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As part of your assessment, you are required to answer the following questions (in your own words) in relation to your website project. Please write a minimum of 5 sentences for each answer, and respond in complete sentences (not bullet points, or fragments.) If you use an external website for research, please reference or cite the source of the information.

Text in blue is to help you with your answer, and should not be included in your response, or used as “subheadings”. Please delete blue text from your final submission.

As a starter, use the question to answer the question. For example:

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

“I am going to use IT in creating my website by.....”

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

I am going to use IT in creating my website in lots of different aspects, not just on the practical side but on the planning side of things. I am going to use Notepad and a Trello board to make the initial plans for my website, with the Trello board being able to break down my steps and show my progress. I’ll be using the internet to research techniques that I will need to use in my website. I will be using Visual Studio Code to code in HTML/CSS. A website is a lot better for sharing information over tradition forms of media, as a website can be updated with current/new information, whereas a traditional type of media such as a book can only be revised with a new print, leaving people with the first editions with older and out of date information.

* Discuss how you will need IT to plan, make and test your website
* Discuss the tools you will use in this project
* Discuss the benefits of making a website to share your information over a more “traditional” form of media. How does IT make creating and sharing easier?

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.

My initial ideas are going to be thrown on a notepad document to brainstorm, with the Trello board then refining the ideas and laying out each aspect of the website that I need. The Trello board will be able to show progress through ‘to do’, ‘doing’ and ‘done’ categories, which I can move my plans to and from. I am hoping to create a website for a local non-league football club that I volunteer at, Abbey Hey FC. I want to have a simple home page, which will act as a welcome. I then want a page that shows the current league table, with champions, playoff, relegation, and Abbey Hey FC all highlighted in a way. My third and final page will be of fixtures and results from the 2022/23 season.

* Discuss the topic of your website, and briefly outline the content you will share. Who is this website for?
* What are your goals with this website?
* How will you plan out your website and tasks? (Trello for task management using Kanban, Draw.io for a wireframe, etc)

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

The methods I will use to create the website will be quite straightforward. I will begin by planning the website, before moving on to research to learn a develop my HTML/CSS skills and collecting images/videos I need for my website. Once I start creating the website using VS Code, I will then regularly test the website to make sure the code is doing exactly what I wanted it to do, and make sure that I go back to resources if anything isn’t working how I’d like it to.

* A method is something that must be done for the project to be completed. Examples include uploading the project to GitHub so it can have an audience, testing your website to ensure it looks right and is useable, planning your website thoroughly so you know your goals, etc
* A skill is something you can do to make the process easier. Examples include your skill in planning, your skill in writing HTML or CSS, your skill in design to create a good-looking website that retains visitors
* A resource is an external thing which will make the process easier. Examples include W3 Schools, resource websites like Pixabay or Shutterstock, and any VSC extensions you may install.

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

GDPR (General Data Protection Regulation) is a law that protects the privacy and data of people browsing the internet. It is enforced in the UK through the Data Protection Act 2018. GDPR impacts web development by requiring websites to obtain explicit consent from visitors before collecting their personal data. If an individual or company didn’t abide by these rules, they could be fined up to £17.5 million or 4% of a company’s global turnover for serious breaches of regulation. This would apply to my website if it were to ever be hosted publicly, as it would apply to every other website made in the UK.

Copyright is a legal right that gives creators of original works control over how their works are used and distributed. Copyright impacts web development in the UK by requiring web developers to ensure they have permission or a license to use copyrighted materials on their websites. For example, a web developer who wants to use an image on a website must either create the image themselves, obtain permission from the image’s creator, or purchase a license to use the image from a stock image website. Failure to do so can result in legal action for copyright infringement. This would impact my project if it ever went live, as the background video that I’ve decided to use is from a Manchester City video, so I would therefore have to get permission from them to use this.

There are a number of laws and regulations that influences 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. Discuss:

* What is GDPR?
* How does it impact web development? Give an example
* Does it impact your project? Why / why not?
* What is copyright?
* How does it impact web development? Give an example
* Does it impact your project? Why / why not?

