

DEVELOPMENT OF HUMAN CAPITAL IN MALAYS LITERATURES THROUGH 4.0 INDUSTRIAL REVOLUTION APPROACH

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ABSTRACT:

This research is aim to discuss on the new approach that based on Augmented Reality (AR) to strengthen the activity for students in learning Malay literatures subject in school and help to develop the school students that possess positive knowledge, creative and critical in fulfilling the National Education Philosophy. The students that have difficulty in comprehend the novel 'Naratif Ogonshoto' lead to this studies and constructed the application of 'Sasteraya' that based on Augmented Reality (AR) technology that helps the student comprehension in teaching and learning the Malays literatures. A total of 100 students and three teachers of Malays Literatures became the sample for this research. The researchers also used the instrument of survey forms and interview oriented method. The data collected will be analyse based on statistics which from the percentage and numbers according to the choice of answers from respondents. The findings of this research indicates that to how extent the effectiveness of recent application that based on Augmented Reality (AR) technology can improve the students understanding in the teaching and learning of Malays Literatures, improve the development of the students positive knowledge, creative and critical to fulfil the National Education Philosophy and to how extent that this application that based on Augmented Reality (AR) technology functions as the consolidation activities to the students in learning the Malays Literatures subject in the school.

Keywords:

Human being, Teaching, Literatures, Industrial Revolution.

Article Received: 18 October 2020, Revised: 3 November 2020, Accepted: 24 December 2020

Introduction

Malay for The Institute Third Edition, (1997: 1194) interpret that literatures is an art work or writing in phrases or poem that have specific special characteristics. 'Kesusasteraan' is derived from the words combination which are 'su' and 'sastera' that can be found in Sanskrit language. The connotation of 'su' is good, beautiful and useful while 'sastera' is the works whether in writing, verbal or the opposite (Anak Osup, 2017; Ganaprakasam, 2018). Next, it is given the circumfixes of 'ke an' to forms the pronoun. 'Kesusasteraan' if it combined, it can be defined as the literaries that contains the value of art to the readers and the results is delivered through language while Malay for The Institute Dictionary Third Edition, (1997: 1194; Hamzah, 1997), stated that literatures can be defined as art work or

writing in phrases or poem that have specific special characteristics. To be summarise, Malay Literatures can be defined as literaries that created by good community verbally or written.

Literatures as a language that has been used in the art work has certain special characteristics Al Muhsin & Ahmad (2019). Malays literatures as a tools of education is the selected subject in high school. The act of taking lightly to this subject affected the development of teaching and learning of Malays literatures which is not effective among high school students. This subject is not favourable among many students (Al Muhsin & Mustafa, 2020). The students are lack of interest in any activities or reading material related to the literatures even though they just been exposed to the literatures whether the components of Malays

literature (KOMSAS) in Malays language or Malays literatures subject as elective (Al Muhsin et al., 2020). The text novel of “Ogonshoto Narrative” by national laureate Datuk Dr Anwar Ridhuan has been used as the texts in the elective Malay literatures subject to the form 4 and 5 students. In this case, the effectiveness of the teaching and learning process of Elective Malays Literatures need to be improve through the application of digital system that use interactive technology that will produce more interesting learning environment. Hence, the new applicaton that based on Augmented Reality (AR) technology will be develop to increase the level of student’s understanding and make it convenience for the teacher to teach. The researchers will conduct the survey at three school which are SMK Chenderiang, SMK Bandar baharu Sungai Buloh and SMK Perempuan Kapar.

The capital can be defined as something used to achieve the other thing based on the advantages that it has. Other than that, it can be defined as something that can be used to expand your assets. While human is defined as a creature that created from God. With the correct and precise development of human can help the country to produce good society and ensure the successfulness of the country future. As for the full definition of human capital is the individual that goes to public or private university will produce work force that can be seen as important assets to the nation. The intellectual summarise that the scholars are the most targeted to bring success to this plan because their dynamically cognitive, progressive and exclusive that attained to them. Hence, they become the generation that will leads the state government one days based on the government modules and pattern .

