CHAPTER II

REVIEW OF RELATED LITERATURE

This chapter explains about definition of Smartphone, The Use of Smartphone, and Educational Purposes. It will be explained in the succeeding paragraphs.

2.1 Smartphone

According to M. Alfawareh & Jusoh (2014), smartphone is a new technology in media communication in people now. A smartphone is a new technology that resembles Personal Digital Assistant (PDA) which has the function to access the internet. It is because the smartphone has features of a regular smartphone exceeded Phillippi, (2011). Based on Murray, (2015) smartphone is a tool to share and get information and connect with rural and urban areas. Besides that, with a smartphone, we can exchange information with people in different areas. Becker & Elisa, (2010) stated that a smartphone is a phone which has the capability like Wireless Mobile Device (WMD) and has the function like a computer and can offer various features. Besides, a smartphone is used to dig more information as especially for searching and communicating with other people in different areas.

Hence, Smartphone has complete features with high purposes, the example is the touchscreen display, Wi-Fi, kinds of application to the browser, and other great applications. The smartphone contains some important things to supports the
sophisticated system, it belongs to Android, Symbian, IOS, BlackBerry OS and Windows Mobile (Bala, Sharma, & Kaur, 2015).

2.2 The uses of Smartphone

A smartphone is a communication tool to help humanity in this era. Nowadays, a smartphone is very popular. It is a bridge to connect to each other. It is also used for people in both adult and children. Besides, the smartphone becomes multimedia computers, people used cell phones to access the internet including taking a picture, making calls, sending and receiving text messages, also in one application. According to M.West,(2013) Smartphones have ability to provide students for access the internet whenever they need is another reason for learners to love such technologies and use them on a daily basis. Furthermore, students can use a smartphone for searching or access the internet and check your emails and much more.

Based on the research conducted by Thornton & Houser, (2004) the use of a smartphone can be described as follows:

1. Notes feature

This feature is used to save notes, memo, or even material for students which gotten from the class. Students often use this feature because it brings an important role for them, no need to bring so many books or papers to join the class, it is enough to bring smartphone which has note feature to save the materials they got.
2. Camera feature

Everybody knows the function of the camera, it becomes the most favorite feature used. But for students and in learning, the camera used for taking materials from the board, slides, it is simpler instead of writing very long sentences.

3. Voice Memo Recorder

Students can use voice memo record to record the conversations or interviews in the room. It is supported by Reinders & Lewis (2009), they used the idea to send students on quests to collect information from sources in the community, including from native speakers. Obviously, students will have to consider privacy issues and impress upon learner the importance of obtaining their interlocutor's permission before they do the interview, either each other or native speakers. Students can play the interview and conversations in class for feedback and discussion.

4. Keep a Blog

It is used to write or share the experience, tips, information, or even a diary. A blog is also an alternative to look for any information related to the education, it is because many blogs are made for sharing knowledge and information.

5. Microblogging on Twitter
It can be used for all people in different professions. In education, it is an alternative in doing the task to the students. But, it also helps teaching and learning process easier.

6. Assess Students

It is used by a teacher to supervise the student's task and the result of the examination. It can be accessed every time.

7. Language Exchange

This is good for those who want to learn and speak two languages in a time. It can be done by WhatsApp and Skype application.

8. Material

Every mobile phone has the memory in both internal and external which can be gotten by buying it. These memory used to save many applications which support the mobile phone.

9. Social networking

By mobile phone, the relationship between the teacher and students are warm. The teacher is able to control the students even though not in the class.

10. Play Games

Games are provided by smartphone, in both offline or online. It is created to entertain. In games, many of the languages are provided there.
So it can be one of the ways to improve the language which is used by the user in playing a game.

11. Text Messaging

Text messages can be used to send out vocabulary items at spaced intervals, thus increasing student’s retention. For example, you could text the word covered in class to encourage students to review them outside the school context. By sending out the words multiple times, you increase the chances that students will remember them. According to Thornton & Houser (2003), Short Message Service (SMS) text to increasing student’s retention.

2.3 Educational purposes

Education becomes prominent as it involves thing as most to take in this matter. In addition, it cannot be separated from humans live. Both males and females need to be educated. Therefore, they need a media as a tool in supporting the learning process, such as a smartphone. Smartphone has many purposes in education. According to Zulham & Sulisworo, (2016), there are three functions in using smartphone effectively, such as:

a. Media to Learn in Everywhere and every time

It means that smartphone can help students to find any information about their tasks that can be used in anywhere and anytime.

b. Media to Support the Learning Process
A smartphone can support the learning process by using LMS (Learning Management System), such as Edmodo, Schoology, google classroom, etc.

1) Edmodo

Edmodo is a microblogging platform for teachers and students. In Edmodo, teachers and students can do online discussion without meeting each other, giving polling to check students understanding. Edmodo has functions to media for communication, to facilitate for communication between student and teacher, as a place for examination or quizzes.

2) Schoology

Schoology is one of media for Learning Management System (LMS) that can be used for students and teacher. There are some features in Schoology:

• A course is a media to create the class of subject such as Mathematics, English and so on.

• Groups are to facilitate to make the group

• Resources as a source to study for students

• Google classroom

Google classroom is an application for students to study like reading, sharing their assignment. Besides, there is a drive for each student to collect their assignment.
Besides, according to Wahono (2005), in Mahera network, e-learning can support teacher and students in teaching and learning. Because network e-learning can improve student’s skill easier in learning process According to Rosenberg (2001), in Mahera network e-learning can give knowledge and improve student’s skill. In conclusion, e-learning such as Edmodo, Schoology and Google classroom can give advantages for students and teachers.

c. Media to Improve Self-Assessment

One of the facilities to assess the smartphone users is in Edmodo. It is because, in Edmodo, there is a polling to check the students understanding. Therefore, a smartphone can be a media to improve self-assessment.