6G5Z1108

**Professional Development**

1CWK100: The Professional Project

**Reflection**

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| **Group:** | 10-Carbon Footprint Calculator |

# Your Project

**Tell us how you felt leading up to, and during, the completion of the Project Preferences Process:**

I simply spent the relaxation time analysing all the project’s alternatives and was ready anxiously to peer what a project I might be assigned to, and I was so worried about who was going to be in my group project because I knew that they would allocate us randomly. I have done quick research for three projects that I have chosen to preference process. It was a wonderful and disturbing feeling at the same time.

**Tell us how you felt after it was revealed which project you had been assigned to:**

My initial feelings were not bad when they released the project that I was assigned to do with my group. I was a little bit nervous, and I had a positive feeling as well, as I knew my group project lists, and among the three options that I chose, I wished to get the first option, which was the carbon footprint calculator. Indeed, my expectations were met, and I got the project I chose. I felt I had won before the start of the project.

**If you were to go through a selection process like the Project Preferences Process again, how do you think you might approach it differently?**

If I go through the project preferences process again, I do not rush, do extra research, take my time, and relax, because I am always willing to learn from my previous mistakes. Because time is running fast, next time I will go through the project preferences as soon as possible, not wait until the end of it.

**Did you manage to complete a minimum viable product, as defined by your team’s own objectives, that met the brief you were given at the start of the unit?**

We achieved our initial expectations

**Have you enjoyed working on your project? If so, what were the most positive aspects? If not, how could you have approached your project differently?**

I really enjoyed working on our project as a team because we had a strong communication channel, we treated each other with a lot of respect, and we always shared our opinions.

**Can you think of a time in your project when something went wrong, or when you did something in a way you should have done differently? How did you resolve this?**

One of our group members did not reply to us when we sent him an email to join us. However, he accepted the Trello invitation link and Discord, but he never replied to our emails, and I even contacted him via Microsoft Team. So, we skipped him and worked on our project as normal. We split up our team into small groups, with one group responsible for the front end, the other group for the back end, and the last group was responsible for project management. However, we were as a group or individual, hadn’t had any major problems working on our project, but after Easter break, we came back with less power and our performance was not like when we started the project. So, in the future, if I fall into a similar situation, I am supposed to work harder even if I am on break. Communication and the exchange of opinions are the keys to success in every project.

# Your Team

**Which of the stages of team development (Tuckman, 1965) do you think your team spent the most time in?**

Norming

**Why did you choose this phase?**

We started working on our project more effectively as a team, and we managed everything quickly and efficiently and cooperated positively, but after Easter break, we ended up with a little bit of confusion because we split up our group into a Back-End team and a Front-End team for the implementation stage. We were responsible for managing the Front-End, and we decided to use JavaScript to set up the calculations, but the Back-End team preferred to use the PHP language for calculations. We spent a lot of time fixing this issue, but in the end, we decided to use PHP to bring everything together and come up with the final product.

**If your team worked well together, what do you think contributed to its success? If your team didn’t, what do you think were the problems?**

As a team, we have completed our project successfully because of the quality of the teamwork, commitment, participation, effective communication, and cooperation; and among these factors are follow-up and appreciation of timing. Our project management was managed in a flexible way; the tasks were distributed in a smooth and clear manner.

**Did your team adopt individual roles for each person? If so, what was your role, and how did it help shape your contribution to the project? If not, do you think the lack of roles helped or hindered your teamworking?**

As a team, we began our project by means of adapting character roles for every member, and I assumed this technique turned out to be beneficial, especially in the necessary evaluation and design stages. We started by creating individual designs for each of us, then we discussed which one would be suitable for the final product. Once we agree on the design, we will take it to the next level, which will be the implementation. I was responsible for the front-end design, but before I start, I must decide which technologies or programming languages I should use, because I already have experience with HTML, CSS, and JavaScript, and we agreed to pick which one to be implemented. After that, we all agreed to use HTML and CSS. JAVASCRIPT, I began by creating the second stage prototype front-end design.

**How has the Professional Development: Professional Project affected the way that you might approach teamworking in the future?**

This project has closely affected the manner that I will method project management in the future. The primary component that I was taught via way of means of this revel in is that obtaining a good shape to paintings from is the maximum crucial component in a project to get proper earlier than you move onto the product itself. Nearly all our problems might have been solved if we had put ahead of the right time frames and project control shape from the start. If we had completed that we’d been capable of making amends for the unexpected occasions that occurred, and we’d are becoming out of the storming section of the project, even if by no means were given to the acting level of the project, we’d have nonetheless been capable of being amicable with every different and gotten a first-rate product delivered. It might have given me the hazard to spin the shape we ought to have applied as opposed to simply from a peer. This might have problem eased the tensions among unique those who had unique thoughts about the way the project ought to be managed. I might be capable of conveying ahead real enterprise practices from somebody who works with them on each day foundation as opposed to simply looking to determine in a different way. In destiny teamworking I will attempt to prioritise matters with the aid of using making plans out the vital responsibilities so, it is able to be easy to control a teamwork environment. With the aid of using prioritising the work, I will assist my crew individuals to do the same. It is a beneficial manner of decisions.

# Your Project Management Approach

**How did you and your team communicate, and how did everyone know what they needed to work on? Did you use any tools or techniques? If so, how did those tools and techniques benefit your project (or otherwise)? If not, why not?**

My team and I used Trello and Discord to communicate with each other. Therefore, the use of these methods shall enable all and sundry within the team to recognise which project has been accomplished. I suppose Trello played a simple role in our project by allowing the team to drip messages. Sharing documents and screenshots of what we have done or not. The widely important tools assist the team to maintain assembly using Backlog, To Do, In Progress, and Finally Done. These tools help you to know what your mission is and what you should do next.

**How did you and your team manage key milestones and deliverables? Did you use a development methodology? If so, how did that methodology benefit your project (or otherwise)? If not, why not?**

We settled on a loose Agile project management structure, which had helped us on:

* Allows freedom to work independently.
* Frequent iterative stages encourage group discussion.
* Initial responsibilities divided efficiently.
* Everyone has his own space to contribute and later, collaborate.
* Adaptive nature lends itself to short development time.

**How did you and your team manage sharing of key project content (e.g. source code)? Did you use a version control system? If so, how did that system benefit your project (or otherwise)? If not, why not?**

**We used Discord to manage and share our project source codes. It is an easy method to use but is less functional than GitHub. Unfortunately, we haven’t used any version control system. Because I have never used it before, it will take time to understand how to use it, and this might affect our project progress negatively.**

**How did you and your team manage unexpected and unforeseen challenges? What role did you play in helping your team to cope in challenging circumstances?**

**We have done everything perfectly, especially in the design stages, but we faced an unexpected challenge in how to link all the pages together to get the result page. We discovered this issue at a very late time in our project, so that means we must fix this problem quickly, otherwise we will struggle to finish the result page. We decided to use JavaScript because we were Front-End developers, and the other team, which was responsible for Back-End development, preferred to use PHP to fix the issue, and we agreed to use PHP because it is easier and faster than JavaScript.**

**How has the Professional Development: Professional Project affected the way you might approach project management in the future?**

Professional development taught me how to properly organise and manage my projects, not only in the current project but also in the future. Therefore, the future project, which will help me in the final year project, I will start my project by following one of the project management methodologies such as Trello to organise my project, which will give me a clear definition of a way of working. Using Trello will help me to have solid planning. Then I can do my project once and do it the right way rather than rolling back. So, I will gain more confidence that I can complete each task before leaping to the next task, so I will avoid overlapping the tasks. The project management that I have done with my team recently gives me a clear image of how to manage my project in the future smoothly.

# The Presentation

**Looking back at the presentation, how do you feel your team performed? Would you do anything differently if you had to present your project again?**

As a team, we were so proud of our presentation because we simplified it and we exchanged roles in presenting it. I learned a lot of positive things from our presentation. I will use the same technique that we presented in our presentation in the future, and I’m satisfied with it.

**What were the main contribution, or contributions, you made to your team’s presentation?**

My main contributions to my team presentation were the front-end design slides and ethic consideration. However, I stood with them while they presented the presentation, but did not get involved in presenting any parts of the presentation. In the last hour before the presentation, I was in the training room with my team, and we were sharing opinions on how to gain confidence enough to come up with the best presentation.

**How has your team’s presentation affected the way you might approach presentations in the future?**

The usage of presentation guides allows for a much more fascinating speech, and the development of such guides can help me gain confidence and motivate me to adjust to new situations and public speaking. Knowing how to give a good presentation can also help me in a variety of situations, including job interviews, making new acquaintances, and introducing myself to others. This will assist me to hold my audience’s attention.

# Ethical and Legal Considerations

**Can you give us an example of an ethical consideration your team had to make? How did you work to resolve this, and what was the outcome?**

Managing information is one of the most delicate issues these days, as the advance is accessible wherever on the planet. Accordingly, we had an open conversation about ethical thought in our project. As an aftereffect of the group discussion, we thought of the way that there is an estimation and a bias in the information.

**Can you give us an example of a legal consideration your team had to make? How did you research the appropriate legislation and ensure that your project met the relevant legal requirements?**

An example of the legal considerations is the General Data Protection Regulations (GDPR). which we have included in our project. However, our project is a simple website calculator, and we don’t collect any sensitive information. We only used a postcode to estimate the region that was most affected by the environment.

**In what way, or ways, do you think your team’s project helps to make life better for others or society? If you don’t think your project makes a positive contribution to society, how do you think it could be adapted to do so?**

Climate change is one of the largest problems facing the world and our planet right now. Everyone on this planet is responsible for keeping the planet safe and free from carbon. Our project is a simple website calculator which will help to support the lifestyle of a group or individual to have their own carbon footprint. The most valuable piece of a carbon footprint number cruncher is that it adds to how much energy you consume, on the grounds that once you realise what utilises a great deal of energy, you will better fathom how to decrease your carbon footprint and how to set aside yourself some money as well. Knowing your carbon footprint can allow you to anticipate ways of zeroing in on counterbalancing your carbon footprint by changing to a carbon neutral type of energy. It will assist you in calculating your carbon footprint on a yearly, monthly, or weekly basis to assist you in drawing in with how you are consuming assets and making changes of all sizes that assist in reasonably protecting you or us.

# Your Professional Development

**What do you think was the most significant contribution you made to your team’s Professional Project? Why did you choose this contribution?**

The biggest commitment I have made to my team was writing the second version of the prototype design code. I picked this commitment since I was attempting to figure out how to assist myself with fostering my abilities in coding. Hence, this investment offered me a chance to contact and appraise numerous new advances. I wouldn't have come across them if I hadn’t made this contribution. Writing the code drove me to have a few abilities in front-end web development.

**Are there any other contributions you have made that you would like us to know about?**

One of the contributions I have made was to the stakeholder requirements. I have used a visual paradigm to make the stakeholders diagram to show how they are going to benefit from our project.

**Can you give us an example of when you were required to demonstrate your own, individual creativity or problem solving while working on your Professional Project?**

We faced an issue in displaying the result page. The issue was how to receive the data, calculate it, and show it in a bar chart. I recommend it to my team to use JavaScript to solve this problem.

**What skills/abilities/technologies have you developed over the course of your Professional Project?**

Through the professional development project, I have developed and learned many skills, abilities, and technologies:

* Time management
* Reflections writing
* Group presentation
* Researching
* Problem solving techniques
* Adapt to new people
* Work under pressure
* Project management tools (Trello, Jira)
* Wireframes: design tools
* Canva: online presentation tool

**What resources, tools, books, etc., have you used to develop your skills?**

I have used a lot of resources needed to complete our project successfully, however, I will share some of the resource links below:

Free web development websites that I have used to achieve our project.

<https://www.w3schools.com/whatis/>

<https://getbootstrap.com/docs/5.1/getting-started/introduction/>

<https://www.linkedin.com/learning/?accountId=36102708&u=36102708&success=true&authUUID=mRFbduHORqqWZ1XgFDaUBQ%3D%3D>

<https://www.codecademy.com/learn/learn-html>

project management:

<https://www.youtube.com/watch?v=2gmCr40uT4U>

reflection writing

<https://lifelonglearningwithot.wordpress.com/2016/05/02/different-models-of-reflection-using-them-to-help-me-reflect/>

<https://www.youtube.com/watch?v=QoI67VeE3ds>

online presentation tools

<https://www.canva.com/en_gb/signup/>

<https://lucid.app/user/171493857#/subscriptionLevel/chart/levelType>

**What do you hope to do with these skills next?**

As I ‘m making a beeline for the final year, I’m attempting to work on my abilities in software development. Hence, I will utilise these abilities to construct my projects in the third term programme and the final year project. I am remembering to pick a project connected to software engineering and development because after my graduation I might want to function as a full-time developer. I will use them to practise in the future and apply the skills and knowledge that I have gained to practise and hunt for jobs.

# Your Mark

**We would like you to take some time to think about your Professional Project. The questions above have guided you to think about your role in the team, how successful your project was (or wasn’t), and how your project was managed.**

**With that in mind, we’d like to ask you to appraise yourself honestly, by offering us a self-evaluated mark using the following criteria:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Grade Band** | **Develop working relationships using teamwork and leadership skills, recognising and respecting different perspectives** | **Grade** | **Tick the relevant box** |
| **86%-100%** | Evidence is shown of ability to exercise leadership skills in a team, making a significant contribution, as either leader or member, which goes beyond the activities defined and to reflect critically on strengths and weaknesses of team performance. | 100 |  |
| 95 |  |
| 90 |  |
| **70%-85%** | Evidence is shown of ability to exercise leadership skills in a team as either leader or member as needed to complete a project and to reflect on strengths and weaknesses of performance. | 85 |  |
| 80 |  |
| 75 |  |
| 72 |  |
| **60%-69%** | Evidence is shown of ability to exercise leadership skills in a team as needed to complete a project and identify strengths and weaknesses of performance. | 68 |  |
| 65 |  |
| 62 |  |
| **50%-59%** | Evidence is shown of ability to work effectively in a team as either leader or member as needed to complete a project and identify strengths and weaknesses of performance. | 58 |  |
| 55 |  |
| 52 |  |
| **40%-49%** | Evidence is shown of ability to work in a team as either leader or member as needed to complete projects and identify strengths and weaknesses of performance. | 48 |  |
| 45 |  |
| 42 |  |
| **35%-39%** | Evidence is shown of a partial contribution to a team to complete a project. | 38 |  |
| 35 |  |
| **20%-34%** | Evidence is shown of an Inadequate or limited contribution to a team to  complete a defined project. | 32 |  |
| 28 |  |
| 25 |  |
| 22 |  |
| **0%-19%** | Little or no evidence of contribution to a team to complete a defined project. | 18 |  |
| 15 |  |
| 12 |  |
| 8 |  |
| 5 |  |
| 2 |  |
| 0 |  |

**And finally, why did you choose this mark?**

I picked these marks since I can sincerely say that I have made splendid contributions in every one of the activities stages despite the difficulties we looked at in the beginning phase of the project. I played a pioneer job in a portion of the project stages by refreshing our coach about the project progress and examining any issues we have in the group or the undertaking. As a member I made an honest effort to help my team members to finish their tasks by making a positive commitment, addressing group questions, and sharing my plans to finish their undertakings.

