

IT-Based Movement Evaluation System in Dance Studios

Dinny Devi Triana, Indah Juniasih

Universitas Negeri Jakarta

Jakarta, Indonesia

dinnydevi@unj.ac.id

Abstract—This IT-based movement evaluation system utilizes technology that is familiar to students and can be used to diagnose students' dancing skills. It is helpful in selecting students' skills in preparing the students for taking the final exam. Qualitative research methodology is used with the focus on IT-based movement evaluation system implemented in Larasati and Gandes Pamantes dance studios. These dance studio have many students, so they often find difficulties in evaluating programmed and systematic learning. An IT-based movement evaluation system is conducted to determine students' development. This evaluation system is needed, considering the fact that the assessment on dancing includes not only the performance but also the observation stage that cannot be done in a short period. Examination activities for the final exam in dance studios are routine activities. These activities are often faced with students who are less prepared because of various factors, such as health, confidence, and not accustomed to face three examiners. The result of the research shows that IT-based movement evaluation system in dance studios can provide ease of finding out students' dancing skills without eliminating the principles of evaluation, such as accurate, measurable, reliable, objective, and transparent. Based on the result, This IT-based movement evaluation system can be used as a diagnostic tool before dance studios carry out the final exams.

Keywords—*motion evaluation; dance; dance studio; IT (information technology)*

I. INTRODUCTION

Dance studios in Indonesia are highly developed and very competitive. They are also excellent in terms of material, frequency of performances, and the development of students' skills to prepare them become professional dancers. However, the management of these dance studios are still conventional, especially in the development of the material and the examination that is time consuming and without clear indicators because it does not refer to the achievement of the competencies that the students must possess.

For the competencies that the students must possess, ideally, dance studios have competency standards that must be achieved by the students in each level. They then set indicators based on the competency standards. Therefore, the levels or grade of the students are based on the skills, not on their age. With these indicators, students who are not able to master the competencies needed are not able to go to the next level or grade.

These indicators are important to pay attention to, so that the evaluation system is based on the students' characteristics, competencies that must be achieved in each level, scoring components and criteria according to the difficulty levels of the material.

For this evaluation system, IT based movement evaluation is needed to measure students' dancing competencies defined by the vision and the mission of the dance studios, learning system based on the curriculum, material based on competencies indicator and dancing skills which are well documented. Since dancing learning process is more toward practice, the use of IT will help and provides ease in the evaluation system.

In general, each dance studio conducts a competency test known as a level increase every 6 months. The teaching material tested different from the primary, skilled, and proficient level. Measurements of dance skills competencies have carried out called Performance Competence Evaluation Measures (PCEM) which consist of qualitative aspects of dance performances, both in movement and dance activities [1].

Competence a skill that demonstrated by behavior for various purposes, competency refers to knowledge, attitudes, and skills that conceptually or empirically indicated by the identification of the behavior carried out [2]. Competency also emphasizes the ability to perform or demonstrate a skill effectively by the demands and needs have delete the field. To have competencies that by the wishes or demands, the dance studio one place that can used to improve competence in the field of dance.

Most dance studios carry out evaluations of learning outcomes through competency tests during the level-up exam and emphasize more on products or results. Evaluation on learning carried out not only at the end of learning but also during learning. Evaluation a process that determines conditions, where a goal can achieved [3]. By these opinions, the evaluation of learning outcomes can interpreted as an action or a process to determine the value of learning success after he experienced the learning process for a certain period. Evaluation carried out as part of an integrated educational program, both in the classroom and outside the classroom [4].

Therefore, IT needed that can help the evaluation system as an integral part of the learning process, where IT developed in

order to survive in the digital era [5]. Technology as a software system created for simulation, and learning in the face of significant fields adopted and applied to various educational institutions [6]. Conventional learning has experienced a shift in needs and has transformed technology-assisted learning systems so that learning becomes effective, efficient and meaningful. Future teachers have prepared in the era of no child left behind; teachers can use technology to improve education or learning services [7]. This done in the Larasati and Gandes Pamantes studios in the juvenile evaluation system, where the applied technology can useful by the duties and capabilities of the user [8]. This technology a tool used by individuals to help complete their tasks [9].

The technology used in the evaluation system at the Larasati Depok dance studio and Bogor Gandes Pamantes can done well, if it has formulated 1) competency achievement for each level of dance skills in the Gandes Pamantes studio and Larasati studio in accordance with the dance studio's vision and mission in the form of training and mentoring, 2) formulating dance material that in line with competency achievements in accordance with the studio's vision and mission, and 3) carrying out systematic, valid, objective, and transparent evaluations for students, and well documented through an evaluation-based system IT done by training and mentoring.

II. IMPLEMENTATION METHOD

The implementation of this IT-based motion evaluation system divided into 2 groups that must followed by each studio, both Larasati Depok studio and the Gandes Pamantes Bogor studio. Considerations 2 groups because of the different characteristics of the studio. In Larasati Studio, the material related to Betawi dances, while Gandes Pamantes Studio consists of Jaipongan Dance material. Likewise, the technical implementation of studio activities has different policies.

