

APPLICATION OF CAI METHOD IN TAJWID SCIENCE LEARNING MEDIA APPLICATIONS MULTIMEDIA BASED

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Abstract: one component important in the learning process is the medium. The position of learning media right now is not only just a tool to help to teach but also is a method for motivating and communicating with students more effective. The science of recitation is one part of the branch of Qur'an science that is very important for every Muslim to learn. A teacher tries to develop and advance education, especially at MIS Al-Mahdy. Efficient and students are less active due to the provision of material that is still watching causes students be passive; therefore, to avoid this, the teaching and learning process applies the CAI method. CAI (*Computer Assisted Instruction*) is a learning media through a computer system built as a complement and support learning techniques that can be packaged in an attractive and interactive multimedia form to increase student interest in learning. Therefore, the learning media with the CAI method can be a learning resource that can help achieve the goals of learning Islamic religious education and can also increase students' learning motivation in the teaching and learning process of Islamic religious education, especially the science of recitation.

Keywords: Application; *Computer Assisted Instruction*; Instructional Media; Tajwid

Abstrak :Salah satu komponen penting dalam proses belajar adalah media. Kedudukan media pembelajaran saat ini tidak hanya sekedar alat bantu untuk mengajar, tetapi juga merupakan cara untuk memotivasi dan berkomunikasi dengan pelajar agar lebih efektif. Ilmu tajwid merupakan salah satu bagian dari cabang ilmu alquran yang amat penting untuk dipelajari setiap muslim, untuk itu seorang guru berusaha mengembangkan dan memajukan pendidikan khususnya di MIS Al-mahdy permasalahan yang dihadapi khususnya dalam pengajaran quran hadist mengenai ilmu tajwid seorang guru tersebut dalam melaksanakan pengajaran kurang efisien dan siswa kurang aktif disebabkan pemberian materi yang masih menonton menyebabkan siswa/i pasif maka dari itu untuk menghindari hal tersebut proses belajar mengajar menerapkan metode CAI. CAI (*Computer Assisted Instruction*) merupakan media pembelajaran melalui sistem komputer yang dibangun sebagai pelengkap dan pendukung dalam metode pembelajaran yang dapat dikemas dalam bentuk multimedia yang menarik dan interaktif sehingga dapat meningkatkan minat siswa untuk belajar. Oleh karena itu media pembelajaran dengan metode CAI dapat dikatakan sebagai sumber belajar yang dapat membantu mencapai tujuan dari pembelajaran pendidikan agama islam dan juga dapat meningkatkan motivasi belajar siswa dalam proses belajar mengajar pendidikan agama islam khususnya ilmu tajwid.

Keywords: Aplikasi; *Computer Assisted Instruction*; Ilmu Tajwid; Media Pembelajaran;

INTRODUCTION

Development Technology Information and Communication (ICT) has been making a significant contribution to field education [1]. Role technology information and communication in learning, apart from helping students in the study, also own enough role influential incredibly for teachers in utilization facility for interest enrich ability to teach him [2].

Media learning one of the tools, methods, and techniques used as intermediary communication Between a teacher and student to skeleton more streamlined communication and interaction between teacher and student in the educational process of teaching in schools [3].

With excellent learning media help student and teachers in the learning process teach such a student not quickly bored in following the learning process teaching, students more easily understand the material, and the learning process lead Becomes more effective and efficient [4].

Besides could replace part teacher's job as a presenter Theory (distributor message) media too own utility for an overcome obstacles in communication, limitations physique in class, attitude passive students, and unite observation. Because it's a learning medium, could say as a source learn what you can help reach objective from learning Islamic religious education and could also Upgrade motivation student in the learning process teach Islamic religious education wrong the only one in knowledge recitation.

Knowledge tajwid a branch of knowledge to learn how to read the Qur'an correctly and adequately so that its meaning is perfect [5].

For that, a teacher is trying to develop and advance education. in reality, daily problems faced on institution MIS Al Mahdy education in teaching specifically eye lesson Quran Hadith about iscience ttajwid such a teacher in carrying out teaching not efficient enough, thing this caused students who are still not active enough in following the learning process teach or method monotonous teacher teaching so that passive cause student .

By because that to avoid student the passive, the teacher should be more careful in choosing and using media, specifical computer for repeat problem passive student the Becomes active student. Therefore, this study applies the CAI (*Computer Assisted Instruction*) method.

CAI One method application learning based on frequent computer used, where is a development from on technology integrated that is communication (interactive), audio, video, performance packaged image with designation multimedia technology [6].

With the preceding, this research aims to help achieve the objectives of learning Islamic religious education and can also add a new attraction for students who want to learn tajwid to increase students' learning motivation in the teaching and learning process of Islamic religious education, especially recitation.

METHOD

Computer Assisted Instructions

Computer Assisted Instructions (CAI) Teaching Help Computer or abbreviated with Computer Assisted Instruction is something system teaching and learning using equipment computer

as a tool help him together with a knowledge base (basic knowledge) CAI is development than technology information integrated that is communication (interactive), audio, video, performance packaged image with designation multimedia technology [7].

The use of Computer Assisted Instruction (CAI) method where method this not only gives Theory in the form of a text course, practice gives Theory shaped sound. Interaction Between computer with educator occur individually and in the group [8].

Communication Among students with computers in Computer Assisted Instruction (CAI) includes stages as follows: (1) Computer serve Theory lesson, (2) Students learn Theory, (3) Computer submit questions, (4) Students give a response , (5) Computer check response that, if rated suitable, computer serve Theory next, but if rated wrong, computer give correct answer along with the explanation [9].

A good CAI program must cover four activities: (1) the provision of materials/lessons must be informed, or skills (skills) must be modelled, (2) Students /i should direct, (3) Student given exercises, (4)

Achievement study student should rate. Some necessary aspects there is in the CAI program are as follows : (1) Feed prompt return, (2) Interaction Among students and programs, (3) Introduction and clear goals, (4) Example and demonstration, (5) Giving instructions and tasks should clear [10].

Design Process

Stage planning makes specifications by detail about program architecture so that in Step next, no critical decision new, will but no close possibility existence addition, change or

omitted. After the view is designed in the script format, the Step next is creating a display on the computer screen and designing a flow chart for knowing the program/relationship between the view developed [3].

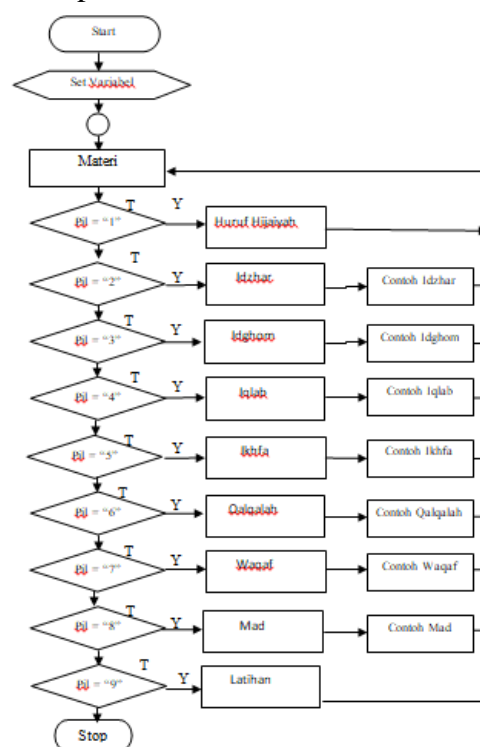


Image 1. Design Process

Implementation

Implementation is procedures that must be done to complete the design of existing interface in document design interface who have approved, as well test, install, and start use from learning media knowledge recitation.

In producing application learning media, this tajweed shared Becomes two processes, namely the process of collecting material/object and process editing with the use a number of software.



Image 2. Production Process Application

Material/Object Collection

Material/object main in making application this is Arabic letters. There is also a recording voice pronunciation of letters Arabic and *back sound*. Besides that, this also needs an Images supporter to beautify the app *layout* in making an application.

Editing Process

In application editing, the manufacturing process necessary elements _ not only done in a device soft but done with several devices soft. For more explanation, the process occurs by merging element that could be seen in the picture.

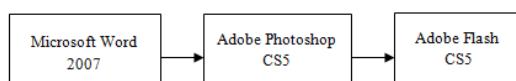


Image 3. Editing Process

RESULTS AND DISCUSSION

To make it easy how to use or implement multimedia based tajwid learning media applications, it can be seen in image 4-14.

Main Menu Page

page that displays selected menus for access Theory on learning media tajwid,



Image 4. Main Menu

Material Menu Page

Pages that display material for hijaiyah letters, idgham, izhar, iqlab, ikhfa, qalqalah, waqaf and mad.



Image 5. Material Menu

Hijaiyah Letter Menu Page

Pages that display hijaiyah letter material and their descriptions



Image 6. Menu Hijaiyah Letters

Idghom Font Menu Page

Pages that display the meaning of the letter idghom.



Image 7. Menu Letter Idghom

Idzhar Letter Menu Page

A page that displays the meaning of the letter Idzhar.



Image 8. Page Menu Letter Idzhar

Iqlab Letter Menu Page

A page that displays the meaning of the letter iqlab.



Image 9. Page Iqlab Letter Menu

Ikhfa Letter Menu Page

Pages that display the meaning of the letter ikhfa.



Image 10. Page Ikhfa Letter Men

Qalqalah Letter Menu Page

A page that displays the meaning of the letter qalqalah.



Image 11. Page Menu Letter Qalqalah

Waqaf Letters Menu Page

A page that displays the meaning of waqf letters.



Image 12. Letters of Waqaf

Mad Letter Menu Page

Pages that display the meaning of the letter mad.



Image 13. Mad Letters

Exercise Menu Page

Pages that display exercises/questions.



Image 14. Exercise

CONCLUSION

As result, this research, by applying the CAI (Computer Assisted Instruction) method to the design of multimedia-based tajwid science applications, can provide solutions for

teachers in teaching more effectively and efficiently and able to make students interested so that in learning students are more enthusiastic so that students are full of enthusiasm It's easy to remember and memorize with the application of this tajwid science-based learning media in the process study teach students are more *fun*.

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