

CSCI 4131 – Internet Programming

Assignment 2 – Spring 2018

Posted: Jan 27th

Due: Friday February 2nd at 11:55pm

1 Description

The objective of this assignment is to give you more practice with HTML and CSS - and to expose you to client-side JavaScript and the Document Object Model. In this assignment you will update the Webpage with the table of your favorite places from Assignment 1 by adding styling and behavior, develop a second web page, and link the two pages together. The second page should have a form used for submitting new entries to your table of favorite places. Also, you will use HTML DOM Events and JavaScript to change an image and insert a third-party widget. This HW specification is 5 pages long.

2 Requirements

Develop a second webpage with an HTML form and several inputs for submitting new table events. The form will be functional and interact with a PHP program that we have set up on a Web-server (**you don't have to write PHP - just HTML5, CSS, and JavaScript**). The two pages should be linked via a navigational bar. Use a single CSS file, style.css, to provide a consistent styling across both webpages. NO CSS styling should be present in your HTML file.

- The image below shows the updates required for this assignment – a CSS-styled Nav bar, a Twitter Widget, and, each time your page is loaded, the Gopher image provided should be displayed as shown below.

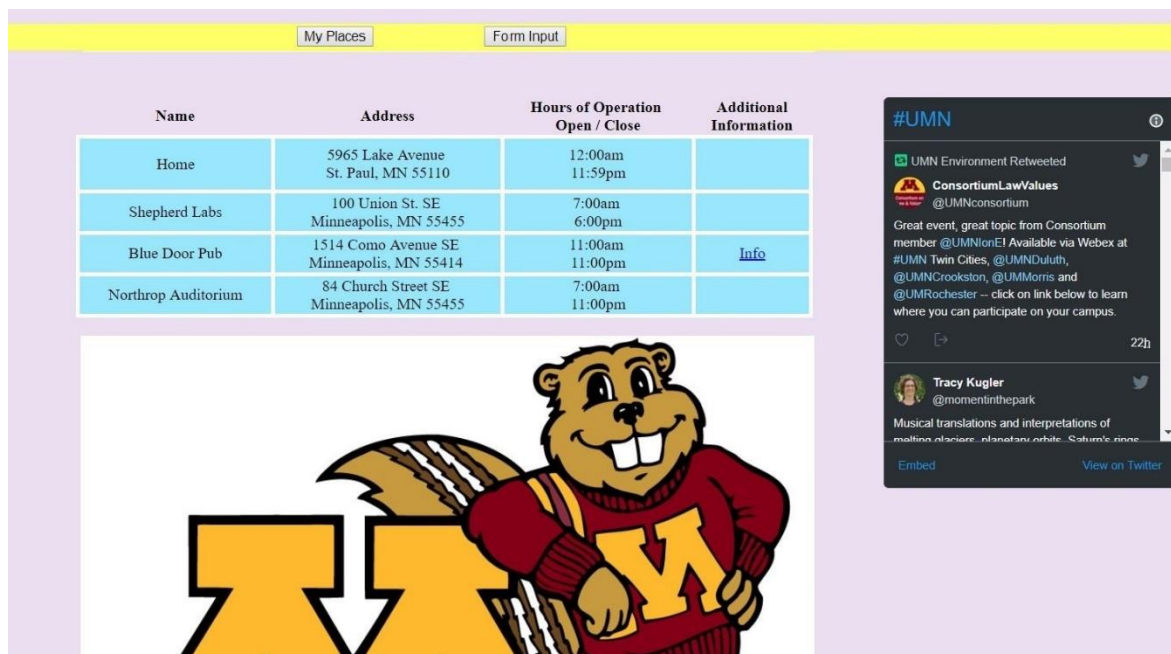



Figure1: Screenshot of places homepage; the Gopher image is displayed below the table

- The image displayed at the bottom of the places homepage should change when a user clicks on the name of a place displayed in the **Name** column:
 - An image corresponding to the Name of the place selected/clicked-on should be displayed in the same location as the Gopher image.

Name	Address	Hours of Operation Open / Close	Additional Information
Home	5965 Lake Avenue St. Paul, MN 55110	12:00am 11:59pm	
Shepherd Labs	100 Union St. SE Minneapolis, MN 55455	7:00am 6:00pm	
Blue Door Pub	1514 Como Avenue SE Minneapolis, MN 55414	11:00am 11:00pm	Info
Northrop Auditorium	84 Church Street SE Minneapolis, MN 55455	7:00am 11:00pm	



#UMN

Megan Kocher Retweeted

Sara @saralovesyou

Replying to @saralovesyou

We generated more creative solutions to addressing the challenges of early childhood education at #UMN in 3 days than I saw presented from the administration who had years. Time to step up and support women and families. That is the cost of doing business. #saveUMCDC @prezkaler

Embed View on Twitter

Figure 2: An example of displaying a relevant image - in this case, user has clicked “Blue Door Pub” in Name column

- A Twitter Feed should be inserted on the places page as shown in Figure 2 above.

