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| Logo Here | **My School**  Cambridge TEC (Certificate/Diploma) in IT  **Unit 21 – Web Design and Prototyping** | Student Name:­­­­ **Grade Awarded by:**  **Date Awarded: \_\_\_\_\_\_\_\_\_\_** Grade: PASS/MERIT/DISTINCTION |

##### Unit 21 - Assignment Checklist - DD-MM-2016

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| **TASKS & LEVEL** | **ACTIVITIES** | | | | | | | | | **STUDENT** | **STAFF** |
| **Unit 21 – LO1 - Understand the Fundamentals of Web Design** | | | | | | | | | | | |
| P1.1 – Task 01 | Describe what a domain name is, how it is constructed and why it is important to get the name right. | | | | | | | | |  |  |
| P1.2 – Task 02 | Using a website example, explain what sites maps are and how they are used by a specific company to ease the production and navigation processes. | | | | | | | | |  |  |
| P1.2 – Task 03 | Using an example, explain the additional benefits of a created site map showing examples of functions and features. | | | | | | | | |  |  |
| P1.3 – Task 04 | Using an example, explain the different methods of Hyperlinks that can be used showing examples of functions and purpose. | | | | | | | | |  |  |
| P1.4 – Task 05 | Using a variety of examples, describe the Purpose, Position and Structure of Navigation Bars. | | | | | | | | |  |  |
| P1.5 – Task 06 | Explain the purpose of Page Designs before the creation of a site, state their use and create a Page Design for a website that exists. | | | | | | | | |  |  |
| P1.6 - Task 07 | Using examples, explain the difficulty of designing for different browsers and devices, the benefits and pitfalls. | | | | | | | | |  |  |
| Responsive design for mobile/tablet technology | | How browser rendering can affect the layout of a webpage: | | | An understanding of browser rendering engines for key | | | Importance of design that takes this into account, what can happen when it is not considered |
| P1.7 - Task 08 | Explain W3C, what it does and hopes to achieve and describe the benefits and limitations of open and closed standards ion web development. | | | | | | | | |  |  |
| P1.8 - Task 09 | Research and explain the method, the technology, the advantages and disadvantages to a business of Adding Data Storage of customer information on a website. | | | | | | | | |  |  |
| P1.9 - Task 10 | Describe how Web Interaction can be used to enhance the user experience and explain with examples the methods of doing so. | | | | | | | | |  |  |
| Different methods of interactivity | | | Use of existing tools | | | Use of languages to add interactivity | | |
| M1.1 - Task 11 | Describe the importance of Confidentiality, Integrity and Availability in the day to day running and management of the school with examples. | | | | | | | | |  |  |
| M1.2 – Task 12 | Research and describe the risks to web data and traffic with examples. | | | | | | | | |  |  |
| SQL Injection | | | Interception of data | | | | Un-validated input | |
| M1.3 - Task 13 | Research and describe preventative measures that could be used to protect Website data. | | | | | | | | |  |  |
| Validation | | | Appropriate Passwords | | | | Encryption | |
| **LO2 - Be able to plan the development of an interactive website for an identified client** | | | | | | | | | | | |
| P2.1 – Task 01 | Create a questionnaire that collects all the relevant information from the client in order to determine their website needs. | | | | | | | | |  |  |
| P2.2 – Task 02 | Create a report that outlines the client’s needs and website requirements, justifying each decision made. | | | | | | | | |  |  |
| P3.1 – Task 03 | Create a **Site Map** for your website design. For each page you need to describe its purpose and what it will contain to meet that purpose. | | | | | | | | |  |  |
| D1.1 – Task 04 | Justify your design choices based upon the client’s needs, specifying what requirements will be met and reasons why you have chosen this. | | | | | | | | |  |  |
| P3.2 – Task 05 | Design, Illustrate and explain choice of navigation bars for your website in line with the client’s needs. | | | | | | | | |  |  |
| D1.2 – Task 06 | Justify the manner of navigation bar for your website based upon the client’s needs, specifying what requirements will be met and reasons why you have chosen this. | | | | | | | | |  |  |
| P3.3 – Task 07 | Illustrate and explain the house style for your website in line with your client’s specifications. | | | | | | | | |  |  |
| D1.3 – Task 08 | Justify the house style for your website based upon the client’s needs, specifying what requirements will be met and reasons why you have chosen this. | | | | | | | | |  |  |
| P3.4 – Task 09 | Design a page plan based on your House style indicating the major content and functionality of your website in line with the client’s specifications. | | | | | | | | |  |  |
| D1.4 – Task 10 | Justify the page plans for your website based upon the client’s needs, specifying what requirements will be met and reasons why you have chosen this. | | | | | | | | |  |  |
| P3.6 – Task 11 | Explain the additional content on your webpage and how they meet the client’s specifications. | | | | | | | | |  |  |
| D1.5 – Task 12 | Justify the Responsive Design content and Browser measures for your website based upon the client’s needs, specifying what requirements will be met and reasons why you have chosen this. | | | | | | | | |  |  |
| **LO3 - Be able to create prototype websites for an identified client** | | | | | | | | | | | |
| P4.1 – Task 01 | Create at least 5 web pages with links that matches your clients’ needs and house style, including links, content and structure. | | | | | | | | |  |  |
| M2.1 – Task 02 | Copy HTMP code from a pre-existing component and embed it within your page to automatically pick up changed information. | | | | | | | | |  |  |
| M2.2 – Task 03 | Embed and include Javascript within your pages that performs a specific role or function in line with your designs. | | | | | | | | |  |  |
| M2.3 – Task 04 | Add a login name and password option to your website that links through PHP to a MySQL database. | | | | | | | | |  |  |
| M2.4 - Task 05 | Create a CSS template that allows your site to work on a click for mobile devices (Responsive Design). | | | | | | | | |  |  |
| P5.1 – Task 06 | Conduct testing of the prototype that convers Embedded components, functionality, database and responsive design features. | | | | | | | | |  |  |
| D2.1 - Task 07 | Evaluate the prototype against the client’s requirements. | | | | | | | | |  |  |
| **LO4 - Be able to present the interactive website concept to an identified client** | | | | | | | | | | | |
| P6.1 – Task 01 | Create a presentation to demonstrate the workings of the prototype website to the client | | | | | | | | |  |  |
| P6.2 – Task 02 | Create a questionnaire to gauge feedback from the client on the presentation of the solution. | | | | | | | | |  |  |
| P6.3 – Task 03 | Present the solution to the client and gain feedback from the designs | | | | | | | | |  |  |
| M3.1 – Task 04 | Communicate future website security and maintenance considerations to the client. | | | | | | | | |  |  |
| Updating of content | Training of staff | | | Threats to information security | | Protection methods for securing personal data/information | | |