University of Westminster

4COSC011C.3 - Web Design & Development

Coursework Specification (2022/23)

Module leader	Dileeka Alwis, School of Computing, IIT
Unit	Group Coursework – Website Design and Development
Weighting:	50%
Qualifying mark	30%
Description	Group Coursework
Learning Outcomes Covered in this Assignment:	The coursework rationale is: LO1 Utilise a text editor to create several linked HTML documents, following certain style guidelines and satisfying a simple specification; LO2 Identify and apply how to separate the structure, behaviour and presentation of web documents; LO3 Incorporate and develop JavaScript to create interactive documents; LO4 Work in a group, with each individual having a distinct role and tasks, to produce a common Web site.
Handed Out:	12 June 2023
Due Date:	CWK Deadline: **17 July 2023 at 11:30 pm (LK time)**
Expected deliverables:	Please submit via Blackboard: • Individual Report • Your individual web pages (plus CSS and JavaScript pages if separate). You will also be required to attend a group demo with your module seminar tutor.
Method of Submission:	Submitted via Blackboard. • Your individual report submitted as a single PDF or Word document. Your report should contain a copy of the HTML, CSS and JavaScript that you developed for your tasks (this will be submitted to Turnitin). • Your individual web pages (HTML/CSS/JavaScript). **Blackboard will require that you zip your html files into one folder to upload.**
Type of Feedback and Due Date:	Verbal feedback at the coursework demonstration. Written feedback and marks 15 working days (3 weeks) after the submission deadline. **Marks will remain provisional until formally agreed by an Assessment Board.**

Assessment regulations

Refer to the following for clarification on what constitutes plagiarism:

https://www.westminster.ac.uk/current-students/guides-and-policies/academic-matters/academic-misconduct/plagiarism

Clarification on what constitutes collusion:

https://www.westminster.ac.uk/current-students/guides-and-policies/academic-matters/academic-misconduct/collusion

Penalty for Late Submission

If you submit your coursework late but within 24 hours or one working day of the specified deadline, 10 marks will be deducted from the final mark, as a penalty for late submission, except for work which obtains a mark in the range 40 – 49%, in which case the mark will be capped at the pass mark (40%). If you submit your coursework more than 24 hours or more than one working day after the specified deadline you will be given a mark of zero for the work in question unless a claim of Mitigating Circumstances has been submitted and accepted as valid.

It is recognised that on occasion, illness or a personal crisis can mean that you fail to submit a piece of work on time. In such cases you must inform the Campus Office in writing on a mitigating circumstances form, giving the reason for your late or non-submission. You must provide relevant documentary evidence with the form. This information will be reported to the relevant Assessment Board that will decide whether the mark of zero shall stand. For more detailed information regarding University Assessment Regulations, please refer to the following website:

http://www.westminster.ac.uk/study/current-students/resources/academic-regulations

Coursework Description

Work in groups of 3 or 4 students (all group members should be from the same Web Design and Development computer seminar group). Prepare a Web site about an **educational** topic of your choice (see bottom of the page for a list of possible subjects). Ensure that your site complies with the Janet regulations on publications of web pages. Note that you will be assessed on the work completed as well as your evidence of your learning, which you will record in your report.

Contribution to Group Meetings

Your group should schedule a minimum of five group meetings (e.g., one per week). Record when/how the meeting was held, purpose of the meeting, if you attended, and if you attended your individual contribution (see template below). This summary should be included in your individual report (see report template). An example is show below.

| Group Coursework Meetings (minimum 5 meetings, e.g., one per week)		
1	Date & Time	24 Feb 2023 (online)
	Objective:	To agree website topic and assign student roles
	Attended:	All students attended
	Your Contribution:	I suggested the topic sports with football or tennis as potential options.
2	Date & Time:	2 March 2023 (face-to-face)
	Objective:	Review and agree the design of the home page
	Attended:	All students attended
	Your Contribution:	I suggested a colour scheme and layout for the website.
3	Date & Time:	9 March 2023 (hybrid)
	Objective:	Progress meeting
	Attended:	I did not attend
	Your Contribution:	
Etc..		

Part A

This Web site should include:

1. (**Student 1 - Presentation Page**) A presentation page with title and the name of everyone in the group. This can be a sort of splash screen, and after 4 seconds, a second page will be displayed (Main Web page). We would recommend using the technique shown in Lecture 3.

    You will need to explain your choices regarding the page, your approach and defend your decisions regarding which elements and what HTML, CSS or JavaScript techniques you used, in the report. Make references to resources used, whether these are lecture notes or external sources. Explain what problems you faced, how you solved them and what you learnt by completing this task.

2. (**Student 2 - Main Page**) Your main (home) page should be designed so that the user can access several parts of the site. You will create a navigation bar where the links will have some CSS to indicate which page we are on, and a hover effect to highlight the link we are going to. This navigation bar will be created by Student 2 as part of the main page work, but will need to be adapted and added on all other pages by **all students**. The CSS could either make the links look like buttons or have a border at the bottom. This should be created using CSS and we would recommend using a class to show the active page. The main page will also include links to the 4 pages of the website dedicated to content (see task 10).

    For example, if your topic was art, and student 1 was creating a page about Art Nouveau, Student 2 a page about Medieval Art, Student 3 a page about

Palladianism and student 4 a page about Modernism, then your main page could look like so. This shows an example main page with the mouse hovering over the 'comments' link:

Home   Comments   Shop   Quiz   Site Map   About us

Art Nouveau

Medieval

Palladianism

Modernism
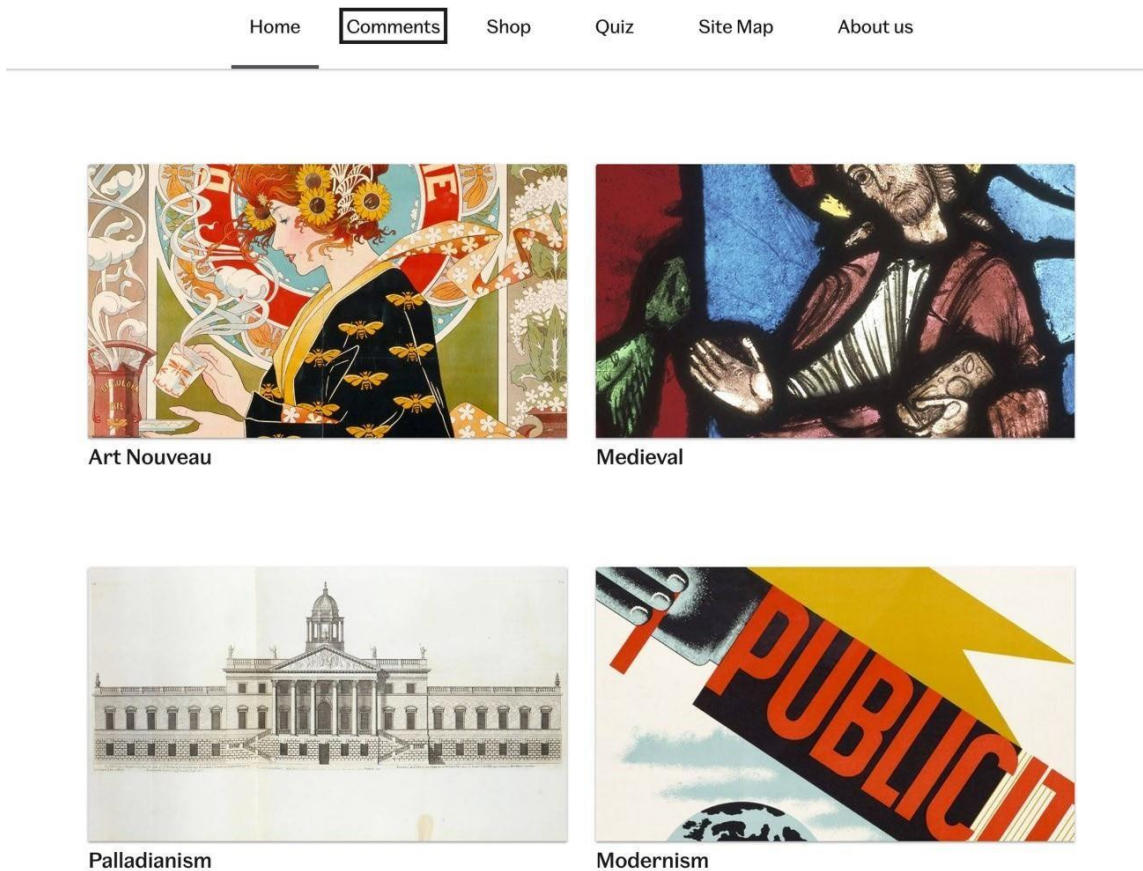
Note that you will also need to include your logo and the name of the student that will link to their personal page, which we will refer to as the 'Page Editor' page, see task 11.

You will need to explain your choices regarding the page, your approach and defend your decisions regarding which elements and what HTML, CSS or JavaScript techniques you used, in the report. Make references to resources used, whether these are lecture notes or external sources. Explain what problems you faced, how you solved them and what you learnt by completing this task.

3. (**Student 2 - Comments Form**) Your site should contain a form to collect comments from your users related their experience in using your website. The form should be set up to email the contents of the form to yourselves. All information the form needs to collect, as well as how it should behave, is shown in the example below:

Change the form element default styles:

Examples of the pull-down menu data:

If a mandatory field is not filled-in on submission, add the elements and additional styles as shown below (the style and colours can be adapted to match your website theme). Note the email received should be easy to read.

