CA2: Client-Server Website Assignment

Version 4 (updated text in this colour)

This assignment is worth 55% of the total marks that are available for this module.

This is an individual assignment.

Requirements

You are required to create a hosted website with form-validation and Advanced CSS functionality. You are allowed to expand on the website that you submitted for the CA1 assignment or you can build a new website. Your website should have **at least 6 webpages**. (If your mark was not so good for the earlier website, it is probably a good idea to build a new website.)

 ↓ **Please ensure that all file and folder names have no spaces in them.**
 ↓ **Please ensure that all file and folder names use lower-case letters only.**

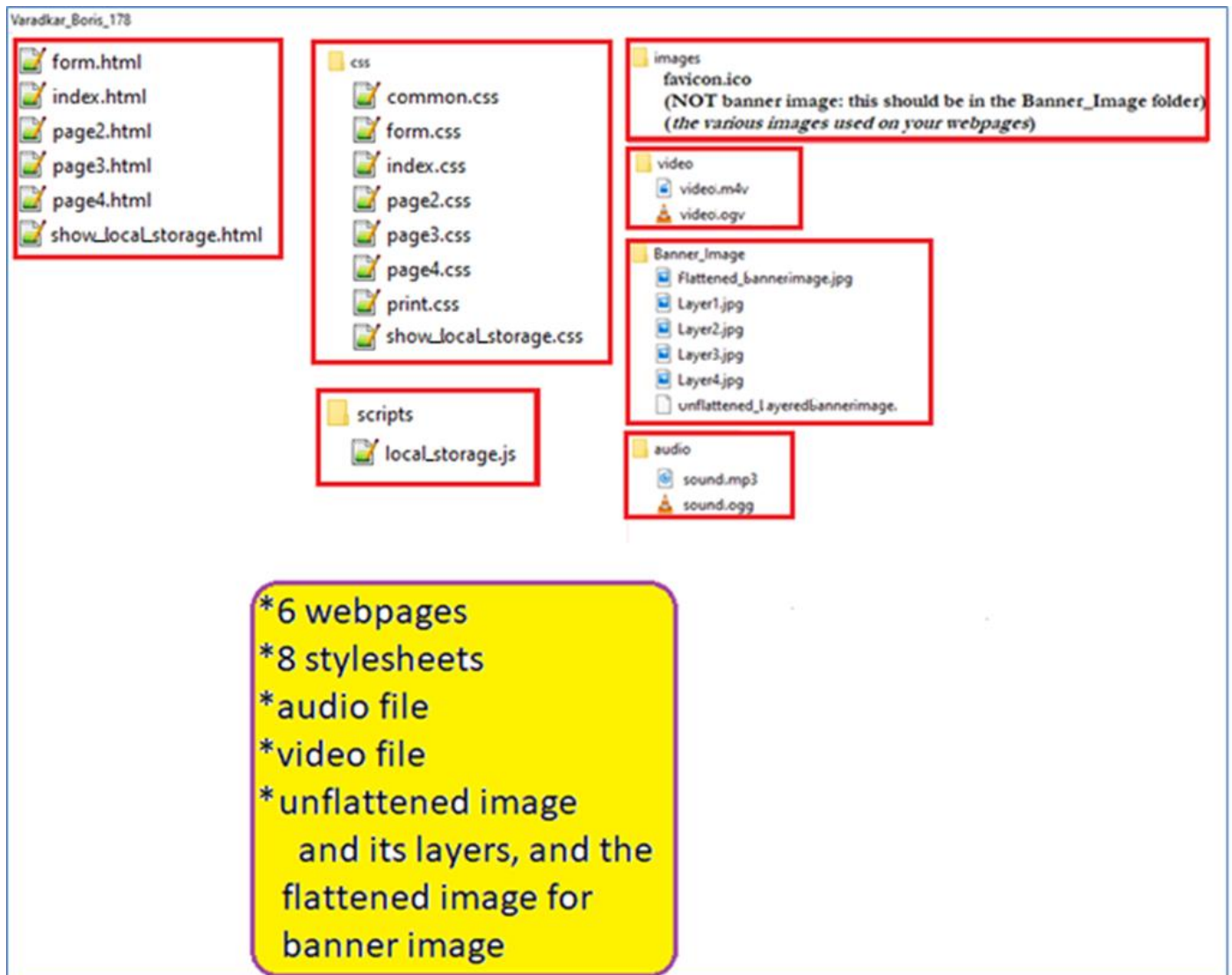Detailed marking scheme to follow later.

