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| **COURSEWORK ASSESSMENT SPECIFICATION** |

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| **Module Title:** | *Web Technology* |
| **Module Number:** | *KF4009* |
| **Module Tutor Name(s):** | *Garry Elvin* |
| **Academic Year:** | *2016-2017* |
| **% Weighting (to overall module):** | *45%* |
| **Coursework Title:** | *Assignment Outline and Part A Requirements* |

**Dates and Mechanisms for Assessment Submission and Feedback**

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| **Date of Handout to Students:**  Week commencing the 5th October 2016. |
| **Mechanism for Handout to Students:**  The assignment is available via Blackboard. |
| **Date and Time of Submission by Student:**  Thursday the 8th of December 2016 before 4 pm. |
| **Mechanism for Submission of Work by Student:**  **Submission instructions**  This assignment **must** be submitted electronically in two ways as follows, see below.   * 1. newnumyspace - you are required to FTP ALL of the files (e.g. HTML, graphics, CSS, pdf etc.) that you use to implement this part of the assignment (part A) to your newnumyspace account by **Thursday the 8th of December 2016 before 4 pm** (your files should not be altered after that time).   Your web solution MUST be designed to work on your newnumyspace web space. You should test your web solution to ensure that it is working prior to the specified hand-in date/time.  ***If you fail to FTP your files to newnumyspace correctly or do not make the special offer page accessible via a web address on newnumyspace by the specified deadline it will not be possible to mark your work.***   * 1. Blackboard - you are required to submit **one** zip file (this MUST be a zip file and not an alternative like a rar file) containing a **zipped** copy of all of the files (e.g. html, graphics, CSS, pdf etc.) that you have used to complete the assignment using the link provided under **Assignment Part A Submission** in the Assessment area on blackboard for this module by **Thursday the 8th of December 2016 before 4 pm**.   **Instructions for submitting your assignment solution via blackboard**   1. In blackboard go to Assessment > Assignment Part A Submission 2. In **Assignment Part A Submission** section click on the **Browse My Computer** button and navigate to the required zip file 3. In the **Add Comments** box, specify the **EXACT** web address of the home page for your solution to the Assignment.  ***You MUST do this. If you don’t it will not be possible to mark your work*** 4. Click **Submit** (note that it must be Submit and not Save as Draft)   You must only submit only **ONE** zip file that contains all of the files you used to complete the assignment. Do NOT submit lots of files individually.*The zipped copy of the files that you submit using via blackboard must be* ***identical*** *to the files you uploaded to your newnumyspace account.*  *Hints:*   * *Make sure all links, images etc. use relative web addresses to avoid problems* * *It is best to have all file names in lower case, and not to have gaps in file names* |
| **Date by which Work, Feedback and Marks will be returned to Students:**  Within four working weeks of the submission date. |
| **Mechanism for return of assignment work, feedback and marks to students:**  Students will receive written feedback on their work from their tutor via the electronic learning portal (Blackboard). |

**Further Information**

**Learning Outcomes tested (in part) in this assessment (from the Module Descriptor):**

1. Demonstrate knowledge of standards compliant web-based applications, including key web accessibility and web design principles
2. Apply appropriate tools, methods and technologies to solve a given web development problem, considering user needs

**Assignment Outline and Tasks Required**

This is an individual assessment. It is will consist of parts A and B. Part A of the assignment (worth 45% of the marks available for the module) will involve completing and demonstrating 1 piece of work that will require you to develop various aspects of a website. Part B of the assignment (worth 55% of the marks available for the module) will require you to do further work on the website that will include more practical work and considering security issues related to the web site and what steps you recommend could be taken take to minimise any potential security risks. This document gives the scenario for the assignment (*make sure that you read carefully*) and the specific requirements for Part A.

A detailed specification for Part B of the assignment will be provided later.

Part A – due Week 12 of Semester 1 (w/c the 5th of December, 2016)

Part B – due Week 13 of Semester 2 (w/c the 1st of May, 2017)

# Assignment Case Study Background

Arts and Events (a fictional company) promotes upcoming shows, exhibits and other events. They aim to provide a single point of access through which the user can find details of upcoming events. The management at Arts and Events have asked you to design and build the first stages of a new online presence for their company. They would also like you to make them aware of any security considerations related to their web site for both them and their users and what steps you recommend that they could take to minimise any potential security risks.

