CSCI 4131 – Internet Programming
Homework Assignment 2
Version 1, Sept 22

Assignment Posted: Friday, September 22, 2017
Assignment Due: 11:55 am, Friday, October 6, 2017
Note, this assignment is 7 pages long

1. Description

The objective of this assignment is to bolster and expand your client-side development skills in HTML and CSS, *and,* to get you familiar with JavaScript for implementing dynamic behavior on Web Pages. In this assignment, you will build upon the calendar developed in earlier assignment.

Following tasks are associated with this assignment:
- Identify and display the events/tasks for the day. The data should be displayed on the screen as an animation which keeps scrolling from right to left of the screen.
- Categorize the events in the calendar by location. Display a picture of the location upon clicking the event in the calendar. *Use your best judgement in selecting the pictures and do not use copyrighted material.*
- Do basic validation for the calendar input form developed in the earlier assignment.

2. Functionality

Once the page is loaded into the browser, it should display the calendar of the week as shown in the screenshots below. Depending on **what day the page** is opened, it should **dynamically** create a section on top of the table which contains the data pertaining to the **events for that particular day**. This text should be animated to be rolling from right of the screen to the left of the screen above the calendar.

Also on page load, display a static image as depicted in the screenshots below. When user clicks on an event in the calendar, the static image should be replaced by the image of the event location.

3. Requirements

- Style Requirements
    - Provide a background color to both the pages.
    - Provide a navigation bar to navigate between pages.
    - Chose a background color for the table which is different from the background color of the page.
    - The table column containing the days of the week should be **bold**.
    - Time duration values in each of the boxes should be italic.
    - Each row and column should have a visible border.
    - The images displayed at the bottom of the page should align with table border as shown in the screenshots.

- Dynamic Events for the day section:
  - This text should contain all the events or tasks for that day as present in your calendar.
  - The event data should contain event time, task/event name and event location.
  - Each event data should be clearly distinguishable from the next one. (Use suitable separator between event data).
  - Depending on the day the page is loaded this content should change.
  - It should start scrolling from the right corner of the table and end at the left corner of the table.

- Image change on clicking a calendar event:
  - The image corresponding to the event location should be displayed in the same place as the static image.

- Form validation
  - You should check the following validations before submitting the form:
    - ✓ Event Name, Start Time, End Time, Location, and Day of the week fields are mandatory.
    - ✓ Event Name and Location should accept only alphanumeric characters. Alphanumeric characters are: *0-9 a-z A-Z*
  - Error messages with should be displayed when from validation fails.
  - Alert boxes can be used to display these messages.
  - Check the screenshots for additional information.

4. Evaluation

Your submission will be graded on the following items:

1. HTML and CSS files pass w3schools validators (http://validator.w3.org and https://jigsaw.w3.org/css-validator) without errors. Warnings are accepted. *10 points*
2. Dynamically DISPLAY the accurate events of the day. *10 points*
3. Displaying the extracted content in an animation (rolling bar). *10 points*
4. Aligning the rolling animation along the table borders. *10 points*
5. Displaying a static image at the bottom of the page on page load. 1*0 points*
6. Dynamically displaying the images of event locations upon clicking the calendar event. *20 points*
7. Aligning images with the calendar table dimensions. *5 points*
8. Validating the form for any errors in user input and displaying relevant error messages. *15 points*
9. Displaying the 'Form Input' and 'MyCalendar' Navigation links in the form of navigation bar. (on both of the web pages, and they should work…). *5 points*