Marking Scheme

- **Client-side code** (HTML and CSS code **not already marked** in client-side assignment. (e.g. Advanced CSS: transforms, transitions, animations); user's own **video** and **sound** files [neither of which should be more than 5MB in size]; a **print.css** stylesheet) 25%

- **Comprehensive Form Code** both HTML and CSS: the major form elements (at least **8 different** types of <input> {including submit and reset}, <select>, <textarea>); appropriate properties of these tags; appropriate styles for these tags; required; autofocus; Regular Expressions; Local Storage. Appropriate form/fieldset/legend styles. 25%

- **Banner Image** (shows both your *technical ability* (competence using layers, multiple imported images, masks, cropping, transformations, filters, text, text effects; resolution, size, if Generative AI used then include Tools url and prompts used.) and your *creativity*) 25%. **This mark will only be applied when you upload a 5-minute (max.) screencast into YouTube, explaining how you created your banner image. This YouTube video should be embedded into one of your webpages.**

- **Website quality and WOW Factor** (e.g. is the website hosted, does it look professional, is it user-friendly, exceptional use of Advanced CSS, widgets, does it have a wow factor?) 25%

Recommended Folder Structure

- *Please note that the filenames (page2.html/css, page3.html/css, page4.html/css, form.html/css and showLocalStorage.html/css) are __indicative__ only in the diagram below. Come up with <mark>your own names</mark> that are relevant to the content on your webpages.*
- *The .html webpages must be at the __root__ folder level (i.e. not in a subfolder).*
- *Similarly, the audio, video, .js and banner image filenames are indicative only.*
- *You __MUST__ have index.html and index.css and common.css files.*

Here is a possible structure for your website project files:

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form.html
index.html
page2.html
page3.html
page4.html
show_local_storage.html

css
   common.css
   form.css
   index.css
   page2.css
   page3.css
   page4.css
   print.css
   show_local_storage.css

scripts
   local_storage.js

images
   favicon.ico
   (NOT banner image: this should be in the Banner_Image folder)
   (the various images used on your webpages)

video
   video.m4v
   video.ogv

Banner_Image
   Flattened_bannerimage.jpg
   Layer1.jpg
   Layer2.jpg
   Layer3.jpg
   Layer4.jpg
   unflattened_layeredbannerimage.

audio
   sound.mp3
   sound.ogg

*6 webpages
*8 stylesheets
*audio file
*video file
*unflattened image
  and its layers, and the
flattened image for
banner image

Plagiarism / Copying

We take academic integrity very seriously in DkIT. Plagiarism is the taking of someone else's work and passing it off as your own. When we suspect a student has plagiarised their work, a process is put in place which involves a disciplinary panel and, if found guilty, a mark of 0 and it is noted on your record. If you let a classmate copy your work, you are also breaking academic integrity rules and the same process applies. Never give another student your work.

There is a lot of useful information in the Student Support Hub, seen when you have logged into Moodle. Familiarise yourself with the contents of the "Academic Integrity" section.

Deadline

This assignment is due at 23:55 on **Sunday 10th December, 2023**. **Late submission will incur a marks penalty of 5% per day**. You MUST submit in good time to allow the lecturer to examine your code before your interview the following week.

Grading

There will be a 10-minute interview between you and the lecturer between Monday 11th December and Friday 15th December, 2022. You will be expected to **explain** and **justify** any code in your website. Marks will be awarded to your project based on your understanding of the code you have submitted.

Required Files

You are required to upload a .zip file onto Moodle, name it as yourName_Class.zip. Your .zip file must contain:

- All of the files and folders from your website.
- The hosted version should be the same as the Moodle-uploaded version, but be aware that **you will be marked on what you upload into Moodle**.

Marking Scheme

*NOTE 1: The seven items listed below for the "Website Quality" section are **indicative** only. The more evidence of independent learning (suitably referenced by comments in your .html and .css files) you have, and the more the coherence and beauty of your website shines through, the better your mark will be. Use the seven items as a springboard, but do try to go beyond them too. We can't have a detailed marking scheme for this section as quality is a subjective thing, and each of you will bring different independent learning to your website. But if your website causes the lecturer to pause and marvel at how much you have learned over the semester, you will get a good mark in this section (subject to you being able to discuss and justify your code in the interview).*

NOTE 2: Similarly for the "Banner Image". Impress us with your creativity and learning. And don't forget the screencast.

CLIENT-SIDE CODE:	25
Number of HTML Validation Errors	
Number of webpages	
New HTML and Properties	4
Sound and Video files	4
Advanced CSS (transforms / transitions /animations)	4
Other Extra CSS	3
print.css stylesheet, used on all webpages	4
Consistency of Style / Layout	6

FORM CODE:	25
Form Design	4
Range of form elements (>=8 <input>; select; textarea)	8
required / autofocus / placeholder / title / min / max / size / maxlength	8
pattern (RegEx)	5

BANNER IMAGE:	25
Complexity of Banner Image	10
Creativity and beauty of Banner image	15

WEBSITE QUALITY:	25
Professional Finish	
User-friendliness	
Hosted?	
Local Storage	
Widgets	
Exceptional usage of CSS	
WOW Factor	

Finally…

If you try something and can't get it to work, please **comment out the code**, rather than deleting it. Getting something nearly working will attract some marks, but not if you have deleted it. It can be discussed at the interview.