**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***

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| --- | --- | --- | --- |
| 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*

the customary beliefs, social forms, and material traits of a racial, religious, or social group  
- How do you ensure your outcome is inclusive?  
- Could you have something on there that is offensive to a culture?

* *legal*
* *ethical*
* ***intellectual property***
* *privacy*
* *accessibility*
* *usability*
* *functionality*

The state of an app, website or database being useful.  
  
How useful is your outcome? Does it do what the client wants? How do you know? Can anyone use it? Could testing help ensure that your outcome is functional? Do people know how to use it?

* *Aesthetics*

a set of principles concerned with the nature and appreciation of beauty.

* *sustainability and future proofing*
* *end-user requirements*
* *health and safety.*

To address the functionality of movement instead of asking the user to input which direction they want to move and pressing enter every time they want to move consuming time I will implement movement in a form that is seen in almost every game by using by default “wasd” for movement of the character making it take less time and making it easier.

To address the implication of aesthetics I will implement ascii art for representing each tile and buttons in the menu such as “Start” to make it look nicer than just some plain text I will also implement nice borders around the tiles

To address the implication of culture wherever I refer to objects such as the Waka I will ensure to use the correct terminology based on the culture indicated by the character that you play as (Maui) so I will not refer to the Waka as the boat as an example but other than items such as the Waka the majority of text will be in English to allow for a wide audience to understand what is going on.

Sprint Tracking

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

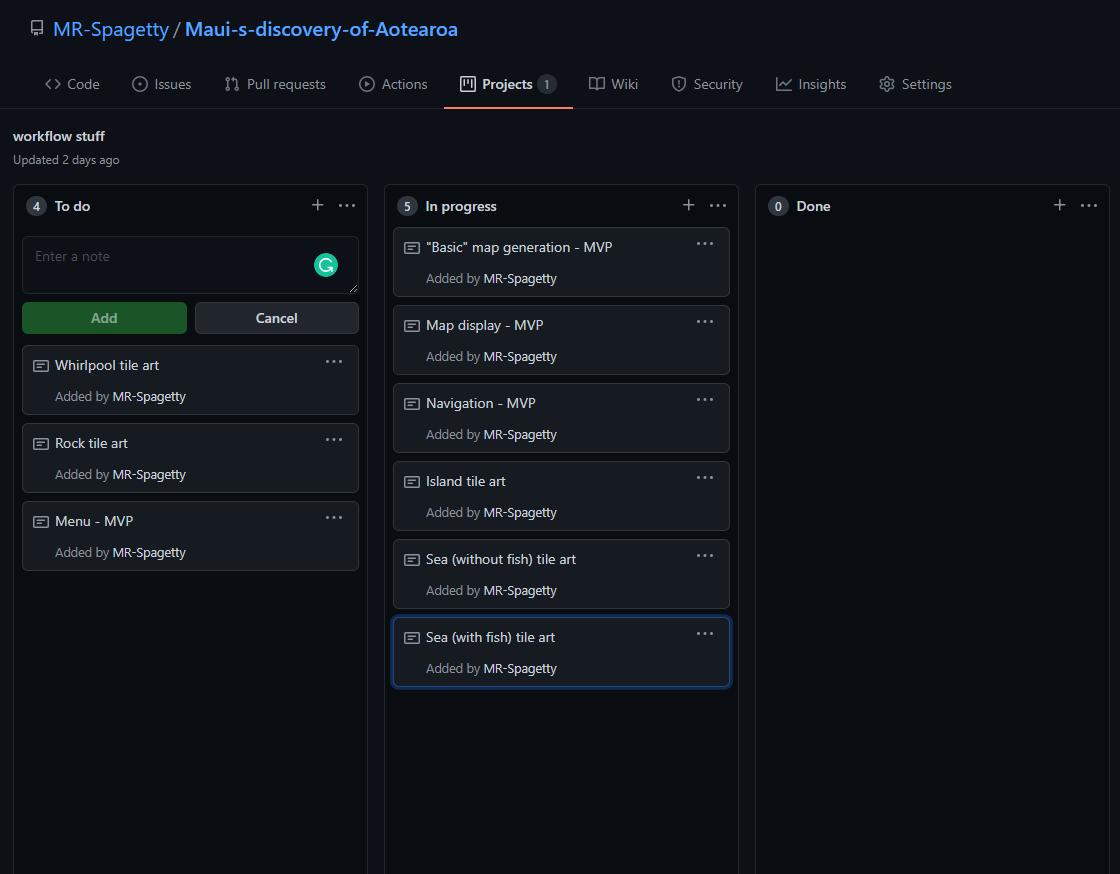
* ***using recognised and appropriate project management tools and techniques to plan the development of a digital technologies outcome***

