

## **DEVELOPMENT ASSESSMENT MODULE PORTFOLIO E-IMEI STUDENTS WITH LEARNING TO IMPROVE THE QUALITY OF CONCENTRATION CASE STUDY MAVIB**

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***Abstract:** The purpose of education is to develop knowledge in order to prepare college graduates to participate in the development of appropriate education. However, the mindset of a centralized and monolithic packaging still characterize education in this country, causing the students' learning activities MAVIB concentration to less interaction and knowledge still rote. Thus learning conditions will not encourage the development of self-potential students in learning MAVIB educational background in the form of skills widely applied in the work. Thus, assessment e-portfolio is a solution approach in the assessment of the performance of learners to assess performance. The aim of this study was to develop a system and relevant inputs related to "learning and working experience" is experienced to the development of Higher Education learners. This research method using a quantitative approach using descriptive method. This study developed a Web-based system. Results of this study using Word Press are known in Higher Education Prog as iLearning Media (IME) that is already available and has been complemented by the features that are needed, IME itself already familiar among College Prog so that the system can be applied easily and can be a tool elevators assessment.*

***Keywords:** e-Portfolio, IME and Assessment.*

### **INTRODUCTION**

The purpose of education is to develop knowledge in order to prepare college graduates to participate in the development of appropriate education. However, the mindset to centralized and monolithic packaging still characterize education in this country, causing learning activities to less interaction and knowledge still rote. Based on the observation of the learning process of students concentrations of MAVIB not been able to be implemented properly. Because the learning conditions are still dominated

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by a lecturer in providing conventional materials. Certainly learning conditions thus will not encourage the development of self-potential academic community (mahasiawa) MAVIB the relevance of learning educational background in the form of skill widely applied in the work.

Exposure to the above situation indicates that there is an urgent need of assessment methods that can be executed interactively, inspiring, motivating the students to actively participate and provide enough space for innovation, creativity, and independence in accordance with their talents, interests of learners. Besides, it is necessary also alternative valuation methods which can give emphasis on student activity, able to appreciate the students as individuals who are dynamic, actively construct knowledge in accordance with specific experience.

The amount of influence assessment evaluation of the quality of college graduates to do with the *e*-portfolio assessment. *e*-Portfolio assessment is an approach that enables higher education institutions to obtain information about the existing talent in students, a shortage that may occur in the learning process and can be used as the basis for planning activities for future enhancements. With the current technology portfolio can be developed into an electronic portfolio (*e*-portfolio). The results of the *e*-portfolio can be stored on the web, in this study the application that is used as a storage medium using iLearning Media (IME) that Wordpress is a feature that can be developed. *e*-Portfolio Assessment college can be used to determine the success of the educational process that has been done towards their students. Even in the selection into the program to apply for a job always requires the existence of an *e*-portfolio results data through parameter capabilities and skills of graduates as proof of the implementation of the results of studies during college.

Scope aspects of assessment in an *e*-portfolio is the aspect of cognitive (knowledge), psychomotor aspect (skills), and affective (attitude). Ratings portfolio (Surapranata, 2004) stated that the assessment portfolio is an approach or valuation models that aim to measure the ability of learners to construct and reflect on a job/task or work through the collection (collection) materials that are relevant to the goals and wishes are built by learners, so that the work can be assessed and evaluated by pndidik within a certain period.

So, the *e*-portfolio assessment is an approach in the assessment of learners' performance or used to assess performance. While conventional methods of assessment of learning to rely more on the results of standardized testing. Santyasa (Griffin and Nix, 2004) stated that the testing standards tend not valid. They have criticized standardized testing providing incorrect information about the status of school learning, because just touching the product dimension of learning activities, has not entered into the dimensions of a systematic and continuous process as well as feed back to the learning system (Arifin, 2009).

