

## Assignment 4<sup>th</sup> of user interface

### Cognitive ergonomics ..

Cognitive ergonomics is commonly described as the science of fitting the system to the human. It consists of adapting systems, interfaces and processes to fit human abilities and limitations. We are used to physical ergonomics where space, tools and tasks are adapted to suit human needs. For instance, the handle of some tools has been adapted to avoid wounds or to optimize strength, chairs have evolved in order for office workers not to develop back pain, QWERTY keyboard has made it faster and more natural to type, etc. Cognitive ergonomics, on its part, tries to adapt systems and tasks to the human way of perceiving and understanding their environments taking in account its specificities. Cognitive ergonomics made it possible to establish universal standards such as nuclear power plant's systems taking in consideration humans can make mistakes, universalized the use of red lights for cars to stop, or of the stop sign that anyone will understand even though it is written in a different language.

### Common components of user interface

Functional and communicational aspects ..

A web site interface serves many functions and targets many objectives. First of all, it identifies the company, the product or the

service the web site has been developed for. That is why the logo is usually the first element to be presented on a web page.

Following the logo, a navigation is usually presented so the user can choose from different information segments available throughout the web site. The content of the web site and of the different section is often presented so users know where to find what they are looking for. More and more web site will also present functionalities such as online shopping or reservations.

### Design aspect ..

The logo identifies the company or brand, but the web site design by itself should also represent it. The web site is usually designed based on the corporate image, using the same style and colors used in the enterprise marketing activities. The design should be created with the user in mind in order for the visitors to feel concerned about the nature of content, of the offer. The style and the quality of the design should equal or overpass those of the competition and importance should be given to efficiency using cognitive ergonomics principles. C

### The Production script

Based on the flow chart (site map), it's a good idea to produce a production script. The document will contain everything there is to know about the web site project. It will be used as a reference guide for production and can be used as a contract with the client. Each of the web site page is given a row on a page divided in three parts: the first for the page name, the second for the texts and the last one for images, multimedia and technological functionalities. At first, in the text section, there will only be

descriptions of the various content which will be gradually updated with the final content. The production script The image part will describe the image to be acquired or produced, the same thing for multimedia elements and technology to implement. Descriptions will gradually be replaced with the elements locations. This document will first be signed by the client as an approval for the project as described. When all the final texts will have replaced the descriptions, the client will have to make a revision and approve again so integration can begin. Especially useful when many people are working together on a project, a color code can be decided in order to identify what is done, what is in the process of being done and what is left to do.