The 4.0 Industrial Revolution is involving the automation technology that gives new challenges to every sectors in this country that needs them to make changes in conjunction to the digital transformation to remains competence. It is

included the discovery of new technologies such as automation, analyse and big data, simulation, integrated system, robotic usage and cloud that will boost the the progress in modern world landscape. This revolution indicates that the present of cyber physical system that involving new accessibility to the human, machine and latest technology. Hence, the young generation must be prepared with education in facing this industrial revolution. Not just that they must be equipped with conventional knowledge but they also must be exposed to the concept of implemented technology. The young generation must possess the characteristics such as curiosity and strong urge to become innovative so that the helpful technology can be produce in the future.

Augmented Reality (AR) is the combination of virtual object and real object to expand the technology that allow the real-time merging towards digital content that made from computer from real world that will allow the users to see 2 dimension or 3 dimension virtual objects. This technology stores certain information in virtual world and make it visible in real world with helps of certain devices. For instance, webcam, HP Android or spacific eyewears. The users in real world cannot view the virtual object with their normal vision. The devices such as mobile phone, computer, camera or others devices is needed to identify or view the virtual object into the real world.

Malays literatures as an educational tool is the selected subject in high school. The lack of seriousness towards this subject will resulting in the progress towards the development of teaching and learning Malays literatures ineffective among high school students. This research problem is because there is texts in form 4 and 5 Malays literatures that is hard to understand and make it hard to produce good human capital among high school students. Thus, the teaching methods from the Malays literatures teacher plays an important roles. The teacher is primary source of reference

for the students in school, to determine on the successfulness of students it is came from the teacher itself. Furthermore, the teacher act as an agent to spread the knowledge in school and it is hope that the teacher would not only teach or give knowledge but also educate and develop good attitude and values that will become an example to the students. Hence, to spark the interest among the students to improve their teaching and learning session of Malays literatures subject, the implementation of digital system that use interactive technology will make the learning environment more interesting. This research is predicted to develop human capital with quality and have better understanding on the importance of the Malays literatures subject to generate the civilization to the race and country.

The teaching method in understanding the literatures is a problem that need to overlook in this research. The research method is conduct on field by testing the understanding of the students before and after using the new application that related to the Augmented Reality (AR) technology. Other than using the effective strategies and teaching and learning method, the implementation of technology can drive a teacher to become an example for the students to involve in the process of teaching and learning thoroughly. This research shows that the interactive technology in teach Malays literatures subject especially the “Ogonshoto Narrative” novel will boost the effectiveness in teaching and learning the Malays literatures. The high school students that came from various demographic profile and intellectual will be involve in this research. This research need to be conduct because there is gap between the students achievement in Malays literatures subject with the other subjects. In other words, the negative and positive perception towards the student can influence the teaching and learning Malays literatures. Hence, this interesting application is hope to increase the student’s interest towards learning the Malays literature subject and

producing good human capital through Malays literatures subject. This research is aim to discuss on the new approach that based on Augmented Reality (AR) to strengthen the activity for students in learning Malay literatures subject in school and help to develop the school students that possess positive knowledge, creative and critical in fulfilling the National Education Philosophy (Jaafar, 2000; Collet et al., 2019; Hospital & Ta, 2019).

The Significance of Studies

The education system plays important roles in country development. The quality and excellence education is one of the effort to develop new generation in conjunction to well developed current world. The aim to make Malaysia as a center for academic excellence in the South East Asia region and international level in 21st century require strategic plans that can increase the capability towards higher quality. The problem of students lack of interest to the Malays literatures subject is often become a hot topics for discussion among school administration and parents. This phenomenon will become an obstacle for the students to continue their studies. The truth is Malays literatures subject is not a hard subject to be learn. It is depends on the particular student in their interactions and efforts with their respective teachers during learning. Hence, this research will give benefit towards the teaching methods in the existed education systems. This research is also function as the attraction that will triggers the student’s interest towards Malays literatures subject. From the wide perspective, the capability of this research in pioneering the dynamic changes in developing the education sector specificaly in learning qualities which will encourage the school to make it more available classes for Malays literatures. This means that, indirectly it will helps the government to produce good human capital that will bring benefits to the society. The findings of this research will become an example to the school and teacher that benefitted from the approach that based on Augmented Reality (AR)

technology which widely use in future. Other than that, this research will give benefits to the certain people as following:

1. Teacher

This research will benefit to the Malays literatures teacher to improve their teaching method and spark interest among students especially to learn the Narrative Ogonshoto novel. This research also will give feedback and contribution to them to improve their teaching and learning progress and encourage two way communication between teacher and student.