Department of Informatics concentration MAVIB as one of the institutions producing educational institutions workforce Audio Visual and Multimedia Broadcasting in higher education is expected to produce graduates who can be absorbed by the world of work in accordance with educational competencies gained. This department produces graduates who have competence in the field of Multimedia Audio Visual, Broadcasting and Design. Since 2006 until 2015 Concentration MAVIB be featured concentration in Higher Education Prog, evidenced by the many interests of prospective students who enroll. During this period has not been done prototype ratings are arranged in a systematic and organized with regard to the quality of education and the relevance of competencies to the needs of the market. The quality of education in question is related to the accuracy of the curriculum in the Department of Information Concentration MAVIB with application in the field (to labor market needs).

Besides the quality of graduates can be seen on the accuracy of the competence of graduates with the labor market needs, GPA, graduation IMM and the waiting period in accordance with the parameters and ISO 9001 accreditation. The purpose of this activity is to gather information and relevant inputs related to "learning and working experience" experienced learners to the development of Higher Education. According Schomburg (2003) The main purpose of the activity Portfolio is to determine/identify the quality of students, while the specific objectives Portfolio are:

1. Identify the profile of competencies and skills of graduates.
2. Determine the relevance of the implementation of the curriculum that has been implemented in universities with the needs of the labor market and professional development within the competence of the majors.
3. To evaluate the relationship of curriculum and studies in the majors as a scientific development.
4. As a contribution in the process of accreditation department.
5. As a contribution to the documentation in the learning process.

There are at least three benefits to be gained from the implementation of these activities, namely:

1. Determine the ability of learners, is associated with learning experiences that they experienced, to be used as a tool evaluator the performance of institutions.
2. Obtain relevant input as the foundation of educational development, associated with competitiveness, quality, and working experiences that can be used to capture opportunities and mitigate threats in the future.
3. Improving education evaluation

### FORMULATION OF THE PROBLEM

Formulation of the problem in getting from the identification of problems and constraints that have been made previously. Based on the identification and restriction of the above problems, the formulation of the problem that must be answered are:

1. How to identify the competencies of students related to the assessment of *e*-portfolio?
2. How to know the relevance of the implementation experience of the value generated learners?
3. How does the *e*-portfolio contributed documentation with IME in the learning process?

### RESEARCH PURPOSES

The purpose of this research is to develop modules ratings *e*-portfolio with IME students to improve the quality of case studies MAVIB concentration related to "learning and working experience" experienced learners to the development of Higher Education. According Schomburg (2003) The main purpose of the activities of the *e*-Portfolio is to develop an *e*-portfolio module to improve the quality of education of students MAVIB concentration. The purpose of this study related to the *e*-portfolio assessment module are:

1. Develop an *e*-portfolio assessment module students with IME,
2. Can improve the quality of learning MAVIB concentration,
3. As depository documentation works distributed and tidy generated during the learning process by utilizing the IME application.

### LITERATURE REVIEW

Interest in seeking a review of relevant research are (Guritno *et al*, 2011):

- (a) Identify research gaps.
- (b) Avoid remake.
- (c) Identifying the exact methods.
- (d) Forward achievements of previous research so that their literature study, the research may be built on a platform of knowledge or ideas already.

Based on the review of the literature obtained several studies discussing the *e*-portfolio and associated with this research.

1. The results (Rahardja *et. al.*, 2009) in his paper entitled implementations IME (iLearning media). In a learning system that runs on Higher Education Prog, today still use paper as a medium of execution of tasks. To support the learning

