

EECS 1012: LAB #3 – Forms and more *fun* with CSS (Oct 1– 5, 2018)

1. Read the lab instructions in this document and take the pre-lab quiz for Lab #3 -- the TAs will not mark your lab if you do not show them you have not scored 100% on the pre-lab quiz.

NOTE: Try to complete the tasks given in this write up before coming to your lab session, the lab must be completed and verified by the TA before the end of the lab session.

2. GOALS & OUTCOMES FOR THIS LAB

- To continue practicing CSS
- To learn how to use HTML forms and its various UI elements

3. LAB 3 – TWO (2) TASK

1) TASK 1: Design a simple login page with HTML, CSS, and HTML Forms.

2) TASK 2: Design a simple *purchase page* with HTML, CSS, and HTML Forms.

INCLUDED IN THE ZIP FILE in addition to this PDF

- | | | |
|--------------------------|---|---|
| (1) lab_ex1.html | - | starting HTML document for task 1 |
| (2) lab_ex1.css | - | starting CSS document for task 1 |
| (3) lab_ex2.html | - | starting TML document for task 2 |
| (4) lab_ex2.css | - | starting CSS document for task 2 |
| (5) logo.png | - | image for task 1 |
| (6) tshirt.png | - | image for task 2 |
| (7) background.png | - | image for task 2 |
| (5) ExampleLab3Tasks.mp4 | - | video that shows you what the completed labs look like and how the web programs will respond. |
| (5) example\example.html | - | example HTML code with many of the HTML form UI elements |
| (6) example\example.css | - | example CSS code used in example.html |

4. SUBMISSIONS

1) [Manual verification by a TA]

As with labs 1 and 2, when you have completed all tasks, ask the TA to come and verify your code and output. You must sign the verification sheet to get marks. If you attended the entire lab and still cannot complete the lab before the end of the session, you will receive 50% credit for the lab.

2) Moodle submission

You will see an assignment submission link on Moodle.

1) Create a **folder** named “**Lab3**” and copy your modified HTML and CSS files. To upload, please follow the instructions in the following video that we used for Lab 1:

<https://www.youtube.com/watch?v=stEOh6ntV5o>

Task 1: Edit files lab3_ex1.html and lab3_ex1.css to produce an HTML page with HTML form elements and CSS styles shown below. **You should validate the HTML code (not CSS) – it should have no errors or warnings.**

Annotations:

- Top Left:** Add a paragraph with this image (*logo.png*). The image should be centered.
- Top Right:** This entire line is a paragraph. Align it to the right. The *log in* is text within a link. The text within the link has a black background and the foreground color is white. It has a padding of 5 pixels and the font is monospace with a size of 10pt. If you click on this it should link to "moodle.yorku.ca".
- Left Side:** Each item here is in its own paragraph. Input types are as follows: (1) text (2) email (3) password (4) checkbox (5) submit. Change the width of (1),(2), (3), & (5) to be 240 pixels.
- Bottom Center:** Button's background should be black with white text. 5px padding.
- Right Side:** Create a div to place all other elements inside. The div should have a width of 250 pixels. The margins should be set to **auto**. Top margin should be 20 pixels. Add a black border, 1 pixel thick. Make *all* paragraphs within this div have a margin of 2 pixels. All UI elements inside this div should be within a form. The form's action should link to: <https://www.eecs.yorku.ca/~mbrown/EECS1012/testForm.php>. Use the "get" method.

There are two more input types that are available in HTML5 that are not on the lectures notes. They are as follows:

(1) `<input type="password" ... >`

This creates a UI interface where the characters are not shown.

(2) `<input type="email" ... >`

This creates a UI interface that makes sure an email is inputted into the text. (It may not work on Mozilla, but will on chrome).

CSS Selector for the different type of inputs:

```
input[type="text"] { ... }
input[type="email"] { ... }
input[type="password"] { ... }
input[type="submit"] { .. }
```

Here is an example:

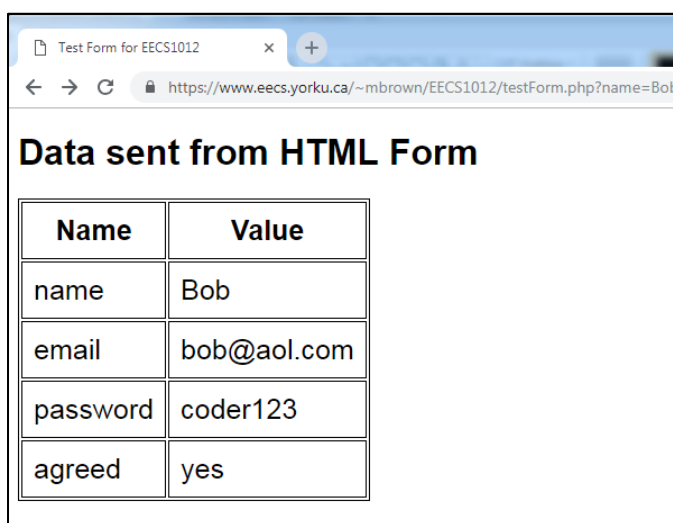
```
input[type="submit"] { background-color: green; } /* submit button's background is green */
```

Task 1 – continued

Some additional information. Your UI forms should have the following properties.

