usage of smartphones for access the library materials. The art students use the smartphones in helps them in seeking the information by accessing the library system. It also called as mobile apps. The smartphones studies also called as mobile learning because users still can learn about something by using the smartphones in anytime they wanted to.

The negative impact of using smartphone in education.

In the growth of technology, smartphones is the best tools to use as the medium in learning process. It is good to use by the students or teacher to collaborate each other by using the smartphones. The usage of smartphone are gave the positive and negative impact to the education. According to Ezemenaka (2013), "young users between 15 to 19 years old become addicted while using the smartphone as their important needed in their daily life". The more users use the smartphones, they got more stress and less performance in education and work environment. In this point, majority of users feel something is missing in life, if there is no smartphone and the Internet. Paniagua (2005), states, "The prevention is better than cure". Means, the using of smartphone that make users addicted need to stop and recover before the users addicted getting worsts.

However, according to Jones (2014), “the growth of technological revolution are change the humankind lifestyle. The new generation that use the smartphone to connecting and communicating are able to get addicted. They are easily being addicted because they need to face the new technology that became growth day by days”. Compare to the old generation that only use the letter for communication. The population of Y generation that addicted to the technology became increased day by day. The addiction gave the negative impact to the users. That is because they lack of social lifestyle while faced the smartphones. The more users use the smartphone, it will make users comfortable and they will don't care about the environmental conditions. Because they are too comfortable with their smartphone, they being selfish and the relationship between the family and friends become bad. Using the smartphones, they are forgetting to talk to family members and only use the smartphones to interact each other. Jones found the users that addicted to the smartphone willing to do anything such as sleep with the smartphone and some of them willing to wake up at night to checking the message and called the person of their loves.

In addition, Kurmanbek (2015), said, smartphones being more addicted rather than television because of it features. Users use it for E-mail, listening the music, downloaded the video games, set the reminder, connecting to social media and so on. Users lack of the concentration while using the smartphones. The application in the smartphone that interested make users attract to use it. Su-Jeong (2012), the addicted of using the smartphone called as “virtual life addiction” because users more enjoy to use the smartphones rather than reality life. They love more to virtual life.

However, Demirci (2014), states, “the rapidly of technology make users love to use the smartphone as their needed in their daily life increased the addicted and increased the problem in using the smartphones. The addiction is not only to drug addicted, but the addiction include addicted to shopping, love to playing the videogames and so on”. They love to wasted their times rather than make the useful thing such as study or make a social life such as playing footballs, swimming and so on. The addicted actually means, people will get sick if they are not use it. People enjoy to do it but they don't care about the effect of it. In other hand, addicted is similar with overused. To avoid from the addicted, users need to control themselves with do the new hobbies such as reading the books, build up good relationship with family and friends, and make the charity. According to Jackson (2014), the usage of smartphones are gave the bad impact to the students' academic. Means that students that use more smartphones will get the lower result. In addition, according to Hingorani (2012), “the users that got the addicted of using smartphones easily got the phobia which is phobia when the smartphones is not with them”. Users that suffer from the addiction called their smartphones as their soul. Some of them checked the smartphone five times in two minutes. Other users can even life without the smartphone and internet, they willing to sleep with the phone although the smartphones has no battery.

Apart from that, the negative impact to the young users is the issues that related to unwanted sites and apps. Rabiou ... (et.al.) (2016), using the smartphone and connected to the internet, it can influence the young users in many aspect. By using the cheaper

smartphone that connected to the internet, users connect to the various sites that make them attracted to it. The availability of content in the internet such as pornographic sites make users easily to watched, downloaded and stored the pornographic film in their smartphones. It became worst when parent not control their children. It affect young user lifestyle and decreased the social problem such as child abuse, suicide, violence and vandalism and so on. Smartphones become popular among the young users in the educational institutions.

The uses of smartphone in the school gave the problem to teacher and parent. That is because the uses of smartphone in school make increased the discipline problem among the students. It also interrupt student in their studies. Such as student lack of their concentration in studies and lack of performance in classroom. Most of social problem nowadays are comes from the influenced from the using of smartphones. However, McGuigan, (2005), states, by using the smartphones, it influences the student's performance in academic. The huge size of memory in the smartphone make users easier to stored the pornographic video and images in their smartphones. They also setting up the security and password to avoid from teacher and parent checking up their smartphones. Because of that, teachers and parent should be smartest than the students and children. Froese (2014), stated, the students that use the smartphones in the school interrupt their studies.

