**Website Written Assignment - Plan**

This written assignment will allow you to properly plan your website, discuss elements of the website build, and evaluate your experience with this project.

All questions must be answered to meet the criteria needed to pass the qualifications you are taking.

**Guidelines**

* Despite the use of bullet points in this document, bullet points **should not** be used in your report.   
  Instead, answers should be in paragraphs consisting of several sentences.
* Please check that your hosted website works correctly as often websites that appear to work in Visual Studio Code do not work when hosted because a properly hosted website is very case sensitive to page names.
* Please check that you have meaningful alt text present for all **<img>** tags on your website.
* Please replace any place holder text such as Lorem Ipsum with meaningful text before you submit.

**Plan**

1. What is your website about and who is the intended audience?

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| The answer to this question covers: |
| TLM Unit 2 Website Software - Criteria |
| 1.1 I can describe what web site content and layout will be needed for each page |

* + Who is the intended audience?
    - You might not have one (list that if that’s the case), however you may be catering to a certain gender, race, age group etc, if so then list that here.
    - Your intended audience might just be people who also enjoy the content of your website, so for example, other fans of your favourite game or tv show.
  + Discuss the topic of your website, and briefly outline the content you will share.
  + What are your goals with this website?
  + What will your 3 web pages be about and what content will be on them?

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| **Answer:** | The topic of the website is a **coffee shop**, and it is where different types of coffees are available can be purchased for consumption.. There is also a selection of pastries that can be purchased to accompany the coffee, if desired by the customer.  The intended audience will mainly be college or university students and professionals who are commuting to work and are looking for a cheap cup of fresh coffee to satisfy their caffeine cravings.  There are several goals for the website such as: to advertise the business, to attract new customers to the business, and for it to help boost sales of shop products to increase turnover and profit.  The website content will consist of three webpages, which are a Homepage, a Drinks menu page and a Pastries menu page. The Homepage will have the name of the coffee shop which is **Love Latte**, a logo of the shop, a photo of the shop, a welcome message, links to the drink’s menu and the pastries menu pages, and links to social media sites. The drinks menu pages will list the selection of coffee drinks available with an image of each coffee and the corresponding prices. The pastries menu page will list the selection of pastries available, with an image of each pastry and the corresponding price. |

1. Describe how you will use IT to plan and create your website.

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| The answer to this question covers: |
| TLM Unit 1 Improving productivity using IT - Criteria |
| 1.1 I can describe the purpose of using IT in my work |
| 1.3 I can plan how to carry out tasks using IT to achieve the required purpose and outcome |

* + Mention using Google for research
  + Mention the wireframe found in the website brief
  + Mention using HTML to build your website and CSS to style your website.
  + Mention using Visual Studio Code to help you write and test your HTML and CSS.
  + Mention using GitHub to host your website

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| **Answer:** | IT will be crucial in being able to undertake the work of developing a website, as it provides the necessary tools and infrastructure required. These are as follows:  **Google** search will be used for researching purposes. I intend to use Google to research things such as looking at other coffee shop websites for ideas and inspiration, researching of colors and fonts which will help make the website attractive and accessible, research the typical prices of items of coffee and pastries, research for images of different coffees and pastries which can be used on the website, ensuring the copyright restrictions are not violated.  **Wireframe** will be used to establish the basic structure of the webpages before visual design and content and content. It will be used to determine the size and location of the page elements and defines the paths between the pages.  **HTML** is the language that will be used to create the website, with headings, text, images and links.  **CSS** will be used to style the website so the appearance, and I will aim to make the website have consistent presentation, be attractive and accessible.  The **Visual Studio Code** application will then be used to write and test the HTML and CSS codes.  Once the webpages have successfully created, **Github** will then be used to host the website. |

1. Describe methods, skills and resources needed to complete your website-explain what IT systems and software applications you need to be successful in your website project, and how you will use them.

