

# CMPS 356 Enterprise Application Development

## Lab 1 – HTML Basic Tags, Tables & Forms

### Objective

Learn and practice how to write:

1. Simple HTML page using HTML5 semantic tags and basic tags such as <h1> to <h6>, <p>, <br>, and <!-- -->
2. HTML Tables: HTML tables allow web authors to arrange data such as text, images, links into rows and columns.
3. HTML Forms: HTML Forms are used to collect some data from the user. For example, during user registration a form can be used to collect user details such as name, email address, phone number etc.

### Overview

This lab has four parts.

- **In Part A,**
  - you will be required to write a simple HTML page which demonstrates the basic HTML tags.
  - you will design a second page that has an HTML table.
  - you will design a third page that has an HTML form.
- **In PART B,** you will combine the skills you acquired in PARTs A and create a simple QU Website

After you complete your work you will push it to your cmps356s20 GitHub repository under a folder named “Assignments/Lab1-HTML”.

### Preparation

1. If not done already, visit <https://github.com/cmps356s20> and clone your private repository (named Lab-YourFirstname-QuUsername).
2. Save the files produced in this Lab under the folder named Lab1-HTML
3. At the end of the Lab push your work to your Github Repository under the folder assignment.

### Part A - Basic HTML Tags -Warmup activities

1. Create an html file and name it index.html and type the following code.


```
<html>f
  <head>
    <Title>The First Page</title>
  </head>
  <body>
    This is my first html program!
  </body>
</html>
```

2. Run your code on the browser.
3. Open the following website and explore basic HTML tags using <https://www.w3schools.com/html/default.asp>
  - a. Heading [h1 to h6]
  - b. Paragraph
  - c. Link and Anchors
  - d. Quotations and Citations
  - e. List [type= "I" , "a", "A", "i"]
  - f. Sematic Tags [header , nav , main, section , article , aside , footer]
  - g. Tables
  - h. Image
  - i. Audio
  - j. Video [ <https://pixabay.com/en/videos/> ] [controls , autoplay]
  - k. IDs
  - l. Forms , Input Types [text, date , color ...]

## Exercise 1 – HTML Basic Tags and Semantics

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Create the following page



### HTML5 Demo Page

This is a Simple HTML5 Page With Semantics

[Home](#) [W3 School](#) [Google](#)

#### Section 1 : A Simple HTML5 Page

This is an example of a simple HTML5 webpage using some of it's basic elements.

#### Section 2: What is New in HTML5?

**Article 1: The most interesting new HTML5 elements are:**

- New semantic elements like < header >, < footer >, < article >, and < section >.
- New attributes of form elements like number, date, time, calendar, and range.
- New graphic elements: < svg> and < canvas >.
- New multimedia elements: < audio > and < video >.

#### Section 3 : Progress bar with ordered list

**Article 2: Progress you'll make**

1. When you undertand HTML5 code
2. When you understand CSS3 Code
3. When you understand HTML5+CSS3 Code

**This page doesn't include any CSS3 code and it still look cool.**

@2020 This is the modified example

## Exercise 2 HTML Tables

1. Create an html file and name it **my-table.html**.
2. Design a page that has a single table that looks like the table 1 shown below.

Table 1 : HTML table

Book ISPN	Book Name	Authors		Donator Name
		First	Second	
978-148410-0		John bank	Baba Ali	Ali Mohamed
Extra Book				
278-148410-0		Doe wu	Donald Kerry	Abdulahi Hassen
478-148410-0		Tyler Sky	George Bush	Mohamed Ali
All books can be claimed from our office in H209				

## Exercise 3. HTML Forms

1. Create a file named forms.html.
2. Design a form that looks like the following form shown below.
3. You should not allow any of the field to be submitted unless they meet the requirement.

