**Develop Coding: Assignment**

**Student Name:**

Q1. Describe the purpose of using IT in creating your website and how you will use IT to plan and carry out the necessary tasks. (How will you plan your website, what audience is it aimed at? How will your use of IT achieve the required outcomes in your plan?)

I decided to make my website about FPV drones which is a personal hobby of mine. The purpose of the website is to provide useful information to FPV drones hobbyists such as; the latest news/developments in the community, resources for things such as how to fix a drone, videos of FPV drone flights.

The key IT tools I used to plan and execute my project were Trello and VSCode. My purpose for the use of Trello was to develop a ‘to do’ list that acted as a task planner to lay out in writing all of the tasks I needed to complete to create my website. With completion of each task, I could move the task card into a ‘done’ list and then I didn’t have to waste any time working out what I needed to do next as it was already in my planned ‘to do’ list. Using Trello gave me a visual representation of how far through my project I was and gave me a rough idea of how long was left till the complete of the website. However, using Trello whilst working solo on a project can feel like a pointless exercise as I mentally know what I need to do next and how far through I am, nevertheless I recognise the importance of developing Trello as a habit for when I work on projects as part of a group and I can’t read the minds of others to know where about in their tasks they are.

I used VSCode to write and develop the script of my project. VSCode is very useful as I could write in both HTML and CSS to create my web pages and develop the visuals of them. It is intuitive and user friendly and I enjoy using it, however the predictive filling in function of VSCode can be frustrating as I didn’t always realise when some code had automatically been filled out and bugs then ensued. Despite this, VSCode will be my go to software for future projects.

Q2. 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 (Describe at least one method, skill and resource needed to complete your website)

I used the following software resources to create my website: Trello, VSCode, and Google. Each piece of software required me to have the skills and knowledge to effectively use them. Trello was used as my method for planning out how I would execute my website task by task and then acted as a visual representation of how far through completion of my project I was. VSCode was my method for writing the script that would enable my website to work, this was arguably the most crucial application for the completion of my project as without it I would not have had anywhere to write and run my code. Lastly google was my method for researching code that would enable certain aspects of my website, for example how to center align titles, images and text. I also used google to source images and videos that became part of my website. My own researching skills were utilized effectively for this to find answers to questions/issues quickly as to not sway too far off my planned timeline for project completion.

Q3. Describe the legal guidelines and risks that might impact your website project - how does GDPR and copyright affect website development?

The legal guidelines and risks that may affect my project are GDPR and copyright. GDPR is the regulation that enhances individuals control and right over their personal data. To minimize the risk of breaching GDPR regulations within my website, I would need to include a privacy policy that includes information on how my website was collecting and using viewer’s data. To ensure this was easily locatable for users, I would keep my privacy policy within my website footer.

Copyright protects specific classes of work. Although copywrite cannot protect a whole website, it can protect certain elements that may be used within a website such as images, videos and original literary works (website text). Within my own website I downloaded and used images off google, and videos off youtube. In order to protect myself against the risk of copywrite infringement for things used within my website that were not of my own creation, I would need to seek written permission from the original creator to use their content within my website. As my website is an educational project, copywrite will not affect me.

Q4. Review the ongoing use of IT tools you have used for your website and describe whether they are appropriate - what are the benefits and drawbacks of IT tools and systems used? (Are you happy with the tools you used?)

I used multiple tools to create this project. Those tools were: Trello, VSCode, Slack, Github.

The positives of Trello was it visually broke down each individual task required to complete my website and showed me what else I needed to do once one task was complete. The drawback of Trello is it can be a laborious task when working on a solo project, however I recognize the importance of it for group projects.

The positives of VSCode was it allowed me to write and experiment with my HTML and CSS script that formed the basis of my website. The negatives of VSCode was the predictive text function that on multiple occasions created bugs in my code when I hadn’t noticed thing such as extra speech marks etc. The debugging required because of this took up valuable time and delayed the completion of my project.

Slack was used for educational resources that I used to develop my skills in code writing. The benefit of slack was my tutor could provide educational resources to help me find the answers to issues that I came across which helped me develop as a coder. I did not identify any drawbacks of slack.

Github was used for uploading my website. The benefit of github is I could use it upoad and make my website live. The negative of github is it is not intuitive to use without direction from other experienced users.

Q5. Describe how you would test your website to make sure it looks as intended. What kind of files have you used in your website and explain why you have chosen those filetypes. How can you test your website to ensure it is accessible to people with disabilities? Describe how you can overcome potential accessibility issues with your website

I used live server to test my website by having my website open on google chrome whilst I worked in VSCode writing the script. This was very useful as I could visually see how my website changed when I added and edited lines of code. Without the ability to do this, I would not have known if my website would work when I uploaded it to github. In addition, live server enabled me to see whether certain image types and links would work within my website for which I used .jpg images within my website as I could see that they worked via live server. Other file types I used were .html which formed the content of my website pages and then .css files which affected the visual aspect of the content.

To overcome accessibility issues within my website I used alt image tags that could be used by screen readers for visually impaired users. To test this, I could use a screen reader myself.

Q6. Describe ways to improve your productivity and efficiency throughout this project (how can you make sure you are using IT tools and systems in the most effective way?) If you could have been more productive or efficient, how would you implement this for a future project?

Q7. Describe the final version of your website (what is the content and layout for each page?), assess the strengths and weaknesses and describe further improvements you can make to your website. Is the website fit for purpose? (did you achieve what you set out to do in your plan?)

Q8. Take a screenshot of your website homepage working in two different browsers. (Make sure the GitHub Pages link is visible in the screenshot).

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| **Develop: Coding - Assignment Mapping Document** | | | | | | |
| **Questions** | **Q1** | **Q2** | | **Q3** | | **Q4** |
| TLM Criteria | 1.1.1, 1.1.3, | 1.1.2, 1.1.5, 1.1.6 | | 1.1.4, 1.1.7, 2.1.5 | | 1.2.1, 1.2.2, 1.3.1 |
| **Questions** | **Q5** | **Q6** | | **Q7** | | **Q8** |
| TLM Criteria | 1.3.4, 2.1.6, 2.1.7 | 1.3.2, 1.3.3 | | 1.2.3, 1.2.4, 1.2.5, 2.1.1, | | 2.3.1 |
|  | | | | | | |
| **Website** | | | | | | |
| TLM Criteria | 2.1.2, 2.1.3, 2.1.4, 2.1.8 | | 2.2.1, 2.2.2, 2.2.3, 2.2.4, 2.2.5, 2.2.6 | | 2.3.2, 2.3.3, 2.2.4 | |