**4.**  **Methods and activities:**

**Project Feasibility and Information Gathering**

The first step to be done is to address whether the project is feasible to do within the given timeframe. So, as a team we discussed the necessary languages and frameworks needed to complete the project. The making of a webpage will of course use HTML5 and CSS with the addition of scripting languages such as JavaScript. It will also need database management to organize student information using SQL. During the first meeting, it was found that most of the team has adequate knowledge in these languages. Therefore, this will allow the team to assist on other tasks that are behind schedule. However, as time progresses without using these languages, team members may forget elements of a framework or language. So, the first activity that the team will focus on will be to refresh our knowledge into the required languages. This can be done by the team helping each other with problems, watching tutorials on YouTube, self-learning, etc. In addition to this, the team has identified that incorporating frameworks such as VUE, React and Angular would be beneficial in the production of a professional orientation webpage. Learning these frameworks and applying them to the website is feasible with the given timeframe.

**Designing Website User Interface and Media**

During this phase, the team will design the detailed layout structure of the website including additional webpages, indentation, imagery, videos, etc. Technology such as Photoshop and Premiere Pro can be used to professionally edit media that we have acquired for the website. The website will be user-friendly and professionally designed using UoN’s website as reference to avoid student confusion. The team will use information acquired from the UoN’s Orientation day feedback to implement features that the student finds helpful as part of the orientation process, while avoiding features that students did not enjoy.

https://www.newcastle.edu.au/new-students/orientation/student-feedback-on-orientation

**Develop Website Functionality**

This phase is where the team builds the website itself. Using the in-depth website design documentation, the project features will be coded in HTML5/CSS and JavaScript. HTML5 will be used to create the basic structure of the webpage while CSS will be used to make the UI of all webpages consistent. And JavaScript will be used to create a dynamic webpage with a professionally designed aesthetic. The features that will be implemented include:

* Information about basic university services and where to find important information.
* Who is who in the students Discipline, School and Faculty
* Before uni starts to-do list
* What a typical semester will look like and feel like.
* FAQs and testimonials.

Additional features can be added during production. The team will also incorporate web development frameworks such as Vue, React and Angular to further develop a visual pleasing and robust webpage. React and Angular will assist in connecting the SQL database to the website.

**Building Database**

Once the functionality of the website is working, the team will need to develop a database that will store and organise the inputs of student information to be used for the website to output useful information to the student. For example, information on important faculty staff in the students chosen discipline, what those services can those staff members provide, contact information, etc. This database will be created in SQL and will be implemented using interactive JavaScript code on the website that will communicate with the API to fetch and upload data from the database, in response to user requests.

**Debugging and Testing Webpage**

Once the prototype for the website is completed, the team will continuously get user tests from peers to gather feedback on usability and debug any issues found in the software.

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