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| The answer to this question covers: |
| TLM Unit 1 Improving productivity using IT - Criteria |
| 1.2 I can describe the methods, skills and resources needed to complete my tasks successfully |
| 1.3 I can plan how to carry out tasks using IT to achieve the required purpose and outcome |
| 1.5 I can select and use IT systems and software applications to complete planned tasks and produce effective results |
| 1.6 I can describe how the purpose and outcomes have been met by the chosen IT systems and tools |

* + Methods could be:
    - Hosting/publishing your website on GitHub so other people can interact with it
    - Planning your website to allow you to know exactly what content needs to be created are where it will be placed
    - Testing your website to ensure it looks right and is useable
  + Skills could be:
    - Using your skills in planning, using the Kanban method on Trello
    - Using your skills in HTML and CSS to build the website
    - Using your design skills, using wireframes to create a good-looking website that retains visitors
  + Resources could be:
    - W3 Schools
    - VSC extensions
    - Similar websites to your own that you took inspiration from
    - Websites you used to get images from (like Pixabay or Shutterstock)
    - YouTube videos or websites you used to help with your learning of code

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| **Answer:** | To complete this website assignment, I would first plan out the structure and content. This involves creating a detailed outline for each page, including the information I want to include and how it will be organised. I will also use wireframes to design the layout of each page. This will help me visualise how the content will be arranged and ensure that it is easy to navigate.  Once I have a clear plan, I can start building the website using HTML and CSS.  HTML is used to structure the content of the website, while CSS is used to style it. I will use HTML to create elements like headings, paragraphs, and links, and CSS to control their appearance, such as font size, colour, and layout. I will use Visual Code Studio to code with HTML and CSS.  To ensure that the website functions properly and looks good, it will be tested on different browsers and devices. Testing involves checking the layout on different screen sizes, testing the links, and making sure that the content is easy to read.  Once I am satisfied with the website, I will publish it online using a hosting platform like GitHub. This will allow others to access and view the website.  To help me complete this project, I will need to use several resources. These include:  **W3 Schools:** A popular online resource for learning HTML and CSS.  **VSC extensions:** Extensions for Visual Studio Code that can help me write code more efficiently.  **Similar websites:** Examples of other coffee shop websites that I can use for inspiration.  **Image websites:** Websites like Pixabay and Shutterstock where I can find free or affordable images to use on my website.  **Online tutorials:** YouTube videos and articles that can help me learn new coding techniques.  By using these methods, skills, and resources, I will be able to create a professional and informative website for the coffee shop. |

1. List the tasks you must do and prioritise them, giving them an ideal deadline that you would like to complete them.

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| The answer to this question covers: |
| TLM Unit 1 Improving productivity using IT - Criteria |
| 3.4 I can respond appropriately to problems with multiple page web sites |

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| **High** | **Medium** | **Low** |
| **Task**: Create homepage layout and website structure | **Task**: Write content for homepage. | **Task**: Add social media links |
| **Deadline**: Day01 AM | **Deadline**: Day03 PM | **Deadline**: Day04 PM |
| **Task**: Develop coffee menu page | **Task**: Write content for coffee pages | **Task**: Test website on different devices and browsers |
| **Deadline**: Day01 PM | **Deadline**: Day04 AM | **Deadline**: Day05 AM |
| **Task**: Develop pastries menu page | **Task**: Write content for pastries pages |  |
| **Deadline**: Day02 AM | **Deadline**: Day04 AM |  |
| **Task**: Create NavBar and test it works correctly. | **Task**: Error checking and corrections. |  |
| **Deadline**: Day02 PM | **Deadline**: Day05 AM + PM |  |
| **Task**: Create footer and test it works correctly. | **Task**: Upload website to Github |  |
| **Deadline**: Day03 AM | **Deadline**: Day05 PM |  |

1. Create a day-to-day plan of these tasks including the breaks you have each day and the duration of your breaks.

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| **Day 01** |
| **Morning tasks**: Create homepage layout and website structure |
| **Break time and duration**: 12.30pm / 1 hour |
| **Afternoon tasks**: Develop coffee menu page |
| **Day 02** |
| **Morning tasks**: Develop pastries menu page |
| **Break time and duration**: 12.30pm / 1 hour |
| **Afternoon tasks**: Create NavBar and test it works correctly. |
| **Day 03** |
| **Morning tasks**: Create footer and test it works correctly. |
| **Break time and duration**: 12.30pm / 1 hour |
| **Afternoon tasks**: Write content for home page. |
| **Day 04** |
| **Morning tasks**: Write content for coffee page and write content for pastries page. |
| **Break time and duration**: 12.30pm / 1 hour |
| **Afternoon tasks**: Add social media links |
| **Day 05** |
| **Morning tasks**: Test website on different devices and browsers + Error checking and corrections. |
| **Break time and duration**: 12.30pm / 1 hour |
| **Afternoon tasks**: Error checking and corrections. Final Testing. Upload website to Github |

1. There are several laws and regulations that influence how we can use technology.   
   These are things we must be aware of when using IT.   
   Ignorance of the law is no excuse.   
   As web developers, two of the most influential laws are the GDPR, and Copyright.  
     