5. Screenshots and Figures

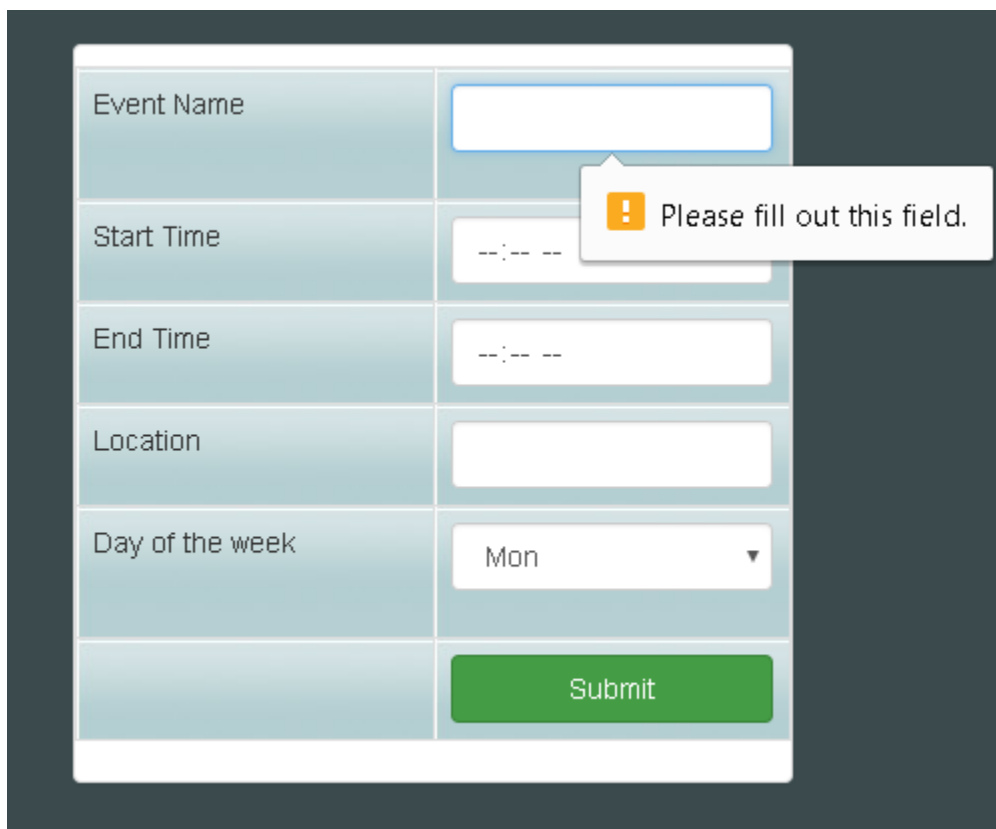|			
Events for the Day --- , 8:00 - 8:45 AM ,			
Mon	*10:00 - 10:45 AM* CSCI 3123 - KH 320	*1:00 - 2:00 PM* Meeting - Shepherd Labs 587	*3:00 - 4:00 PM* Bowling : Coffman
Tue	*8:00 - 8:45 AM* CSCI 2034 - KH 322	*11:00 - 11:45 AM* CSCI 4131 - KH 321	-
Wed	*10:00 - 10:45 AM* CSCI 3123 - KH 320	*2:00 - 3:00 PM* Group Meeting - Walter	*4:00 - 5:00 PM* Office hours - KH 410
Thu	*8:00 - 8:45 AM* CSCI 2034 - KH 322	*11:00 - 11:45 AM* CSCI 4131 - KH 321	-
Fri	*10:00 - 10:45 AM* CSCI 3123 - KH 320	*3:00 - 4:00 AM* Swimming - Rec Center	*5:00 - 6:00 PM* Office hours - KH 410

Fig 1. This picture depicts the Events for the day section as events in the calendar.
As can be seen above, the rolling text starts from the extreme right corner of the table. The static image is displayed at the bottom of the page on page load. Navigation bar is present at the top of the page. Other CSS requirements mentioned can also be observed in the above image.

