

# Contribution Of Edmodo Smartphone Application To Support Assessment Activities In The Social Science Learning Process; Students Review

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**Abstract:** Teachers in the school today have problems in the assessment process during learning activities. Printable techniques and task methods create obstacles in the form of slow task correction and take a long time to provide feedback to students. To address this, an edmodo based task assessment was developed. This study aims to see the extent of edmodo's contribution in helping assessment activities in the learning process according to student perspectives. This type of research is descriptive qualitative, with research instruments in the form of questionnaires distributed to 34 respondents who in the learning process and assessment of their duties have used the Edmodo smartphone application. From the results of the questionnaire analysis it can be concluded that edmodo: is flexible, can be downloaded by all types of smartphones, free / free, has main features that make it easier for students to upload tasks, has a reminder feature, and features accumulated values that make it easier for teachers to evaluate.

**Index Terms:** Edmodo, Assessment, Learning Process, Technology, Students

## 1 INTRODUCTION

Technology is a form of human product that is useful for facilitating work and life activities. Basically technology is practical and easy to use [1,2]. The field of application of technology has penetrated several joints of life such as the fields of transportation, health and also in the field of public services. In the field of public services, such as services in various agencies have used electronic systems and have optimized the role of technology in them. The field of education studies, which is one of the public domains, has also innovated by applying several uses of technology in the process [3]. The use of technology in learning directly has occurred reinventing in the teaching and learning process. The presence of IT cannot be seen as something extraordinary, but it is a necessity in order to accelerate the change in the quality of education and at the same time to boost the competitiveness of students [4]. The use of technology in learning can be in the form of the use of electronic learning resources that aim to facilitate the process and facilitate teachers and students in learning activities. Audiovisual media is one form of technological usefulness in supporting the learning process [5]. Basically the use of technology can cover all fields and studies in the education process. There is a possibility, technology can help and facilitate teachers in carrying out activities and assessment processes of students. Technology can facilitate teachers in conducting evaluation and evaluation activities. Assessment is a collection of valid, reliable information, and aims to provide an overview of student knowledge [6]. Student assessment activities are important and integral components in teaching and learning activities in schools. Assessment is useful for obtaining information about achieving results from the learning process of students in accordance with predetermined goals, it requires an assessment of learning outcomes [7]. To improve the quality of assessment, the role of technology is needed. With the existence of technology can accelerate the process of correction and assessment of student work. Something quite contradictory can be seen in the pattern of national examinations which are held at the end of each school year. If traced the development of national exam patterns, there have been changes in procedures and procedures for evaluation along with technological developments. At the beginning of the national exam, the use of LJK was not optimized, where the

inspection process was not computer-based. A few years later a computerized correction test was developed, and the latest was tested on a computer-based national exam (UNBK). The use of technology in the assessment process can facilitate the performance of teachers / schools in conducting evaluation activities. The facts found in the field, there are still many teachers who have obstacles in carrying out practical assessments. Nearly all teachers make assessments in terms of assignments, exercises and examinations in writing. The negative impact of using this method is that there are still many teachers who are troubled in correcting and providing direct feedback in the assessment of assignments and training of students. With the slow task / training feedback given by the teacher to students, it will have an impact on students' interest and motivation in the next task. A study shows, quick feedback from teachers can motivate students to improve their performance on upcoming assignments. When viewed from the teacher's perspective, it was found that almost 90% of teachers only corrected their assignments and training when they were in the school environment. This condition will certainly depend on the duration and length of time the teacher is in school. Teachers who teach lessons in several classes find it difficult to bring assignments to home because the number of assignments will be corrected from a number of students in several classes. In this condition, a solution is needed in the form of flexibility in the method of the assignment given to students. To overcome the above problems, a number of solutions can be put forward, including: making technical changes and varying the pattern of assignments and can also be done by providing an assignment technique using the application, one of which is smartphone-based edmodo. Edmodo is a free service that allows lecturers / educators to create and maintain their own class community safely [8]. Edmodo was developed on the basis of the principles of group-based classroom management and social media. The main feature of Edmodo is active support for the communication model of online social media, which is added with online learning material features and online evaluation. Edmodo was first developed by Nicolas Borg and Jeff O'Hara, where Edmodo was defined as a safe learning platform for teachers, students and schools based on social media. Edmodo provides a safe and easy way for classes to connect and collaborate between students and

