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**Due Date:** please check moodle page

**Evaluation:** 6% of final mark

**Late Submission:** none accepted

**Type:** Individual Assignment

**Purpose:** The purpose of this assignment is to have you practice HTML5 tags and document - level style sheets (in Head section).

**CEAB Attributes:** This assignments is primarily evaluating your use of the HTML5 tags  
(Use of engineering tools)

## **Question 1 – Lists (4 pts)**

Using HTML5, produce the following nested lists exactly as illustrated in figure 1. It includes definition, ordered and unordered nested lists. No CSS required.

### **Exercise on HTML5 Lists**

term 1 (definition list)

term 1 description

1. ol list item 1
2. ol list item 2
  - ul list item 1
  - ul list item 2

term 2 (definition list)

term 2 description

- ul list item 3
- ul list item 4
  1. ol list item 3
  2. ol list item 4
- ul list item 5
- ul list item 6

Figure 1 - Nested lists to reproduce

## Question 2- Tables (4 pts)

Using HTML5, produce the following nested tables exactly as illustrated in figure 2. . It includes the <th>, <td> and <tr> tags. Include the border attribute in your <table> tag to make it easier to identify the cells even though it will not pass the HTML5 validator. No other CSS required (Question 4 will have you practicing with CSS).

### Nested Tables

Header column 1	Header column 2	Header column 3	Header column 4						
Row 2 - Item 1	Row 2 - Item 2	Row 2: Nested Table 1 <table><tr><td>Row 1 Header</td><td>item</td></tr><tr><td>Row 2 Header</td><td>item</td></tr><tr><td>Row 2 Header</td><td>item</td></tr></table>	Row 1 Header	item	Row 2 Header	item	Row 2 Header	item	Row 2 - Item 4 A second line
Row 1 Header	item								
Row 2 Header	item								
Row 2 Header	item								
Row 3: Nested Table 2 <table><tr><td>Row 1 Header</td><td>item</td></tr><tr><td>Row 2 Header</td><td>item</td></tr></table>	Row 1 Header	item	Row 2 Header	item	Row 3 - Item 2	Row 3 - Item 3			
Row 1 Header	item								
Row 2 Header	item								
Row 4 - Item 1	Row 4 - Item 2	Row 4 - Item 3							
Row 5 - Last row of outer table									

Figure 2. Nested tables to reproduce

## Question 3 – Forms (6 pts)

Create a single page that demonstrates an HTML form used for a survey. Keep to the format in figure 3. You are free to change the text and choices.

Your page must include:

- an image of your choice to the right or left of the top header (When the user clicks on the image it should take them to the url where the image is from). It might be easier to include this part in a table with 2 columns so that the image is next to the header.
- 5 text *input fields*: first and last name and 3 for the favorite artists/bands
- an email *input fields*
- a *drop-down list* for the user to select their age category
- give the user at least 5 possible music genres to pick from via *check boxes*
- give the user 3 text fields to enter 3 favorite artists/bands
- give the customer 4 possible choices of shows they could win tickets for via *radio buttons* ·
- include both a submit and reset button (*action buttons*)
- Have 2 *fieldset* tag each with their own *legend* tag: one to contain the user information and one

for the survey questions.

Be sure to include name and id tags for all input fields.

Note at this point the form will not do anything when submitted. (No presentation attributes required.)

Figure 3 illustrates the expected format of your HTML page.

## Music Lover's Survey

Music Lover's Personal information

First Name

Family Name

Gender: ☐ Female ☐ Male

What age category are you from?

Email

Survey Questions

Which type of music do you listen to? (Pick as many as apply)

☐ Blues ☐ Classical music ☐ Electronic Music

☐ Hip Hop/Rap ☐ Pop (Popular music) ☐ Reggae

☐ Other

List your 3 favorite artist/bands:

If you were to win tickets which show would you like 2 tickets to?

☐ BRIT FLOYD (March 24, 2016) ☐ IRON MAIDEN (April 1, 2016) ☐ JANET JACKSON (June 17, 2016) ☐ ADELE (September 30, 2016)

Thank you for taking the time to fill out our survey!