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?

The IT tools that I have used for my website so far have worked well for me. Using the Trello board, I’ve been able to visually mark where I am up to with different ideas by being able to move my ideas between different segments, rather than relying on memory to see my progress. The only issues I have had with Trello are that its user interface can be a little fiddly at times. VS Code has been essential for coding my website. VS Code is a sort of hub where I’ve been able to keep and write the HTML and CSS code for my website. The Live Server add-on means I can preview my website very quickly in Chrome and once it is open I can jump between VS Code and the preview instantaneously, being able to see updates right as I’ve made them and saved my HTML/CSS documents.

Review the software and apps you have used in this process. State what the tool was, what you used it for, some good points about it, and at least one negative. As a minimum discuss Visual Studio Code and Trello.

Ensure you are focused on discussing the tool, and not necessarily how well you used it.

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.

To test my website, I would first save my file. Initially I would use the Live Server extension to ‘Go Live’, but after that I could just keep my website open in Chrome and it would update as I saved any changes that I made to the code. I constantly made sure throughout designing the website that the text was legible, as when there’s lots of information such as a league table and fixtures, these need to be as clear as possible for the reader as the main purpose of the website is to gather this information. There were often times where I found that my font and table colours clashed too much, so this was changed around quite a lot. I’ve made sure to include alt-text for the images on my website to help with the website being accessible to people.

* Explain how you tested your website, and what you were testing for
* Discuss things you did to show you had considered accessibility when designing you page, and mention any changes you made as a result of this testing

Q7. What kind of files have you used in your website and explain why you have chosen those filetypes.

For the coding of my website, I have used three individual HTML files for the three pages on my website, and three individual CSS files for each page. The HTML files include all of the information available on my website, whereas the CSS files were used to style the information in the HTML file to make the website better to look at. For my header and footer images of the Abbey Hey FC badge and the NWCFL badge, I have used PNG images, as the extension allows for transparent backgrounds, rather than having white squares surround my images. For the background I have used an MP4 video. I chose the MP4 format as it seemed like the most compatible video format with browsers, rather than a niche one that may not show up on certain browsers.

* Detail the file types you have used in this project (HTML, CSS, any image extensions used)
* Explain what you used each for, and why. Think beyond “because I was told to use this file type.”

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?

I think I could have taken a couple of different steps to improve my productivity and efficiency through my project. With my Trello board, I feel like I could have broken down the different aspects of my project even more rather than grouping them in bigger categories. I think something that could have helped massively would have been to very simply draw out a plan for each page using Photoshop or even just something as basic as MS Paint as I feel like I would not have had to go and make so many changes as I went along if I knew the positioning and size of the elements that I wanted on my website. I also found that using dual monitors was very useful throughout the project as I could set my VS Code on one screen and website on the other.

* 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.

The biggest strength of my website is that it provides all of the information that I wanted to provide on it in a way that can be easily read. I wanted people visiting to be able to read the league table and fixtures without any confusion, and I believe that I’ve been able to create something that makes that possible. I think that the use of the PNGs and MP4 background of the website make the website look very clean and of a high quality. You can often see websites where there are pixelated images or images that are not cropped properly, but I feel like I have presented mine well.

My least favorite part of my website is the homepage. I was unsure what more information I could display on this page that wouldn’t be on my other pages, so I feel like it is too basic. If I continued the project, I’d look at what other elements I could add to this page to make it more ‘useful’. With more time I would add more pages to the website as three is not too many.

* 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.

My final website has achieved everything that I set out to achieve at the beginning of the project. The main reason somebody would visit a website of a football team is to see the league table and to see the upcoming games and the results achieved that season. I provide all this information and lay it out in a way that I think is easy to digest. I would say that the website mostly matches my original plan, with all the content that I wanted in it, but certain stylistic elements now look different from when I first imagined, purely as I have tested and made improvements throughout.

* 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.