

**BTEC Technicals Level 2: Digital Applications Development (Unit 7)**

**Task: Digital Application Research**

Your assignment will be set next week, and will be based around explaining to a group of junior software engineers the features and functions of a website. Start to think about what you will tell them. Below is a list of a few things to consider:

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| **Server Technologies** |
| * **Server technologies and the management services associated with hosting and managing websites.** * **How does a server host a site? What are the costings involved?** * **Is there a restriction on file sizes/upload speed/access speeds for different servers? Will you get more if you pay more, or would something like Github be sufficient?** |

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| **Website Creation Techniques** |
| * **What tools and software are used to develop websites?** * **Look at some existing sites. Can you figure out how they’re written and maintained?** * **How heavily would the techniques used depend on the business?** * **How much does a site cost? And what different types of site can you have?** |

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| **Front-end & Back-end** |
| * **Research the terms *‘front-end’* and *‘back-end’.*** * **Which part of the website do each of these groups of people maintain?** |

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| **Databases** |
| * **What are databases used for?** * **How are they managed?** |

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| **Security** |
| * **How is security performed on a website?** * **If there is a password field, how is this handled so that your data is secure?**   NB: This is *not* easy. Don’t be worried if you don’t understand what you read - it’s complicated for a reason!! |

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| **Content Management System** |
| * **Find out what a Content Management System is and why it’s useful.** * **We will cover this in a whole class, but it would be useful for you to get ahead before we do!** |

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| **Maintenance** | |
| * **How is a website maintained?** * **How do you upload files to a website? Here are some acronyms to get you started:** | |
| **Acronym** | **Definition** |
| SSH |  |
| FTP |  |
| SFTP |  |
| Others…... | |

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| **Other Points of Interest** |
| * **Are there any other interesting features of a website which are not mentioned here? List and discuss them here.** |