



The Adversity Values and Online Media Education to Improve the Students' Character Values of Vocational School

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Abstract: This research aims to find out deeply the improving of students' character education through the adversity values and utilization of ICT (online media) education in vocational school, namely: 1) how are the internalization of the adversity values and ICT (online media) in learning process; 2) the improving of students' character ; and 3) its useful toward students' characters strengthening. The research was a descriptive qualitative approach. Technique of data collection by observation, interview, and documentation in vocational school of Pleret Bantul Yogyakarta. The data analysis was by: (1) reduction, (2) display and (3) provided conclusion. The result of this research shows: 1) the pattern of educational values of adversity intelligence (AQ) towards students, is through several programs, namely: (a) the use of ICT (online media) positively for independent pursuit; (b) scouting activities; (c) extracurricular activities. 2) the improving of students' character values, namely: (a) students be optimistic; (b) have resilience; (c) be strong to face the life problems; (d) have self-control, and (5) have the strong motivation for life successful, and so the improving of ICT utilization, namely: (a) the media is used for positive activities; (b) students have a strong struggle to master ICT in order to follow the lessons; (c) students become more creative, and independent; 3) It usefulness of the adversity quotient (AQ) values and ICT (online media) education toward students' characters, namely: (a) students become possessed of strong fighting spirit in learning; (b) more flexibility is not limited by space and time and helps students' understanding because learning is more interesting; (c) students are rich in sources of knowledge through ICT (online media) easily and quickly and (d) also have good academic achievement.

Keywords: adversity, media online, improving, students' character, vocational school

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INTRODUCTION

The 21st century there is a change that is so fast, a situation that is often called the industrial era 4.0. This is marked by the many changes in various aspects of life and including in the world of education in this context including the development of the world of information and communication technology (ICT) in a powerful manner which at the same time provides influence and challenges in the world of education [1]. The development of technology, information and communication causes the world seems to be getting smaller, so that the implementation of education can be reached without insulation and distance, space and time. Utilization of ICT for the development of education if it is not balanced with strong character values can be a new problem for students [2].

The discourse of education problems in Indonesia and the solution efforts are endless and very interesting to discuss to find a solution, one of which is the problem of strengthening students' character education related to the fading of school culture which is quite serious, namely the indicator is that there are many students involved in brawl behavior, consuming alcoholic beverages, behaving in deviant from moral norms, and the rise of gangs or motorcycle groups that often cause troublemakers who are less familiar with human values, and the emergence of intolerant and vigilantism [3].

This is era of the industry 4.0, the science of communication and information technology is growing very rapidly, and various types of products based on sophisticated technology have emerged. The development of information and communication technology can no doubt have a double impact, namely: can be positive and can be negative for adolescents, especially after online media is found. Therefore it

needs to be balanced with strong character education values [4]. One contributing factor is that in recent years, the practice of educational development has been more focused and emphasized on aspects of developing intellectual intelligence in students, and has not yet maximally instilled reinforcement of student character values [5]. In this case the values of student adversity and the use of ICT (online media) as a medium of learning is good and maximum. This has an effect on the low quality of human resources in the outcome of education in Indonesia and the decline in the nation's character values.

This is where the role of the School as an educational institution is expected to be able to produce graduates with integrity who are ready to face the challenges of a more complex future life. For this reason students need to be instilled strong character education values through the values of adversity intelligence (AQ) and online media understanding as a means of education. An educational institution needs to take a serious look at the educational problem and find the right solution to overcome the problem.

Sutarman, Heru Kurnianto T, and Tasman Hamami, stated that holistic education is to build strong character of students to be able to face life's challenges, be patient, and be able to solve the problems they face [6]. This is where the role of an educational institution is expected to be able to produce alumni with character and efficiency [7].

According to Presidential Regulation no. 87 of 2017 related to the improving students' character education, including 5 character values, namely: (1) religiosity; (2) mutual cooperation; (3) independent; (4) nationalist; (5) integrity. In accordance with the mandate of the Government Regulation, it seems clear that the government regulation is useful for developing the potential of students to hone the values of the character of faith, mutual cooperation, independence, and integrity (values of fighting power) [8].