The current web site for Arts and Events has a number of problems including HTML errors, and accessibility and design issues. It is also old, outdated and needs rebranding. From previous research you have developed the following company objectives for the new site that you should consider to help inform your design decisions.

* Promote the upcoming shows, exhibits, events and the artists featured
* Allow the user to view all upcoming events
* Allow an administrator to add a new event to a database and to edit the event records stored in the database
* Have a high quality, but also distinctive, image
* Be easy to use
* Be accessible

**Assignment Part A Development Tasks - “Home page”**

In this part of the assignment you are required to start the development of the “Arts and Events” web site by creating a home page. In your design you should consider the information provided in the Assignment Case Study Background section and good design practice, in particular:

* The overall appropriateness of the design for the purpose outlined
* Accessibility (e.g. the appropriate use of colours, access keys, alt and lists)
* HTML standards and CSS standards compliance – it is expected that: HTML code is standards compliant and validates, without errors, and conforms to the module’s ‘house standards’ on coding style *(outlined in appendix I)*; your CSS code will be valid
* Semantic structuring of the content of the web pages appropriately using features such as sectioning elements (e.g. nav. etc.), headings, paragraphs and lists
* Use a range of appropriate HTML tags
* Appropriate use of repetition, contrast (e.g. colour), proximity, and alignment
* Appropriate use of a range of CSS (located in a style sheet)
* Page layout design (Note: use CSS for layout rather than tables)
* Appropriate use of images
* The readability of text
* Provision of an appropriate layout to implement a fluid design that resizes according to viewport size (without horizontal scroll bars ever appearing)
* Cross browser compatibility
* Appropriate navigation

*Note that the information provided on the pages does not need to be accurate – you may just make it up, but it should still be relevant to the case study.*

Task 1 - wireframe

1. Create a wireframe (page design) for the home page for Arts and Events. The wireframe should be created electronically and saved as a pdf document (e.g. using Microsoft Word or in some other appropriate program) and should be linked to the web page (see task 2)
2. The wireframe should include (as well as the visual representation of the page design) notes on:
   1. The design choices that you have made such as the font types, text size, colours, layout, navigation etc.
   2. The reasons for your design choices (e.g. to do with the target audience, the purpose of the site etc.)

Task 2 – home page

Create a home page with the file name **index.html**. It should:

* Implement the wireframe design that you created for task 1
* Provide appropriate information about Arts and Events, including about upcoming shows, exhibits and other events
* Include an appropriate image(s)
* Include a navigation area with 5 links: “home”, “view events”, “admin”, “credits” and “wireframe”. When the web site is complete these links will take the user to an appropriate web page, or open a pdf file in the case of the wireframe. For this part of the assignment you are only required to produce the home page and the wireframe, so only the links for those need to work for now. The other links should be only “dummy” ones at this point, i.e. link only to the home offer page itself.
* Include features such as features such as sectioning elements (e.g. nav. etc.), headings, paragraphs and lists to structure the content of the page appropriately
* Use a range of appropriate HTML tags
* Be linked to a CSS file that you will create in task 3

Task 3 – CSS

Create a CSS file that specifies ALL of the styles for the web site, for example styles for specifying:

* An appropriate layout to implement a fluid design that resizes according to viewport size
* Background colour(s)
* Text colour(s), font faces, and visual emphasis
* Navigation links (e.g. link states – active, visited, hover - including the colour, font type and size of links, and whether the links are underlined or not)
* Paragraphs, headings etc.

You should aim to style a range of selectors including html tags, classes and ids. Try to take advantage of the cascading nature of style sheet definitions so as not to include unnecessary repetition. The choice of styles is up to you. However, you should consider good design practice when making your choices.

***Important notes***

* *Test your html code (including any generated using PHP) to ensure that is HTML5 compliant and validates using the W3C Markup Validation Service (this is available at* [*http://validator.w3.org/*](http://validator.w3.org/)*) or using Validator.nu (this is available at* [*https://validator.nu/*](https://validator.nu/)*) if validating inside the University and the W3C Markup Validation Service is not working. In addition, ensure that it conforms to the module’s ‘house standards’ on coding style (outlined in appendix I)*

### *Test your CSS code is valid using the W3C CSS Validation Service (this is available at* [*http://jigsaw.w3.org/css-validator/*](http://jigsaw.w3.org/css-validator/)*)*

* *The use of HTML generation tools such as Adobe Dreamweaver (other than in Code view - and even then the use of Dreamweaver layouts is not permitted), or other templates or files for either html or css not authored by you, is* ***NOT PERMITTED****. Anyone who is found to have done so will receive 0 marks for this part of the assignment. You have been warned. We expect you to generate your HTML by hand, e.g. using PHPStrorm or Dreamweaver in Code view*
* *You should test your web page using web browsers (e.g. Internet Explorer and Firefox) and at different screen resolutions to make sure that it displays as you would expect it to.*

**Assessment Criteria/Mark Scheme:**

This part of the assignment is worth up to 45% of the total marks available for the module.

**Marking Scheme**

*Important Notes*

* *If any doctype other than the one for html5, the overall mark achieved for this part of the assessment will be reduced by 4 marks*
* *If the doctype used is the one for html5 and there are errors**reported by* [*http://validator.w3.org/*](http://validator.w3.org/) *(or https://validator.nu/ if the first validator is not working) or a visual inspection of the code reveals other errors, including non-compliance with the module’s ‘house standards’ on coding style (outlined in appendix I),* ***one mark will be deducted from your total for every error up to a total of 4 marks***

Marks will be awarded in the following categories:

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| **Wireframe** | 5 |
| **Layout and general design**   * Accessibility (access keys, alt attributes, lists for navigation menus) * Layout complexity &proximity, alignment and grouping of content * General design principles * Fluid layout to allow for browser resize without horizontal scroll bars appearing & cross browser compatibility | 3  3  4  4 |
| **HTML and content**   * Semantic structure of content – appropriate use of sectioning elements (e.g. nav. etc.), headings and heading order, good general structure, e.g., paragraphs and lists etc. * Inclusion of an appropriate image(s) and text * Navigation links | 6  5  1 |
| **CSS**   * Range of styles set using CSS, e.g. font types and sizes, text and background colours, navigation links, paragraph and heading styles, visual emphasis of text, and for an appropriate layout to implement a fluid design * Styling of built-in tags and use of classes, ids and nested definitions * CSS validation | 6  3  2 |
| **Build quality**   * Comments in the code, code indenting and other aspects of code styling | 3 |
| **Total** | **45** |

**Nature of the Submission Required:** Electronic (as specified earlier)

**Academic Integrity Statement:** You must adhere to the university regulations on academic conduct. Formal inquiry proceedings will be instigated if there is any suspicion of plagiarism or any other form of misconduct in your work. Refer to the University’s Assessment Regulations for Taught Awards if you are unclear as to the meaning of these terms. The latest copy is available on the University website.

<https://www.northumbria.ac.uk/sd/central/ar/qualitysupport/asspolicies/>

**Failure to submit:** The University requires all students to submit assessed coursework by the deadline stated in the assessment brief. Where coursework is submitted without approval after the published hand-in deadline, penalties will be applied as defined in the University Policy on the Late Submission of Work. <https://www.northumbria.ac.uk/static/5007/arpdf/lateappr>

**Appendix I**

## html5 House Standards

1. All tags must close or have a self-close (as you need for: <img />, <br /> and <link /> for instance)
2. All attribute values must be quoted
3. All attributes must have values, except where that value is the same as the attribute name
4. Inline elements can't contain block elements and inline elements must be inside a block element (the W3 spec also describes inline and block as 'text-level' and 'grouping' in the [html5 specifications](http://www.w3.org/TR/html5/Overview.html#contents))
5. All tags must be written in lower-case

There should only be one heading 1 per page and headings should be nested appropriately.