# CPSC 2030 – Web Development II

**Lab1: [40 marks] Create a website with basic HTML and CSS**

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| **Objectives** |
| * Create a website serving as a starting point for some labs later in the course * Practice on basic HTML and CSS |
| **Preparation** |
| 1. Create a new folder named **CPSC2030** inside your computer 2. Create a new folder named **Labs** under your CPSC2030 folder. 3. Create a new folder named **Lab1** under your CPSC2030\Labs folder. |
| **What to do** |

**Create a small website for a store called Future Buy (**Save all the files inside the folder **Lab1)**

1. This lab is to create a six-page website for a store called Future Buy (See FutureBuySample.docx). Four of the six pages are on the top level. They are Home, Categories, Products, and Contact Us. The other two pages are under the Categories. They are about two categories: Drones and Robots.
2. The content files for the six pages together with five image files are contained in the zip file FutureBuyFiles.zip (downloadable from D2L). The two html files for the two categories (drones.html and robots.html) must be put in a subfolder named categories. The image files must be put in a subfolder named images. You need to create these two subfolders yourself.
3. All the six pages will have the same page layout and same background. Use the image libray.jpg for the page background. Give each page an appropriate title.
4. The page layout consists of a logo banner on the top, three columns in the middle, and a footer on the bottom. The page is centered horizontally. You will use CSS to create the page layout. Configure the page areas with a good color scheme. Give your whole website a good formatting.
5. Create an external stylesheet to contain all the styles you create for this website. Link the stylesheet to the six pages.
6. Use the image futurebuylogo.gif for the banner and the image bannerbg.jpg for the banner background. Floating right on the banner is a box for store information which displays the store phone number and store hours. Give the box a good text color and a good background color.
7. The footer contains small centered text.The footer area should contain the following information:

Copyright © 2022 Future Buy.

Last Updated on xxx

Add a JavaScript action to the footer so that xxx will display the real last modified date and time.

1. In the middle of the page are the navigation links on the left, the content area in the center, and a side bar on the right.
2. Configure the main navigation links in an unordered list without bullets. Also configure the main navigation links to change color when a mouse hovers over. When the Categories link on the main navigation menu is clicked, the Categories page is displayed and two submenu items for the two categories are shown with bullets (not a dropdown menu). But they are hidden when any of the other main navigation links is clicked.
3. Format the content area of each page using the text given. Use appropriate headings and colors for the content.
   1. The Home page contains a short introduction about the store, a section on the product categories, and a section for the store address. Under the product categories are two images (drones.gif and robots.gif) with captions. The images and their captions are linked to the drones.html page and the robots.html page, respectively.
   2. On the Categories page, add a hyperlink to each of two category names so that they are linked to the two category pages (drones.html and robots.html), respectively.
   3. The Drones and Robots pages list the types of products under each category. Each page also contains a link to the Products page.
   4. On the Products page, you will create a table with a border and a good table background color. The column headers are Product Name, Category, Quantity, Price, and Deal? The table has been partially created for you.
   5. The Contact Us page contains two sections: The Store Information section lists the phone number, hours and address. The Contact Us section is a form for the customers to send customer information and comments to the store. Add an action attribute to the form so that when the Submit button is clicked the form data is sent to the following server-side script for processing:

http://webdevbasics.net/scripts/demo.php

1. The side bar areas are used to show the two hot deals.
   1. The two hot deals are Walking Man 3 and Diver Limited
   2. The two hot deals are linked to the two corresponding rows in the Products table. Each of those two rows must be assigned a fragment id and the two hot deals are linked to those two rows.
2. Modify your html files and the CSS file and code a media query for smartphone display, specifically,
   1. Modify each page to include the following viewport media tag

<meta name="viewport" content="width=device-width, initial-scale=1.0">

* 1. Set the max-width of the media query to 768px
  2. Modify your CSS file to hide the side bar and set the page min-width to 580px.
  3. Change your navigation area to vertical display and draw a bottom border under each menu item. Center the menu items. Add other necessary styles to your CSS so that the navigation area looks the same as the sample given. The two submenu items for the two categories are always hidden.
  4. Hide the floating box on the banner.
  5. Change the text font sizes of the headings and paragraph so that they look the same as the samples given.

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| **What to hand in** |
| * Zip your Lab1 folder and upload it to D2L. |
| **When to hand in** |
| * By 11:59pm, Sunday, September 11, 2022 |