The fact is that there are still many educational institutions in Indonesia at this time considered to have not been maximized in instilling the strong students' character values. This is caused by the still not fulfilling the values of student character education to the fullest, but still tends to focus more on developing students' intellectual intelligence [9]. Based on these problems, it needs the innovation of improving in educational patterns that can be an educational model that hones the potential of students, related to the values of student adversity intelligence and the using of ICT (online media) in order to produce quality educational alumni.

In addition, the implementation of education of AQ values and the using of ICT (online media) in Pleret Vocational School to run properly, it requires the seriousness of all stakeholders. Therefore, teachers and employees not only master the competencies in their respective fields but also become an example to the students regarding the strengthening of character education through internalization of the values of adversity intelligence (AQ) and the using of online media [10].

The values of adversity intelligence (AQ) and the use of online media are expected to be realized with integrity in human resources, which are knowledgeable, patient and have a fighting spirit and integrity in living the future with more challenges complex. This is in line with what was stated by Mrs. Sri Purwanti, Deputy head of Pleret Bantul Yogyakarta Vocational School that Vocational School of Pleret Bantul has a vision as a school that produces graduates who are pious, professional, have character and national personality [11]. This is in line with the mission of Pleret Bantul Yogyakarta Vocational School, which is as follows:

(1) practicing worship and fostering religious life seriously, (2) instilling an intelligent, skilled and independent attitude; (3) mastering the development of Science and Technology; (4) developing an entrepreneurial spirit; (5) developing national character and culture

Based on the School Mission, that Vocational School of Pleret Bantul is an educational institution that has a strong mission by the way students are prepared to have various competencies, namely: (1) personality competence; (2) intellectual competence, and (3) good entrepreneurial spirit competencies that are relevant to the nation's problems in the current industrial era 4.0 [12].

Therefore, students must have the values of adversity intelligence (AQ) and mastery of ICT (online media) properly for the realization of Human Resources (HR) with the integrity and qualified needed by the field of work. One solution of the various educational problems and challenges that arise is that students should have adversity intelligence (AQ) and master ICT in dealing with various life problems. Students need to be inculcated the values of various aspects of intelligence, which are related to student self-development related aspects of the values of fighting power (AQ) and ICT mastery. By having the passion and values of patience, perseverance and tenacity in learning and living life it is believed that students will succeed in their lives and have good achievements in learning.

According to the various data and fact, the position of this study is different from previous research that the practice of education so far has not maximally honed the potential of students toward students' character improving related to students' adversity intelligence values (AQ) and maximum

utilization of ICT (online media). Therefore it is necessary to have an educational institution that sharpens the values of adversity intelligence (AQ) for quality students improving and ICT mastery.

Considering, there are still some shortcomings in the implementation of education patterns in several Indonesian educational institutions at this time, it is necessary to have educational innovations, both in terms of management and learning methodology, to unravel the red thread and provide solutions to the problems of education in Indonesia therefore in this study the author raised the research topic: "The Adversity Values and ICT (Online Media) Education To Improve Students' Character of Vocational School PleretBantul Indonesia."The writer prefers and is interested in Vocational School of Pleret Bantul Yogyakarta as a place of research for, several reasons:

(1) from the perspective of historical values that this school has a "unique" history which was established during the recovery of community conditions in 2007 after the earthquake in Bantul Regency, Yogyakarta in 2006, precisely in the Pleret area, a sub-district area which most swallow sacrifices. In 2007 the community together with the stakes holders of the Pleret Region and the Bantul Regency Education Office rose to build an educational institution in an effort to improve adversity quotient values in the Bantul Regency Region of Yogyakarta;(2) Vocational School of Pleret Bantul is one of the educational institutions in the Special Region Province which is concerned with the developing of students potential with integrity and personality, through developing the values of adversity intelligence (AQ) and the use of ICT as an integrated learning media.