On successful submission, this happens on the page:

You will need to explain your choices regarding the page, your approach and defend your decisions regarding which elements and what HTML, CSS or JavaScript techniques you used, in the report. Make references to resources used, whether these are lecture notes or external sources. Explain what problems you faced, how you solved them and what you learnt by completing this task.

4. (**Student 1 - Buy products**) Your site should contain a form to allow people to buy topics related to the topic of your web site, so if your website is about art, this can look like the pictures below (note that there are 2 parts to this).

   Example of Part1: Shop page, see what information needs to be present and how it is not possible to proceed until some products are selected.

The Art Shop ~ Online
HomePage   QueryForm   ArtQuiz
Merchandise

At least 3 items to choose from with quantities for each

Brush Set   Water colour paint set   Wooden Set

£10.00   £20.00   £30.00

Your Order:
Basket

List:

0x Paint Brushes =   0

0x Water Colour =   0

0x Wooden Set =   0

ExpressDelivery=   0

Total:
£   0

Cannot proceed if no items purchased

Name: Contact: ExpressDelivery ☐

Clear your order   Place your order

Further example of Part 1: See how the user can see details of their order, and price.

The Art Shop ~ Online
HomePage   QueryForm   ArtQuiz
Merchandise

Summary of purchase shown on page

Brush Set   Water colour paint set   Wooden Set

£10.00   £20.00   £30.00

Your Order:
Basket

List:

2x Paint Brushes =   20

1x Water Colour =   10

1x Wooden Set =   10

ExpressDelivery=   20

Total:
£   60

Name: Jane Smith   Contact: W1234567@westminster.ac.uk   ExpressDelivery ☑

Clear your order   Place your order

Example of Part 2 – Checkout, where you will indicate which fields are compulsory, and which fields are filled in correctly, and which fields are filled in incorrectly, and where you will take information from one section (edit form) and display it into another location to display the entered information. Any information taken from the previous section (shop), will be pre-filled in here. Note the information here is different as it comes from a different website, but in your case, the name, contact and amount should match.

Show which fields are mandatory, which fields are filled in correctly or incorrectly

The user can edit fields and this will update the page

You will need to explain your choices regarding the page, your approach and defend your decisions regarding which elements and what HTML, CSS or JavaScript techniques you used, in the report. Make references to resources used, whether these are lecture notes or external sources. Explain what problems you faced, how you solved them and what you learnt by completing this task.

5. (**Student 4 – Diagram SVG**)
Your site should contain a sitemap. The sitemap should have navigation links to the appropriate part of the group website and should be developed in SVG. Keep this in style with your website.

Here's an example of what the page could look like when hovering over the Student Details link:
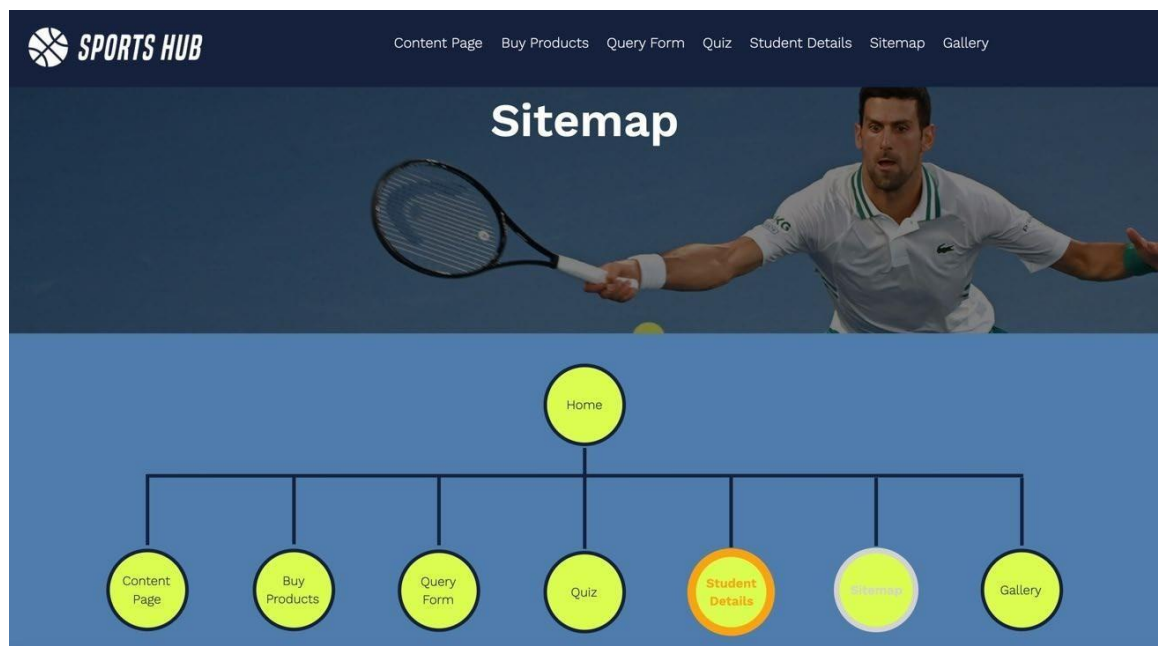
You will need to explain your choices regarding the page, your approach and defend your decisions regarding which elements and what HTML, CSS or JavaScript techniques you used, in the report. Make references to resources used, whether

these are lecture notes or external sources. Explain what problems you faced, how you solved them and what you learnt by completing this task.

6. (**Student 3 - Quiz**) Your site should contain an interactive multiple-choice quiz about the subject you are developing on your Web site. The behaviour and requirements of the quiz are as shown in these examples (note that the style can be different).

SPORTS HUB   Content Page   Buy Products   Query Form   Quiz   Student Details   Sitemap   Gallery

Congratulations, Quiz Completed!

Questions : 10

Wrong Answers : 1

Score : 17

Grade : 85%

You took 44 s

Excellent, Mark, Keep up the good work.

Start Again

Shows performance details, time taken

Colour changes based on performance

Top
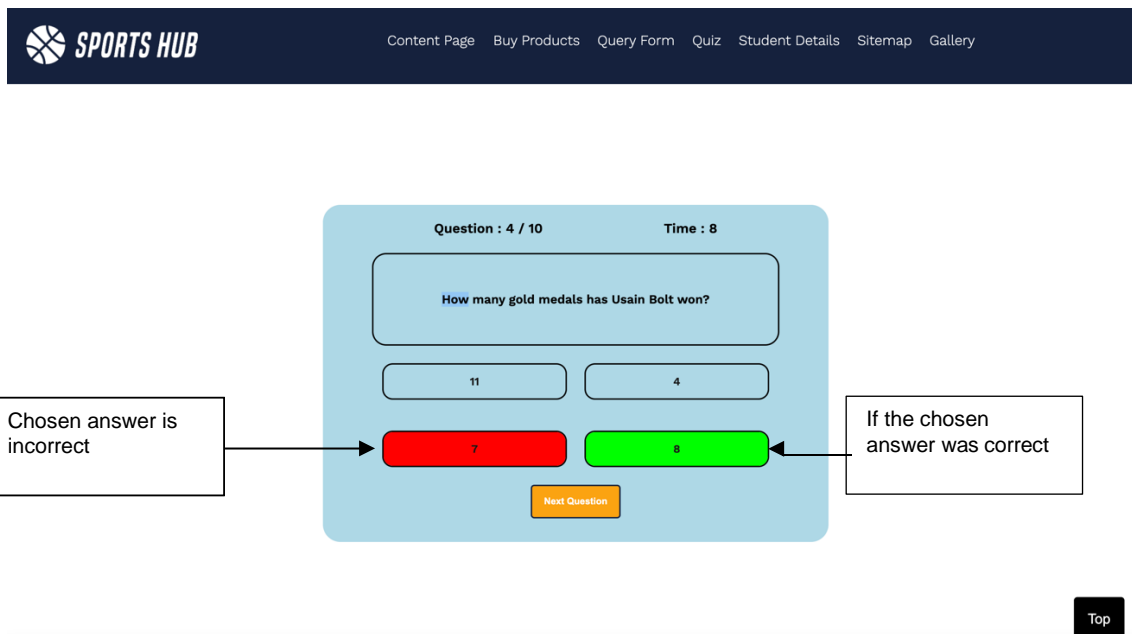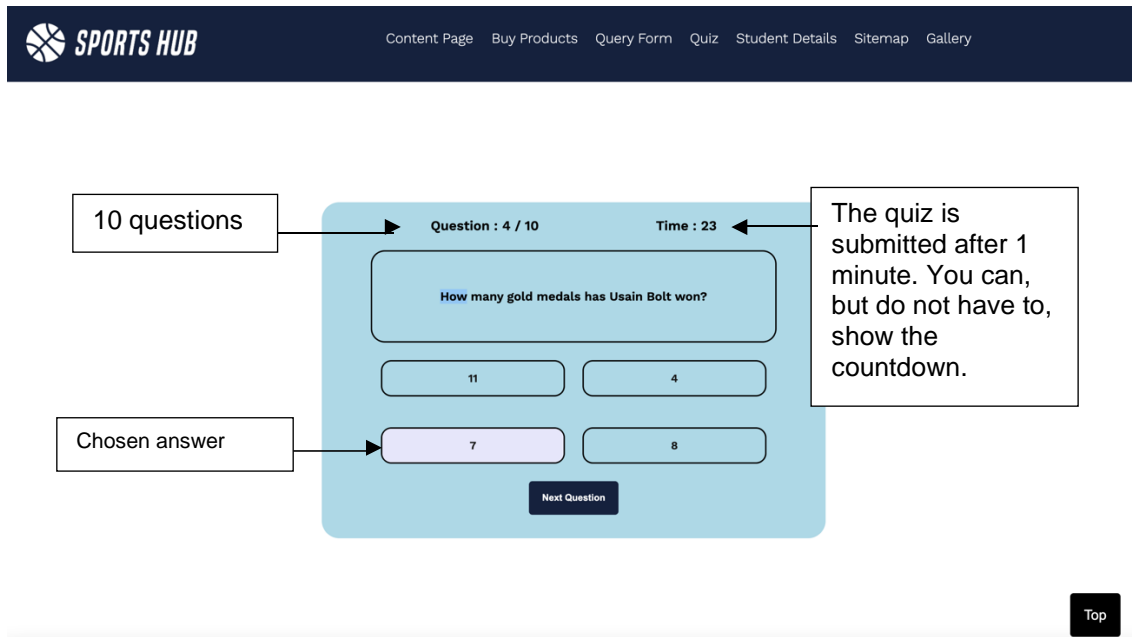
Here's a different example:

BRIT AWARDS 2022

Chosen answer is correct

Question 1: For the 2022 BRIT awards, who won Artist of the Year?
Dave ○
Sam Fender ○
Adele ◉
Ed Sheeran ○

AMERICAN MUSIC AWARDS

Chosen answer is incorrect

Question 2: At the 2021 AMAs, Which of these artists won the most awards?
BTS ○
Taylor Swift ◉
The Weeknd ○
Olivia Rodrigo ○

You took 59.022 seconds to complete the quiz!

You scored -7 out of 20!

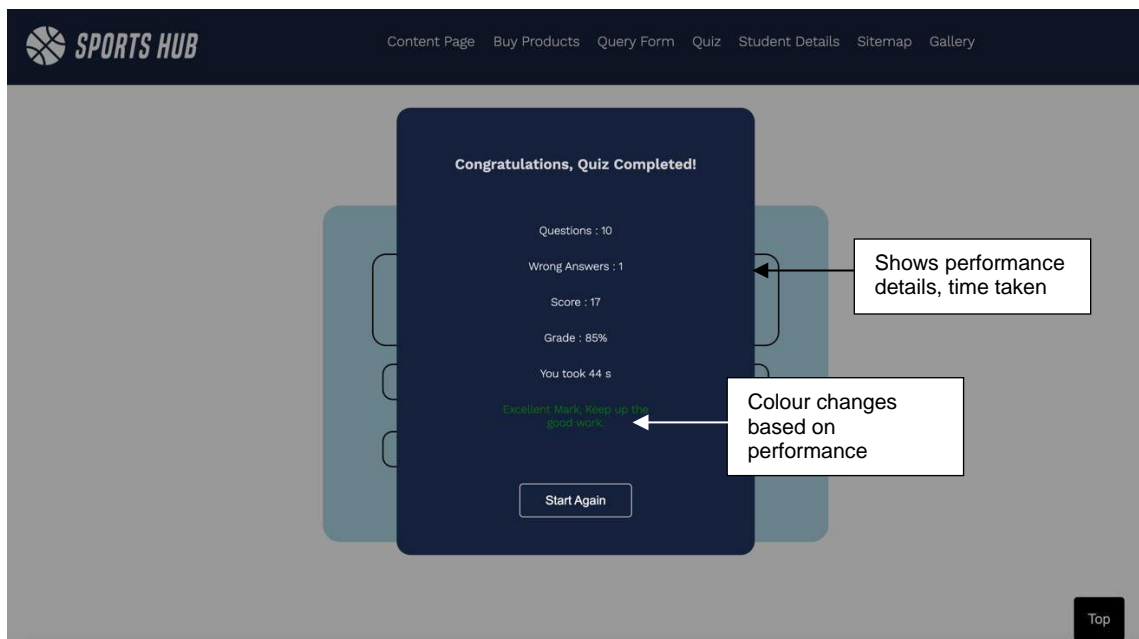Shows performance details, time taken. And the colour changes based on the performance

You will need to explain your choices regarding the page, your approach and defend your decisions regarding which elements and what HTML, CSS or JavaScript techniques you used, in the report. Make references to resources used, whether these are lecture notes or external sources. Explain what problems you faced, how you solved them and what you learnt by completing this task.

