1ˢᵗ Laboratory Work

Multimedia Authoring

Responsive Portfolio

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Introduction

This work aims at familiarizing with the elements of HTML5 and the properties included in CSS3. The goal is to implement a Responsive Web Portfolio using HTML5 and CSSs from a set of layout images (provided by the teacher) that define the basis of page layouts. Each student/group should adapt these layouts to build their portfolio. Students are free to make changes as long as they do not stray too far from the structure.

Below is a link to the w3schools website that should be consulted during Portfolio development.

http://www.w3schools.com/

Objectives

The website includes the development of 4 mandatory pages. The completed Responsive Portfolio website code must be submitted by October 20, 2017 using the Moodle platform.

Note 1: Students must use HTML5 structure tags and must use at least 3 CSS3 properties.

Laboratory Work

IntelliJ IDEA

1. Download of the IntelliJ IDEA (Ultimate version) following the *link*, https://www.jetbrains.com/student/ .

2. Install the development tool on your PC.

IntelliJ IDEA Project

3. Run IntelliJ IDEA and select the "Create New Project" option to create a new project.

4. In the next screen select the "Static Web" option in the left panel and the same option in the right panel.

5. Next, indicate the name and the directory of the project. Do "FINISH".

6. On the "Project" panel create directories (MRB - Mouse Right Button on the project title, select "NEW" and then "Directory") with the following names:
    • "css" - directory to save files with formatting styles;
    • "js" - directory for saving JavaScript files;
    • "imgs" - directory to store the necessary images in the project;
    • "sounds" - directory to save the audio files needed in the project.
    • "videos" - directory for storing video files;

    Note 2: In this project, we will not use JavaScript code so it is not necessary to create the directory. Likewise, if you do not use audio or video, you do not need to create their directories.

7. Do it again, MRB (Mouse Right Button) on the project name in the project window and "NEW". Then select "HTML FILE" to create an HTML file where we will place the HTML elements. Name the file "Home".

8. Make MRB on the "css" directory, select "NEW" and then "FILE". Give the name of "styling.css" to the file you just created.

"Home" Page

9. In the file "home.html" edit the code to create the structure (structure tags) defined in figures 1 and 2.

a)   b)   c)

Figure 1. "Home" Page *Layout*: a) PC; b) smartphone part 1; smartphone part 2.

Figura 2. "Home" Page *Layout* on tablet.

Note 3: Recommendations indicate that responsive website design should begin with smartphone development.

10. Edit the "styling.css" file with the formatting properties for the layout displayed on your smartphone.

Note 4: The layout presented can be changed as long as it has a dropdown menu, an image slideshow block with text overhead, and a block with 3 columns of icons (text) images below.

"Portfólio" Page

11. Repeat steps 7, 9, and 10 to build the page code "portfolio.html" based on Figures 3 and 4:

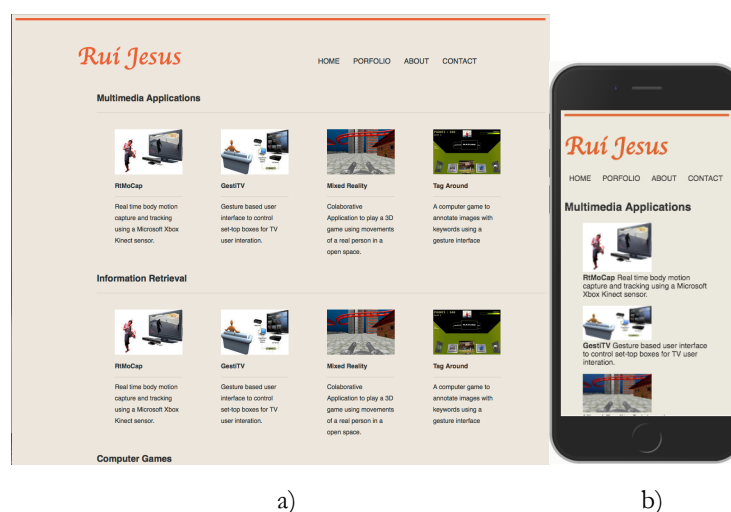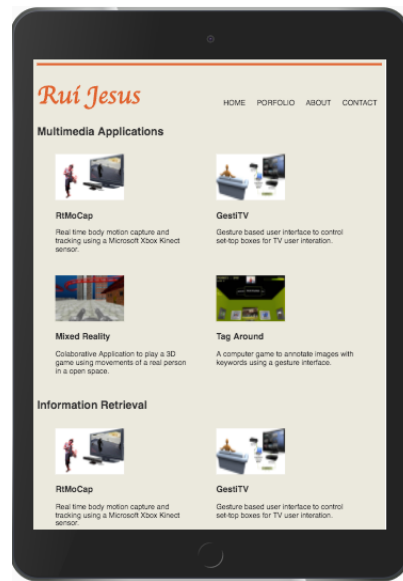a)   b)

