

### CSIS 1280 – MULTIMEDIA WEB DEVELOPMENT

### Assignment 2: Integrating Content and Behaviour on a Webpage Using JavaScript

Due Date: Saturday, August 6 (by end of day)

### **Learning Objectives**

After completing this assignment, students should be able to:

- Implement basic concepts in JavaScript
- Use conditional statements in JavaScript to access DOM elements and validate form data.
- Use timing of events to manage behaviour on a webpage.

# **Assignment Overview**

Kelowna Wine Trails and Tours offers group tours of the Kelowna area wineries. Groups can sign up at the company's website. For the tours, the company charges \$50 per person. However, the company offers discounts for larger group sizes. The discount rate larger groups are as follows:

- 5-10 people: 10% discount per group member.
- 11-24 people: 20% discount per group member.
- 25+ people: 25% discount per group member.

#### **Instructions**

## No: This assignment is to be completed individually.

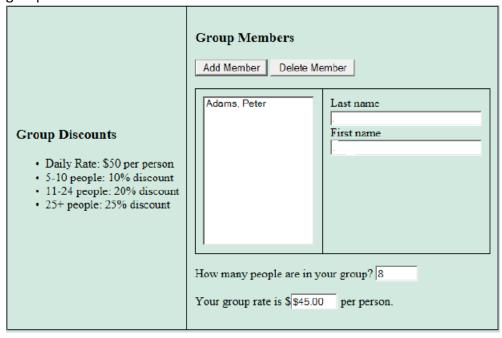
Download assignment 2 folder from Blackboard. Thereafter, unzip it and rename it to include your name, like *YourName-CSIS1280AS2* (e.g., *PAdams-CSIS1280AS2*)

Inside the assignment folder, you are provided with the Web page template called "CSIS1280AS2.html", which you should use to complete the assignment.

- 1. Create an external JavaScript file and save it in the scripts folder *YourName-CSIS1280AS2.js*" (e.g., PAdams-CSIS1280AS2.js).
- 2. a). Create a function called *CheckForGroupMemberInput()* that will check that a user has entered a group member's first and last name before pressing the "Add Member" button. If no inputs have been entered, throw an Exception (e.g., "Please first enter a group member's name").

- b) Create a function called *CheckForGroupSizeInput()* that will check that a user has entered a value for how many people are in the group and that the entry is numeric. If no input has been entered or if the input is not numeric throw Exceptions and provide custom messages as in 2 a) above.
- 3. Create a function called *CalcGroupDiscount()* that will calculate the applicable discount per group member based on group size. After a user enters the group size in the group size textbox, the applicable rate per group member should be displayed in the rate per person textbox. Use *Try{}-Catch{}* blocks to handle Exceptions thrown by the *CheckForGroupSizeInput()* function. Report the errors in alert() dialog.
- 4. Create a function called AddGroupMember()that will add a group member to the selection list when the "Add Member" button is clicked. The name of the group member should be added to the selection list in the format "last name, firstname" (e.g., Adams, Peter). Again, use Try{}-Catch{} blocks in order to handle Exceptions thrown by the CheckForGroupMemberInput() function. Report the errors in alert() dialog.

Please feel free to define variables you'll need for the *AddGroupMember()* function. <u>Hint</u>: You will need to use **DOM methods** to complete this part. Furthermore, the *AddGroupMember()* function should also include code to clear input boxes and put focus on last name text box after a user clicks "Add Member" button. The exhibit below shows one group member added:



5. Create a function called *RemoveGroupMember()* that will remove (delete) a selected group member from the selection list when the "Delete Member" button is clicked. Again, you will need to use **DOM methods** to complete this part.

If a user clicks the "Delete Member" button when there are no group members to delete, provide the feedback "There are no group members to delete!" using an alert dialog.

- 6. Create a function called *SortGroupMembers()* that will sort the list of group members in ascending order by last name when the "Sort Member List" button is clicked.
- 7. Create a function called *FlyingBee()* that will make the bee fly (image called *bee2.gif* in the images folder) and make it stop at the sunflower. Once the bee stops at the sunflower, the text of the span with id="advice" should be displayed.

#### Note:

- You will need to use timing of events methods discussed in class.
- Your implementation should be flexible so that it is independent of the screen size of the user.

Save your work and close ALL files.

### **SUBMISSION**

ZIP/COMPRESS the folder and UPLOAD it to Blackboard.

Note: 5 marks will be deducted from work submitted without student name.