However, Tibi (2015), stated, "Smartphones make users lack of abilities in critical thinking because by using the Google Search engine, user think it is the right information without thinking by their own". They also lack in problem solving because only hope information in the search engine to solve their problem in studies. They only depends on the smartphones to do the research and help them in studies. They need to think, if there is no internet connection, it can gave the problem to them to connect to the search engine. It make users stress and loss of interested in their studies.

Moreover, the negative impact of smartphone in education is, the problem when users like to connecting to the social media such as Facebook, Twitter, Instagram, E-mail and Skype, make users too addicted and only love to virtual rather than reality life. Ezemenaka (2013), said, students who use the smartphones in the classroom make them lack of concentrated in their studies. They only focus on contacting with other users and connecting to the media social without pay the attention to the studies. This situation make them lack in academic performance. The using of smartphones and connecting to the social media during the classroom gave the negative impact to the students. However, Thomee (2011), stated, users use the smartphones for fun or to release their tension. The reason for released the tension is relevant because sometimes people need the entertainment because they are stressed in schools or in work environment. They can use the smartphones to listening to the music and so on.

Besides, the overused of smartphones make users stress and disturb their healthy. According to Kurmanbek (2015), "Users that constantly use the smartphones affect their health problem" such as neck pain which is users used the smartphone automatically their attention is only in smartphones that make their head turn left and right. At first it

only affect the neck, but the longer they use the smartphones, it will affect the back pain. Furthermore, it can affect to finger problem which is users feel pain in their finger if they use longer times in smartphones. It sounds like its nothing, but in this cases, users can got paralyzed. It suffered until deadly. However, according to Hawkins (2015), the more users use the smartphones, users are constantly looked at the smartphones screen and rolling up and down the smartphones it can cause the dim, eyesore, hazy, and affect the brain. The effect of sicknesses cause the longer affect. For the students, it affect the brain because the usage of smartphones cause the unstable brain. The users that are suffered from the pain, they go to checked up to doctor, but the same situation came up if they are not control themselves to not to addicted in use the smartphones.

Analysis Review

In this research, we have reviewed 20 articles that related to the topic which is the impact of using the smartphones in education. We have investigated two variables in the using of smartphones as the learning tools in educational aspects. The variable which is the impact and the benefits of using the smartphones as the learning tools in educational aspects. Those variables are utilized the research that we try to indicate. In our research, we also investigated the negative impact that affect the students and teachers in schools and also classroom. Mostly, the content that we are reviewed, we found that many benefits in using the smartphones as the learning tools. It gave the beneficial to the students, teachers, parents and also the researchers. In our research, we are investigated more to benefits of using the smartphones in education purpose. So here we have found that:

According to Sevari (2012), the author states, the positive learning by using the smartphones increased the student's performance in the academic. The learning by using the video or other features more effective because students learn something that differences than studying as the traditional ways that only use the textbooks to refer and it can make students bored and loss of interested in studying.

However, in our research, we have found that the positive learning by using the smartphones features is possible thing. Students suggested sing a song to memorize something. They can use the smartphones to sing together and the lyrics is must from their studies. For example, the lyrics are taken from the history subject. It more effective because it attract the students to interested in that subject. Also make students learn to memorize the good thing rather than sing a song that only give the bad effect to them. By this, it's can improve students skills in memorize and use it in their academic. Also improved student's skills in speaking and communication skills. The word that students did not even heard also will make students feel want to know that word and then make the research. Through it, it improved student's knowledge from did not know till they are professional to use that words.

According to Jumoke (2015), the learning that using the smartphones become the right choice because it improve the users such as parents, students and also teachers in

academic system. The smartphones are helps users in learning to be more skills in getting, evaluate, memorize, share with others and use the information. The smartphones helps in abilities to studies even though they are not in the educational institutions. They can learn in every time and everywhere they are. The use of social media such as Facebook, Twitter, Yahoo Group make student abilities to create the group of classroom as the medium to them to communicate each other to discussed together about the subject.

In contrast, in our research, we agree that the existences of smartphones are helps many students in build their own self esteem. Because they are learn to be this in the Youtube, Video, and the social media. Using the application, there is many tutorial that make by the professional to view by the users. Users can choose the best one to follow. For example, the tutorial that teach users how to make up, how the fashion style. As we know the fashion style that we follow that give the impact to us to be more update. Besides, the fashion increased the confident level of users. Users will know more and share it with other users. By watched the video they being more confident in faced the real life and the environment in the growth of technology. In this era, students need to build up their confident level to face the reality of life because there is many challenges that need to be faced in future. Apart from that, the social media that created are help students in make a new friends either people in same country or another country. Also helps in sharing the information like the news about in the country or outside the country. The news that got can gain the user's knowledge. It is important to users know about the news at least they make it as the lesson. Besides, it helps students and teachers collaborate together in anytime and anywhere they are. Teachers can update the news that related to the studies for example, the news about guidelines in their assignment or task by using the social media group. Students also can ask anything about the studies to the teachers if they are not understand about the task. The learning that use the video also the best ways because it make students easily to understand the situation without need to imagine that. By reading the textbooks, students only need to imagine the situation, but, with the video clip, it make students more understanding.