Color :

Email :

URL :

Telephone

Search

Range 0-100

Range 100-500 with step of 50

Range -2.0 to 2 with step of 0.2

Data List

Drop Down

Text Area

Radion Group  
One ☐  
Two ☐

Check Box Option 1 ☐ Option 2 ☐ Option 3 ☐

Submit

# **PART B**

## **Assessment 1 - HTML**

### **Due Date Wednesday By 12:00PM**

Create a project called **Assessment-1-HTML** and add the following three html pages .

- a) index.html
- b) time-table.html
- c) registration.html

The design of the pages are shown below.

- a) The **index.html** should look as follows . Also, at the bottom of the index page you should have the three links that take you to the different pages. [40]

### **Qatar University Fiction Website**

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#### ***Facts and Figures***




Fig. 1 QU Campus

Since its inception in 1973, Qatar University has become the country's national and major institution of higher education. Did you know that QU delivers 4 highly-popular high school initiatives -- Life is Engineering, Gasna, Computing Contest, and Al Bairaq?

#### ***Other Interesting Facts***

1. For the first time, Qatar University (QU) has been featured in the Times Higher Education World University Rankings in the 601-800 group.
2. QU has also scored the highest for International Outlook among all the other universities this year.
3. This year, the Ranking had 70 countries in it out of which 29 were first timers. This is the first time that countries like Qatar, Indonesia, Malaysia, Ghana, Nigeria, Bangladesh, Latvia, Oman and Ukraine have been featured in it.
4. The countries were ranked partly based on the publication and citation data from the world's largest abstract and citation database of peer reviewed literature called the Elsevier's Scopus.
5. The Editor of the Rankings, Phil Baty, has commented as, "Qatar is one of several countries to have made its debut in this year's rankings. The achievement is in part due to expanding the ranking to include 801 universities and 70 countries."
6. Among the Middle Eastern countries, Iran leads with 8 universities in the top 800. Egypt and Saudi Arabia with 3 universities, Jordan and UAE with 2 universities and Qatar, Lebanon, Morocco and Oman with 1 university each in the top 800 list.
7. In the African region, South Africa leads with 6 universities in the top 800.

- [Check Registration Form](#)
- [Check Timetable for the semester](#)
- [Visit Qatar University Main Page](#)

You are allowed to use any image from Google to replace the image shown above. Also, do not forget to structure your project. The images should be inside the img folder.

- b) The **timetable.html** file should have a single table that has the following design.  
**Note:** Make sure to use the proper border, colspan , rowspan, header on your table design.  
**[20]**

Table 1 : TimeTable

Spring 2020 Time Table						
		Sun	Mon	Tues	Wend	Thu
Hours	8am to 9:50am	Java	Calculus		Databases	English
	10am to 11:50am	Arabic	French	History	Social	
	12pm to 1 pm	Lunch				
	1pm to 2:50pm	C++		Math	Swimming	Project
	3pm to 4:50pm	Swimming		Reading at Library		

- c) The **registration.html** file should have a single table that has the following design. Make sure all the fields are validated. **[40]**

Personal Information

First name:

Last name:

Date of Birth:

Weight:  300 Selected Value: 1

Gender: ☐ Male ☒ Female

No. of Siblings:  (0 to 15)

Government

Administrative

Technical

Private Sector

Owner

Employee

Other

Employment:

Required. Max size 50.

Type=number, step=1

Allows multiple selections. Use option groups

Contact Information

Email:

Phone:

Preferred Contact Methods:

☐ By Phone
☐ By Email
☐ By Mailing Address

Use the right input type for all fields.

Address information

Address:

City:

Country:

Provides a list of most common cities: Doha, AlWakra, AlKhor.

Three countries ONLY. Qatar, Kuwait, and Bahrain. Single selection.

Submit

Reset

After you complete the lab:

- (1) Fill in the **Lab1-TestingDoc-Grading-Sheet.docx** and save it under the Assessments folder inside your repository. Not submitting the testing sheet **-15% of the grade**.
- (2) Put **your solution code** under the Assessment folder and Publish your work to Github repo