

Kurnia Martikasari

ICEEE Hor Potatoes



Karya Ilmiah Part 3 (Moodle TT)



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DEVELOPING HOT POTATOES-BASED MATERIALS OF STATISTICS SUBJECT FOR ECONOMIC EDUCATION STUDENTS

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Abstract

Information and communication technology is now growing rapidly in Indonesia. Education should be identify and make changes to improve the quality of learning. One of the way to do is by developing electronic based materials. Statistics subject is one of difficult subjects for students in Economic Education Department of Sanata Dharma University. It is necessary to develop electronic-based materials media. Electronic based materials can interesting and motivating students.

Based on this problems, the authors interest to develop multimedia based materials for Statistics subject by using hot potatoes programs. Development of hot potatoes-based materials are in the form of J-Match, J-Cloze, J-Quiz and J-Cross. Hope, it can help students understanding materials in Statistics subject.

To determine effectiveness of developing exercise by using Hot Potatoes-based materials, measure from students achievement in each exercise. The result is all of students pass each exercise with in the grade A or B or C. From that, developing hot potatoes-based materials of Statistics subject can be one of alternative to increase students achievement, especially materials of Statistics subject.

Keywords : information and communication technology, multimedia, hot potatoes, Statistics subject, Economic Education

1. Introduction

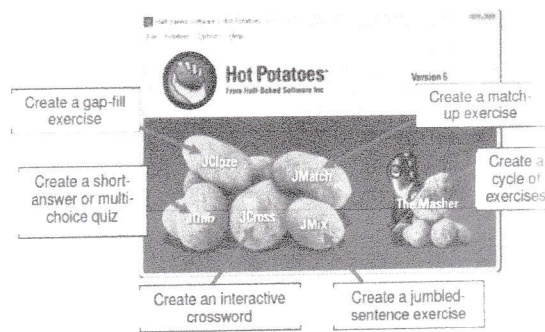
Information and communication technology is now growing rapidly in Indonesia. One of the impact of this is using high technology by our young generation. Education should be identify and make changes to improve the quality of learning. Statistics subject is one of difficult subjects for students in Economic Education Department of Sanata Dharma University. It is necessary to develop electronic-based materials media. Electronic based materials can interesting and motivating students [1].

Based on interview with students, they have problem to understand materials of Statistics subject. Statistics is one of subjects which "must pass" by students and students think that Statistics is a difficult subject, specially for student in Economic Education of Sanata Dharma University. Most of students must pass this subject more then one attempts.

Based on this problems, the authors interest to develop multimedia based materials for Statistics subject by using hot potatoes programs. Development of hot potatoes-based materials are in the form of J-Match, J-Cloze, J-Quiz and J-Cross. Hope, it can help students understanding materials in Statistics subject.

2. Hot Potatoes

Hot Potatoes is a software to create interactive activities as a cycle of interlinked webpage which work offline as well as online [2]. Hot Potatoes have several advantage, which are: (1) create cycles of different types of exercises such as gapfill, sequencing, cloze, matching, crossword which are marked by computer, (2) upload exercise to a moodle learning and have students scores recorded automatically via scorm compatibility, (3) encourage learner autonomy as students can receive immediate feedback when working independently and access resources whenever they wish on their own computer, and (4) create differentiated resources to cater for different levels and allow everyone to work at their own post [3].

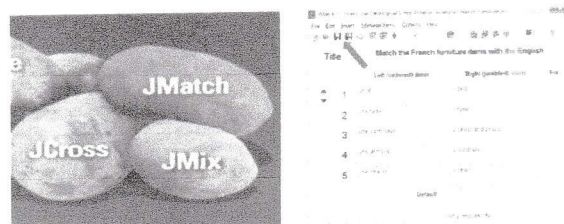


Picture 1 Hot Potatoes Display

Hot Potatoes consists of five different type of activity. They are J-Match, J-Cloze, J-Quiz, J-Cross, and J-Mix. Each activity focusing on one of a different skill or mixture of skills [4].