- system can be more interesting is to utilize the media iLearning technology or abbreviated name berupasite IME is an application created and can be used by all students of Higher Education Prog to explore their creativity in learning. This is an online learning system that facilitates student learning, because it can be done anywhere, anytime. It was concluded that the contribution of IME can be used as a medium of information for learning systems for the entire community of Higher Education Prog.
2. Research conducted by (Hadiyaturrido, 2013). Study was an experimental study in the form of Post Test Only Control Group Design. Questionnaires learning motivation and learning achievement test used to measure learning motivation and learning achievements of studentsips. The results showed that:
    1. there are differences in learning motivation significantly between students of students who take the learning method portfolio assessment with students using conventional measure,
    2. there is a difference in learning achievement sinifikan between students who take the lesson using portfolio assessment with students who use conventional methods of assessment,
    3. there is simultaneously a difference in learning motivation and achievement of significant learning among students who take the learning process using the portfolio assessment method with conventional assessment methods.
  3. Research conducted by (Immaniar *et. al.*, 2012) with the title iLearning effective learning method for high school. By using iLearning enables self learning process interactively applied in teaching and not separate from the realization of everyday life. In this article will explain the teaching of electronic learning (e-learning), the distribution of e-learning for iLearning, identified problems faced in particular in an education with Internet technology, architecture iLearning, iLearning system design, the advantages and disadvantages iLearning, implementation of iLearning learning and interactions in daily life in 4b (studying, praying, working, and playing). In the world of education systems iLearning is an adaptation of electronic educational learning integral to the learning activities of daily life and contributions were very helpful iLearning learning needs of self in which all knowledge is in hand. iLearning contained in this article can create an independent and interactive learning in everyday life. iLearning organizing activities to be continuous learners to learn, play, work, and pray. 4b perform with just one touch of the hand.
  4. Research conducted (Kosin, 2014) with research on Effect of Guided Inquiry-Based Learning Physics Lks Using Critical Thinking Skills Students Against Madrasah Aliyah Qamarul Huda Bagu Central Lombok. The results showed

1. the application portfolio assessment in this physics-based inquiry guided learning can improve student learning outcomes with good qualifications,
  2. students' response to the application portfolio assessment in learning physics inquiry guided bebasis is very positive.
5. Research conducted by (Fazilla, 2012) with the title Application Portfolio Assessment in Science Learning Outcomes Assessment background by the importance of the assessment system to measure the student's ability, cognitive, affective and psychomotor it would require an assessment to measure student learning outcomes are not can only be measured by the value through written tests, so that the quality of learning can grow better then the required assessment of the portfolio that is part of classroom assessment is currently being developed in the SBC.

## RESEARCH METHODOLOGY

This research used quantitative descriptive research with case study method development system that aims to determine the correlation between the first independent variable in the form of *e*-portfolio (X) on the dependent variable quality of graduates TA.2014/2015 (Y). Below is a flowchart of the proposed system:

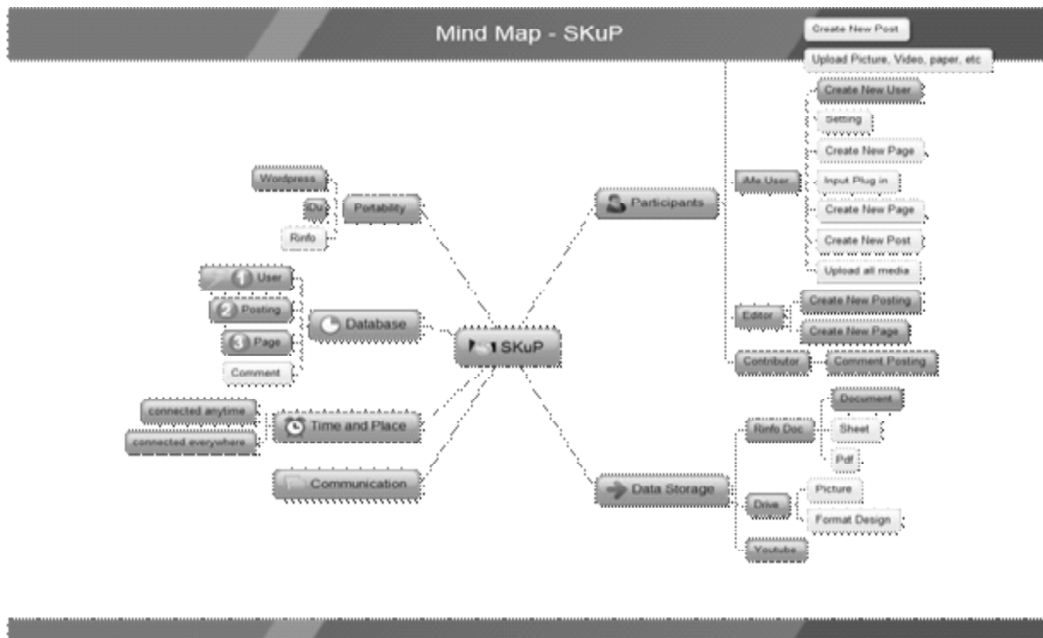


Figure 1: Mind Map *e*-portfolio with the IMEI (scope)

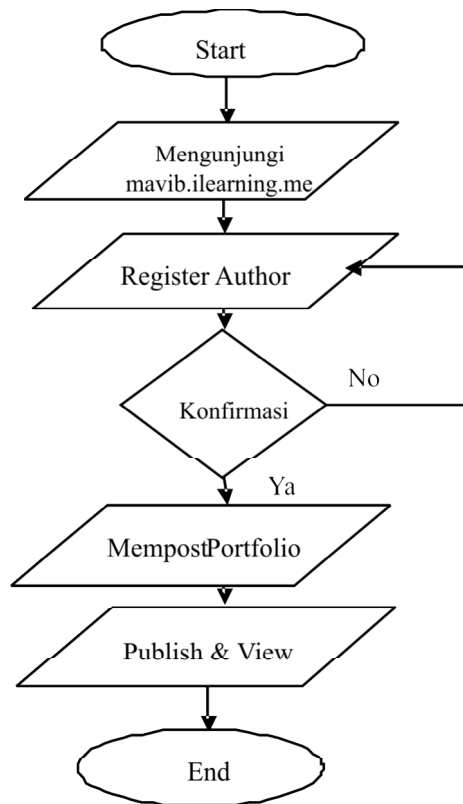


Figure 2: Flowchart of the Proposed System

Here is a table HIPO of Information Systems MAVIB scope:

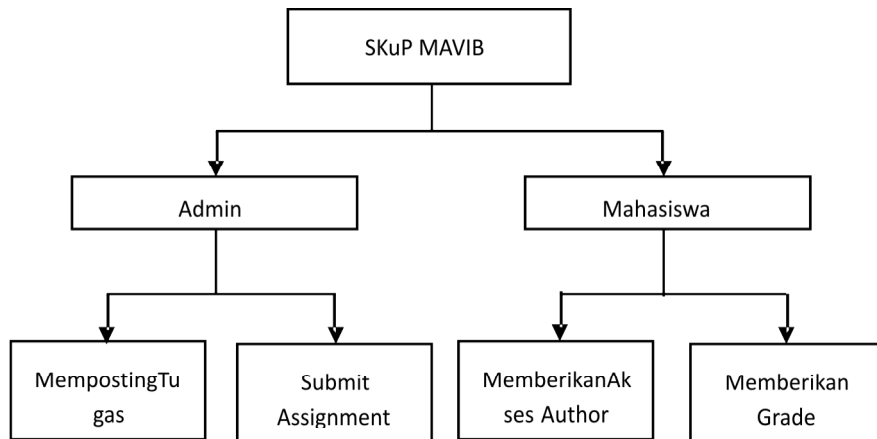


Figure 3: Dyagram HIPO SKuP

## Sequence Diagram System Proposed

### Sequence

This diagram illustrates the movement of an object and the message that occurs in the information delivery system.

### VALIDITY AND RELIABILITY

To obtain valid research results, required validity and reliability of the instrument. Valid instrument means the instrument can be used to measure what should be measured. While that is a reliable, *i.e.* when the instrument is used several times to measure the same object, will generate the same data.

In SPSS, for validity, the results of respondents' answers will be compiled per item total matter and sought answers to each respondent. Next will be calculated the correlation ( $r$ ) the answers to each item with the total value. The results are then compared with the value of  $r$  table. If the total above  $r$  table, then the item is declared valid instrument.