7. (**Student 4 - Thumbnail images/Image gallery with description**) Create a page that allows the user to view images and content related to your website. Allow the user to change the colour scheme (min 3 choices + one choice of random colour) and increase/decrease fonts for all text shown. Here's an example of what this page could look like if your website was about gaming (see pre-defined colour schemes in the top-right corner). Note the random colour scheme picker is not shown on this example:
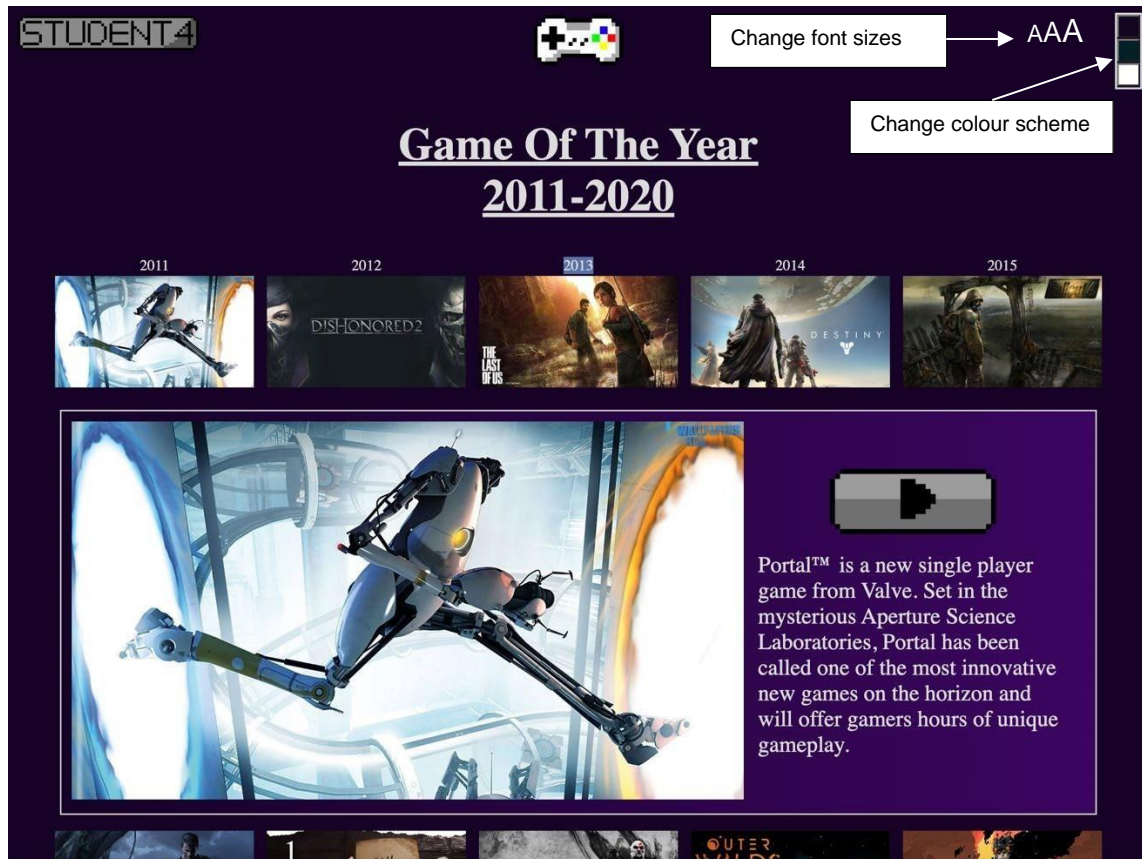
After hovering over the second image:
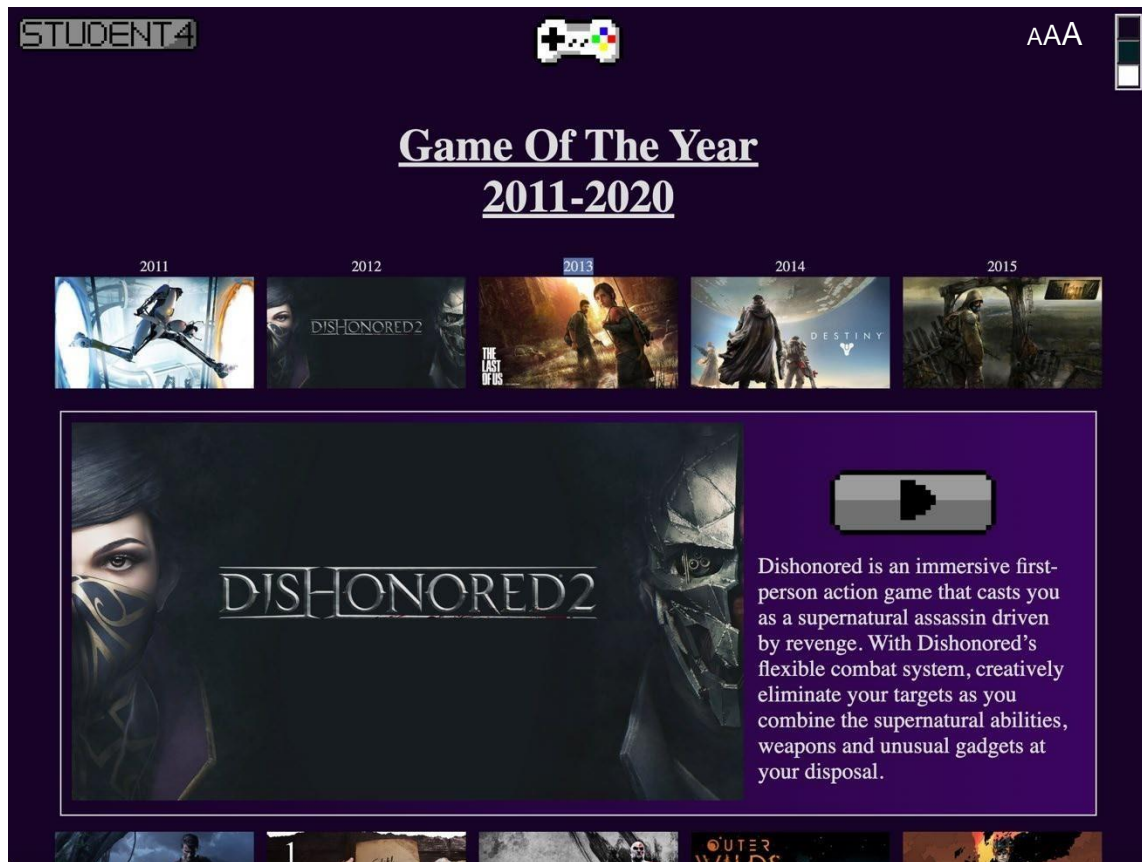