# Planning

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

* *Map generation*
* *Navigation(movement)*
* *Tile art*
* *Miscellaneous controls*

*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*



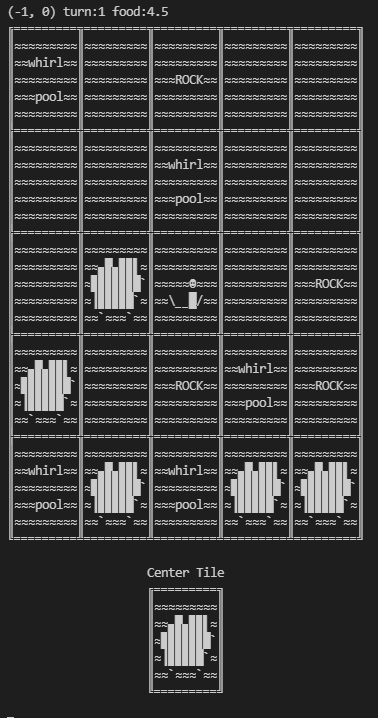
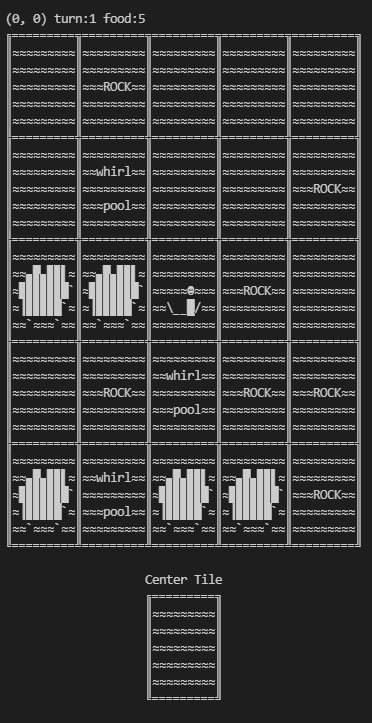
# Development

*What components are you going to trial?*

*Map generation*

*movement*

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

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## Feedback

|  |  |  |  |
| --- | --- | --- | --- |
| **Component** | Help | | |
| **Name** | Rob Wallace | **Date** | 26/08/2021 |
| **Feedback** | Include a key of what each tile is and does | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Component** | Gameplay | | |
| **Name** | Rob Wallace | **Date** | 26/08/2021 |
| **Feedback** | Plays well | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Component** | Rocks | | |
| **Name** | Rob Wallace | **Date** | 26/08/2021 |
| **Feedback** | Incorporate a message that tells the user when they hit a rock that they did so and remove some food | | |

*What is the outcome of this feedback?*

There is now a message that tells the user that they have hit a rock and on the hardest difficulty they remove food

A key for what each tile type means will be implemented

# 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*

*I feel I did well in this sprint however I forgot to record my testing*

*In this sprint I created a MVP of my program got a few bits of user testing on the program and some user feedback some if which I have already implemented*

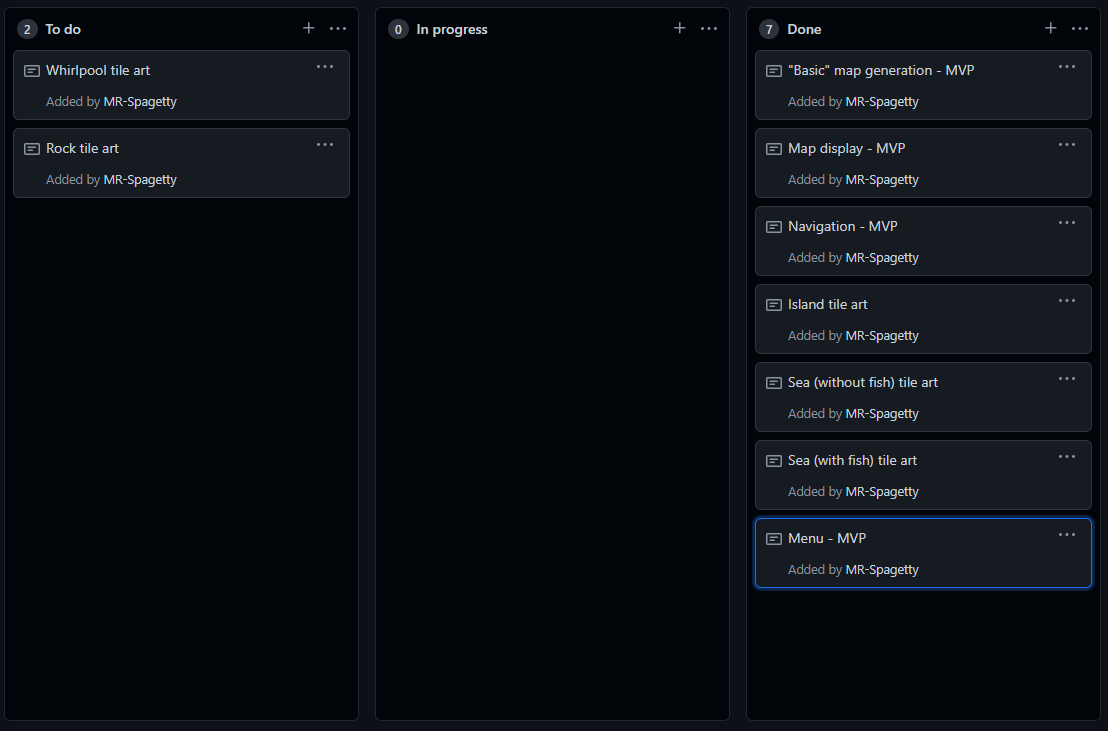
*What major changes and achievements did you complete in this sprint?*