Figure 3 - Format of page to reproduce for question 3

## Question 4 – Presentation (5 pts)

Make a copy of your HTML page from question 3 and add the following presentation formatting. All formatting should be defined in the head section of your document.

1. Each *fieldset* border color should be different and not black or grey.
2. The *legend* of each *fieldset* should be the same color as the border of the *fieldset* it belongs to.
3. The background color of each *fieldset* should be different and other than white.
4. The *labels* in each fieldset should be a lighter version of the border and legend color.
5. All prompts input field labels should be bolded (such as First Name, List your 3 favorite artist/bands, just to list 2 examples). Refer to figure 4.

The image shows a web form titled "Music Lover's Survey" with a musical note icon. The form is divided into two main sections, each enclosed in a colored fieldset. The first fieldset, titled "Music Lover's Personal information", has a light blue background and a green border. It contains input fields for "First Name", "Family Name", and "Email", radio buttons for "Gender" (Female, Male), and a dropdown menu for "What age category are you from?" with "Less than 18" selected. The second fieldset, titled "Survey Questions", has a light pink background and a red border. It contains a question "Which type of music do you listen to? (Pick as many as apply)" with checkboxes for Blues, Classical music, Electronic Music, Hip Hop/Rap, Pop (Popular music), Reggae, and Other. Below this is a prompt "List your 3 favorite artist/bands:" followed by three input fields. At the bottom of the fieldset is a question "If you were to win tickets which show would you like 2 tickets to?" with radio buttons for BRIT FLOYD (March 24, 2016), IRON MAIDEN (April 1, 2016), JANET JACKSON (June 17, 2016), and ADELE (September 30, 2016). Below the fieldsets is a "Thank you for taking the time to fill out our survey!" message and two buttons: "Submit" and "Reset".

**Music Lover's Survey**

Music Lover's Personal information

**First Name**

**Family Name**

**Gender:** ☐ Female ☐ Male

**What age category are you from?**

**Email**

Survey Questions

Which type of music do you listen to? (Pick as many as apply)

☐ Blues ☐ Classical music ☐ Electronic Music

☐ Hip Hop/Rap ☐ Pop (Popular music) ☐ Reggae

☐ Other

**List your 3 favorite artist/bands:**

If you were to win tickets which show would you like 2 tickets to?

☐ BRIT FLOYD (March 24, 2016) ☐ IRON MAIDEN (April 1, 2016) ☐ JANET JACKSON (June 17, 2016) ☐ ADELE (September 30, 2016)

Thank you for taking the time to fill out our survey!

Figure 4- Format of page to reproduce for question 4

## Q5: Understand the CSS box model (4 pts)

The image below illustrates the CSS box model:

Please use the <div> to implement a page illustrated below. 1) You can use any color



Figure 5. The CSS Box Model

combinations for the border and the background; 2) you can decide the width of the paragraph in the border; 3) when you resize the browser window, the text is automatically wrapped.

### The CSS Box Model

This is the normal text. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

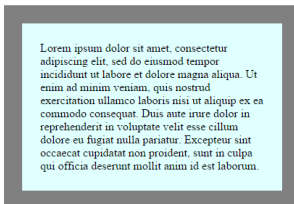


Figure 6. A sample page

## Q6: Pseudo Class Selector and Navigation Bar (3pts)

Use “list” to create a vertical “navigation bar”. “Home” is the current page (active), with a green background color and a white text. The other non-active items have a grey background and a white text. When mouse is over a non-active item, the text changes to white with black background. Figure 3 is a demo.

### Vertical Navigation Bar

"Home" is the current page. There are four menu items.



Figure 7. A sample page of navigation bar

## Q7: Overlapped text boxes

On a single HTML page, include the following two div container elements in the body. Using an external style sheet, add style to the div elements such that one div has some overlap with the second div (Hint: make use of relative or absolute positioning). Both divs should have a padding of 5px all around, a green 2px dotted border (I show the border of one box in orange), a width and height of 200px and their text should be centered.