This study focuses on examining in depth related to: (1) the pattern of education of adversity values (AQ), and the use of ICT (online media) toward students of Vocational School in Pleret Bantul Yogyakarta, (2) changes in strengthening the values of student character education and (3) its benefits toward strengthening values of character education of students related to the values of fighting power, tenacity, resilience and integrity toward students of Vocational School in Pleret Bantul Yogyakarta.

Whereas previous relevant research related to strengthening the educational values of student characters and the use of ICT (online media) as a medium of learning in madrasas or in schools there have been several previous studies. The following are some previous studies that can be used as preliminary studies to distinguish the position of this study, against previous research, namely:

- a. Saimroh's research results, related to the utilization of ICT for Learning in MAN 1 Bekasi. The result of his research, showed: the need for seminars and workshops on the importance of the use of ICT by teachers toward Madrasa Quality Improvement [13].
- b. Nursalamah Siagian research results related to utilization of ICT for Learning in MAN 1 Cirebon. The result of her research, showed that: Teachers have not been maximized in the using of Information and communication technology in the process of teaching and learning activities. [14].
- c. Juju Saepudin's research result related to the utilization of ICT for Learning in MAN 1 Garut. The result of his research, showed that: the need for institutions to increase the capacity of internet access in the using of ICT for the teaching and learning process, so that internet network is not slow [15].
- d. Heni Vidia Sari and Hary Suswanto's research result are related to the Development of Web-Based Learning Media to Measure Student Learning Outcomes in Basic Network Computer Subjects in Computer and Network Engineering Skills Programs. The results of their research showed that the advantages possessed by web-based learning media developed, among others, are as follows: *First*, media can be accessed online so that it is more flexible. Second, media can be accessed through computer or laptop and mobile devices that have supporting software such as web browsers. Third, the development of media has complete content that is mind maps, material, pictures, videos, and practice questions to improve student understanding [16].
- e. Sutarman, Heru Kurniatio Tjahjono, Yusron Masduki and Dwi Santosa's review on: The Religiosity and Character Values Education of Multilingual Programs of Madrasas Mu'allimaat Muhammadiyah Yogyakarta Indonesia of Industrial Revolution Era 4.0. The result of this study, showed that: education of religiosity values and character values are useful for the transformation of values of the personality competencies and social competencies of students, namely: the embedded attitudes of deep faith that radiate in everyday behavior, and social behavior, namely: (1) emphatic values to others, and (2) the environment [17].
- f. Muthoifin, Eko Supriyanto, and Sigit Trihariyanto. Their research about: "Power Point as a Strategy and Learning Media to Improve the Quality of Islamic Education", The result of this study, showed that the application of Islamic Education Learning strategy with the Power Point media in SD Muhammadiyah Bayat Special Program is able to provide motivation and increase the spirit and achievement of learners in learning. [18].

- g. Davoud Noroozi and Salehe Abdi Masumabad's research result, showed: (1) spiritual intelligence has a positive effect on the effectiveness, and (2) efficiency of an organization as well as the self-development of a worker [19].
- h. Hema & Sanjaya M.'s research result showed that adversity intelligence (AQ) is related to one's ability to cope with stress and suffering. Individuals who have a strong fighting power can deal with adversity well, and can learn and respond to problems well and quickly [20].
- i. Nur Hidayat's research result showed that the implementation of character education in Pabelan Magelang Islamic Boarding School in Indonesia is based on the caregiver's example of Islamic Boarding School Leaders (Kyai) related to: (1) the values of social care; (2) values of simplicity; (3) work ethic values; and (4) values of independence. This was instilled in students, both in Islamic boarding schools and in Madrasas which had an effect on the transformation of values of social care, values of simplicity, values of work ethic, and values of independence [21].

