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Q1.  Describe how you are going to use IT in creating your website.

In using IT for my website, I will need to plan out the layout and design of the website using Draw.io. Creating the diagrams of each page within the website will help me to determine the overall look and feel, as well as the different elements that will be included on each page. Next, I will need to use HTML and CSS to actually create the website. HTML will be used to structure the website and add content, while CSS will be used to add styling and formatting to the website. This will involve writing the code in Visual Studio Code. I will then need to test the website to ensure that it functions properly and is easy to use. Additionally, creating a website offers many benefits over more traditional forms of media. Websites are easily accessible from any device that has an internet connection, making it easy for others to access the information that is shared on it.

Q2. How will you use IT to plan the steps you will take to create your website? Describe the website you are hoping to achieve.

First, I will need to determine the focus of the website, which will be to showcase my skills and experience. This website will be for employers who want to learn more about my background. To achieve this goal, I will need to include information such as a portfolio of my projects I have completed, and contact information on the website. I will also need to create a user-friendly and visually appealing design that is easy to navigate and showcases my work in a professional manner. To plan out the website and tasks, I will use tools such as Draw.io to create diagrams of the website's layout and design, and Trello to create a list of tasks that need to be completed in order to create the website. I will use Trello's Kanban board feature to organize and prioritize tasks.

Q3.  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

One method that will be important for completing the website is thorough planning. Aside from that, testing will be one of the most important methods for completing the website. This will involve using the web browser and going through every possible scenario the user could go through to ensure no issues arise. Uploading the website on to GitHub is also another method that I will do, however this phase only commences once testing has been completed.

In terms of skills, there are several that will be important for completing the website. These include my skills in HTML and CSS, which will be used to structure and style the website. I will also need to have strong design skills in order to create a visually appealing and professional looking website.

As for resources, there are several that will be helpful in completing the website. These could include online tutorials and reference guides such as W3 Schools and MDN by Mozilla. I may also use Visual Studio Code's extensions to assist with writing and organizing the HTML and CSS code for the website. If working with images, I may use a free image editing tool such as Canva.

Q4.  Describe the legal guidelines and risks that might impact your website project - how does GDPR and copyright affect website development?

The General Data Protection Regulation is a regulation on data protection and privacy for all individuals within the European Union and the European Economic Area. It also addresses the export of personal data outside the EU and EEA. The GDPR aims to give individuals more control over their personal data. In terms of web development, the GDPR requires websites to be designed with data protection in mind from the start. This means that developers need to take steps to ensure that personal data is collected and processed in a way that is compliant with the GDPR.

One example of how the GDPR affects web development is the requirement for obtaining consent from the user before collecting their personal data. This means that websites must have clear and transparent policies for collecting and using personal data, and must provide the user with an easy way to withdraw their consent at any time. To meet this requirement, developers may need to implement features on their website such as a consent form or a cookie consent banner. The GDPR does affect my project as my website may collect personal data from the user if they decide to contact me, thus sharing their information with me.

Copyright is a type of legal protection that grants the exclusive rights to the original creator. This can include anything from music to software. Copyright law gives the creators the right to control how their work is used and distributed, including the right to reproduce, distribute, perform, and to create inspired work based off their originals. Copyright protection is automatic, meaning that as soon as a work is created and fixed in a tangible form, it is protected by copyright and typically lasts for a certain period of time from when the work is publicly released. Copyright law can affect web development in a number of ways. For example, if a developer creates original content for a website, such as text, images, videos, or code, that content is automatically protected by copyright. This means that other people cannot use that content without the developer's permission, unless the use falls within one of the exceptions to copyright, such as fair use. One example of how copyright can affect web development is the use of open source software. Open source software is software that is available under a license that allows for free reuse and modification by anyone. When it comes to my website, copyright will not come into play as I will not be using content made by any other people.

<https://en.wikipedia.org/wiki/General_Data_Protection_Regulation>

<https://www.investopedia.com/terms/c/copyright.asp>

(Used these links for research)

Q5.  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?

In creating my portfolio website, I have used several IT tools/resources, including Visual Studio Code, Trello, Canva, Photoshop, and W3 Schools.