Also, add style to the span class “red” so that the text displays in red and is **bold**.

```
<div id="first">  
    <span class="red">This is a DIV Container</span>  
</div>  
<div id="second">  
    DIVs are a powerful way to modularize presentation  
</div>
```

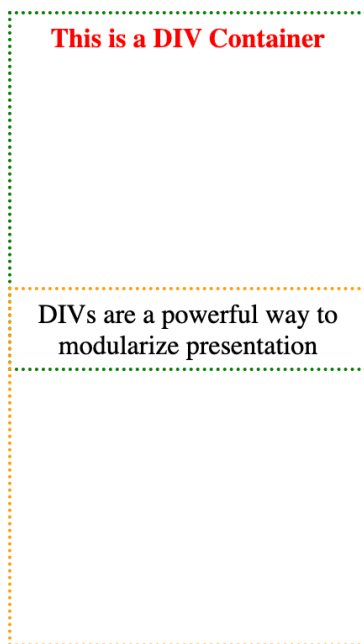


Figure 8. two div boxes

## Q8: Step 1 of the Running Project - Adopt a Dog/Cat

The last question of each of the remaining assignments will be continuous from assignment to assignment. The goal is to build a website for people who are looking to adopt a cat or a dog. You will expand what your site can do with each submission.

In this assignment, you will build the skeleton for the *Adopt A-Cat/Dog* website, along with some initial content. Use HTML5 and CSS to accomplish this task.

The structure of the site should be broken into four components:

- **A header.** This should appear at the top of all pages on your site. It should include the name of your pet adoption service as well as a logo/picture. Clicking on the logo/picture should take you to the home page.
- **A side menu.** This should appear on the left or right side of all your pages. Include the following contextual navigation links: *Home* page, *Browse Available Pets*, *Find a dog/cat*, *Dog Care*, *Cat Care*, *Have a pet to give away* and *Contact Us*. The side menu should consistently appear on the left or right side at all times.
- **A content area.** This should be the main area where content of the site is displayed. This is where forms would be filled out and any significant text would appear.
- Following is a description of each page which will appear in the Content area of your site, as a result of clicking on one of the choices listed in the side menu.
  - The **Home** page which should be a welcome page and have a brief description of what the site is about. Include enough content and decorated as you wish, to demonstrate your HTML5 and CSS prowess.
  - The **Browse Available Pets** page will eventually display all of the pets available for adoption. For now you can have an “Under Construction message” appear when a user clicks on this link.
  - The **Find a dog/cat** link should load a form (could be the same form for both or a different form for dogs and cats which are very similar – You decide). To search the user will need to complete the form which requests the following information:
    - Cat or dog
    - Breed of dog or cat – (include a doesn’t matter choice)
    - Preferred age of animal - can be a choice of age ranges (include a doesn’t matter choice)
    - Preferred gender – Male, female, doesn’t matter choice.
    - Whether it needs to get along with other dogs, other cats, small children.
    - Submit & Clear button (eventually the submit button will result in a list of pets fitting the selected criteria being listed.)
    - We might add a few more fields in subsequent assignments
  - The **Dog Care** and **Cat Care** pages will offer general instructions on how to care for a dog or cat. They can contain text you copied from other sites, a series of links or a combination of these two. Don’t forget to give credit for material that is not yours.
  - The **Have a pet to give away** page will have a form which the person who has a pet to give up for adoption will need to fill out. Eventually a user will need to log in to this section of the site to



register a pet. For this assignment when this link is activated have a form that appears requesting the following information (you can add more and we may add more in future assignments):

- Cat or dog
  - Breed of dog or cat – include a mix breed
  - Age of animal - can be a choice of age ranges
  - Animal gender
  - Gets along with other dogs
  - Gets along with other cats
  - Suitable for a family with small children
  - Comment area (textarea) which the user can use to brag about the animal they are putting up for adoption.
  - Their current owner's name (both family and given name)
  - Their current owner's email (where they can be reached)
  - Submit & Clear button - eventually the submit button will add this pet to the list of available pets on the server.
- The **Contact Us** page which will have contact information. This is where you should include your name, student Id, email and whatever other info you wish to add.
- **A footer.** This should appear at the bottom of all your pages. Give it a distinct background color and include a link to a **Privacy/Disclaimer Statement** which can either appear in the content area of the site. It should display a message promising users that their information will not be sold or misused, and protects the website builder from any incorrect information posted by a pet owner and so on.

Here are a few possible designs for the desktop version. You can make your own as long as it follows the requested guidelines. You need to make two different versions for tablets and phones. You can use bootstrap or w3css, or develop your own responsive styles.

Header	Side Menu
Content area	
Footer	

Side Menu	Header
	Content area
	Footer

Header	
Side Menu	Side Menu
Footer	

Header	
Side Menu	Content area
	Footer

## Submitting Assignment 1

### **Note:**

- 1) Although it is not a functional requirement, your site should always be well organized with properly named files and well defined directories.
- 2) Use external CSS files when possible.
- 3) Any pictures, graphics, text you “borrow” from other sites, be sure to give credit to. Be aware of plagiarism.
- 4) Before submitting your assignment please be sure to validate your codes using the HTML5 validator at <http://validator.w3.org/>. Any file that fails the validator check (except for the border attribute for question 2), will result in a -1 penalty.
- 5) Please give meaningful names to each html file to make the feedback process easier. -  
Naming convention for zip file: Create one zip file, containing all files for your assignment. -  
The zip file should be called *a#\_studentID*, where # is the number of the assignment and  
6) *studentID* is your student ID number. For example, for the first assignment, student 123456 would submit a zip file named *a1\_123456.zip*. Submit your zip file in **moodle** assignment 1.
- 7) Submit your assignment as “**Programming Assignment**” and select Submission **1** for assignment #1.

## Evaluation Criteria for Assignment 1 (20 points)

<b>Question 1- 4 pts.</b>	
<ul style="list-style-type: none"> <li>· Definition list</li> <li>· Ordered /Nested ordered list</li> <li>· Unordered /Nested unordered list</li> </ul>	1pt 1.5pt 1.5pt
<b>Question 2- 5 pts.</b>	
<ul style="list-style-type: none"> <li>· Row 1</li> <li>· Row 2</li> <li>· Row 3</li> <li>· Row 4</li> <li>· Row 5</li> </ul>	1pt 1.5 pts 1.5 pts 0.5 pts 0.5 pts
<b>Question 3- 6 pts.</b>	

<ul style="list-style-type: none"> <li>· Logo/image</li> <li>· Text input fields</li> <li>· Check boxes</li> <li>· Drop down list</li> <li>· Radio buttons</li> <li>· Action buttons</li> <li>· fieldsets</li> </ul>	0.5 pts 1 pt 1 pt 1 pt 1 pt 1 pt 0.5 pts
<b>Question 4- 5 pts.</b>	
<ul style="list-style-type: none"> <li>· Fieldset/legend formatting</li> <li>· Page Background color</li> <li>· Label format</li> <li>· CSS</li> </ul>	2 pts 1 pt 1 pt 1 pt
<b>Question 5 – 3 pts</b>	
<ul style="list-style-type: none"> <li>· background color</li> <li>· the border</li> <li>· text wrapped</li> </ul>	1pt 1pt 1pt
<b>Question 6 – 3 pts</b>	
<ul style="list-style-type: none"> <li>.Home (active)</li> <li>.Non-active items</li> <li>.Mouse hover</li> </ul>	1pt 1pt 1pt
<b>Question 7</b>	<b>6pts</b>
<ul style="list-style-type: none"> <li>.padding 5px</li> <li>.overlap</li> <li>.dotted border 2px</li> <li>.size 200px*200px</li> <li>.text centered</li> </ul>	1pts 2pts 1pt 1pt 1pt
<b>Question 8</b>	<b>12 pts</b>
<ul style="list-style-type: none"> <li>.Document header</li> <li>.Side menu</li> </ul>	1pt 1pt

.content area	1pt
.home page	1pt
.find a cat/dog	2pts
.care page	1pt
.have a pet to give away	2pts
.contact	1pt
.footer	2pts
Total	40pts