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| **BTEC National extended diploma in ICT** | | |
| **Assignment no: U20.1**  **Assessment Title: Standards Compliance** | | |
| Assessor: Mark Higgins | Student: | Group: GSDED3/18-Y2 |
| Unit Number: 20 | Unit Title: Client Side Customisation of Web Pages | |
| Hand out date:12/11/19  Resubmission authorised by:  (BTEC only) | Hand in date: 26/11/19  Resubmission hand in date: | Date handed in:  Date handed in: |

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| **Scenario:**  **Avonside New Media, standards compliance initiative.**  You are on a Web Design course at college and are doing some work experience at Avonside New Media. They are a consultancy company who creates websites by providing expertise in graphic design and website coding. Because web design coding languages are still in the process of evolving some of the coding designers are using methods which are not standards compliant.  The manager you are working for, Astrid Bisset, wants to make sure that webpages produced by Avonside are W3C “standards compliant”.  Astrid wants to use your web design knowledge for you to create a report for the designers so that they can understand the reasons for using a standards compliant HTML, CSS and JavaScript.   Task 1 – The background report Complete the first section of a report that gives the designers an overview of how mark-up languages work and how HTML and CSS are used together.  You will need to show how CSS Selectors work in combination with HTML Tags.  You will also need to describe how CSS can be implemented with in-line styles, internal styles and external styles and describe why you would pick each method, giving examples to support your answer.  You will need to explain:   * The role of the Worldwide Web Consortium (W3C), * Why the W3C thinks that standards compliant code is the best way to do web development * How to write standards compliant code using the best CSS implementation method.   She also thinks that the box model is a fundamental part of CSS so she also wants you to explain how the box model can be used for   1. Presentation 2. Layout.   Use code snippets and screenshots wherever you can to support your points. The code and screenshots can be code you have created and/or code from websites that you know about.   Task 2 – Scripting languages and browsers Scripting languages add a dimension of interaction so Astrid wants you to discuss how this works; she also wants you to highlight that there can be problems in different browsers.  To do this, you need to:   * Explain the fundamental principles of how scripting languages work * Discuss how a scripting language (JavaScript) can improve functionality * Explore how script solutions may be implemented differently in different browser javaScript engines such as V8, WebKit and SpiderMonkey |

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| **What to hand in:**  A word processed report documenting your findings. |

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| **How to hand in your assessment**  This assessment must be handed into / uploaded to the VLE by the hand in date on the front of the assignment brief. If you have a valid reason why you will not be able to hand in the work on time you will need to fill out and hand in an AE form to your assessor or the Head of School. |

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| **Student declaration:**  I have read the Assignment Submission Procedure. I agree that this is my own work or my own work and that of other members of my group. It has not been copied (plagiarised) from any other source e.g. the internet, a book, another student or group of students. I know that I may FAIL this assignment if the Head of School proves that this is not my own work. | | | |
| Student signature |  | Date: |  |

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| **Student feedback on what you liked and/or disliked about this assessment.**  Option 1 – delete this box if not using. | |
| **Answer Yes or No to the questions.** | |
|  | Yes / No |
| I enjoyed the task. |  |
| I understood the task. |  |
| The deadline was realistic. |  |
| I had enough support. |  |

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| **Student feedback on what you liked and/or disliked about this assessment.**  Option 2– delete this box if not using. |

For staff use only.

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| **Internal Verification** | This assessment has been verified and form IV8 completed: | IV name:  Trevor Till | IV signature:  TTill | Date:  13/9/19 |

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| **SMOG index:** | 18.1 |

Test for readability on scenario and tasks only OR workbooks tasks. Appropriate scores are: L3 = 16; L2 = 13/14; L1 = 11/12; entry level = 9/10

Link here: <http://www.readabilityformulas.com/free-readability-formula-tests.php>

**Assessor marking grid**

**Student name:**

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| Grading criteria | Grading criteria | Achieved  Not submitted  Fail  Resubmission | Comments/Feedback | Target date  for resubmission  (BTEC FE only - within 15 working days of receipt of results of assessment) |
| P1 | explain how HTML files access CSS |  |  |  |
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| P2 | explain the features of the box model for CSS |  |  |  |
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| P3 | explain the fundamentals of a scripting language |  |  |  |
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| M1 | Assess different implementation styles of CSS |  |  |  |
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| M2 | discuss how a scripting language can improve functionality |  |  |  |
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| D1 | explore how web pages using scripts are implemented in different browsers |  |  |  |
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| **General comments and feedback on English and maths** |

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| ***Actual Grade*** | ***Grading criteria*** | *P1* | *P2* | *P3* | *M1* | *M2* | *D1* |  |  |  |  |  |  |  |  |  |  |  |  |
| ***Achieved?*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Please note that the grade that you have been awarded is subject to confirmation following internal verification and external sampling by the Awarding Body.

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| I certify that the evidence submitted for this assignment - either via the VLE or other method - is the learner’s own. The learner has clearly referenced any sources used in the work. I understand that false declaration is a form of malpractice. |

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| Assessor signature: | Date marked: |