2. Administrator

As for the school administration, this research will give contribution or ideas towards development teaching method based on recent technology and generates new ideas in Malays literatures teaching and learning process.

3. The Other Researchers

It is important to the other researchers to outlook on the effectiveness of technology studied by the researchers and see the variables that can encourage the increasement in Malays Literatures subject.

The Limitations of Studies

This research only limit to three high school around Perak and Selangor which are Sekolah Menengah Kebangsaan Chenderiang, Batang Padang, Perak; Sekolah Menengah Kebangsaan Perempuan Kapar, Klang, Selangor and Sekolah Menengah Kebangsaan Saujana Utama, Bandar Baharu Sungai Buloh, Selangor. The questionnaire survey forms will be distribute to 100 students (30 students from every class and 3 chosen schools. All of the respondents that answers the questionnaire survey forms is from form 5 students and Malays literatures teacher that chosen by the researchers at three schools that has been stated.

The clarity from the respondents in answering the questionnaires survey forms and during interview is also the limitations for this studies. The researchers are making few assumptions as following:

- a. Respondents answering the questionnaires survey forms and interview question honestly.
- b. The questions in the survey forms can be understood by respondents.
- c. Respondents able to answer all of the questions without any helps from teachers or friends.

Next, the recording interview also will be done to the author of Malays literatures text form 4 and 5 (Narrative Ogonshoto novel) which is SN Datuk Dr Anuar Ridwan. This interview main purpose is to complete the data findings that applied in the new application that based on Augmented Reality (AR) technology.

Literatures Review

The literatures review is one of the method that to gain the knowledge in general about the past researchs that have correlation with the research that will be done by the researchers. Malaysia aim to become a center of academic excellence in South East Asia and International on 21st century. Hence, we need to put the efforts to boost the image and education quality to international level. Subject that is considered as unimportant specifically Malays literatures is often ignored. There are many scholars that discussing on the technique and suggestion to create better teaching and learning environment that is more effective and positive. Every of them also has their own opinion towards the teaching technique which it reach the objective implicit or explicit.

Even though during the cyber era where the we are surround with urban technology that students are becoming more advance, the teachers still has important roles to guide the students in

order to achieve the learning objectives. The teachers need to be creative and provide various teaching methods according to suitable learning material and students that learn from it will gain huge impact. Hence, it becomes a challenge to the Malay literatures teachers to fulfil the requirement. Therefore, we should not let the Malay literatures subject in isolation in our country. The globalisation era and borderless world should not be a barrier to the development of race civilization.

From this research, the researchers can come up with few researches and other scholars' past researches on Malay literatures subject in the context of teaching and human capital development. According to Ali (2007:18), education is one of the important mechanisms in human development. The curriculum co-curriculum in school or higher institution are moving towards the human development that possess skills, balance, achieve professional level in order to fulfil the country vision to be well developed country in 2020. The development is hoped to be meaningful along with the eastern civilization. In order to go through the challenges that can tarnish our identity, the strong core is needed. The foundation must be filled with intellectual development to develop skilful individual. This goal is hard to accomplish that solely based on academic because it depends on the mastering of the knowledge and also values. These elements are the core in developing the society with competence, creative, critical and brave in order to face the challenges during globalisation.

Human capital is more focused on the development of knowledgeable and skilled human resources to generate economic returns. The human capital is not only focused on the intellectual development but spiritually is also one of the important things to look out for. The human capital is needed to develop the human capital that is balanced with spiritually, emotionally, intellectual and physically. To develop a

generation with sense of knowledge, well-mannered, responsible and contribute to the country, we need to deliver continuous efforts in developing the human capital (Mohd. Noor, 2007:36). The important elements that are critical in achieving the national mission is to develop quality human capital. The development of human capital is the core in 9th Malaysia Plan. The development of human capital is implemented holistically which includes having the knowledge, skills and positive ethics, being progressive in education, training and lifetime learning (Unit Perancangan Ekonomi Jabatan Perdana Menteri, 2006:249).