After clicking the white color scheme:

You will need to explain your choices regarding the page, your approach and defend your decisions regarding which elements and what HTML, CSS or JavaScript techniques you used, in the report. Make references to resources used, whether these are lecture notes or external sources. Explain what problems you faced, how you solved them and what you learnt by completing this task.

8. (**Student 3 - Student details**) One page should contain four pictures of the members of the group. When the user moves the mouse over one picture, the details of that member should be displayed in an area on the page (for example, you could use a div below the pictures). The details should include the name and role that that student took for the coursework (e.g., Jane Smith, Student 3).

   Here's an example of what the page could look like for a group with 3 members (excluding navigation bar, logo and page editor):

   And when hovering over the 2nd picture:
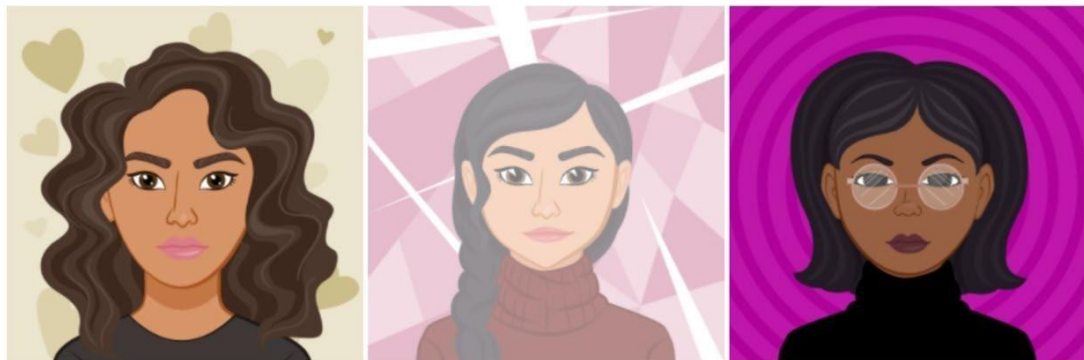
Jane Smith, Role: Student 3

   You will need to explain your choices regarding the page, your approach and defend your decisions regarding which elements and what HTML, CSS or JavaScript techniques you used, in the report. Make references to resources used, whether these are lecture notes or external sources. Explain what problems you faced, how you solved them and what you learnt by completing this task.

9. Consistency of style should be ensured using:
   • You will define the styles as a group, and (**Student 2**) will create a unique external style sheet file for the main page and navigation; As a minimum,

this will cover the style for the navigation bar, the fonts and colours to be used throughout the webpages. You will also produce a style guide for your team members to use. Include this in your report also, explaining your approach.

- (**All students**) used throughout the web site. You may need to create additional CSS for your pages. Ensure that you indicate in your report what additional CSS you needed to add and why.

10. (**All students**) Create an additional content page (related to your website topic). Ensure this page (or another of your webpages) is long enough to use anchors within the page. Any page longer than the screen size should have links to various parts of the text at the top of the page.

    You will need to explain your choices regarding the page, your approach and defend your decisions regarding which elements and what HTML, CSS or JavaScript techniques you used, in the report. Make references to resources used, whether these are lecture notes or external sources. Explain what problems you faced, how you solved them and what you learnt by completing this task.

11. (**All students**) For each page that an individual group member produces there should be a link to a short 'Page Editor' web page containing your name, role and a list of the tasks completed. This page is external to the group website and therefore on this occasion does not need to follow the design of the main website.

    Here's an example of what your page editor page should contain (note the screenshot only covers part of the page). Make sure that you add all the pages that you were responsible for.

Page Editor

Name: Jane Smith
Role: Student 3
The following pages were edited by me!

↓ jump to bottom

Quiz

Created a quiz using html radiobuttons
Used Javascript to evaluate answers
Added a timer using Javascript

link to quiz

Details

Created a details page with html, css and javascript
Added hover effects and altered visibility
Shows the role of each student and their names

link to details

Artist Brands

Created a page containing links and images of websites
Used CSS and positioning to create a minimalist layout
Used anchors to jump from certain points on the page

link to brands page

Main

Homepage we worked on together
I aided with the javascript functions, and events
Helped with the visuals and fonts
Created a simple logo together

link to main

You will need to explain your choices regarding the page, your approach and defend your decisions regarding which elements and what HTML, CSS or JavaScript techniques you used, in the report. Make references to resources used, whether these are lecture notes or external sources. Explain what problems you faced, how you solved them and what you learnt by completing this task.

12. (**All students**) Each page should include your title logo at the top, and a link to the page editor (the person who wrote the page) at the bottom of the page. (E.g., here you should make a link the 'page developer' web page created for part 11).

    You will need to explain your choices regarding the page, your approach and defend your decisions regarding which elements and what HTML, CSS or JavaScript techniques you used, in the report. Make references to resources used, whether these are lecture notes or external sources. Explain what problems you faced, how you solved them and what you learnt by completing this task.

13. (**All students**) Feel free to use additional JavaScript to add interactivity and increase ease of navigation.

    You will need to explain your choices regarding the page, your approach and defend your decisions regarding which elements and what HTML, CSS or JavaScript techniques you used, in the report. Make references to resources used, whether these are lecture notes or external sources. Explain what problems you faced, how you solved them and what you learnt by completing this task.

14. Each student should have integrated web application during the demonstration of the viva (That is all CSS, JS files.HTML developed by each student connected/tested and working as one web site).

15. All pages should be validated with no errors. Warnings are acceptable. This should be evidenced in your individual report (see report template).

Part B - Report
Each student should submit an **individual** report to Blackboard. **YOU MUST USE THE REPORT TEMPLATE** which can be found on Blackboard.

Part C - Demonstration
You will have to give a compulsory live online demo of your Web site in your computer seminar class (see schedule), where you will be required to answer questions regarding the development of your page.

Important Notes

Each student should only complete the tasks allocated for one student (i.e., either student 1, student 2, student 3 or student 4). **You will not receive marks for completing tasks allocated to another student**. The workload for each group **must** be as follows:

Task	Student 1	Student 2	Student 3	Student 4
1 - Presentation Page	*			
2a - Main (Home) Page and site navigation including creation of navigation bar		*		
2b – Navigation bar included in all pages	*	*	*	*
3 - Comments Form		*		

4 - Buy products	*			
5 - Diagram (SVG)				*
6 – Quiz			*	
7 - Thumbnail images				*
8 - Student details			*	
9a - External CSS (created)		*		
9b - External CSS (9a reused)	*	*	*	*
10 - Extra content page/anchors	*	*	*	*
11 - Page Editor	*	*	*	*
12 - Logo/Page Editor	*	*	*	*
13 - Additional Interactivity	*	*	*	*
14 - Web Application Integration	*	*	*	*
15 - Pages validated	*	*	*	*
Subtotal (53 marks)				
Part B - Report (40 marks)	*	*	*	*
Part C - Group Demo (7 marks)	*	*	*	*

Possible subjects include:

Sports, Music, Tourism, Art, Entertainment, Education, Science

Individual Statement

Student Name:		Student Id:	

State what tasks you carried out in the project.

State what you enjoyed and did not enjoy about teamwork.

State what you learnt about teamwork.

State what skills you gained/learnt from undertaking the project.

State any strengths about yourself that emerged whilst undertaking the project.

State any weaknesses about yourself that emerged whilst undertaking the project.

State how you would do things better if you were to undertake the project again.

Additional general or project specific comments: