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CSCI 4131 –Spring 2020
Internet Programming Assignment 1
Version 2 – issued Saturday 1/25

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Due Date: Monday 1/27/2019 at 3 pm

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Late Submission / Cutoff Deadline: (penalty applied):
Tuesday 1/28/2019 at 12 noon(mid-day)

1   Description

The objective of this assignment is to introduce you to the Hyper-text Markup Language (HTML – specifically, HTML-5) document structure and a very limited amount of web-page styling using Cascading Style Sheets (CSS). Specifically, in this assignment, you will create the first two HTML pages that will eventually be part of the Website you will build for this course (You will be given assignments to update and add functionality to the pages as we progress through the semester).

The first two pages will be your contacts list and your widgets. Your contacts page should contain a table with information about your key contacts - though content is not the primary focus here – we're mostly interested in you getting your web development environment up and running. After you are done with that, you will create a second page that contains embedded widgets (a YouTube Playlist and Twitter Tweet) of your choice . Finally, you will link the two pages together to create a two-page "Website". You should use HTML-5 to develop your Website and avoid the use of deprecated elements.
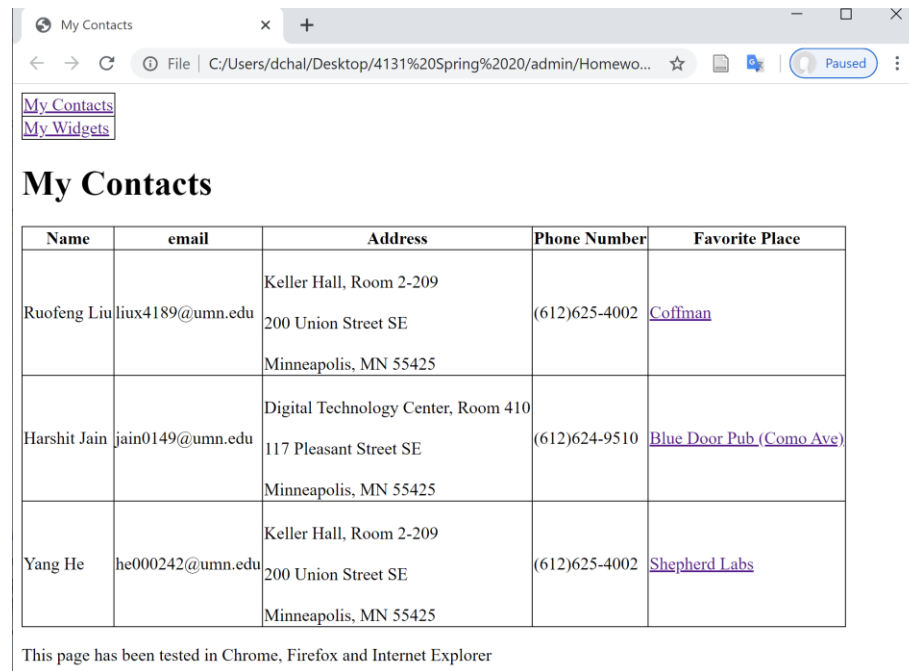
2   Requirements

Your contacts should be displayed on the first Web (i.e., HTML-5) page you create. Your contacts page should consist of an HTML table containing with information about your favorite contacts. Your contacts table should contain at least three rows. Each row in your contacts table schedule should contain the name, email, address, phone number, and a link to the contact's favorite location (a meeting place, their favorite restaurant, etc.). Use embedded CSS to display borders around the navigation links and HTML table containing your contacts.
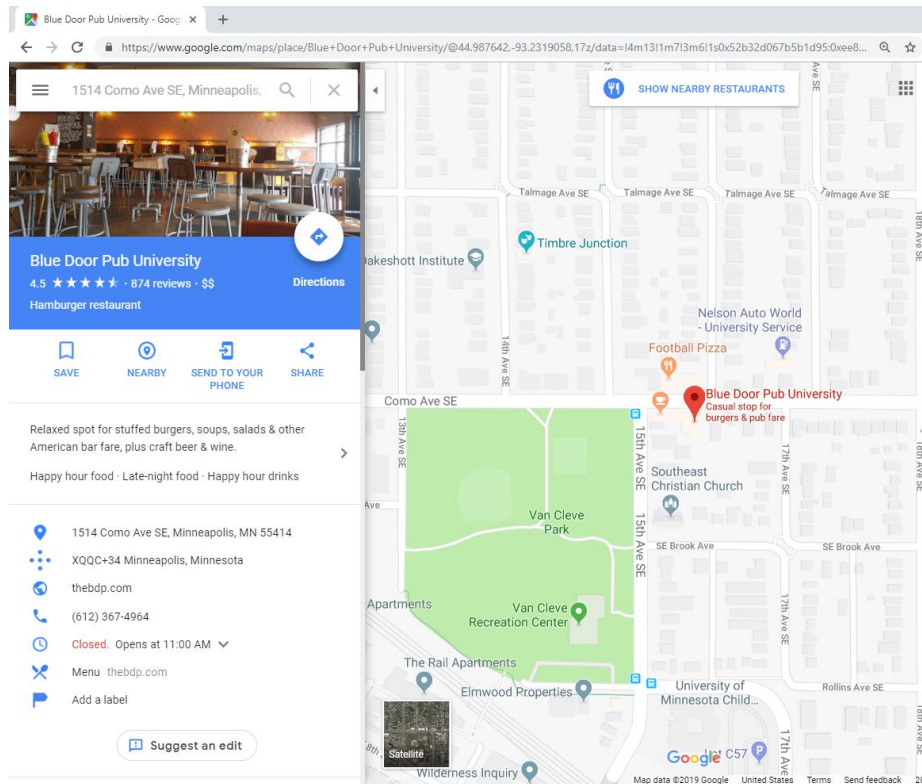
The second Web page you should create is the "My Widgets" page, where you should embed a YouTube Playlist and a Twitter