

# CSCI 4131 – Internet Programming

## Assignment 1, Version 1

Posted 9/10/2017

**Due 9/22/2017 at 11:55am**

*Note, this assignment is 4 pages long*

### 1 Description

The objective of this assignment is to expose you to the HTML document structure and incorporate CSS stylesheets into them. In addition, you will get a taste of form handling and http communication with a server side application written in PHP. In this assignment, you will create your first HTML page, a calendar. The calendar should be of your class schedule - though content is not the primary focus here – we're mostly interested in getting your web development environment up and running. After you are done with that, we expect you to style the page with CSS and link it to a second page – you can use any color scheme you want, but, for readability, at a minimum, you should alternate the background color of the rows of the calendar. The second page should have a form to submit new entries to your calendar.

### 2 Requirements

The calendar will be stored in an HTML <table> element on the first page. The calendar should have at least five rows, one for each day of the week. Each cell in the table is an entry in the calendar. The entries should have the time, name, and location of the event included as information. We recommend organizing that information either as nested tables or as individual paragraphs using <p> elements. For the second page, create an HTML form and several inputs to submit a new calendar event. This form will be functional and interact with a PHP program we have setup on a Web-server (you don't need to write any PHP). The two pages should be linked via a navigational bar. Use a style.css for your CSS. No styling should be present in HTML files. Below are sample results for your work.

**My Calendar**

<b>Mon</b>	10:00 - 10:45 AM CSCI 3123 - KH 320	1:00 - 2:00 PM Meeting - Shepherd Labs 587	3:00 - 4:00 PM Bowling : <a href="#">Coffman</a>
<b>Tue</b>	8:00 - 8:45 AM CSCI 2034 - KH 322	11:00 - 11:45 AM CSCI 4131 - KH 321	-
<b>Wed</b>	10:00 - 10:45 AM CSCI 3123 - KH 320	2:00 - 3:00 PM Group Meeting - Walter	4:00 - 5:00 PM Office hours - KH 410
<b>Thu</b>	8:00 - 8:45 AM CSCI 2034 - KH 322	11:00 - 11:45 AM CSCI 4131 - KH 321	-
<b>Fri</b>	10:00 - 10:45 AM CSCI 3123 - KH 320	3:00 - 4:00 AM Swimming - <a href="#">Rec Center</a>	5:00 - 6:00 PM Office hours - KH 410

*This page has been tested in Chrome, Firefox and Internet Explorer*

Figure 1: An example calendar.

## My Calendar

<a href="#">My Calendar</a> <a href="#">Form Input</a>			
<b>Mon</b>	10:00 - 10:45 AM CSCI 3123 - KH 320	1:00 - 2:00 PM Meeting - Shepherd Labs 587	3:00 - 4:00 PM Bowling : <a href="#">Coffman</a>
<b>Tue</b>	8:00 - 8:45 AM CSCI 2034 - KH 322	11:00 - 11:45 AM CSCI 4131 - KH 321	-
<b>Wed</b>	10:00 - 10:45 AM CSCI 3123 - KH 320	2:00 - 3:00 PM Group Meeting - Walter	4:00 - 5:00 PM Office hours - KH 410
<b>Thu</b>	8:00 - 8:45 AM CSCI 2034 - KH 322	11:00 - 11:45 AM CSCI 4131 - KH 321	-
<b>Fri</b>	10:00 - 10:45 AM CSCI 3123 - KH 320	3:00 - 4:00 AM Swimming - <a href="#">Rec Center</a>	5:00 - 6:00 PM Office hours - KH 410

*This page has been tested in Chrome, Firefox and Internet Explorer*

Figure 2: An example calendar after styling with CSS and adding a navigation bar.

## Calendar Input

<a href="#">My Calendar</a> <a href="#">Form Input</a>	
Event Name	<input type="text" value="Group Presentation Practice"/>
Start Time	<input type="text" value="03:00 PM"/>
End Time	<input type="text" value="04:00 PM"/>
Location	<input type="text" value="KH 4-120"/>
Day of the week	<input type="text" value="Tue"/> ▼
	<input type="button" value="Submit"/>

Figure 3: An example input page (Your styling should be different).

For the form use new HTML5 input types wherever possible. For instance, In the above example, the Start Time and End Time are of type "time", which is a new HTML5 input type. HTML5 input types are covered in Chapter 3 of the textbook.

For the "Day of the week" field, make a dropdown list. The dropdown list can have any number of days. For instance, it can have 5 days (Mon-Fri, in case of an academic calendar) or 7 days (Mon-Sun, if it is a personal calendar).

For the form use "GET" request method. The form should submit to the PHP page located at this URL:

[http://www-users.cselabs.umn.edu/~tulaj001/form\\_handler.php](http://www-users.cselabs.umn.edu/~tulaj001/form_handler.php)

The name fields in the example form are as following:

**Event Name:** "eventname"  
**Start Time:** "starttime"  
**End Time:** "endtime"  
**Location:** "location"  
**Day of the week:** "day"

The PHP script locates and accesses these parameters and their values based on the above names, so please make sure to have the same names for your form elements, otherwise the PHP script won't work. Also, make sure that your form does not have the same elements by design (that is, it includes the same elements (names and fields) specified above).

Once you submit the page, you should see a confirmation page with the details you filled in the form that is similar to the response below:

## **Your form has been successfully submitted**

### **The details provided are :**

Event name : Group Presentation Practice  
Start Time : 15:00  
End Time : 16:00  
Location : KH 4-120  
Day of the week : Tuesday

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The contents of this page have not been reviewed or approved by the University of Minnesota.*

Fig. 4: Example successful form submit response

### 3 Evaluation

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

- Calendar is present and formed from a <table> and Navigation bar is present and uses <nav> tag. **10 points**
- Cells contain times, names, and locations of events and at least one cell contains a hyperlink. Consider linking to a class homepage or equivalent. **10 points**
- HTML code is readable and indented and Meta information is supplied specifying UTF-8. **10 points**
- The calendar rows should have alternating colors. You can pick any two colors and get creative, but make sure that the calendar is readable. Use CSS for this. **10 points**
- No styling is present outside CSS file style.css and styles both HTML files in a consistent manner. **10 points**
- Form has at least one new HTML5 form input type and one new drop-down list. **10 points**
- Calendar title is displayed with using proper heading element. Also, place day headers in a span to provide special styling, such as boldface or increased font. **10 points**
- You should use at least two div elements on your calendar page. Think about the most logical places to use them. **5 points**
- Use CSS to make times appear in italics. **5 points**
- Form submits successfully and the confirmation page shows up. **5 points**
- HTML and CSS files pass w3schools validator (<http://validator.w3.org> for HTML, and <https://jigsaw.w3.org/css-validator/> for css ) **without errors**. Warnings are accepted. Also, at the bottom of the webpage, tell us which browsers you used to test your HTML. You should test your page using **at least** Firefox and Chrome. **10 points**
- Your submission should be packaged in a tarball or zip file. When opened, it must create a directory titled '<UMN x.500 ID>' containing all your files. (Thus the name of the folder or directory naming 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 **calendar.html** and **form.html**. **5 points**