From the literature review above, the author can explain the differences in this study, with previous studies that the focus of this research study lies in the innovation of educational patterns based on strengthening human competence, namely: (1) how the pattern of the internalization of adversity intelligence values (AQ) to students, and the using of ICT (online media) to improve the student's character in school; (2) how are the characters values of students after are instilled the values of adversity intelligence (AQ) and the use of ICT (online media) in education; and (3) how are the benefits of adversity values education and the using of online media to improve the character values of students in SMKN Pleret Bantul Yogyakarta. Three things of this research need to be analyzed in depth in order to develop the potential of students so that after graduating become alumni (arbituren) who have character, integrity and achievement who are ready to face the challenges of a more complex future life so they can live independently.

The Meaning of Adversity Values (AQ) Education at SMK 1 Pleret Bantul Yogyakarta

According to Azyumardi Azra the meaning of education is a process of preparing young people to run their lives and fulfill their life goals more effectively and efficiently. [22] Then, Subiyantoro related to the meaning of education is a vehicle to humanize human, bound by two important missions namely hominization and humanization. Hominization is related to human biological nature, while the process of humanization is directed at humans to live according to moral rules, because humans are essentially moral human beings, both morally related to God, fellow humans, and the environment [23] Meanwhile, according to Nana Syaodih Sukmadinata related to the meaning of intelligence as quoting Gardner's theory that intelligence is a form of ability possessed by individual to solve the problem, develop new problems present to be solved, then take useful lessons from phenomena or events encountered in life [24]

Furthermore, related to the strengthening of character values education in this research, Agustian Ary Ginanjar Agustian believes that there are at least two dimensions of human potential, namely: (1) physical and; (2) spiritual [25]. Then, Muhammad Anis stated that intelligent, intellectual, emotional, social, and intelligent human beings were qualified human figures born from the womb of Islamic education [26]. While the value of adversity quotient in this article is to use Stolz's theory as quoted by Hema G. & Sanjaya M. Gupta of their research "Adversity Quotient (AQ) for Prospective Higher Education." it is stated that: *AQ is the science of human resilience, i.e capacity of people to cope with stress and adversity. AQ can also be referred to as the ability of the person to adapt well to stress, adversity, trauma or tragedy. People who apply AQ perform optimally while facing adversity. Actually, they not only learn from these challenges but also respond to them healthier and more rapidly* [27]. The article showed that students with the values of adversity intelligence (AQ) are individuals who have the ability to endure themselves, to cope with stress and misery in learning in school. Beside that, someone called having adversity intelligence (AQ) can also be understood as a person's ability to adapt well to stress, suffering, trauma or tragedy. Then, according to Nuruddin Prihartono one of the main values in building student character values is adversity quotient (AQ) values. *No success can be achieved without a high level of struggle. High fighting power shows the persistence and seriousness of individuals in realizing dreams. Indicators of the existence of a fighting force owned by students is to be able to accept and manage a learning that is challenging and motivated to compete fairly and to show gratitude for the achievements* [28].

Utilization of ICT (Online Media) in SMKN of Pleret Bantul Yogyakarta

This globalization era, which was then followed by the 4.0 industry era, the science of communication and information technology is growing very rapidly. Then, it was followed by many changes in various aspects

of life and including in the world of education in this context including the development of the world of ICT (online media) which is at the same time providing an influence and challenge in the world of education [29]. The development of technology, information and communication causes the world seems to be getting smaller, so that the implementation of education can be reached without insulation and distance, space and time. Utilization of ICT for the development of education if it is not balanced with strong character values can be a new problem for students [30]. The use of Information and Communication Technology (ICT) for learning in school is increasingly resonating. Even in the current 2013 curriculum, ICT plays an important role in the implementation of learning. In the 2013 curriculum it was explained that learning applies the principle of whoever is the teacher, whoever is the student and everywhere is the class. Therefore, the use of ICT is needed in order to effectiveness and efficiency of learning so that the results are more leverage [31].

