**Digital Technologies & Hangarau Matihiko 2.8**

**Level Two, Credits 6, Assessment Internal**

Introduction/Kupu Arataki

This assessment activity requires you to plan, develop and create a complex computer program.

You will be assessed on

* how effectively you use project management tools and techniques to plan and manage the development of a digital outcome
* how effectively you decompose the problem into smaller components, and test and refine your media outcome so that it is a high-quality response to the task
* how well you have addressed relevant implications
* how well you discuss how the information from the planning, testing and trialling of components assisted in the development a high-quality response to the task (e.g. well-structured, logical, flexible, robust and comprehensively tested program)

Problem Statement

Maui's discovery of Aotearoa

A text-based video game is a genre also known as "interactive fiction". This was very popular back in the day when there was an absence of video game graphics and you had to use your imagination. The game's environment and the actions you take are described for you. You are going to develop your own text-based adventure game based on the story of Maui's discovery of Aotearoa. You will follow in Maui's footsteps as he navigated his waka to find the land we now live in.

Decomposing the outcome

* ***decomposing the digital technologies outcome into smaller components***

|  |  |  |  |
| --- | --- | --- | --- |
| Maui’s discovery of Aotearoa.  Text based game | Gameplay | fish | collection |
| spawning |
| Quality gambling |
|  |
| movement |  |
|  |
| map | generation |
|  |
|  |
|  |  |
| UI | Main menu |  |
|  |
| Controls | Movement  -WASD/arrow keys |
|  |
| Commands | save |
| load |
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Considering Relevant Implications

* ***addressing relevant implications.***

*What relevant implications do you need to consider in the development of your outcome? Describe which you will address in its development.*

*Examples of relevant implications include:*

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

Sprint Tracking

|  |  |  |
| --- | --- | --- |
| **Sprint Number** | **Start Date** | **End Date** |
| 1 | 16/08/21 | 27/08/21 |

* ***using recognised and appropriate project management tools and techniques to plan the development of a digital technologies outcome***

# Planning

*What are you going to work on in this sprint?*

*Provide evidence (screenshot / photo) of your project management tool(s) being used to plan the development of your outcome at the beginning of your sprint here*

# Development

*What components are you going to trial?*

*Provide evidence of the options you are going to trial.*

## Feedback

|  |  |  |  |
| --- | --- | --- | --- |
| **Component** |  | | |
| **Name** |  | **Date** |  |
| **Feedback** |  | | |

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| **Component** |  | | |
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*What is the outcome of this feedback?*

# Testing

***Brief Description of what you are testing***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Type of test**  **(E, B, I)** | **Method to Test** | **Value(s) to enter** | **Expected result** | **Actual result (screen snip / time stamp)** | **Comments/ changes needed** |
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# Evaluation

*Sprint reflection and summary*

*What major changes and achievements did you complete in this sprint?*

*What are you going to do in your next iteration?*

*Provide evidence (screenshot / photo) of your project management tool(s) being used to manage the development of your outcome at the end of your sprint here*

*Provide evidence (screenshot) of your version control*

Sprint Tracking

|  |  |  |
| --- | --- | --- |
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Project Summary

* ***addressing relevant implications.***

*How did you address the relevant implications in the development of this outcome?*

* ***discussing how the information from planning, testing and trialling of components assisted in the development of a high-quality outcome.***

*How did the process help to shape the development of your outcome? Provide evidence.*