teachers to share educational content, manage projects and tasks and handle notifications for each activity [9]. The use of smartphones is considered to be suitable with current conditions where the development of information and communication technology (ICT) is fast and sustainable, including the improvement of wireless networks, and the use of mobile devices between students creating a new learning environment, called "cellular learning" or "M-learning". Mobile phones are not only tools for communicating with others with sound, but are quickly turning into multi-purpose tools in wireless technology such as personal computers [1,10]. Edmodo is a part of Social Network Sites (SNS) that can be utilized in a learning environment. The characteristics of SNS are as follows:

1. building a public or semi-public profile in a restricted system,
2. articulate a list of other users with whom they share connections,
3. see and cross their list of connections and those made by others in the system [11].

In the Edmodo application it allows someone to create and recruit members to be able to join a community that has been created. In the virtual community that has been created, it allows each member to connect to each other and can interact in public space which is limited privacy for all members [12].

The use of the Edmodo application and integrated smartphone has several advantages including:

1. It is flexible and can be taken wherever students go.
2. It has a reminder feature, where there are notifications that come in when the teacher gives the assignment.
3. There is a deadline given in working on the task so that the teacher can easily monitor student discipline.
4. The addition of attachment features in the form of pdf, word, jpeg and others.
5. Can allow students to work on assignments anywhere, and collect tasks at that time without having to come face to face directly with the teacher.

Feedback or assessment can be directly given by the teacher when the assignment has been submitted by the student, and when the assessment is complete, it will automatically connect to the student account.

## 2 METHODOLOGY

This type of research is descriptive qualitative, with the research instrument in the form of a questionnaire distributed to 34 students who in the implementation of their assessment have used the Edmodo smartphone application. Questionnaires are distributed online using the surveymonkey application which contains 8 items of questions which include information:

1. Ease of operation
2. Ease of downloading
3. Motivate work on assignments
4. Facilitate the task
5. Speed of assessment time
6. Student satisfaction in assessment activities
7. Assistance in completing tasks well
8. Strengths and weaknesses that are felt during using the application

Furthermore, after the deadline for filling out the questionnaire online, an analysis of the results of the questionnaire data was carried out. From the results of questionnaire data analysis, a conclusion can be drawn regarding the contribution of the Edmodo smartphone application to support assessment activities in the learning process.

## 3 RESULT AND DISCUSSION

Based on questionnaires that have been distributed online to 34 students, the data is as follows:

**Tabel 1.** Recapitulation of student questionnaire data is related to the response of the use of edmodo for assessment activities in the learning process

No	Questions Item	Percentage (%)	
		Agree	Disagree
1	Ease of operation	73.5	26.5
2	Ease of downloading	82.4	17.6
3	Motivate the work task	76.5	23.5
4	Make it easy to do the task	88.2	11.8
5	Speed of assessment time	79.4	20.6
6	Student satisfaction in assessment activities	85.3	14.7
7	The ability to complete tasks well	79.4	20.6

Referring to table 1, it can be seen that the use of edmodo in the assessment activities in the learning process passes criteria both with an average percentage of respondent respondents in the range of 70-88%. This indicates that the use of Edmodo has been quite efficient in helping teachers carry out the process of assessing assignments and student learning outcomes so that in the future this edmodo based assessment technique can be developed. The first conclusion that can be drawn based on the questionnaire analysis is that Edmodo is easy to operate, this is evidenced by 73.5% of respondents agreeing with the statement on the first questionnaire item. The ease of operation can be attributed to the complete Edmodo feature and does not make it difficult for users. For example, in the Edmodo application there is a "Whats due" menu that guides users to see what has been done and will be completed in the near future. In the submission menu that functions for the task collection stage, there is also a menu for attaching data in the form of pdf, jpeg, word, etc. so that users don't have to bother sending files separately [13]. This feature is similar to that of email and whatsapp. The difference lies in the time submission that can be arranged by the "teacher" so that the time of the collection of tasks becomes more scheduled and can improve student discipline. Edmodo can be downloaded for all types of smartphones. The Edmodo application can be installed for free through the download menu on the PlayStore or the appstore. Edmodo does not charge fees to users, both users as teachers and students. Besides that, in the Edmodo application you can also create a small group for discussion forums like a discussion group on WhatsApp. Students can form discussion groups with their group friends using the small group discussion feature. Some features such as edmodo reminder can motivate students to do assignments. Besides that in the submission menu there is a duration of time available, so students can work in a disciplined and timely manner. Student discipline will influence interest and motivate students in doing assignments. Edmodo can enable students to carry out assignments wherever they go. The Edmodo