- (1) Text input should have name set to "name".
- (2) email input should have name set to "email".
- (3) password input should have name set to "password".
- (4) checkbox input should have name set to "agreed". The value should be set to "yes".
- (5) submit button value should be "Create my account".

If all of your HTML form elements are correct, you should see the following output from the web program (depending on what information you typed into the text fields)



Name	Value
name	Bob
email	bob@aol.com
password	coder123
agreed	yes

Task 2: Edit files lab3_ex2.html and lab3_ex2.css to produce an HTML page with form elements and CSS styles shown below. **You should validate your HTML code (not CSS) – it should have no errors or warnings.**

For this task it is very important to make sure that you get the *name* properties associated with all of the forms correct. If the names are not correct, the web program your form passing data too will get an error message.

For this program, you will need to set the form to call this program:

<https://www.eecs.yorku.ca/~mbrown/EECS1012/buyShirt.php>

However, for testing your form, you can use the same form used in task 1.

<https://www.eecs.yorku.ca/~mbrown/EECS1012/testForm.php>

What your webpage should look like:

The screenshot shows a web form titled "Select Shirt" enclosed in a light gray border. Inside the form, there is a central image of a white t-shirt with the text "<!doctype nerd>" printed on it. Below the image are four radio buttons labeled "White", "Red", "Blue", and "Green", with "Blue" selected. To the right of these is a "Size" dropdown menu currently showing "Small". Below the size selection are two radio buttons for "MasterCard" and "American Express", with "MasterCard" selected. Further down are four input fields for a card number, followed by "Expiration: Month (MM)" and "Year (YY)" with corresponding input fields. At the bottom left is a "Place Order" button with a "Submit" label, and at the bottom right is a "Reset fields" button with a "Reset" label. Red arrows point from the form to the surrounding text boxes.

Set the background image to "background.png"

The form action should reference the URLs mentioned above.

Set the fonts to san-serif

Have a div that contains all of your HTML elements.

This div should be 400 pixels in width with margins set to auto.

The background color should be set to: #EEEEEE

The border should be set to: #999999 and be 5 pixels thick.

You should have 5 pixels of padding.

Include a pull-down list as shown. The name should be "size". The options should be Small, Medium, Large, X-Large.

Create a fieldset with the shown legend text.

All elements inside this fieldset should be aligned to the center.

The image ("tshirt.png") should be inside a paragraph and have a height of 250 pixels. It should have a 3 pixel solid black border.

Create four radio buttons within a paragraph. These buttons should all have the name set to "color".

Use the <label> tag to associate the button to the text to the right of it. Use spans to make the text have the shown appearance.

The value of the radio buttons should be *White*, *Red*, *Blue*, and *Green* as shown.

More details continue on the next page.

Task 2 continued

Payment

☒ Visa ☐ MasterCard ☐ American Express

Card number - - -

Expiration: Month (MM) Year (YY)

Place Order Reset fields

Create another fieldset with the shown legend text.

Each of the items shown are within a single paragraph element. The paragraph elements are separated by horizontal rulers.

Radio buttons should all have the name set to "cardType".

The value for each is "vs", "mc", and "ae".

You need two text inputs for the expiration. The first is should be have its name set to "month". The width should be 2em; the text should be monospace.

The second should be name set to "year". Width and font are the same as month.

The last row are two paragraphs. One floats to the left, the other to the right.

Each has a button. The first is a "submit" button. It has padding of 5 pixels, a black background and white text.

The second is a "reset" button, it has padding of 5 pixels.

You should have four text inputs. The names are "cc1", "cc2", "cc3", and "cc4". Each could be set to a max length of 4.

The width of these text inputs should be 4em. The font should be monospace.


Set the text to be aligned to the right. (This will make the user's input aligned to the right – see video in the ZIP file) .

Continue on next page

Testing your task 2

(1) Set your form action to : <https://www.eecs.yorku.ca/~mbrown/EECS1012/testForm.php>

Select Shirt



☐ White ☐ Red ☒ Blue ☐ Green

Size

Payment

☐ Visa ☐ MasterCard ☒ American Express

Card number

Expiration: Month (MM) Year (YY)

Place Order Reset fields

Data sent from HTML Form

Name	Value
color	Blue
size	Large
cardType	am
cc1	4000
cc2	4000
cc3	4000
cc4	4000
month	12
year	20

If you have the name properties correct, then you can change the action to the following web program:

<https://www.eecs.yorku.ca/~mbrown/EECS1012/buyShirt.php>

The output will be as follows if your form is correct.

Nerd Shirt Purchase

Purchase confirmed

Color: Blue

Size: Medium

Credit Card: American Express

Number: 4000-4000-4000-4000

Exp: 10 / 20

If your form data is incorrect, your output will be:

Nerd Shirt Purchase

Sorry, an error occurred.

There is a problem with your order form. Please try again.