Tibi (2015), states, "Smartphones make users lack of abilities in critical thinking because by using the Google Search engine, user think it is the right information without thinking by their own". However, in our research, using the Google to retrieve the information make students more knowledgeable because when they are reach the website such as Proquest, Emerald, Science Direct, they download the article or journal in the application and automatically they read the article that they download. It give benefits to them because it can improve the reading habits among the users rather than reading the unuseful information. Using the search engine to retrieve the information sources decreased the times because students can access the Google anytime they want to use the information without need to go to the library to search information. The information in the internet sources are useful and users need to choose the good authors before use that information. Sometimes users are blurred to choose the information in the Google. Actually, the style is users only need to read all of contents and then evaluate what information that they are need and choose the better one to be as the references.

According to Jones (2014), the study discuss about “the growth of technological revolution are change the humankind lifestyle. The new generation that use the smartphone to connecting and communicating are able to get addicted”. However, in our research, it is not about the use of smartphones users get the addiction. It all about the longer users use the smartphones as to fulfil their invaluable thing, they may easily get the addiction. Some of users are use the smartphone as the education tools that helps in completing their task in education and other than that, other users are use the smartphone as the tool to business. The smartphones can give the benefits for the users that use the smartphones for tool that helps them in studies because it make easier to them to find the information, to communicate with people in asking the question, and also use the smartphone to help them in improving their skills such as use the dictionary to help them in know the word that they not know. The dictionary also helps them in translate the word from another language. Using the dictionary, users know more about the other language such as France, Chinese, and so on. It can improve students skills in more knowledgeable. Because, in the work environment, if people know the other language, they will get the allowance. Also it can easier to users to communicate with people that from another country. The benefits is, when users go travel, they don’t need to hire the translators because they can speak by themselves. So that it can save the budget. But, some of users that use for the entertainment only they can get addiction. It depends on the user’s intention. The users that use the smartphone for the entertainment such as for connecting to the media social, it make users addicted if there is no Internet connection or other reason that make them feel uncomfortable if they are not use the smartphones. If the users are use the social media as the medium for studies, they will got information and share it with other users. But if not, it can give the bad effect for the users especially for those who addicted to use the smartphones.

EXPECTED OUTCOME

The aim of this research is to determine the impact of smartphones in education to the students either in outside or inside the school institution. This research will give result how the smartphone gives the impact to the students either in positive impact or negative impact. The smartphones have the pros and cons, it depends on users to use it for the good or toward in bad. Throughout this research, we hope this research give some impact and awareness to the students, parents, teachers and community. The smartphones actually give the benefits to the users that use it as tools to help them in the studies, it helps in searching the right information that give them a chance to improve their knowledge and improve their skills. Besides, it helps students being motivated, give the effective tools for students, helps students in building up the confidence level, self-esteem, and so on. The smartphone also undeniable also gives the bad impact to the students when the students that overuse it may cause the users are being stressed and disturb their healthy. It affect the neck, but the longer they use the smartphones, it will affect the back pain. Furthermore, it can affect to finger problem which is users feeling pain in their finger if they use longer times in smartphones.

CONCLUSIONS

In conclusion, the overall of this research found that the smartphones is the best tool in helps users in studies. The smartphones being the effective tools that helps the students, teachers, parent in academic purposes. There is many benefits in using the smartphone in education aspect. The smartphones is the best tools because it allows us to communicate, give us the entertainment, and be more convenient and in some ways, more effective to use. We use it in allow us to communicate with the colleagues, parents and the loves. Of course it saves our time as well as our budget. In this research, we also found the negative for the users that overuse the smartphones. But, it can be avoid if users are control themselves in using a lot of time to the smartphones. The features of smartphones are undeniably the best rather than the computers because it have the same function. But, the smartphone are allows users to bring anywhere because it size can be placed in the user's pocket. Besides, it helps students being motivated, give the effectiveness tools for students, helps students in build up the confident level, self-esteem, and so on.

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