Tweet as items in an ordered list. The two pages should be linked via a links embedded in a table or paragraph elements which are contained in a div or nav HTML element at the top of the page. Below are examples of what we are looking for on your contacts and widgets pages (at a minimum - you are free to add additional information and more palatable styling).

The following pages contain detailed examples and instructions on the required functionality for this assignment
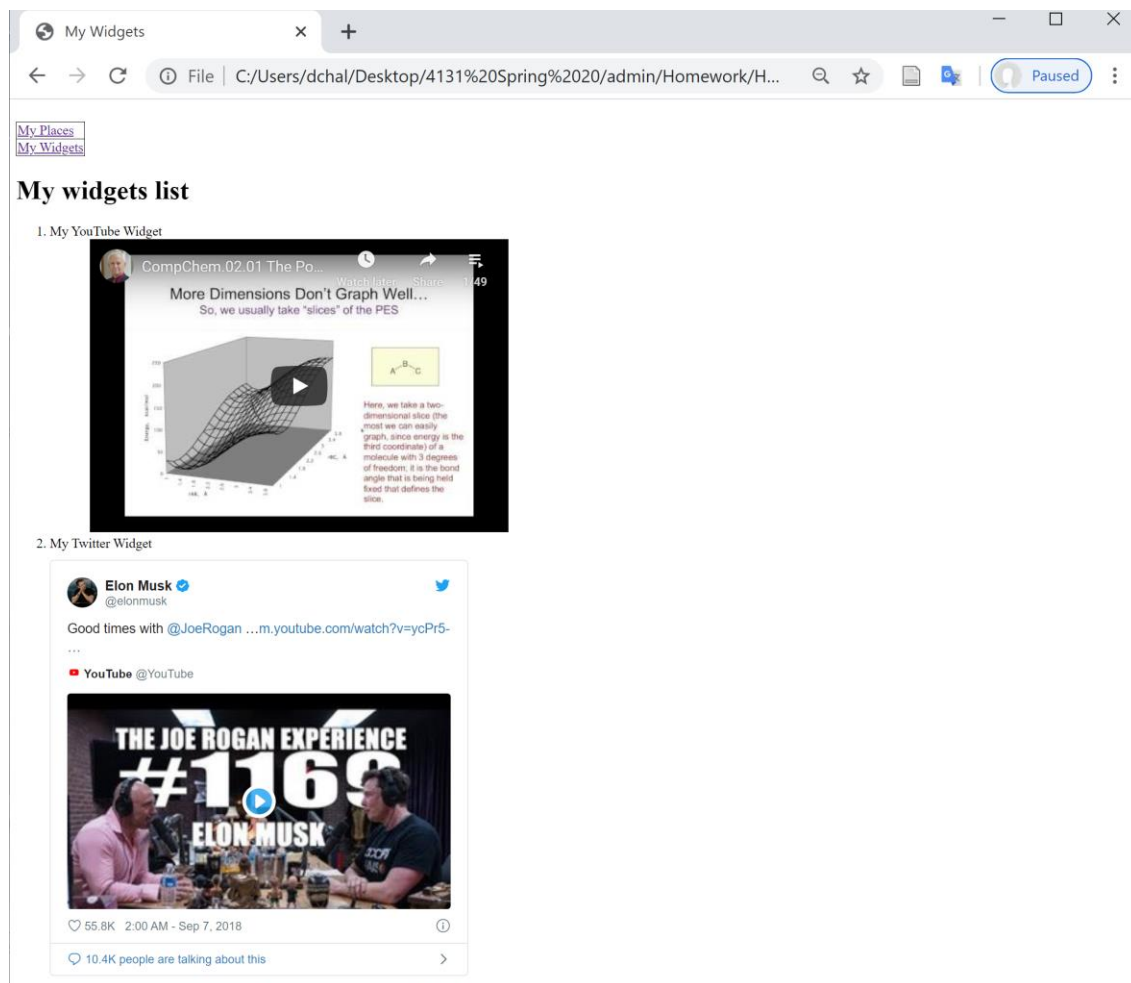
Figure 1: An example My Contacts page (You are free to add more styling). Note, when the My Widgets link is selected, the browser should display the My Widgets page pictured in Figure 3 below.

