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**Develop Coding: Written Assignment**

**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.**

My website is based on the text-based adventure game we made previously in python it’s called ‘Invazion’ it’s an alien apocalypse inspired survival game with multiple choice scenarios that impact you as you progress throughout. I used HTML and CSS to build a four-page website that allows users to download the game code and play it for themselves. These pages include a homepage that welcomes the user to the site and gives a brief description of what the site is intended for, an ‘about us’ page that explains the games story and what the inspiration was behind it. Also, there’s a ‘downloads’ page where the user can download the game code directly using a text hyperlink. Finally, there’s a ‘Contact Us’ page where the user can contact me with general enquires. This is done in the form of a text hyperlink that allows the user to email me. My intended audience is for children / young adults that enjoy gaming and alien inspired fantasy. I’ve sourced images and ASCII art that have been applied to my website to make it more appealing and more relevant to the games theme.

**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.**

Various methods, skills and resources were used throughout my project, websites such as Trello were used to plan ideas and help me keep on top of any issues I was having. It gave me the ability to write down the bugs/errors that I received and think of a solution before finally attempting to fix them, this also allowed me to come back later and know what I’d been up to previously and what needed completing.

I also used GitHub to publish and host my website so other could see what I had made, and they can visit the site themselves.

I used Visual Studios to create the website using various HTML files and a CSS file. HTML code was used to markup my website and add text and images. I used various tags such as <div>, <a>, <p> and defined classes and IDs to create flexboxes, hyperlinked text and add images to my website.

CSS was used to style and layout my webpage. I added many elements to my site and text, such as various font changes like color, style and size. Also, I added a hover effect that would highlight text in another color when the cursor was hovering over it to signify hyperlinked text; examples of this is used in my navigation menu and code download links.

Helpful resources I used throughout my website include websites such as:

* ‘**https://online-image-resizer.com/**’ – this is an online tool used to resize images so they can fit more easily within your website
* ‘**https://patorjk.com/software/taag’** – this is another online tool used to create ascii art from text input, an example of this is my Invazion logo in the center of my navigation menu.

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

Original pieces of work are covered by copyright. It can vary from images to music etc. It is against the law to use and distribute copyrighted material without the permission of the person who created it.

* The symbol © represents copyrighted material, however original work is still covered without it.

GDPR (General Data Protection Legalisation) is a European law that governs the way we process, use and store personal data. It allows for the privacy of user data and the way its managed by companies.

The images and information used in my project are for educational purposes only, therefore protected by the fair use policy which allows the limited use of copywritten material without permission from the copyright owner. However, if my project wasn’t for research, teaching or other educational reasons I would have to abide with GDPR laws and ask the owner of such material if I could use their work in my project.

**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?**

I have used multiple tools/websites to help plan and process my project. Trello was used to plan my website, which allowed me to take notes, write down ideas, helpful websites and bugs/errors that needed fixing. It was helpful to keep track of where I was up to and what needed doing. This was only a small project, there was no need to make use of all Trello’s advantages, however if this project was made by multiple individuals working together Trello would help keep everyone up to date with one another and write down ideas simultaneously.

Visual Studios (VS) was used throughout my project to code the HTML and apply CSS. VS was very helpful because it provided timesaving/ productivity features, examples of these types of features included IntelliSense suggestion, which help recommend several code-completion features. This helps you to get a better understanding of the code you are using and keep up to date with things like parameters and adding calls to properties in a few clicks. On the other hand, VS takes high memory and CPU consumption which leads to slow processing, also installations and updates may take awhile to implement. Overall VS was a great experience and helped me get a better understanding of coding.

Finally, Slack was very helpful throughout my course, to keep in touch with my everyone, mainly instructors that I would message If I needed help or had any questions about the assignment. Also, to have all the course materials and assignments in one place helped keep track of what we had to do and what needed completing. I don’t think there were any disadvantages to using slack as communication and feedback is key, and slack provided that without any issues.

**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.**

I used ‘LiveServer’ to test my website, this extension allowed for a temporary server to be build that would host my website and I could see changes being made to my site as I saved my code in VS, this helped make sure what I was writing was correct and ran properly on my site. File types such as HTML and CSS was used to write my html code and directly link it to my CSS stylesheet. I used various .jpeg and .png image types to style my website by adding things such as a favicon and other images to make my site look presentable. I used outlines and bold font styles on headers and titles to make text stand out and added text shadows to implement that even more this would make it more accessible for users who have impaired vision. I decided I wanted to keep my background white to make a cleaner and more professional looking site, this also helped other elements on my site stand out.

**Q6. 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 could have been more productive if I was learning by myself and not as a group because if someone is struggling it slows down the whole process for everyone else whereas I could be getting onto learning other aspects in that time. Also, If I had a better computer, as Visual Studios and having other demanding software open on my computer causes slow speeds and slow processing times.

**Q7. Describe the final version of your website, assess the strengths and weaknesses  
and describe further improvements you can make to your website. Is the website  
fit for purpose?**

My final website is based on my game I created in python, which is an alien apocalypse inspired survival game, it includes a homepage, about us, downloads, and a contact us page.

I included a navigation bar that consists of my game title in ASCII art as an image and two other smaller images of aliens on either side of the navigation menu.

On the homepage is some welcome text that invites the user to the site and gives a brief description of what the site is about. I’ve added an image at the bottom of some aliens that is relevant to my games theme and story.

On the about us page I included a description of what the game is about and the backstory as to what inspired us to create the game.

Downloads includes a link to my project so user can play it for themselves and give me feedback on what needs improving/fixing. I added a text hyperlink that allows the user to click it and be directed to the file.

Finally, on the contact us page it includes another hyperlink that allows the user to click it and be redirected to their email where my email address will be filled in and ready to send an email too. Also, I included a contact form that allows the user to fill it in, to log the user input it requires knowledge of PHP, and this course doesn’t involve it so I just added the form for presentation purposes.

**Q8. Take a screenshot of your website homepage working in two different browsers.**

1. **Firefox**

Text

Description automatically generated

1. **Microsoft Edge**

Text

Description automatically generated