Other than that, Sabran & Khaza'ai (1987:99) through their research titled "Pendekatan mengalami menghayati untuk pengajaran pembelajaran Kesusasteraan Melayu" trying to find out the effectiveness and suitability of approaches in teaching methods in Malay literatures subject. From the research, the researchers gain findings that the approaches that used have the potential in increasing the students' interests and understanding of Malay literatures.

The teaching and learning process needs a creative and competent teacher in modifying the methods or technique on teaching in class. Wan Chik (Kementerian Pendidikan Malaysia, 1981:4), suggests that the values of literatures in our lives, the literatures can develop personality, aesthetics and become an important medium in someone's process to master, seek the values and adapting to civilization. There are many recent issues discussed in this matter and the literatures in self-development and civilization should not be ignored. His stance is about the teacher roles that they should be more responsible in increasing the students' progress specifically in learning the Malay literatures. On the other hand, the issue to develop first-class intellectual human capital is rarely to be seen in the knowledge context of Malay literatures. In the development of intellectual human capital is not just about building

machinery, capital or buildings but also developing the human beings (Che Man, 2007:15).

Next, Ab Rashid (1998:3) stated that in develop the teaching strategies, the teacher can choose the suitable method and teaching and learning strategies. The effectiveness is depends on how they are going to modify the technique and learning material and teaching aids through the activities that will encourage the students to understand and analyse the literatures critically while Abdul Hamid (1993:7) suggests that teachers should use their creativity and variety in their teaching and learning technique to avoid the students feel bored that they exposed to same technique during the session. The repetitions of teaching technique and methods will make the students less interested in learning Malays literatures.

However, the assortment of technique is not enough if the teachers did not try to modify it according to the student's suitability. The teacher should try to apply the development of intellectual in the students during the teaching and learning session. As for the conclusion, the intellectual human capital is vital element in order to develop the community. The intellectual human capital can be created if the individual taking the approaches to start learning the Malays literatures subject.

A good teacher is the teacher that can adapt with any students condition during the teaching and learning session and survive with the topics in Malays literatures subject that sometimes contain abstract and using classic Malays sentence structure such as narrative. Thus, the technique and methods that the teacher use must be variety according to the right topic to be teach. This statement is supported by Ab. Rashid (2000), he suggests that the variety in technique and methods will draw the student's interests and make them focus in learning the subject. The students nowadays are attracted to informal education and

they are becoming more active during the learning session. According to Ismail (1999), he suggests that by choosing right teaching aids is important in order to grasp the student's attention to learn literatures. There are many teaching aids from recycle items, "Do It Yourself" (diy) and the bookstore available. The wisdom of teacher to choose the right teaching aids and apply them in their teaching and learning session is one of the factors that cause the effectiveness in teaching and learning the subject.

With the development of latest informations and communication technology, teachers are encouraging students to find the learning material from compact disc and surfing websites on internet. The usage of various and suitable learning material will excite the students to remain eager in learning and teaching session. According to Mohd. Yassin (1999), in his proposal titled "Pendidikan Kesusasteraan Melayu Membentuk Masyarakat Madani" suggests that the approach to think through the skills of thinking creative and critical (KBKK). This approach contains few stages that will produce active students and will boost the students cognitively on the certain topics of the subject. In his opinion, literatures needs the students to have strong appreciation to understand, analyse and come up with solution during learning literatures.

Other than that, the thinking skills is important because it will prepare the students in facing the future later. Students are hoped to always interpret something in critical, analytic, being able to overlook the strength and weakness, making decision, act in logical and being rational.

Hussin (1994:276) stated that the skills of teaching need to be mastered by teachers. The skills is consist of the mastering the technique or method, modifying the learning material, reasoning, explaining clearly with right example to the students while the students need to be exposed with the learning skills such as listening,

writing communication, report writing, constructing mind maps and et cetera. In other words, the students need to know their purpose of learning something and right ways to learn in class or outside.