2.1 J-Match

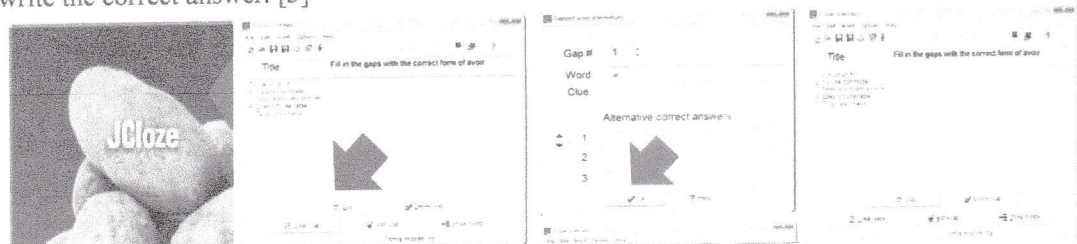
J-Match is one activity of Hot Potatoes. J-Match allows us to input a set of target then the programme generates an interactive exercise. Students can put the right answer to the left statement and have marked for feedback on their attainment. [3]



Picture 2 Example of J-Match Display

2.2 J-Cloze

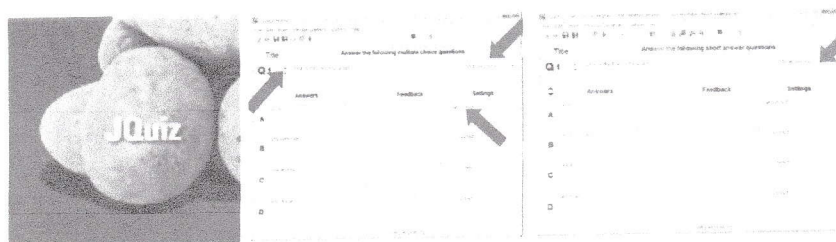
This programme is useful for students. It allows students to fill in gaps in sentences with correct answer. For different purposes, students can choose from a drop down box containing all option, or they have to write the correct answer. [3]



Picture 2 Example of J-Cloze Display

2.3 J-Quiz

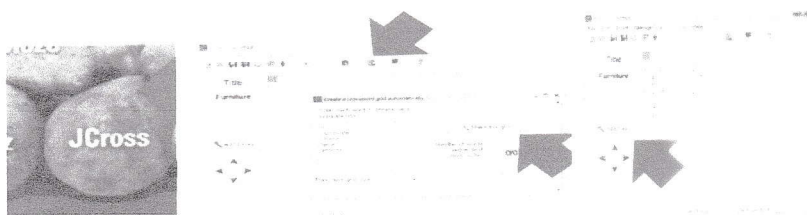
This style of exercise can be used for checking statement. Students have to choose the correct answer for each statement or question, either as multiple choice or as a free answer typed in a box. There are two or more correct versions of answer, the software allows all correct answers to be entered by maker when creating the exercise and students are not penalised for giving a correct answer that 'the computer' does not recognise letter for letter. [3]



Picture 3 Example of J-Quiz Display

2.4 J-Cross

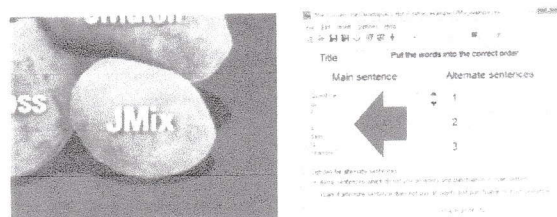
The other style of Hot Potatoes is J-Cross. J-Cross is useful for short answer. Students click on the number of square to reveal the clue, they tab in and then they can check their answer. [3]



Picture 4 Example of J-Cross Display

2.5 J-Mix

J-Mix is one style of Hot Potatoes which can combine one of style and other style of Hot Potatoes. We can input statements and programme jumbles it up. Students have to drag the word/letter/statements into the correct order on the line. [3]



Picture 5 Example of J-Mix Display

3. Developing Hot Potatoes-Based Materials of Statistics Subject

Statistics is one of subjects which "must pass" by students and students think that Statistics is a difficult subject, specially for student in Economic Education of Sanata Dharma University. Most of students must pass this subject more than one attempts. Based on interview with students, they have problem to understand materials of Statistics subject.