My Calendar   Form Input

nts for the Day --- , 8:00 - 8:45 AM , CSCI 2034 - KH 322

Mon	10:00 - 10:45 AM CSCI 3123 - KH 320	1:00 - 2:00 PM Meeting - Shepherd Labs 587	3:00 - 4:00 PM Bowling : Coffman
Tue	8:00 - 8:45 AM CSCI 2034 - KH 322	11:00 - 11:45 AM CSCI 4131 - KH 321	-
Wed	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
Thu	8:00 - 8:45 AM CSCI 2034 - KH 322	11:00 - 11:45 AM CSCI 4131 - KH 321	-
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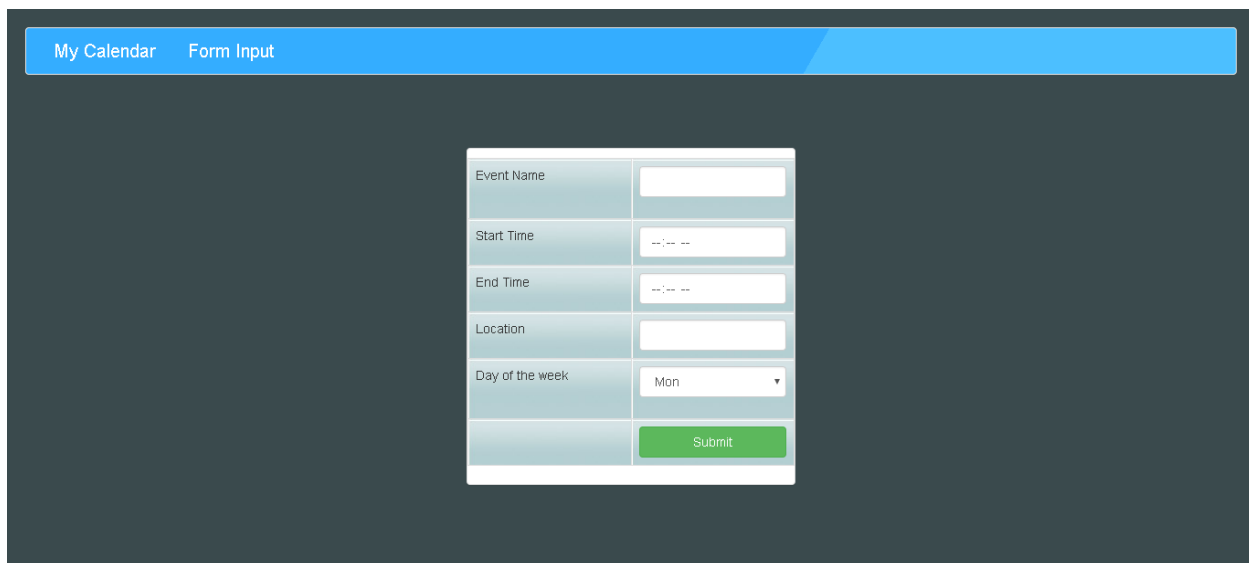
Fig 2: Picture depicting the end of the rolling text at the extreme left corner of the calendar table.

Fig 3. The static image at the bottom of the page is replaced by the image of the event location when the event is clicked. Here I have clicked the 'Group Meeting 'event at Walter and hence the picture of Walter library is displayed.

Fig 4. Form input page with navigation bar.

Fig 5. User is prompted to fill in the values for mandatory fields.
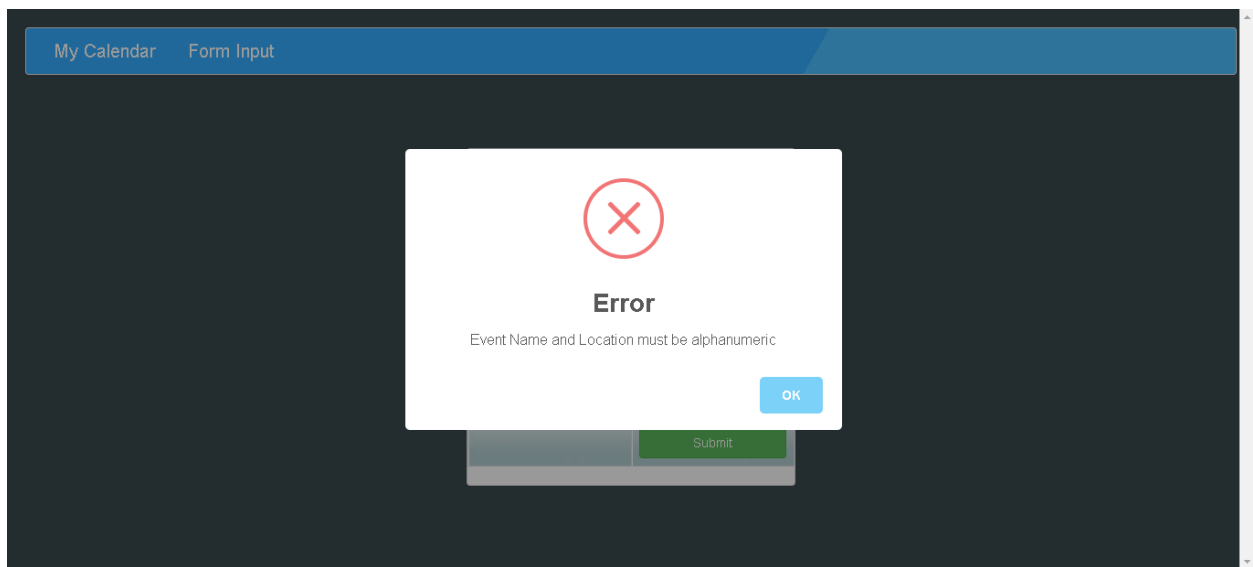
Fig 6 & 7. Error message is displayed when non-alphanumeric characters are entered for either of the following fields: Event Name and Location.

SUBMISSION INSTRUCTIONS:

Your submission should be packaged in a tarball or zip file. When opened, it must create a directory titled '<UMN internet ID>' containing all of your files. You will lose 10 points if you do not do this correctly.