Develop Coding: Assignment

Student Name: Michael Davis

For each question which includes ‘describe’ or ‘review’, write at least a paragraph

worth of content to explain your answers. Include any other relevant evidence where

appropriate, i.e. links or images.

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 will use IT to create a website featuring articles about interstellar objects. The website will be written in HTML and CSS on the Visual Studio code IDE. This website will be aimed at people who are not from a scientific background and by using easy to read diagrams and explanations will tackle complicated scientific topics and distil them into an easily accessible and understandable form.

I will plan my website by using a Kanban board on Trello. This will allow me to efficiently pace my workload until the deadline by setting a number of smaller deadlines for individual tasks. I am confident in the power of Kanban as I have used it previously in a group project situation. Having a solid grasp of time management is of the utmost importance in this solo-project as there is no one else to pick up on my weaker areas. By using Kanban I plan to allocate more time to tasks that I know I will struggle more with, such as styling with CSS.

Finally, I will be using IT to research the necessary material for the articles using websites such as google scholar to search for scientific papers.

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)

A method I will use to complete my website is creating an outline diagram to make an initial plan of my website using draw.io, this will let me know what needs to be done and so what tasks I need to add to my Trello Kanban board.

A skill I will use to complete my website is of course technical coding skill. I will need an understanding of the use of HTML and CSS code in building a fully operational website. Another skill I will need to use to bolster this is research. While beginning with a small amount of technical knowledge, in order to complete my website to a standard that I’ll be satisfied with I will need to independently research HTML and CSS code using online resources such as google searches and W3schools to learn about more advanced concepts I will utilise to make a good website.

Another resource I will be using to complete my website project is Andy and Leon at CodeNation who can provide expert one-to-one advice and answer any questions I have about this project.

Q3. Describe the legal guidelines and risks that might impact your website project - how

does GDPR and copyright affect website development?

While probably not particularly relevant to this particular project understanding legal guidelines and risks that impact web development is very important.

Adhering to copyright means that I will attribute any image that I do not have permission to reuse to their copyright holder. Failure to do this could result in the copyright holder asking me to take down the image or even going as far as taking legal action against me. In my website I plan to draw up a few diagrams of my own and make use of royalty-free images to avoid these risks.

GDPR or ‘General Data Protection Act’ is law which was put into place by the EU on 25th May 2018. It is concerned with the protection of online user’s personal data by giving them greater control over what third parties can have access to. I will not be collecting anybody’s personal data for my website and so I don’t have to worry about GDPR in this particular project. Failure to comply to GDPR can result in fines.

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?)

Q5. Describe how you would test your website to make sure it looks as intended. Describe

what kind of files 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.

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).

[1] (https://gdpr-info.eu/)