The mastery of learning skills will make the students able to get clear picture about the topics that they learnt with the teachers. It is teacher's role to change the students perception and attract the students to learn and focusing during teaching and learning session. Hence, the teachers should be proactive and come up with initiative to increase the skills and come up with more effective technique in teaching and learning that will attract the students interest to learn and fulfil the learning syllabus.

To be summarise, it is found that the human capital development and the strategies, methods of teaching and learning is important to achieve the objectives. Every single subject need to have right approach, method or techniques. By having various genre for the teaching and learning, the method of teaching and learning is also hope to be varied. Literatures is not only on the narrative or tales but it is reflecting on the race identity or the background of the past in the society that we can see through modern and traditional literatures. These past researchs shows that in order to make the teaching and learning session more interesting and fun, the teachers must use right technique and approaches suitable with the topic that will be teach.

This is because, the literatures is the absurd and vague field that there are so many things kept behind rather than exposed so that the specialty need to be explored and mastered. Thus, the literatures teacher need to equipped themselves with knowledge and skills. Hence, indirectly we can see how important that is the exploitation of various technique, strategies, approaches and methods during the teaching and learning.

The research that has been done by the researchers about new application based on *Augmented Reality* (AR) will support the past researchs. With this research, the findings of the studies is hope to expand to the others creative texts application.

Research Methodology

The part of research methodology will give clear view and describing on important things about research method, instruments, data collection procedure and data analysis. The researcher will conduct the research to gain the findings through questionnaire surveys form. The sample will be involving form 4 students at three school around Perak and Selangor which are Sekolah Menengah Kebangsaan Chenderiang, Sekolah Menengah Kebangsaan Perempuan Kapar, Klang dan Sekolah Menengah Kebangsaan Saujana Utama, Bandar Baharu Sungai Buloh. This research will be conducted for two times at the chosen school which is before the implementation of *Augmented Reality* (AR) technology and after implemented the technology in class.

Other than that, the interview session will be conduct with the novel author "Narrative Ogonshoto" which is SN Datuk Dr Anuar Ridwan. The interview purpose is to complete the research data that applied in *Augmented Reality* (AR). This research will also conduct with reference from library. Through using library reference academically such as academic books, journal, seminar articles and reports. The source will be guidance to prepare the needed information for this research. The researchers will also refer to form 4 and 5Malays literatures textbook which is *Narrative Ogonshoto* by Anwar Ridwan to find the idea in preparing the questionnaire surveys form.

The researchers will choose only form 4 students at three school around Perak and

Selangor which are Sekolah Menengah Kebangsaan Chenderiang, Sekolah Menengah Kebangsaan Perempuan Kapar, Klang and Sekolah Menengah Kebangsaan Saujana Utama, Bandar Baharu Sungai Buloh. The questionnaire surveys form will be distributed to 100 students (from three classes at the chosen three school). The findings gained are depends on the respondents honesty in answering those questions.

In this research, the questionnaire surveys form is chosen as the main instrument because the reliability that it can obtain the information about trustworthy, feelings and desire from respondents towards the method of teaching and learning Malays literatures specifically involving the new application that based on Augmented Reality (AR) technology. The questionnaire surveys form is also considered as suitable because it is match with the numbers of sample that chosen which are the total of number 100 students from three schools. Other than that, the research instrument such as questionnaire surveys form will help the researchers to obtain precise information because the subject is not influence by anyone. In addition, the subject will also feel that they are free and safe to give the precise and true answer based on stimulus and also when the types of questionnaire surveys form from the researchers is the selected answer types of questionnaire surveys form. This type of questionnaire survey form make it simple for the subject to choose the answer and do not require much time because the subject will choose the answer given. The researchers also feel easy during analyse the answer.

The interview session with the novel author of Narrative Ogonshoto which is SN Datuk Dr Anwar Ridhwan is conducted with 15 questions point out and recorded at Akademi Seni Budaya dan Warisan Kebangsaan (ASWARA). The questions is set to two parts which are Part A and Part B. Part A is the simple biodata of the author, how and when the author have the idea to produce his works, the difficulty or challenges

face in producing the works and the relevance that it is becoming the textbook for the students that taking Malays literatures. While the part B, it is more on to understanding the content of Narrative Ogonshoto novel and the recommendation by the author to help the student understand the novel.