The application carried out by the following steps:

TABLE I. THE STEPS IN THE IMPLEMENTATION OF THE IT-BASED MOVEMENT EVALUATION

No	Activity	Material	Details
1	Activity 1	Making web design	A team of Community Service Activities
2	Activity 2	Test the system	UNJ dance students
3	Activity 3	Repair of web (system) content	A team of Community Service Activities
4	Activity 4	Identifying the characteristics of the studio	Technique: Observation and interview
5	Activity 5	<ul style="list-style-type: none"> The purpose and benefits of using IT-based E-Assessment at the studio Introduction of IT-based e-assessment Exercise how to create an account Instructor Task How to make dance material/topic on the Assessment web 	Sanggar Gandes Pamantes Bogor

Table 1. Cont.

No	Activity	Material	Details
		<ul style="list-style-type: none"> ow to make a CPL or an indicator for each dance material on the e-assessment web 	
6	Activity 6	<ul style="list-style-type: none"> Task Manager (studio leader) How to group class list How to create a profile How to create a curriculum or level in training at the studio Instructor Task: How to load videos to evaluate motion according to the material/topic How to make a follow-up on motion evaluation according to topic 	Sanggar Larasati Depok
7	Activity 7	<ul style="list-style-type: none"> Task Manager (studio leader) How to group class list How to create a profile How to create a curriculum or level in training at the studio How to load up to evaluate motion according to topic How to make a follow-up on motion evaluation according to the topic 	Sanggar Gandes Pamantes Bogor

III. RESULT AND DISCUSSION

A. Description of Dance Studio Data

1) *Larasati dance studio:* Larasati dance studio carried out the leveling test in 1 year to test 3-4 dance material, but students must choose only 1 dance material. The requirement to take the exam 90% attendance, so at least 10% of students permitted to pass that 5 times absent from the total attendance of 40 meetings in one year. If more than 5 meetings not present, there will additional classes paid outside of meeting class hours.

Every year Larasati dance studio holds a working meeting to determine the target of the studio students. The level of Larasati studio students divided into:

- Basic 1 to 3, KKM standard 75
- Advanced level 1 to 9

Larasati dance studio examination activities which have approximately 100 students, face some difficulties in managing the evaluation of the learning process. Evaluation on learning constructive for instructors in determining which students eligible to take exams, and which students still have to strengthen their dance skills so that the exam requirements meet the standards.

2) *Gandes pamantes dance studio*: Level of ability in the Gandes Pamantes dance studio consisting of:

- Basic Level (TK)
- Beginner Level I, II, III
- Skill Level I, II, III, IV, V, VI, VII
- Advanced Level
- Choreographer / dance creator
- Makeup Class
- Nusantara Dance Class

Dance Training Process:

- Once a week training
- Pre Evaluation / Midsemester 3 months Once
- Dance evaluation held every 1 semester (6 months) at the end of training

Evaluation Requirements:

- Absence cannot more than 6 (except additional private)
- Following Pre-evaluation / midsemester
- Over matter
- Pay off school fee & evaluation budget
- Collect 3 x 4 (2 Sheets)

Deed and Photos Technical:

- Dance Evaluation Each participant appears 2 - 3 people
- Rated by 2 judges
- Evaluation participants get the Cup & Certificate of Department of Tourism and Culture

B. Evaluation Application Material

The IT-based movement evaluation at the Larasati dance studio and the Gandes Pamantes began with the introduction, purpose, and benefits of IT in the evaluation system that poured into a web form. The purpose of the evaluation using a web e-assessment 1) helping the studio (instructor) in diagnosing students' abilities, 2) using the web as a medium that makes it easy to diagnose students' abilities, 3) making it easy for studio leaders as managers to monitor instructor performance and student progress, 4) makes it easy for instructors to monitor the development of students' abilities.

The material introduced and studied by the fierce as follows:

TABLE II. THE MATERIALS FOR IT-BASED MOVEMENT EVALUATION SYSTEM

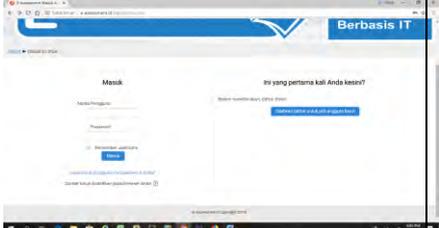
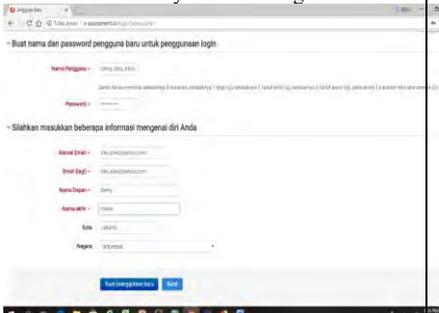
No	Activity	Steps
1	Training Activities 1 "How to Create an Account" For Student and Teacher	<ul style="list-style-type: none"> • Type / Open: web site http://www.e-assessment.id • Click the login/login button  <ul style="list-style-type: none"> • Click "Please register to become a new member." • Fill in the form by the following column  <ul style="list-style-type: none"> • When finished filling out the identity than "click for new membership." • Wait for admin confirmation, then return to the homepage
2	Confirm Student And Teacher By Admin	<ul style="list-style-type: none"> • Login, enter user and pass • Click site home • Click users • Click permission • Click assign system roles • Click the manager to become the owner of the studio • Click curde creator • Type the username in the search field or click one of the names • Click add
3	Making Material	<ul style="list-style-type: none"> • Click site home • Click course • Click add new course • Fill out the form according to the course data activity • Click and save display
4	Make a Topic	<ul style="list-style-type: none"> • Click site home • Click course • Click the course that created • Click turn editing on • Click edit on one topic • Fill in the topic according to the studio material • Click save changes
5	Grouping Classes	<ul style="list-style-type: none"> • Click dashboard • Click site administration • Click user • Click account • Click cohorts • Click add new cohorts • Fill in the form with class data • Click save changes

Table 2. Cont.

No	Activity	Steps
6	How to Enter Students into Class	<ul style="list-style-type: none"> • Click dashboard • Click site administration • Click users • Click account • Search for classes that have created, then click the head image icon • Type the name in the search field that will entered into the class • Click add
7	How to Enter Classes into Courses	<ul style="list-style-type: none"> • Click dashboard • Click course • Choose one of the courses that will added to the student • Click administration • Click course completion • Click user • Click enrolled users • Click enroll users • In the cohorts menu in the search field select the class that created before • Click enroll selected users and cohorts
8	Create a Sanggar Company Profile	<ul style="list-style-type: none"> • Click dashboard • Click course • Choose one of the studios • In the administration section below Click edit category • Fill in the form according to the data studio • Click save change
9	Creating a Studio Curriculum / Classifying Courses Based on Levels in Training at Studio	<ul style="list-style-type: none"> • Click dashboard • Click course • Choose one of the studios • Click create a new category • Fill in the name of the studio level training • Click create category • Course checklist that has made • In move selected course text in the chosen column, select the studio level category that previously created • Click move
10	Upload Video	<ul style="list-style-type: none"> • Click Dashboard • Click Course • Click Course Made • Click Turn Editing On • Click Edit Topic • In the Summary Column Click Icon Small Camera Images • Click Video • BrowsRepository • Click Upload • Click select File • Select files in Computer • Click Open • Click Upload Display
11	Follow Up	<ul style="list-style-type: none"> • Click Dashboard • Click Course • Click Course/tasks that have created • Click Grade • Click One of the Job Forms For example Essay • Click on one of the values • Click Make Comment or Override Mark Fill in the • Value at Mark

The materials that must be learned in the implementation of IT-based movement evaluation system are the materials for instructors and the materials for students. The materials for the instructors include how to create an account, company profile, course, topics, materials, curriculum, and student grouping, setting indicators for each material and giving feedback. While the materials for the students include creating an account, how to access courses and topic and uploading videos (see table 2).

The most important thing in this IT-based movement evaluation system when the student studio uploads videos from topics (various movements) according to the task given by the instructor. Videos of the variety of movements that uploaded by students learning outcome portfolios as electronic portfolios that can help learn the development of learning so that they can reflect critically and give teachers confidence in the students' abilities [10]. Based on the portfolio, the instructor provides feedback, either in the form of comments or grades or grades, and students can find out which parts still need improvement. Feedback can provide corrective information and can provide alternative strategies for responding to student answers [11].

This IT-based movement evaluation system requires information literacy skills because it requires an understanding of the culture and digital context in its environment to able to operate effectively [5]. However, many problems in its implementation caused by resources and perspectives in the use of IT in learning in the digital era, where resources especially the learning environment challenges that must face [12].

IV. CONCLUSION

This IT-based movement evaluation system has content that can be accessed by the students, parents and the wider community as the web e- assessment users so that they can find out the quality of the studios. The curriculum can also be assessed and chosen by public according to their needs. The competencies that must be achieved in each level can also be accessed by students and parents as the indicators of the learning outcome. These will result in systemic, valid, objective, transparent and well documented IT-based movement evaluation system. Therefore, the use of IT in dance studios is a challenge that must be faced, both from the human resources and learning environment sides so that this IT-based movement evaluation system can be used to diagnose students' competencies before the final exams.

V. SUGGESTION

A. For Manager (Studio Leaders)

- The website can used as a monitoring tool, so the manager or leader of the studio expected to use this system in managing the studio management
- Managers or leaders of the studio must actively update data if needed, even announcements for instructors and students and parents can made through this system.
- The manager or leader of the studio expected to able to minimize the time and energy in managing the studio.

- Managers or leaders of the studio expected to document all activities related to learning.

B. Instructors

- Dance instructors should be able to follow up on student learning progress on an ongoing basis.
- Dance instructors obliged to provide objective reports to students that parents can know.
- Dance instructors must actively motivate students through the system provided (website e-assessment).

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