Figure 2: Page displayed when the hyper-link to the Blue Door Pub is selected from the list of My Contacts pictured above in Figure 1 above.

Figure 3 : An example My Widgets page containing a YouTube Playlist and a Twitter Tweet. (Your are free to embed a different playlist and tweet). Note, when the My Contacts link is selected, the browser should display to the My Contacts page pictured in Figure 1 above.

To incorporate your Youtube Playlist, use the following <HTML> code:

<iframe width="500" height="350" src="https://www.youtube.com/embed/videoseries?list=PLkNVwyLvX_TFBLHCvApmvafqqQUHb6JwF" frameborder="0" allow="utoplay; encrypted-media" allowfullscreen></iframe>

The highlighted text (in Yellow) above is the PlayList ID, which you can replace with the PlayList ID of your choice.

For instance, in the YouTube URL below, the portion highlighted in blue is the PlayList ID.
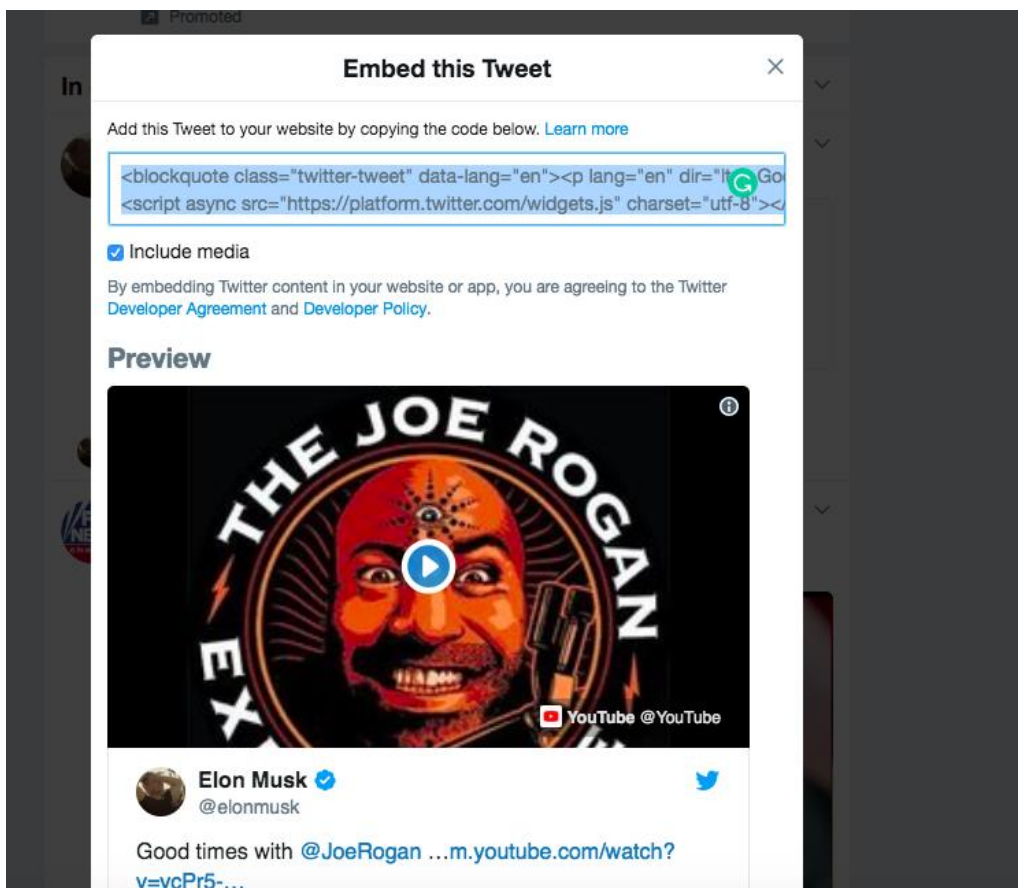
https://www.youtube.com/playlist?list=PL6oekGrZ3DAhm2S8vR9XxG2924zRMwqWv

To incorporate a Twitter Tweet on your Widgets page , you need to first have a Twitter Account. Go to www.twitter.com to sign up for twitter (it's free).

Select a Tweet of your choice, and then select Embed Tweet after clicking on the downward-arrow

After this, copy the script provided and paste it into your <HTML> code (illustrated below)

3   Evaluation

Your submission will be graded on the following items (out of 100 possible points):

- Contacts table with at least 3 contacts is present and formed using a table element <table> **15 points**

- Navigation links are present at the top of each page, function correctly, and are contained in a <nav> or <div> element tag. **10 points**

- For each contact in the table, the contact's cells contain name, email, address, phone number and a working link to the contacts favorite place. **15 points**

- HTML code is readable and indented. **10 points**

- Meta information is supplied specifying UTF-8. **10 points**

- HTML for each page passes w3c validator (https://validator.w3.org/) **with only frameborder errors on the iframe tag used for embedding the youtube video**. Warnings are accepted. **10 points**

- CSS for each page passes w3C validator (https://jigsaw.w3.org/css-validator/) **without errors**. Warnings are accepted. **10 points**

- **Bonus points** – *Eliminate the errors caused by the frameborder attribute in the iframe tag (but your myWidgets page must still embed the youtube video and tweet.*) **10 points**

- myWidgets page should have a YouTube PlayList as the first item in an ordered list. **10 points**

- myWidgets section should have a Twitter Tweet as the second item in an ordered list. **10 points**

- Your submission should be packaged in a zip file. When opened, it must create a directory titled '<UMN x.500 ID>' containing all your files – including your external CSS style file(s) if you use them.

  Thus the name of the folder or directory containing your files should be your x.500 id.

  For example, Professor Challou would submit his assignment by tarring or zipping up a directory named **chal0006**. You should name your HTML files **myContacts.html and myWidgets.html**.

  Submit your zip file to the course Canvas site via the Homework 1 Submission Link.

4. Good Resources to review and reference for this assignment:

HTML/Forms – Chapters 1 and 2 in the textbook
CSS – Chapter 3 in the textbook
CSS – embedding CSS styling in your Web Page (Internal Style Sheet)
    https://www.w3schools.com/css/css_howto.asp
Adding a border to a table using CSS:
    https://www.w3schools.com/css/css_table.asp
Information on various HTML elements (div, nav, lists, table, header elements (i.e., h1, h2, …, h5)):
    Search www.w3schools.com/html