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ORIGINAL ARTICLE



THE PARAMETERS FOR DEVELOPING E CONTENT

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Abstract:

Educational learning materials that have been effectively designed will facilitate the achievement of desired learning outcomes for students. Effective design of E content materials relies on instructional design processes that reflect the absence of or reduction in face-to-face instruction. It involves deep knowledge of cutting edge domains and technologies. Developing an appropriate E content material which facilitates independent learning and to learn in the absence of teacher involves certain parameters which are in line with learning theories and the apt method of producing the electronic material. Those parameters which are essential for the development of the proper e content are outlined in this paper.

KEYWORDS:

Multi media, Contiguity, Modality and Redundancy Principles. Validation

INTRODUCTION:

This paper focuses on the objectives, principles, phases of development and validation of E content material. The concept of E Content includes electronic versions of books, journals, maps, media, and archival materials. The content available through TV, radio, phone, multimedia CD/DVDs and Internet can also be termed as e-Content. The e content tends to deploy the media in creative and productive way and to restructure education to respond constructively and progressively to the technological and social changes. The e content provides scope for the integrity of the collection, availability around the clock, remote accessibility, interesting to use with audio and visual and scope for the multiple and simultaneous users. E Content integrates content management, resource management, collaboration and personalization. The process of development of E content makes the teachers to rethink their basic tenets to deploy the media in creative and productive way and to make use of the digital technology constructively and progressively to the individual learning needs.

OBJECTIVES OF E CONTENT PRODUCTION

Know you target audience and their learning preferences:

It is better that one knows the target audience and their learning preferences, so that the E content will be more effective. It is very important to review and re-review the content at the development stage with an eye of the end users and make sure that it will work for them.

Define clear learning objectives and work the content around them:

The content developers need to be very clear about the objectives and outcome of the learning content, and more significantly, they should be able to clearly communicate to their learners up front, before

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The personalization principle: Use conversational tone and pedagogical agents to increase learning.

The coherence principle essentially tells us that "less is more" when learning is the primary goal. It suggests that visuals or text that is not essential to the instructional explanation be avoided. It suggests that you not add music to instructional segments. It also suggests that lean text that gets to the point is better than lengthy elaborated text.

Apart from considering the above mentioned principle the Gagne's nine learning events are to be taken in to consideration as a model for creating E content. Gagne proposed that the content should have nine distinct instructional events to be effective. They are:

- (1) Gaining attention (reception)
- (2) Informing learners of the objective (expectancy)
- (3) Stimulating recall of prior learning (retrieval)
- (4) Presenting the stimulus (selective perception)
- (5) Providing learning guidance (semantic encoding)
- (6) Eliciting performance (responding)
- (7) Providing feedback (reinforcement)
- (8) Assessing performance (retrieval)
- (9) Enhancing retention and transfer (generalization).





After selecting a suitable topic, and analyzing it, the instructional objectives can be determined keeping in the mind the earlier learnt capabilities of the learner group both in terms of their previous knowledge and other competencies.

e.Development of Evaluation Measures

Self-learning materials also demands a pre-test to decide whether there is a need on the part of the learner to go through the material or a sub-unit or whether the learners can skip it. Self-learning material provides facility to each individual learner to check what the learners know and what the learners can learn.

DESIGN PHASE

a.Development of Modular structure

In developing a modular structure, the programme developer should identify the title of each module, objectives and the combination of presentation methods most suitable. Thus the whole E-content software would be a set of various interrelated modules. Though they are interrelated, one can select modules to be learnt or the pre-test may help the learner in selecting appropriate modules.

b.Development of Flowchart

The flowchart is an important piece of documentation needed when developing software. Once all the information that is required to be included in the course has been identified, and the rule set has been constructed, flowchart becomes the link between this information and the screen-presentation. The flowchart shows the quickest route through the course. It shows the frame numbers and the content loops. It helps prevent the course getting muddled and clearly shows the branching. It is also important in a validation, which is checking back to what the designer wanted to happen.

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The use of windows to display information in a box that overlays part of the existing screen can be very effective to emphasis points, informations, etc, windowing may also be effective for error message. Alternately, visual consistency might be more important to keep users confident and comfortable with the conventions adopted, that is where to look for new information, how to answer questions adopted, that is where to look for new informations, etc.

TEXT

The screen format should always adopt the conventions that lines do not end in the middle of words, and that paragraphs should not start on the last line of a page display. Text should be distributed over the whole screen or centred. Characters in lower case are assimilated more quickly than just upper case, which may be reserved for heading and other important emphasis. Text should be grammatically consistent.

III. GRAPHICS AND COLOURS

Graphic design creates visual logic, an optimal balance between visual sensation and graphic or text information. Without the visual impact of shape, color and contrast pages are often graphically boring

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THE PARAMETERS FOR DEVELOPING E CONTENT



and will not motivate the viewer to investigate their contents. It is advisable to be consistent with the use of color throughout a piece of software. Also large solid blocks of white and yellow should be avoided since they give an irritating flicker. Too much contrast or very bright colors should be avoided. Dull colors make learners disinterested. Repeatedly same colours, shapes and textures should be used. The weight of the page should be equally distributed in terms of kinaesthetic, top to bottom and left to right must be balanced.

IV. TIMING

Allowing the user to control when changes to the screen display takes place, and at what speed makes a programme more flexible for use with a wide range of the learners of a different abilities.

V. ANIMATION

The illusion of movement is a powerful feature that can focus attention dynamically. It can visualize process of change that the programmes is illustrating. Allowing the user to control animation may increase learner's participation and interactivity of the media to a great extent.

VI. SOUND

Uses of sounds have led to the development of E content in phonetics and also for developing as well as reading skills. The learners should also have control over the use and volume of sound.

PROGRAMMING PHASE

Once the final screen layout is ready E content preparation is almost over. To execute the E content one needs tools for execution. These tools are called authoring tools. These are the tools that are designed to minimize the actual amount of programming expertise required by a teacher in the creating of educational software.

Dean Christopher and Whitelock Quentin (1988) state that some fundamental features must be provided by any authoring system:

- Present text and questions on a screen
- · Accept responses entered used a keyboard
- · Analyze the responses
- Store details of responses and values of counters on a file
- · Branch to other parts of the learning programme
- · Provide feedback
 - Interface with sub-routes written in computer programming languages.

VALIDATION OF THE E CONTENT

EXPERT VALIDATION

When an e content development was completed it is ready for peer evaluation. In the sense it has to be given to the experts in E-content developers, Web studio Expert for their opinion about the technical aspects involved. The software has to be modified according to the suggestions given by experts.

INDIVIDUAL TRYOUT

After completing the expert and technical validation, the E content has to be given to the target students. The purpose of this tryout is to improve the software with reference to terminologies and comprehension, language ambiguity of the frames. This tryout has to be done on four or five individuals separately. Here, the vocabulary terms and comprehension difficulties could be identified and removed.

SMALL GROUP TRY OUT

The next stage is to test the e content with a group of around 10 or 15 students. The selected students are to be the representative of those for whom the programme was intended. The student responses and their reactions about the programme will be considered for improving and modifying the frames of the

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