According to existing theories, in which the correlation index figures by  $r_{pbi}$  can be obtained by using the formula:

$$r_{pbi} = \frac{M_p - M_t}{SD_t} \sqrt{\frac{p}{q}}$$

Test results validity of the data for the variable X (Application Portfolio Assessment Module) shows all of the items above statement Valid as many as 17 instruments statement, because the value of  $r$  count  $>$   $r$  table is  $df = 75$ , where the value of  $r$  table

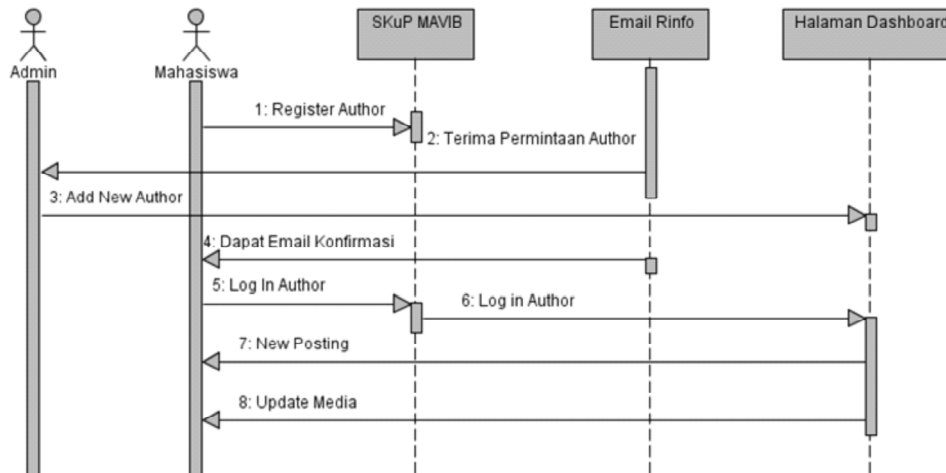


Figure 4: Sequence Diagram System



significance level 2 directions 0,05  $r$  value table for  $df$  73 = 0.2272. As for the invalid data is on 16, 17, 18 statement because the value of  $r$  arithmetic <  $r$  table is  $df$  73 = 0.2272.

Test results validity of the data for the variable  $Y$  (the quality of learning in college) show all Valid point statement, because the value of  $r$  count >  $r$  table is  $df$  75-2 = 73, where the value of  $r$  table 2 towards 0.05 level of significance  $r$  value table for  $df$  73 = 0.2272. As for the invalid data is the statement 38, 39 and 40 as the value of  $r$  arithmetic <  $r$  table is  $df$  75-2 = 73, where the value of  $r$  table 2 towards 0.05 level of significance  $r$  value table for 73  $df$  = 0.2272.

Criteria for a Reliable research instrument when said instrument reliability coefficient ( $r$  11) > 0.6. At the output of  $X$  is known that the reliability tests, Cronbach's Alpha of 0.955 > 0.6, then declared Reliable research instrument. In reliability tests output  $Y$  is known that, Cronbach's Alpha of 0.961 > 0.6, then declared Reliable research instrument.

## CONCLUSION

This study has been designed  $e$ -portfolio applications are often called the scope MAVIB using web based IME portfolio so that each student can be identified and documented related to the assessment of  $e$ -portfolio. Respondents Data shows with more scope for easy retrieval value because the task has been documented and neatly arranged. Data shows that the scope of the questionnaire respondents contribute to the learning process. According to 75 respondents recapitulation data questionnaire results influence the quality of students in higher education towards the implementation of Portfolio Assessment Module.

## SUGGESTION

Based on the results of the study, further research may provide some suggestions of input directed to the object of research and for further research. In the process of system implementation required scope MAVIB team that will carry out the implementation process which consists of: Students, Faculty and Admin as IME MAVIB scope operator. The implications of managerial aspects need to be improved, resources need to be improved competence, scope development methods need for further research, it can be done by increasing the scope of the system being developed.