Visual Studio Code is a code editor that allows me to write and edit code for my website. Some benefits of using this tool include its intuitive interface and its support for multiple programming languages. One potential drawback of using Visual Studio Code is that it can be overwhelming for beginners, as it offers a wide range of features and customization options.

Trello is a project management tool that I used to track the progress of my website development. Some benefits of using Trello include its user friendly interface, its ability to create and manage multiple boards, and its support for collaboration with other team members. A drawback of using Trello is that, unlike my project, it may not be suited for more complicated projects.

Canva is a design tool that I used to create the logo for my website. Some benefits of using Canva include its wide range of templates and design elements and its ability to export graphics in multiple formats. It is also very easy to use for people that lack experience in graphic design. A disadvantage of using Canva is that it may not have as many advanced design features as other tools, such as Photoshop.

Photoshop is a professional image editing tool that I used to re-size some of the images I have used for my website. Whilst it was not necessary, as there are beginner friendly tools that can provide the same service, I have some experience in using the program. The benefits of using Photoshop include its powerful and sophisticated tools for editing images and its support for advanced image manipulation. The definite drawback of using Photoshop is that it can be complex for beginners, with a steep learning curve.

W3 Schools is an online educational resource that I used to learn and reference web development techniques and technologies. Some benefits of using W3 Schools include its comprehensive and up to date content, its interactive tutorials and examples, and its support for multiple programming languages. The drawback of using W3 Schools is that it may not suit people who learn quicker with in person learning.

Q6.  Describe how you would test your website to make sure it looks as intended and shows you have considered accessibility issues for people with disabilities.

I would test the website on a range of different sized windows. This will help me ensure that the website is responsive and looks good on different screen sizes and resolutions. Test the website using different web browsers, such as Chrome, Firefox, and Microsoft Edge. This will help me ensure that the website looks and works as intended on different browsers.

To show that I have considered accessibility when designing each page, I would make sure to include alt text on all images, use high contrast colours for text and background colours, and ensure that all links and buttons are easily recognizable and can be easily clicked. I would also make sure to use clear and concise language, and to structure the page in a logical way.

If any issues are identified during the testing process, I would make the necessary changes to the website to address them. This might involve adding alt tags to images, changing the colour scheme, or restructuring the page to make it more accessible. Overall, the goal of testing is to ensure that the website is accessible to as many people as possible, regardless of their abilities or disabilities.

Q7. What kinds of files have you used in your website and explain why you have chosen those file types.

During the development of my portfolio website, I have used the following file types: HTML, CSS and PNG. I have used HTML to structure the content and layout of the website. HTML allows me to add elements such as headings, paragraphs, lists, and images, and to specify how they should be arranged on the page. Using HTML is a standard language for creating websites.

CSS comes in to add styling and design to my website. CSS allows me to specify things like the font, colour, size, and position of elements on the page, as well as more advanced effects like hover states and animations. CSS is normally always used alongside HTML as they both integrate with each other

PNG files are for the images on my website. PNG is a popular file format for images because it supports transparency, allowing me to create images with transparent background. I chose to use PNG files because they provide high quality images that can be easily resized without losing quality.

Q8.  Describe ways to improve your productivity and efficiency throughout this project. If you could have been more productive or efficient, how would you implement this for a future project?

* Discuss your project management
* Evaluate your use of Trello and Kanban – did you find this methodology useful?
* Suggest improvements for your efficiency. What would you do differently on a future project? This could include installing more extensions to VSC, planning your website differently, changing your set-up, etc

Q9.  Assess the strengths and weaknesses of your website and describe how this could be improved if you had more time to develop it.

* Discuss at least two aspects your website that you think work well, and why
* Discuss one weakness of your website
* Explain how you would overcome this weakness if you continued in the project
* Discuss any other changes you would like to make to the website

Q10 Describe your final website and assess if you have achieved what you set out to at the start.

* Discuss the layout, pages, and content of your website.
* Does it match your original plan? If not, why?
* Does it fulfil its purpose? If not, why?

Q11.  Take a screenshot of your GitHub website homepage working in two different browsers.