application that is installed on a student's smartphone, can allow students to work on tasks without being limited to space and time. Besides that, Edmodo also allows students to collect assignments to the teacher without having to come face to face, through the submission menu. After students submit submissions, a notification will automatically appear on the teacher's account. At the same time, the teacher can make judgments and give comments relating to the tasks that have been done by the students [14]. The value given by the teacher can be accumulated and stored in the menu available in the assessment program in the Edmodo application. Because all activities are online, the response given by the teacher to the work and assignments of students will automatically be immediately visible and allow students to correct the task at the same time. Based on the analysis of the questionnaire results that have been disseminated, 85.3% of students were satisfied with the teacher's assessment related to the task of using the edmodo application. It is possible that in the future, the teachers who teach can vary the techniques of evaluating the work and assignments of students, one of which is using this edmodo application. Before carrying out the assessment process using Edmodo, it is important that the teacher first conduct student analysis. The analysis in question includes analysis of the availability of student smartphones, the percentage of students using smartphones must be 100%. If the percentage is less than 100%, it is feared that the assessment program will not run optimally and does not cover all students. In addition, before starting the use of Edmodo, the teacher can conduct a brief socialization of the features available in the Edmodo application so that students do not experience significant obstacles in carrying out task collection through the Edmodo application. In completing the task, Edmodo has a reminder feature. Every teacher or teacher account uploads tasks; a notification will automatically appear on the student's smartphone. Usually this is marked by the emergence of the Edmodo logi in students' desktop smartphones. This reminder shows the duration of work time and the files attached by the teacher. In addition, the teacher can also provide references in the form of pdf attachments or web links that can help students' complete tasks independently [15]. Based on the questionnaire analysis from the respondents, it can be concluded that some of Edmodo's strengths are in the view of students, these advantages include:

1. Assessment carried out by the teacher is direct
  2. The assessment did not take quite a long time, different from the assessment of assignments that were paper and pencil tests
  3. Work assignments have a clear enough time limit so that it is possible to foster a student's discipline in working
  4. Students can work on assignments wherever and whenever, without limiting space and time
  5. Students can submit assignments from places where students are located without having to meet face to face with the teacher
  6. Cultivate the independent attitude of students in work
- Some of Edmodo's weaknesses include:
1. For students who are not proficient in the field of IT, assistance is needed so that the work process runs in accordance with the expectations of the teacher
  2. The quality of input and assignment is determined by

the network / provider (will be less than the quality of Edge / 3G network)

3. The Edmodo application requires a large amount of runag on a smartphone

After analyzing the results of the questionnaire, it can be concluded that the use of edmodo in the task assessment process and student work is practical, efficient, motivating students, increasing discipline and allowing the assessment process to occur with direct feedback. In the future it is expected that there will be development of this Edmodo application-based learning process. Basically Edmodo is designed not only to connect teachers with students, but can further connect teachers with parents of students. To achieve this goal requires good cooperation and communication between teachers, students and parents of students. In addition, with the existence of edmodo this can increase motivation and interest in student learning. Edmodo is expected not only to be able to play a role as a media, but can further shift the view to being a provider of information and learning resources. Edmodo's menus can enable the design of learning resources in the form of online modules or electronic worksheets.

#### 4 CONCLUSION

Edmodo can help and facilitate the work of teachers in assessing the tasks and work of students. The ease and practicality of Edmodo to be used in the process of evaluating the training / assignments and student work outcomes is inseparable from the superiority of Edmodo, including: being flexible, can be downloaded by all types of smartphones, free /free, has main features that make it easier for students to upload tasks, have features reminder, and there is a feature of accumulated values that makes it easy for teachers to conduct evaluations. In the future, it is hoped that Edmodo can not only be used as a companion in the assessment process, furthermore Edmodo is expected to be an application developed to package a learning media or learning resource in the form of online (electronic based) modules and worksheets.

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