Place a Twitter feed widget to the right of the places table on the home page as shown in the pictures. You should use twitter tags related to UMN like #UMN , #UMNdriven etc to subscribe to the feeds.

- You need to develop a second web page that contains an input form to enter places of interest along with details as specified below.
Use HTML5 input types on the form wherever possible. For example, in Figure 3 below, the Opening Time and Closing Time input fields are of type “time”, which is an HTML5 input type.

Use the “GET” request method for the form. The action attribute on the form should submit to the PHP page located at the following URL:

http://www-users.cselabs.umn.edu/~tulaj001/form_handler.php

The name fields in the example form are as follows:

placename: "Name of the place"
addressline1: "Apt#, Street Address"
addressline2: "City, zip code"
opentime: "Place opening time"
closetime: "Place closing time"
additionalinfo: "Link to additional information"

The PHP script accesses the values submitted via the form based on the names in **bold font** above, **so you must have the same names for your form elements, or your form will not function correctly, and you will not get credit.**

- The following values on your form must be validated by either HTML input fields or by using JavaScript and regular expressions.
 - Place Name, Address, and Hours of Operation are mandatory.
 - Place Name and Address should accept *only alphanumeric characters and spaces*. Alphanumeric characters are: 0-9 a-z A-Z.
 - Error messages with should be displayed when from validation fails (see Figures3 and 4 below).
 - Alert boxes can be used to display these messages.

Places Form

My Places Form Input

Place Name
Address Line1
Address Line2
Opening Time
Closing Time
Additional Info

Please fill out this field.

-- : -- --
-- : -- --

Submit

Figure 3: Snapshot of Form indicating an error because the mandatory Place Name input field on the form is empty.

The image shows a web browser window with a yellow header and footer. A white error dialog box is centered, displaying the text "This page says:" and "Place Name and address must be alphanumeric" with an "OK" button. Below the dialog is a light blue form area. The form contains the following fields and values:

Field Label	Value
Place Name	US Bank Stadium
Address Line1	401 # Chicago Ave
Address Line2	@Minneapolis MN 55415
Opening Time	06 : 00 AM
Closing Time	09 : 00 PM
Additional Info	

A "Submit" button is located at the bottom right of the form area.

Figure 4: Snapshot of a form indicating an error for incorrect values in mandatory fields that accept only alphanumeric values.

Once you submit the form, you should see a confirmation page with the details you filled in on the form – as shown below in Figure 5.

Following Form Data Submitted Successfully

Place Name: US Bank Stadium

Address Line1: 401 Chicago Ave

Address Line2: Minneapolis MN 55415

Open Time: 06:00

Close Time: 21:00

Additional Info:

*The views and opinions expressed in this page are strictly those of the page author.
The contents of this page have not been reviewed or approved by the University of Minnesota.*

Figure 5: An example confirmation page returned after the form on your Form page is submitted successfully.

3 Evaluation

Your submission will be graded on the following items:

- HTML passes w3c HTML and CSS validator **without errors**. Test your HTML and CSS using the html and css validator. Warnings are accepted. **10 points**
- The form correctly validates user input and displays correct and relevant error messages. **20 points**
- Form submits correctly and the confirmation page with the correct data is displayed. **15 Pts**
- Displaying the Gopher image (provided) at the bottom of the Places page on page load. **10 points**
- Dynamically display the correct image of a place when the Name of the place is clicked on. The picture of the place should be displayed in the same location as the Gopher image (instead of the Gopher image) on the Places page. You must include the pictures you use in your implementation when you submit your assignment. **15 points**
- Aligning images with the calendar table dimensions. **5 points**
- Place page includes Twitter widget that functions correctly using one of the hashtags mentioned in the specification. The Twitter widget should be properly aligned as shown in Figure 2. alignment as shown in the picture. **10 points**
- Displaying the 'Form Input' and 'My Places' Navigation links in the form of navigation bar. (on both of the web pages, and they should work...). **5 points**
- External file style.css is present and styles both HTML files in a consistent manner. **5 points**
- Name your file: '<Your UMN x.500 ID>HW2.zip' Your zip file should contain your HTML, CSS, and picture files. **5 points**
- You should test your webpage with either Firefox or Chrome (or both) . Indicate which browser(s) you used to test your webpage at the bottom of your webpage. Failure to do so will result in a 5-point deduction.