Technology

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| **AS91897** | **2.8:** Use advanced processes to develop a digital technologies outcome **(6 credits, Internal)** |

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| **Learning Area:** | Digital Technology | **Context:** |  |
| **Assessor:** | AHR | **Learner’s Name:** |  |

**Introduction:**

This standard of work will take approximately 10 weeks of class and homework time.  You are required to:

1. use appropriate project management tools and techniques to plan the development of a digital technologies outcome
2. decompose the problem into small individual components
3. Go through phases of testing and trialling to improve the digital technologies outcome
4. Explain the relevant implications of the digital technologies outcome and how they were addressed
5. Appropriately manage version controls

**Notes from the standard:**

Examples of *project management and version control tools and techniques* include:

* saving backup copies with a logical file naming system (GitHub)
* using collaboration tools (GitHub, Trello)
* using simple version control software applications (GitHub)
* using tools or systems to plan tasks and milestones (Trello)
* adjusting key actions and tasks where appropriate

Examples of [*relevant implications*](https://www.freybergdigital.co.nz/relevant-implications.html) include:

* social
* cultural
* legal
* ethical
* intellectual property
* privacy
* accessibility
* usability
* functionality
* aesthetics
* sustainability and future proofing
* end-user considerations
* health and safety.

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|  | **Std** | **Tchr** | **Assessment evidence** | **Assessment strategies** | **Feedback** |
| **A** |  |  | I have used appropriate project management tools and techniques to plan the development of a digital technologies outcome | Trello Board with breakdown of tasks.  Portfolio evidence of planning, including:   * brief, * pseudocode/flowcharts, * initial designs, * screenshots of Trello board progress |  |
|  |  | I have decomposed the outcome into smaller components | Trello Board and written code showing breakdown of ideas |  |
|  |  | I have trialled the components of the digital technologies outcome | Portfolio should contain evidence of trials with different stakeholders/potential users for each version, and changes based on trialling results |  |
|  |  | I have tested the digital technologies outcome functions as intended | Portfolio should contain evidence of tests, test results, and design changes based on test results |  |
| **A** |  |  | I have explained the relevant implications | Portfolio evidence |  |
| **M** |  |  | I have used project management and version control tools and techniques effectively to manage the development of a digital technologies outcome | Portfolio evidence |  |
| **M** |  |  | I have trialled multiple components and/or techniques and selecting those which are most suitable | Portfolio evidence |  |
| **M** |  |  | I have used information appropriately from testing and trialling to improve the functionality of the digital technologies outcome | Multiple versions of code showing improvements  Portfolio evidence explaining improvements |  |
| **M** |  |  | I have addressed the relevant implications | Written code  Portfolio evidence |  |
| **E** |  |  | I have clearly discussed and shown how the information from planning, testing and trialling of components assisted in the development of a high-quality outcome. | Written Code  Portfolio Evidence |  |

Final Feedback:

Summative Feedback: