

Practical Class 4 (Week 2)

Notes:

- Exercises 2 and 3 will be accessed as part of the Practical Set 1 Submission
- Include HTML comments for your student ID, Name, and Practical Class Time at the top of each source file created
- All files must be uploaded to your TWA website before submission of Practical Set 1

Objectives of Practical:

- Implement HTML forms to capture user data
- Complete exercise 2 and 3 upload the solution to your TWA website in the folder indicated below.
- Test and **validate** the pages.

Suggested Resources:

- CSS tutorial <https://www.w3schools.com/css/default.asp>
- CSS reference <https://www.w3schools.com/cssref/default.asp>
- CSS validator <https://jigsaw.w3.org/css-validator/>
- HTML tutorial <https://www.w3schools.com/html/default.asp>
- HTML 5 tutorial https://www.w3schools.com/html/html5_intro.asp
- HTML tag list <https://www.w3schools.com/tags/default.asp>
- HTML validator <https://validator.w3.org>
- JavaScript HTML DOM https://www.w3schools.com/js/js_htmldom.asp
- JavaScript tutorials <https://www.w3schools.com/js/default.asp>

There is no exercise 1, as exercise 1 is from Prac Class 3 Week 2.

Exercise 2:

1. **Create** a CSS file called **formStyles.css** in the **practicals/css** folder on your TWA website. This file will be used to style your HTML file created below
2. **Create** a HTML file named **exercise2.html** in the **practicals/week2** folder on your TWA website.
3. You are to create a HTML form within **exercise2.html** that will allow people to order name badges for local community clubs. Figure 1 is a current form used by a trophy store for club members to order badges. The form is paper based, and out of date. **Your role is to digitise figure 1 into a HTML form** so the trophy store can have club members fill out the form digitally. If done correctly the trophy store will be able to have an accurate way to receive orders instead of relying on handwriting forms.
4. The digitised form needs to be designed so it will work for both desktop and tablet screens (for the purpose of this exercise 768 pixels is regarded as the maximum width of a tablet device)
5. You are to choose the **most appropriate** input devices for each data item, also implement **appropriate labels** for each input to aid accessibility. Make sure to **provide instructions** for the user to complete the form, along with an appropriate layout so it can be responsive for different screen sizes.
6. The action of the form needs to be:
 - a. <https://twasum.cdms.westernsydney.edu.au/twainfo/echo.php> and the method for the form **post**
7. When the form submits **all** form data needs to be present on the resulting action page. Failure to capture data from the form to the action page will result in the form being deemed incomplete.
8. Use your **formStyles.css** file created earlier (point 1) to style the form. The style needs to be professional and accessible. This means consideration for typefaces, white space, colours, layout and position etc.

Exercise 3:

1. **Create** a Javascript file named **badgeValidation.js** in the **practicals/javascript** folder on your TWA website.
2. **Link** the **badgeValidation.js** file to **exercise2.html** in the **practicals/week2** folder using the appropriate html tag in the head section of the HTML
3. Write Javascript in **badgeValidation.js** to perform the following functionality on your form:
 - a. Date of order is required and is a valid date – not in the future. Correct format is dd/mm/yyyy
 - b. Club name is required
 - c. Club number is required and in the format of **C###-###** with '#' representing an alphanumeric character. For instance, CB3-7C8
 - d. Contact Number is required and is 10 digits.
 - e. Address is required – you may need to decompose the address and validate each component as required
 - f. Post code is required and is 4 digits
 - g. Contact name, first and last name is required and only characters, hyphen [-] and space []
 - h. There must be 1 or more badges (up to 5) for the form to be valid
 - i. Each badge must have all details completed. There cannot be partially filled out badge information (First name, surname, Officer Rank, and badge option are required for each badge)
 - ii. First name of the badge can only be characters, hyphen [-] and space []
 - iii. Surname of the badge can only be characters, hyphen [-] and space []
 - i. A payment method is required.
 - i. If credit card is chosen, the user can enter in credit card information. If another option is chosen, the credit card information is disabled.
 - j. Credit card details required if chosen as payment option
 - i. Credit card number is 16 digits
 - ii. CVV numbers is 3 digits
 - iii. Card holders name is characters only
 - iv. Authorised amount is the total calculated
 - v. Expiry date is required, and only month and year. Cannot be in the future.
 - k. Based on the badge options chosen, calculations are needed to calculate the total cost of the order.
 - i. The amount for each badge option should be calculated and presented to the user - number of badges of option multiplied by the cost of the relevant badge option price
 - ii. The chosen postage option cost displayed and added to total
 - iii. Calculation of credit card fee (2.5%) **if credit card payment option is chosen**. If another payment option is chosen the 2.5% is not calculated and the cost is 0.
 - iv. Total of all badges chosen, postage option, and credit card fee if required calculated and displayed.
 - v.

If any of these requirements are not met, the form should **not** submit, and a **relevant DOM notification** must be presented to the user. If a requirement is met no notification should be present for that requirement.

If you are finished upload your HTML pages to the **practicals/week2** directory on your TWA website and make sure your stylesheet file is in the **practicals/css** directory and your javascript file is in the **practicals/javascript** directly on your TWA website.. **Test your work to ensure it works on your TWA site.**

Figure 1

Badge Order FORM

Date of Order* _____
 Club Name* _____ Club No* _____
 Postal Address* _____ Contact Name* _____
 _____ Post Code* _____ Contact Ph* _____

Please complete lines marked with this sign*

(Please PRINT clearly in BLOCK letters – we will not be responsible for spelling errors made because we could not read writing.)

	First Name	Surname	Officer Rank (Pre, M, Ex, Sgt, VP)	Badge Option (A, B or C)
1				
2				
3				
4				
5				

PAYMENT METHOD – Please Circle Cheque Money Order Direct Deposit Credit Card	Charge my: Visa / Mastercard (Please circle)
BADGE COSTS Option A Standard Badge \$7.50 B Plastic Alligator Clip (with Safety Pin) \$8.00 C Magnetic Badge Clip (no Pin) \$10.00	Credit Card Number _____ CVV No _____ (Last 3 digits on the back of card. Your payment cannot be processed without this CVV number)
Badges Option <div style="display: flex; justify-content: space-between;"> <div>A..... @</div> <div>\$7.50 _____</div> </div> <div style="display: flex; justify-content: space-between;"> <div>B..... @</div> <div>\$8.00 _____</div> </div> <div style="display: flex; justify-content: space-between;"> <div>C..... @</div> <div>\$10.00 _____</div> </div> <div style="display: flex; justify-content: space-between;"> <div>Postage & Pack up to 4 badges.</div> <div>\$4.00 _____</div> </div> <div style="display: flex; justify-content: space-between;"> <div>5 to 8 Badges.</div> <div>\$8.00 _____</div> </div> <div style="display: flex; justify-content: space-between;"> <div>Sub TOTAL.</div> <div>\$ _____</div> </div> <div style="display: flex; justify-content: space-between;"> <div>Credit Card fee 2.5% of Sub TOTAL.</div> <div>\$ _____</div> </div> <div style="display: flex; justify-content: space-between;"> <div>Total.</div> <div>\$ _____</div> </div>	Card Holders Name: _____ Authorised amount _____ Expiry Date ____/____