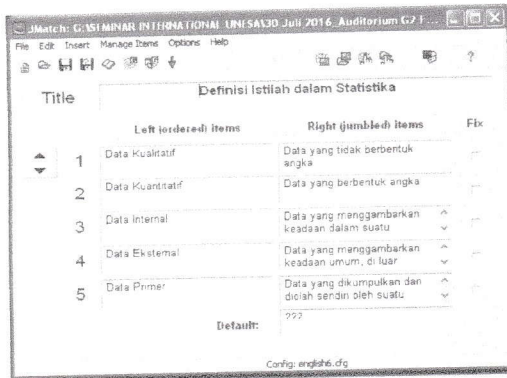
Based on that problem, lecturer develop design of learning progress to help students understand materials of Statistics easily. For that, lecturer develop online exercises-based on materials by using Hot-Potatoes. Online exercises can helping students improve the understanding of the materials that has been discussed at the meeting in question. Online exercises are given after the meeting. Deadline is 6 days. Students are given the opportunity twice on each exercise. Students who are not present at the meeting in question, still can take online exercise. Online exercises is helping students learn independently outside the meeting in the classroom. Online exercises are uploading by using moodle.

4. Result

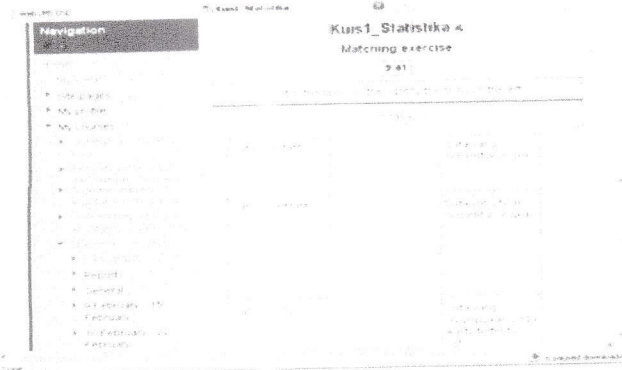
This research is research and development and result of this research are products. Products refer to exercise-based on materials of Statistics which develop by using hot potatoes, include J-Match, J-Cloze, J-Quiz and J-Cross.

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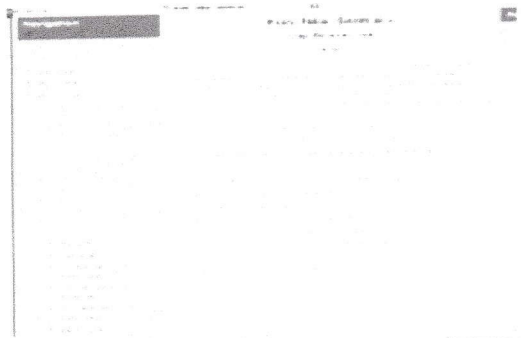
Developing hot potatoes-based materials of statistics subject, are:



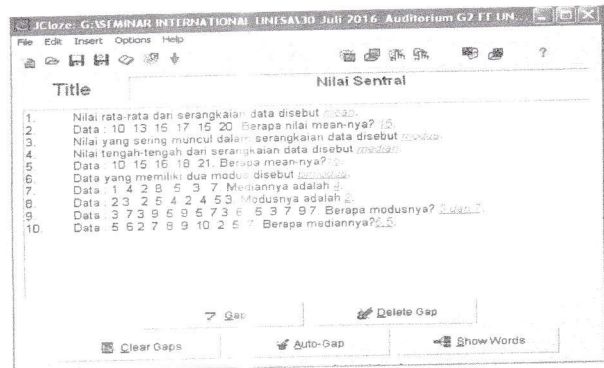
Picture 6 J-Match Exercise, Hot-Potatoes Display



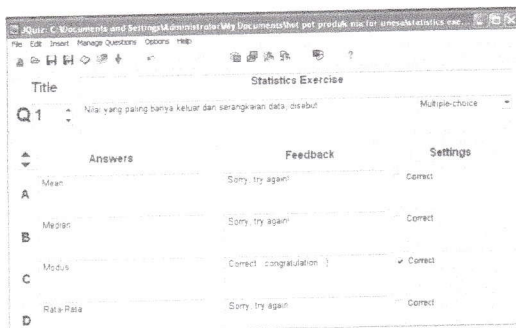
Picture 7 J-Match Exercise, Moodle Display



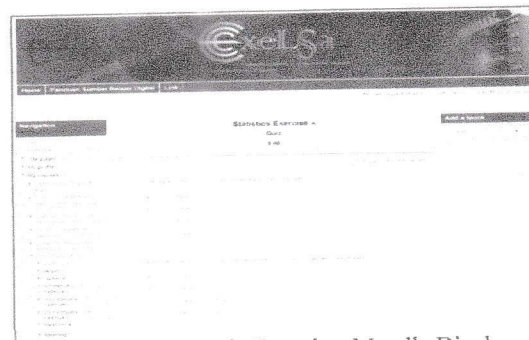
Picture 9 J-Cloze Exercise, Hot-Potatoes Display



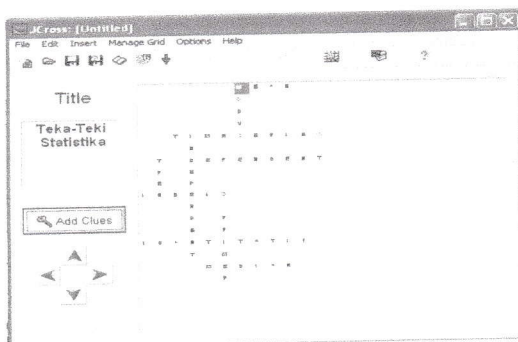
Picture 10 J-Cloze Exercise, Moodle Display



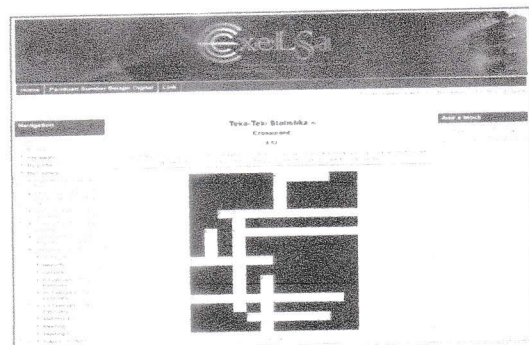
Picture 11 J-Quiz Exercise, Hot-Potatoes Display



Picture 12 J-Quiz Exercise, Moodle Display



Picture 13 J-Cross Exercise, Hot-Potatoes Display



Picture 14 J-Cross Exercise, Moodle Display

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To determine effectiveness of developing exercise by using Hot Potatoes-based materials, measure from students achievement in each exercise. Passing grade of Statistics subject is 56. By using hot potatoes-based materials exercise in every chapter, can help student to understand materials of Statistics subject. Based on students achievement in every exercise, students can pass the passing grade. The results are as below.

Table 1. Students Achievement

Score	Grade	Basic Concepts of Statistics	Procedure Research of Statistics	Tables & Graphs of Statistics	Frequencies distribution	Central Value	Dispersion	Index	Trend
80-100	A	83,3%	94,4%	97,2%	100%	100%	97,2%	100%	100%
66-76	B	11,1%	5,6%	2,8%			2,8%		
56-65	C	5,6%							
46-55	D								
0-45	E								

Source: Hot Potatoes Overviews, 2016.

5. Conclusion

Information and communication technology is now growing rapidly in Indonesia. Education should be identify and make changes to improve the quality of learning. One of the way to do is by developing electronic based materials.

Statistics subject is one of difficult subjects for students in Economic Education Department of Sanata Dharma University. It is necessary to develop electronic-based materials media. Electronic based materials can interesting and motivating students.

One of the way to do it is by developing hot potatoes-based materials of Statistics subject. This developing include J-Match, J-Cloze, J-Quiz and J-Cross. To determine effectiveness of developing exercise by using Hot Potatoes-based materials, measure from students achievement in each exercise. The result is all of students pass each exercise with in the grade A or B or C. From that, developing hot potatoes-based materials of Statistics subject can be one of alternative to increase students achievement, especially materials of Statistics subject.

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