   Describe the legal guidelines and risks that might impact your website project - how does GDPR and copyright affect website development?

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| The answer to this question covers: |
| TLM Unit 1 Improving productivity using IT - Criteria |
| 1.4 I can describe factors that might affect the task |
| 1.7 I can describe any legal or local guidelines or constraints that apply to the task or activity |
| TLM Unit 2 Website Software - Criteria |
| 1.5 I can explain how copyright and other constraints may affect the web site |

* + Write a brief description of what copyright is
    - How does it impact web development?   
      Give an example.
  + Write a brief description of what GDPR is
    - How does it impact web development?   
      Give an example
  + Does it impact your project? Why / why not?
    - Write that if your website wasn’t for educational purposes, you would have to abide by copyright law but that there is an educational exemption which permits limited use of copyright materials.   
      If you were to use your website beyond an educational purpose, you would have to gain permission from copyright owner to use their material.   
      GDPR law however applies to all websites and IT projects that collect user information.   
      If your website does not collect user information, then GDPR does not apply to your website.   
      If you collect any user information, however, you will have to gain the users positive approval (an opt-out option is not sufficient under GDPR).

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| **Answer:** | **Copyright** is a legal right that protects original works of authorship, such as music, literature, art, and software. When developing a website, it's important to be aware of copyright law to avoid infringing on the rights of others. Copyright law can impact web development in several ways. For example, using copyrighted images or content without permission can lead to legal issues. Additionally, using copyrighted code or software without a license can also be a violation of copyright law.  **GDPR** (General Data Protection Regulation) is a European Union law that regulates the processing of personal data. It applies to any organization that collects, stores, or processes personal data of individuals within the EU. GDPR has significant implications for websites that collect personal data, such as contact information, email addresses, or payment details. Websites must comply with GDPR by obtaining explicit consent from users before collecting their data, ensuring data security, and providing users with the right to access, rectify, or erase their data. For example, if  my coffee shop website was to collect customer email addresses for a newsletter, clear consent must be obtained from users and I would have to provide them with information about how their data will be used and stored.  Since my website is solely for educational purposes, I can benefit from the educational exemption to copyright law. This allows me to use limited amounts of copyrighted material for educational purposes without obtaining permission. However, if I were to use the website for commercial purposes, such as selling coffee or merchandise, I would need to obtain permission from the copyright owners.  GDPR applies to all websites that collect user information, regardless of their purpose. If my website were to collect any personal data from users, such as contact information or email addresses, I would need to comply with GDPR by obtaining explicit consent, ensuring data security, and providing users with their rights. |

1. Identify a feature for your website, which add additional functionality to resolve problems.  
   Describe how you are going to investigate your approach to resolving these problems.

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| Additional feature 1: | About page with opening & closing hours information. | Plan of investigation: | Will need to decide how the new page is to be structured within the existing website.  Will need to research how to create a table.  Will need to decide how specific information will be displayed.  Will need to decide where on website the About link is to be displayed. |
| Additional feature 2: |  | Plan of investigation: |  |

1. Describe how you plan to carry out the investigation into the additional features from question 7.  
   Identify the sources of relevant and reliable information you will use.  
   Please add the links of these sources.

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| **Details of your plan:** | For the About page creation, I will research online resources on how to create a simple HTML table. |
| **Links:** | Google: [www.google.co.uk](http://www.google.co.uk),  Youtube: [www.youtube.com](http://www.youtube.com)  W3Schools: [www.w3schools.com](http://www.w3schools.com),  Visual Studio Code: <https://code.visualstudio.com/docs/languages/html> |

1. In addition to the links provided for question 8, look on online forums to discover how others suggest implementing these elements into your website.  
   List the sources of these online forums and please add the links to these sources.

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| **Links:** | How to create Tables with HTML5: <https://www.youtube.com/watch?v=rePYEO_jQxU>  How to create & style tables in HTML: <https://www.youtube.com/watch?v=iuSKGuWWNGA> |

1. Following your research for questions 8 and 9, detail the different perspectives given in the sources.

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| **Answer:** | Tables can be either a data table or a layout table. |

1. From the results of your investigation, explain the most appropriate solution you have found to implement the additional features on your website.

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| **Answer:** | The table style I will incorporate on the website is a data table as they are specifically designed for presenting tabular data. They are easier to manage and update compared to layout tables. Data tables can be styled and formatted using CSS. |