ORGANIZATION OF E-LEARNING COURSE

RUTAR, A[na] & MESTROVIC, D[ubravka]

Abstract: Development of e-learning content is a long process and requires considerable initial effort. Depending on the complexity of the e-learning content, its creation could require much longer than the one intended for the educational process in the actual classroom. Actually, creating the e-learning lesson is time consuming, regardless whether it is online or not. Good organization can make production, modification and content correction easier.

Key words: e-learning, planning, scenarios, templates, development

1. INTRODUCTION

Due to the rapid progress of technology there is the need to constantly learn new things. E-learning is becoming more widespread. There are many advantages for students, for teachers and for organizations willing to educate their employees. Students themselves choose when, where and what they learn and they can choose their own learning pace. Teachers can use e-learning as a method of teaching preparation or as a teaching tool. Organizations can use e-learning for consistent, timeless and quality training of employees around the world (Horton, 2011). However, the development of e-learning content is a long process. Moreover let’s not forget that it requires a large initial effort. Its mere creation can be a very complicated process itself. Generally, to make high quality e-learning content you need: good lesson planning, knowledge of basic principles of learning and knowledge of educational materials as well as students (Piskurich, 2000). But the organization of the whole process lies in the first place. Therefore, every time saving stage in this process of content development is welcomed. If development costs are reduced, saved money can be invested in new e-learning courses and make e-learning education even more accessible.

2. ORGANIZATION OF AN E-LEARNING COURSE

2.1 Templates

Significant time savings in creating e-learning content can be achieved by using templates. Templates are partially completed components containing invariable and variable parts. Invariable parts contain: logos, navigation buttons, headers, footers, and other elements that occur repeatedly in many e-learning lessons. Variable parts can be edited and they can be different in each lesson. For example, they may be empty, filled with text or with inserted elements.

The main advantage of using templates is that their usage preserves the quality and consistency of appearance (Fee, 2009). They also accelerate the development of the e-learning course, because many of the elements are created only once. The material must be presented in a simple way and we should create exercises where students can practice the content learned. The conclusion in the end is used to revise important concepts and to emphasize the importance of the task. Scenarios should not be too complicated, but they must be accurate and precise. The scenario defines actions needed to create a lesson (Allan Michael, 2003). Figure (2) shows an example of a scenario written in MS Word.

2.2 Scenarios

Templates can be used for different scenarios, e.g one template for introduction of the lessons and the other one for further exercises. For example each scenario for each lesson should have an introduction, motivational part, presentation of materials, exercises and a conclusion. When creating a scenario we must have in mind that each lesson should state what exactly students will accomplish in the lesson, what they will learn from each lesson and why it is important to learn that part of the curriculum. The material must be presented in a simple way and we should create exercises where students can practice the content learned. The conclusion in the end is used to revise important concepts and to emphasize the importance of the task. Scenarios should not be too complicated, but they must be accurate and precise. The scenario defines actions needed to create a lesson (Allan Michael, 2003). Figure (2) shows an example of a scenario written in MS Word.
Scenarios are usually used when more people participate in the development of the e-learning lessons, where one of them writes a scenario with the content and descriptions of the lessons, while others develop the lesson by one of the software tools. They enable the task division in development stage of e-learning content depending on the knowledge of the participants. It furthermore means that the developers of e-learning lessons in one of the software may not be familiar with the content itself. In this way, scenarios are the easier choice for creators of e-learning lessons; they enable collaboration with experts from different fields and do not require further or extra education before the development (Gagne et al., 2005).

2.3 Writing reports
Courses can often contain up to tens or even hundreds of lessons. They can be in various stages of development: editing, finished, waiting for audio insertion etc. A very important issue when developing e-learning content is writing reports. The reports may contain a list of all the lessons in the course, information about the stage of development, the program’s name in which it is created, the information about sound or other multimedia elements. This information is useful in the development of e-learning because reports show the number of lessons that have been made and even estimate the duration of a certain stage of the course development. Writing reports is very important if the e-learning lessons are developed by a team. Figure (3) shows an example of the structure of MS Word e-learning course. The document shows the names of the chapters and lessons, the program’s name in which the lesson has been created, the information about the sound and the stage of development.

2.4 Organization of folder structure
During the development of each e-learning lesson, many different files are created. These are, for example, files created in tools for the content creation, audio, video and images, files that are built into lessons, scenarios, files created after publishing of the lesson, etc. If we multiply the number of lessons and the number of created files, results are often a few hundreds or thousands of files. If all the files on the computer are saved into one folder, it would be impossible to manage. Developers can waste a lot of time while looking for images and documents if they are not stored away properly. Different files that are generated when publishing a lesson could have the same name and cannot be stored in the same folder. It is necessary to create the folder structure on your computer where your files are to be stored. Well planned folder structure makes easy to search for and access the files in the process of development and during the changes of lessons. If one developer needs to work on some other developer’s files, consistent file structure saves time (Curry, 2009). It’s a good practice to group the same type of files in the shared folders.

It is good to name the folder according to its contents. Naming such folders as folder1, folder2, folder3 is not advised and it is preferable to give them names like Images, Source, Sound, Published_files, etc. Figure (4) shows an example of the structure of the course “MS Word” in which each chapter folder contains special subfolders for images, sound files, scenarios, used examples and files created in different programs.

2.5 Backup
Due to the various unforeseen situations such as lightning, computer failure, hacking, etc. weeks or even months of work could be lost. It is therefore very important to make backup copies of the e-learning lessons. Copies of e-learning lessons should be kept on different computers, and preferably at different locations. In addition it is important to update backup copies regularly (figure 5).

3. CONCLUSION
In development of e-learning content, we use all of the above time savers. However, some e-learning developers use only reports, others use only templates and scenarios. Generally, using templates, scenarios, good organization of the folder structure, backup of the course materials and writing reports are just some examples how good organization can speed up the work, reduce the possibility of errors, and save time and money. In the future we plan to spend more time studying new tools for e-learning content creation, to see if maybe some of them require less time for content creation than programs we currently use.

4. REFERENCES