The library research is the secondary source, therefore there is no any new and original researchs. This research only involve the writing on literatures review and discovering the research and theoretically and the contribution on certain topics. The main purpose is to give the readers to the recent library research on certain topics that will become a foundation to the other purpose such as initiate next research that might be need to research in certain field. This research is also meant to obtain the review towards the literatures such as academic books, journal, seminar article and reports. The reference can become a guidance to prepare the core information needed. For instance, the researchers referred to the form 4 and 5 Malays literatures textbook by Anwar Ridhwan to obtain new ideas in preparing the questionnaire surveys form.

The library research is important because through this method, the researchers can get clear view about the principles, concept, method, description and analysing data that suitable with the design. The library research will also involve few main process such as compare and contrast, analysis, evaluate, conclusion and synthesise.

The field research is the most important source to get new information. This research allow people to understand the context of research deeply. There are several steps before we do the field research which are choosing the right setting, writing application letter to the concerned, early preparation and proper planning and et cetera. This research has been done at three school around Perak and Selangor which are Sekolah Menengah Kebangsaan Chenderiang, Sekolah Menengah Kebangsaan Perempuan Kapar, Klang

and Sekolah Menengah Kebangsaan Saujana Utama, Bandar Baharu Sungai Buloh. The researchers chose 100 form 5 students (three classes from the three chosen schools). Next, the interview session also conducted with the novel author "Narrative Ogonshoto" which is SN Datuk Dr. Anuar Ridwan. The interview session on field purpose is to complete the research data findings that applied in Augmented Reality (AR) and also the data related to the implications towards the students as human capital.

The data collection process that has been done by the researchers are:

- a. Perak and Selangor as the research setting.
- b. The three schools chosen which are Sekolah Menengah Kebangsaan Chenderiang, Sekolah Menengah Kebangsaan Perempuan Kapar, Klang and Sekolah Menengah Kebangsaan Saujana Utama, Bandar Baharu Sungai Buloh.
- c. Prepared the questionnaire surveys form and interview questions and validation for the questions develop for questionnaire and interview from lecturers.
- d. Seeking for written permission from the concerned and after obtain the positive response from the concerned, confirm the booking and a letter of reply.
- e. Distributing the questionnaire surveys form to the chosen students.
- f. Collecting questionnaires surveys form to be analyse.
- g. Conducted interview session with the novel Narrative Ogonshoto.
- h. Analysing data.

This research will contain both of the qualitative and quantitative data. The quantitative data collected will be analyse to get the answers for the questions from the researchers. The findings of the studies and analysis are depends fully on the respondents answer. The data collected and analysed through descriptive method

which from frequency and percentage. The calculation of frequency mean and percentage of frequency mean will become as a foundation to know the respondents perception about the aspects and to see the comparison between the variables.

In this part, the researchers will analyse and elaborate the data from the respondents based on the findings from the research. The data collected will be analysed by using 'Statistical Package for Sosial Sciences' (SPSS) Versi 10.0. Furthermore, the data will be analyse in stages by using this method, percentage and frequency mean that will be interpret in table forms to be describe in descriptive in the chapter 4. The qualitative data is the responses from the teachers during the interview conducted by the researchers with few of Malays literatures teachers and will become minor evidence for the researchers discussion in the findings of studies later. The teacher's point of view will become an additional information to support or rebut the findings of studies later.

All in all, the processed findings of studies will be analyse and intepret to explain the effectiveness of methods used in teaching and learning Malays literatures.

ADDIE Model Application

ADDIE Model is a designated model that function as the guidance toward software development and teaching learning material based on needs. The development of software in this research is the "Sasteraya" application. The purpose of this model or application it is design to produce teaching plan and learning material so that the teaching process will be effective and efficient. ADDIE teaching model is including the phases of analysis, design, development, implementation and evaluation. The analysis phase involving the process of determine and identifying the problem that need to be solve. After the problems has been identified, the analysis process will be start to find the causes or factors related to the problem. The

analysis process involving many aspects such as analysis towards user, learning environment and identify teaching goals.