Figure 3. "Portfólio" Layout page: a) PC; b) *smartphone*.

Figure 4. Portfólio" Layout page on tablet.

Note 5: The PC layout presented can be changed as long as it has a dropdown menu and two blocks with 4 columns of text images underneath.

"About" Page

12. Repeat steps 7, 9, and 10 to build the page code "about.html" based on figure 5.

Figure 5. "About" Layout Page on PC. On the smartphone and tablet the layout is the same as the PC.
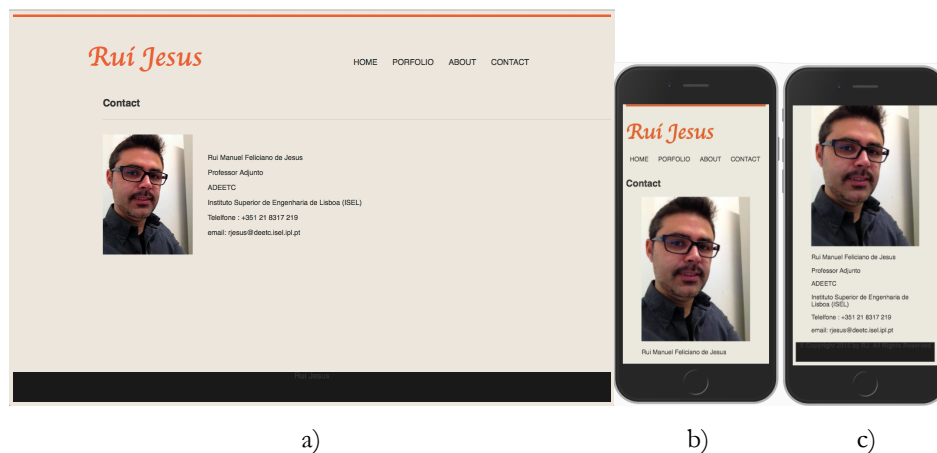
Note 6: The layout presented can be changed as long as it has a dropdown menu and Curriculum Vitae (CV) information of the student. In the previous figure an image with the CV of the student

appears. An image can be created to be displayed on the page or they can build the CV in HTML5/CSS3.

Note 7: The layout shown in Figure 5 for PC is the same for smartphone and tablet. It is not visible but keeps the footer black as in other layouts. You will probably need to have more than one version of the image with different resolutions.

"Contact" Page

13. Repeat steps 7, 9, and 10 to build the code for the "contact.html" page based on figure 7.

Figura 7. "Contact" layout page: a) PC and tablet; b) smartphone part 1; c) smartphone part 2.

Note 8: The layout shown can be changed as long as it has a dropdown menu and a text image next to it. The layout on the tablet is the same as the PC.

Responsive Website

14. Make the website implemented for smartphone responsive. That is, using responsive techniques adapt the website to tablet and PC as represented in the previous figures.