*I was able to code the entirety of the MVP (minimum viable product)*

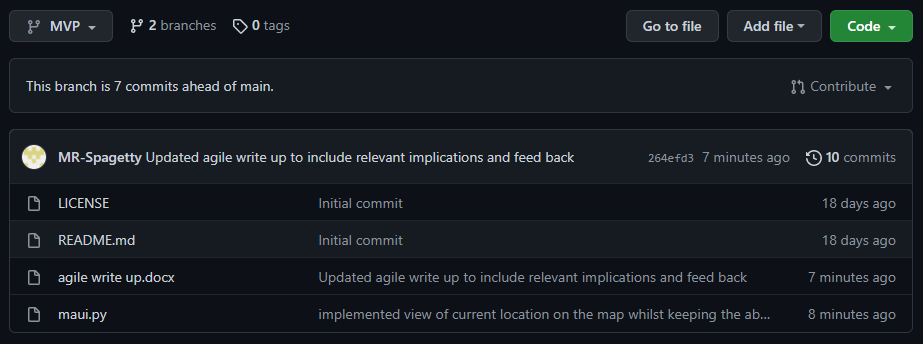
*What are you going to do in your next iteration?*

*In my next iteration I will attempt top implement tile art for the whirlpool and rock tiles as well as give the whirl pools some actual functionality*

*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

|  |  |  |
| --- | --- | --- |
| **Sprint Number** | **Start Date** | **End Date** |
| 2 | 01/09/2021 | 10/09/2021 |

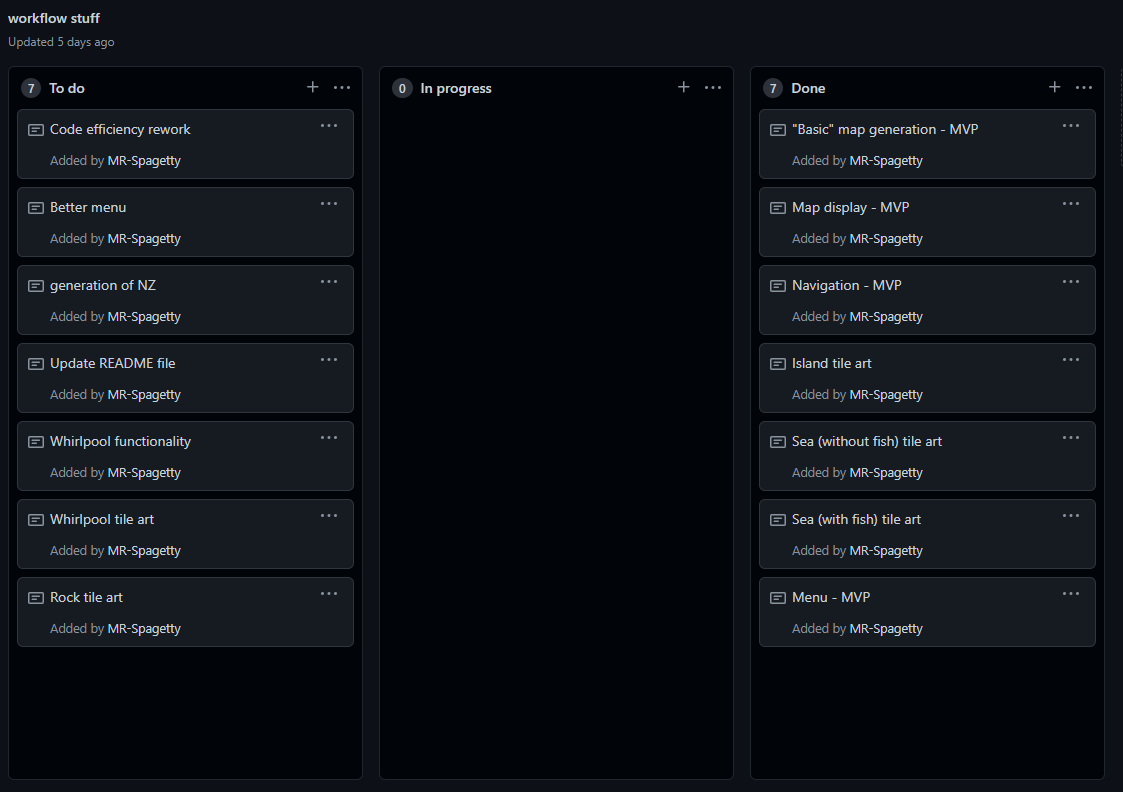
* ***using recognised and appropriate project management tools and techniques to plan the development of a digital technologies outcome***