To this extent, few analysis will be conduct such as analysis on learning environment, user's analysis and determine teaching goals. There are several questions that can be point out during the analysis process which are:

- a) Who is the user and what is the characteristics?
- b) Determining new attitude that will be portrayed?
- c) What are the existed learning challenges?
- d) What are the choice of medium in learning?
- e) What is the duration that needed to finish the project?

This phase is the core for the other phases in teaching design. This phase functions as explains problem, identifying the source of problems and determine the solution for the problems. This phase is involving the research technique such as desire analysis, work analysis and assignment analysis. The output for this phase is including the teaching goals and the assignments that need to be teach. All of these output will become an input to the design phase.

The design phase is implemented after the needs analysis has been done. It will explains on the view about design, structure, theoretical approach, types of media and technology that will be use. Other than that, it also involve the process of designing the specifics objectives for the teaching, items development for the test and choosing the teaching strategies. This phase is important to plan the strategies that will be develop in teaching and become a guidance to achieve the teaching goals. The elements in the design phase such as the targeted person, carrying out learning analysis, develop objectives and test items, choosing the medium and teaching arrangements.

The development phase will involve the development of real system that utilises all of the media element and chosen technology based on needs. This phase is constructed based on analysis and design phase. The purpose of this phase is to develop the teaching pelan and learning material. During the development of this phase, the steps of teaching and media will be use in the teaching and other documents needed. The output from the design phase will be an input to the development phase. The development of multimedia project will be carried out according to agreed specifications. Every single development will be tested so that it will remain consistent and operates effectively.

As for the implementation phase, at this level the teaching material that has been prepared will be use or implemented in real time teaching. The multimedia project that has been prepared will be tested on real user as for identifying the error during the process of project development. If there is any error found, there will be amendment before it is let out for the targeted users to use it. Evaluation phase divided to two parts which are formative assessment and summative assessment. Formative assessment is included every phases in ADDIE process. The formative assessment should be done towards all of the stages in order to test the effectiveness. The summative assessment will only involve the specific design testing that require users feedback such as contents, strategies and multimedia element through interview, questionnaire surveys form, supervising and testing methods. Usually, the summative assessment will only happens at the final stage of the teaching material projects.

Applying “Sasteraya” Towards the teaching and learning of Ogonshoto Narrative Text

The implementation of “Sasteraya” application that developed for the purpose to simplify the teaching and learning in the class of Form 4 that

taken the subject of Elective Malay Literatures. The Ogonshoto Narrative novel presents the narrative that give difficulty for the students to understand the text. By having the application of “Sasteraya” that implemented to the form 4 students in three school which are two in Selangor, Sekolah Menengah Kebangsaan Perempuan Kapar, Klang and Sekolah Menengah Kebangsaan Saujana Utama, Bandar Baharu Sungai Buloh and one in Perak which is Sekolah Menengah Kebangsaan Chenderiang.

The research indicates that this application can give impact to the teaching and learning of the students because it is capable to spark their interest through the application “Sasteraya” by using mobile phone. The books that used QR code has been distributed to the students through the application “Sasteraya” and it bring different experience in the teaching and learning to be compared to the conventional or teacher centered oriented.

The students is found that they can understand easily and have better experience during the teaching and learning because they can view and listen to the audio and visual of the novel author which is Ogonshoto Narrative. It is found that it helps the students a lot when the information of the novel is narrated by the author himself. It is more precise and effective contrasting to the dependence of the teacher interpretation that solely teaching on limited reviewed books that are hard to find.

Conclusion

Augmented Reality (AR) technology application is suitable to be implemented in teaching the Malays literatures subject as the approach to create the interest among the high school students. The challenges in teaching and producing the students with positive values in conjunction to the society that needs the variety of methods in teaching. This teaching method that has been used is known that it helps the students to understand the novel structures and help them develop a

characteristics such as creative and critical. The sort of enjoyment in learning is important so that the students would not feel bored during their learning. Teachers that has alternative to spark the interest in students to focus towards the learning especially the novel that is quite heavy for the students such as ‘Naratif Ogonshoto’

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