## References

- Arifin, Z. (2009), *Evaluasi Pembelajaran, Prinsip, Teknik, Prosedur*. Bandung: PT. Remaja Rosdakarya.
- Arikunto, Suharsimi. (2004), *Prosedur Penelitian Suatu Pendekatan Praktek*. Jakarta: PT Renika Cipta
- Creswell, J.W. (1998), *Qualitatif Inquiry and Research Design*. California: Sage Publications, Inc

- Diekhoff. (2005), *The Oxford Handbook of Undergraduate Psychology Education*. Diakses pada Mei 2015 dari: <https://books.google.co.id/books>
- Fajar, Arnie. (2004), *Portofolio: dalam Pembelajaran IPS*. Bandung: PT Remaja Roesdakarya.
- Gronlund, N.E. (1994), *Assesment of Student Achievement*. Needham Heights MA: A Viacom Company.
- Guritno, Suryo, Sudaryono, Rahardja Untung. (2011), *Teory and Application of IT Research*. Yogyakarta: CV Andi Offset.
- Henderi, dkk. (2013), *Penggunaan Metode learning Untuk Meningkatkan Kualitas Pembelajaran di Perguruan Tinggi*. CCIT Journal Vol. 6 No. 3. ISSN: 1978-8282. Tangerang : Perguruan Tinggi Raharja.
- Jogiyanto, Hartono. (2009), *Analisis dan Desain Sistem Informasi, Edisi III*. Yogyakarta: ANDI.
- Kosim (2014), *Pengaruh Pembelajaran Fisika Berbasis Inkuiri Terbimbing Menggunakan LKS Terhadap Kemampuan Berpikir Kritis Siswa Madrasah Aliyah Qamarul Huda Bagu Lombok Tengah*. Jakarta: Prosiding Seminar Nasional Pendidikan IPA FITK UIN Syarif Hidayatullah.
- Kurniawan, Rano, dkk. (2012), *Penggunaan iPad Mendukung Pembelajaran pada Mahasiswa iLearning*. CCIT Journal Vol. 6 No. 3. ISSN: 1978-8282. Tangerang : Perguruan Tinggi Raharja.
- Partino, H.R. dan Idrus, H.M. (2009), *Statistik Deskriptif*. Yogyakarta: Safiria Insania Press.
- Pressman, Roger S. (2005), *Rekayasa Perangkat Lunak: Pendekatan Praktisi*. Yogyakarta: Andi.
- Rahardja, Untung. (2011), *iLearning an Effective Learning Method for Higher Education*. Tangerang: Perguruan Tinggi Raharja.
- Schomburg, Harald. (2003), *Handbook for Graduate Tracer Study*. Germany: Wissenschaftliches Zentrum für Berufs- und Hochschulforschung, Universität Kassel
- Siregar, Syofian. (2012), *Statistik Parametrik Untuk Penelitian Kuantitatif. Cet. II.* : Jakarta : Bumi Aksara.
- Soetam, Rizky. (2011), *Konsep Dasar Perangkat Lunak*. Jakarta: PT. Prestasi Pustaka Raya.
- Suardana IW. (2008), *Teaching and Learning analysis of basic Chemistry In Developing Teaching and Learning of Critical Thinking Skils*. Proceeding The Second International Seminar on Science Education.
- Sudrajat, Akhmad. (2010), *Portofolio*. Diakses pada Mei 2015 dari: <http://sudrajat.wordpress.com/2010/01/01/portofolio/Sugiyono.2012.MetodePenelitianAdministrasi.cet.ke-20.Bandung:Alfabeta>.
- Suherman, Erman. (2011), *Assesment Portofolio*. Diakses pada Mei 2015 dari: [http://educare-efkipunla.net/index2.php?option=com\\_content&do\\_pdf=1&id=11](http://educare.efkipunla.net/index2.php?option=com_content&do_pdf=1&id=11)
- Sukiman, (2012), *Pengembangan Media Pembelajaran*. Yogyakarta : PT. Pustaka Insan Madani.
- Surapranata, S. and Hatta, M. (2004), *Penilaian Portofolio Implementasi Kurikulum (2004)*, Bandung: PT. Remaja Rosdakarya.
- Tulus Winarsunu. (2002), *Satistik Dalam Penelitian Psikologidan Pendidikan*, Malang: Penerbitan Universitas Muhammadiyah Malang.