Beside that, there are many benefits of using ICT in order to support the implementation of learning: (1) improving the quality of learning; (2) expanding access to education and learning; (3) helps visualize abstract ideas; (4) makes it easier to understand the material being studied; (5) displaying learning material becomes more interesting; and 6) allows for interaction between learning and the material being studied. If you pay attention to the benefits of the use of ICT, of course the use of ICT in learning and the school environment is unavoidable [32]. Schools must always strive to meet the needs of these ICT facilities, including in this context ICT facilities of Vocational High School in Pleret Bantul Indonesia are sufficient [33].

This industry 4.0 era, the science of communication and information technology is growing very rapidly, and various types of products based on sophisticated technology have emerged. The development of information and communication technology can no doubt have a double impact, namely: can be positive and can be negative for adolescents, especially after online media is found. Therefore it needs to be balanced with strong character education values. This study, educational innovation is focused on improving the students' character education through improving the values of adversity (AQ) and the use of ICT (online media) in SMKN Pleret Bantul Yogyakarta.

METHODOLOGY

This study, is a qualitative research using a qualitative descriptive approach conducted in the Vocational School of Pleret Bantul Yogyakarta. Qualitative research has the aim of understanding certain situations, events, groups or social interactions [34]. While the qualitative descriptive approach is a description of general meaning of a number of individuals related to various life phenomena experienced by individuals [35]. Data collection techniques used in this research include: (1) observation; (2) interview; and (3) documentation study. Meanwhile, data validation uses the Triangulation technique and the validation process during data collection through: (1) data reduction obtained from observations, interviews, and documentation, (2) presenting data, then performed (3) conclusions and verification to answer the problem formulations research [36].

RESULTS AND DISCUSSION

Education Patterns of Adversity Intelligence (AQ) Values and the Utilization of ICT (Online Media) for Learning in Students of SMKN 1 Pleret Bantul Yogyakarta

This study found the results of the research related to the pattern of education on the values of Adversity intelligence (AQ) toward students in SMK 1 Pleret Bantul Yogyakarta:

".....Education Patterns of Adversity Intelligence (AQ) Values of vocational school through the pattern of improving programs, namely : (1) Positive use of ICT (online media) to support independent pursuit; (2) Scouting Activities; (3) Core Platoon Extracurricular Activities; (4) through the School Safety Patrol organization; (5) through the student council organization; (6) through the Tonti Council organization; (7) through the Ambalan Council organization; (8) through the Flag Ceremony and or National Holidays Ceremonies, such as: (a) National Awakening Day ceremonies; (b) Independence Day ceremonies, (c) National Education Day ceremonies. Meanwhile, related to the use of ICT (online media) for learning in schools, all teachers and students have utilized online media in teaching and learning activities supported by ICT facilities in Vocational School of Pleret Bantul which are quite adequate. The implementation of ICT as a learning medium runs smoothly because if there are teachers or students who experience problems there is help from homeroom teachers who are already ICT experts, especially those who have difficulty of using Google classroom [37].

The Improving of Students' Character Values of Vocational School of SMKN Pleret Bantul Yogyakarta.

According to Nuruddin Pihartono, one of the main values in building student character values is adversity values. No success can be achieved without a high level of struggle. High fighting power shows the persistence and seriousness of individuals in realizing dreams. Indicators of the existence of a fighting power possessed by students is to be able to accept and manage a learning that is challenging and motivated to compete fairly and show gratitude for the achievements he achieved [38]. Related to the development of student character values through values adversity quotient for learning there is a transformation (change) to increase the values of fighting power, such as: (a) resilient values; (b) have resilience, and (c) never give up (resilience) and (d) have the attitude of courage to complete work or school assignments to completion [39]. "...As an example of the google classroom media using for the "teaching and learning activities" when there are students who have not mastered, there was a courage to ask and practice until they can "so students must do the exercises or ask questions with their teacher or friend so that they can take part in learning activities at a later time for subsequent learning [40]. Then, related to the utilization of ICT (online media) for students 'characters' improving, there are changes values in students' character values which are felt by students, namely: (a) the media is used for positive activities; (b) students have a strong struggle to master ICT in order to follow the lessons; (c) students become more creative, and independent [41].