# References

# Tuckman, B.W., 1965. Developmental sequence in small groups. *Psychological bulletin*, *63*(6), p.384.

# <ons.gov.uk/economy/environmentalaccounts/articles/covid19restrictionscuthouseholdemissions/2021-09-21>

# <https://www.ovoenergy.com/guides/energy-guides/how-much-electricity-does-a-home-use>

1. <https://energyusecalculator.com/electricity_waterheater.htm>

# Appendices

**The screenshot below is the pre-design of our website, which I create using the Lucid online design tool:**

A picture containing graphical user interface

Description automatically generated

**The second stage of the prototype design is shown in the screenshots below:**

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Text

Description automatically generated with low confidence

**Samples of the codes that I used to create the second stage of prototype design using HTML, CSS, JAVA SCRIPT, and BOOTSTRAP:**

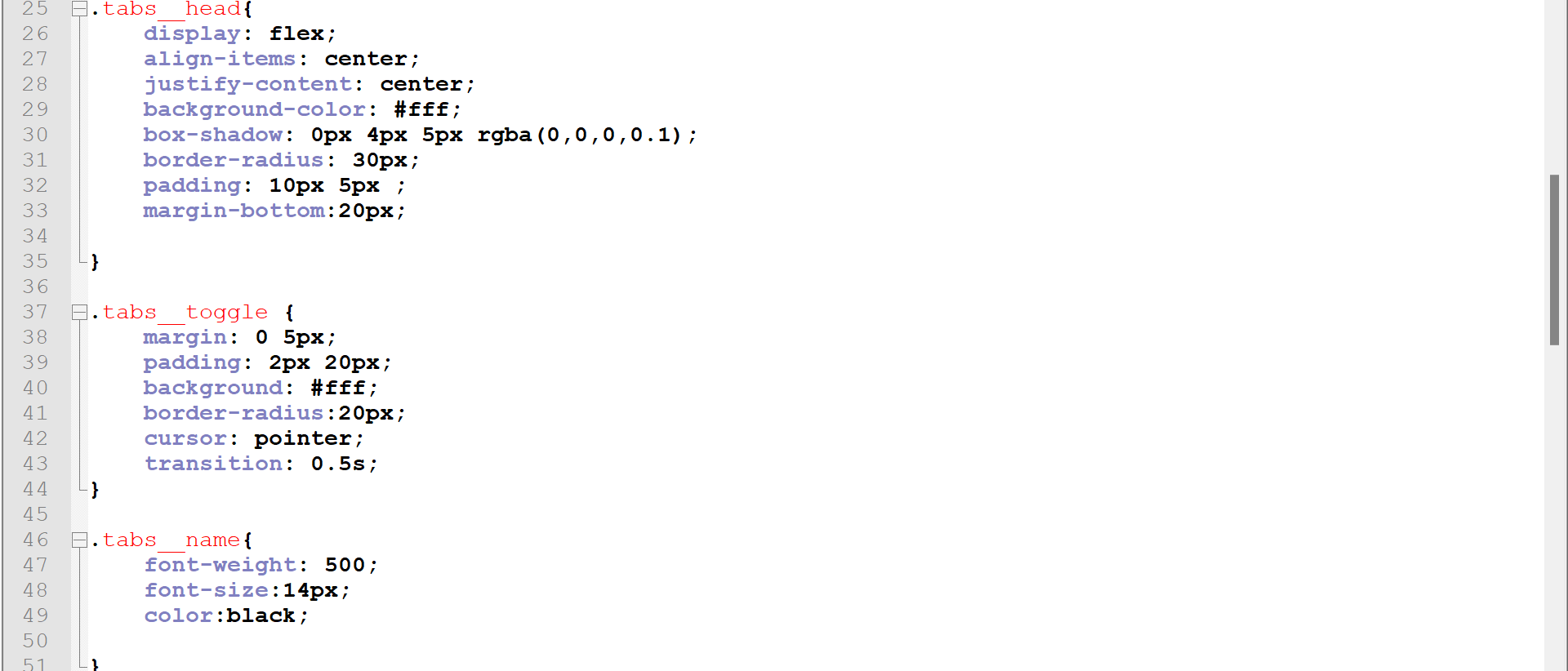
Text

Description automatically generated

Graphical user interface, text, application

Description automatically generatedText

Description automatically generated



Graphical user interface, text, application

Description automatically generated

Text

Description automatically generated

**Graphical user interface, application

Description automatically generatedThe screenshot below is for energy usage calculation formula:**

**The last screenshot of the stakeholder’s diagram:**

**Diagram

Description automatically generated**