The result of study above, in line with the theory of Hema G. & Sanjaya M. Gupta that "someone who has intelligence (AQ) is someone who has endurance, which is a person's *ability to cope with stress and misery or suffering. Having the values of adversity intelligence (AQ) can also be understood as a person's ability to adapt well to stress, misery, trauma or tragedy. In addition, someone who has AQ fighting spirit values perform optimally in facing life's difficulties and challenges*" [42].

The Benefits of Adversity Values Education and the Using of Online Media to Improve the students' Character Values of SMKN Pleret Bantul Yogyakarta.

The Benefits of adversity Intelligence Values education of SMKN Pleret Bantul Yogyakarta are quite felt by students. The benefits of the programs are able to develop the values of integrity and courage of completing students' works and school tasks to completion [43]. This, reflects as a type of climber, for example in "teaching and learning activities", when there are students who have difficulty to use the google classroom media students do not give up easily and remain willing to participate in learning activities until they are proficient in using the media [44]. This is in line with the theory, Hema G. & Sanjaya M. Gupta that someone who has the values of intelligence AQ struggles to perform optimally in facing life's difficulties and challenges [45]. Meanwhile, related to the use of ICT (online media) for learning in schools all teachers and students have used the online media.

The study found related, the useful of ICT (online media) for education. "...There are many benefits of using ICT (online media) for learning, namely: (1) improving the quality of learning; (2) expanding access to education and learning; (3) helps visualize abstract ideas; (4) makes it easier to understand the material being studied; (5) displaying learning material becomes more interesting [46].

This result of the study in line with Masyhudi Choiron's theory that there are many benefits of using ICT in order to support the implementation of learning: (1) improving the quality of learning; (2) expanding access to education and learning; (3) helps visualize abstract ideas; (4) makes it easier to understand the material being studied; (5) displaying learning material becomes more interesting; and 6) allows for interaction between learning and the material being studied. If you pay attention to the benefits of the use of ICT, the use of ICT in learning both learning from home and the school environment is inevitable [47].

Based on the result above, it can be concluded that the adversity values and online media Education are able to improve the students' character values of vocational School of Pleret Bantul Yogyakarta. This explanation is briefly described in the following table:

No	Education of Adversity Quotient Values (AQV) and Online Media (OM) For Improving Students' Character	
	The Educational Values that are instilled toward Students	The Improving of Students' Character Values which Felt by Students
1	Adversity Quotient Values (AQV)	(a) Students be optimistic have resilience; (b) be strong to face the life problems; (c) have self-control, and (d) have the strong motivation for

		life successful
2	Online Media (OM)	(a) The media is used for positive activities; (b) Students have a strong struggle to master ICT in order to follow the lessons; (c) students become more creative, and independent

CONCLUSION

Based on the results of research and analysis by the author, it can be concluded as the following: The pattern of internalization of adversity intelligence (AQ) values for students of Vocational School of Pleret Bantul Yogyakarta is an enhancement of adversity values through some activities, namely: (1) Positive use of ICT (online media) to support the pursuit in a positive manner. independent; (2) Scouting Activities; (3) Core Platoon Extracurricular Activities; (4) through the School Safety Patrol organization (PKS); (5) through the student council organization; (6) through the Tonti Council organization; (7) through the Ambalan Council organization; (8) through the flag ceremony and or national holiday ceremony. Then, the improving of the adversity quotient values, namely: students be optimistic, have resilience, be strong to face the life problems, have self-control, and have the strong motivation for life successful, and so the transformation of ICT utilization, namely: (a) the media is used for positive activities; (b) students have a strong struggle to master ICT in order to follow the lessons; (c) students become more creative, and independent. Beside that, it usefulness of the adversity quotient (AQ) values and ICT (online media) education toward students' characters, during namely: (a) students become possessed of strong fighting spirit in learning; (b) more flexibility is not limited by space and time and helps students' understanding because learning is more interesting; (c) students are rich in sources of knowledge through ICT (online media) easily and quickly and (d) also have good academic achievement.

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