# Planning

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

* Rework of code
* Giving while pools a function
* Work on README file
* Logic for hitting a rock

*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*

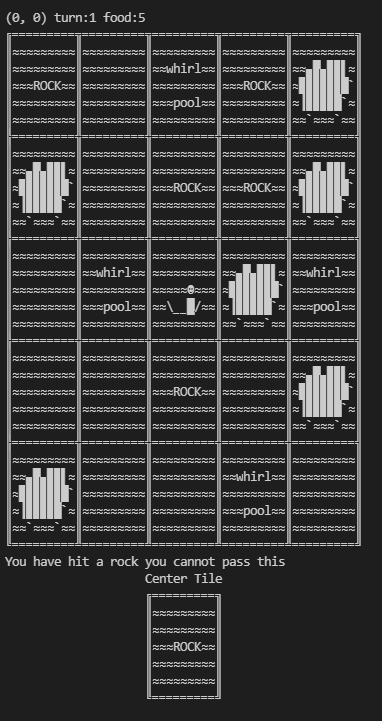


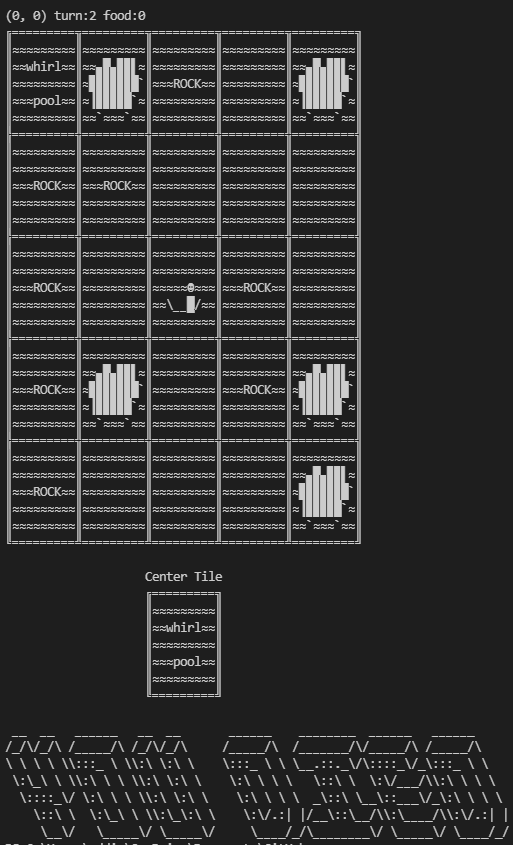
# Development

*What components are you going to trial?*

* *Whirlpools*
* *Hitting a rock*

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

**



## Feedback

|  |  |  |  |
| --- | --- | --- | --- |
| **Component** | Map Display | | |
| **Name** | Diego Mezza | **Date** | 10/09/2021 |
| **Feedback** | The tiles for sea, fish, rock and whirlpool look kind of similar. So when you move sometimes it’s kind of hard to see where you went. If they were more different it’d be easier to navigate. I like the tile for the boat | | |

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

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

*What is the outcome of this feedback?*

I need to make some tile art for the rock and whirlpool tile’s

# 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** |
| Expected | Move character into rock | S | Character would not move and a message would be displayed stating that the player had hit a rock |  | None |
| Expected | Move character into whirl pool | A | Character would be affected by one of the possible whirlpool events |  | Corrected attribute name where accessed to “last\_seen\_chart” |
| Expected | Move character into whirl pool | W, S | Character would be affected by one of the possible whirlpool events |  | None |
| Expected | Movment | W,a,s,d | Character would move in these directions assuming no rock is in the way | Button log from video: wasaaawwddwd | None |
| Expected | Help | H, enter | Open and close help |  | None |
| Expected | Quit | Q, y | Player would be prompted if they want to quit then if y is pressed the game would quit |  | None, unsure why it is stating that I have hit a rock could be something to do with the whirl pool I am on |

# Evaluation

*Sprint reflection and summary*

*I did well this sprint and remembered to actual test my code and also redid the testing from sprint 1 so that it is documented*

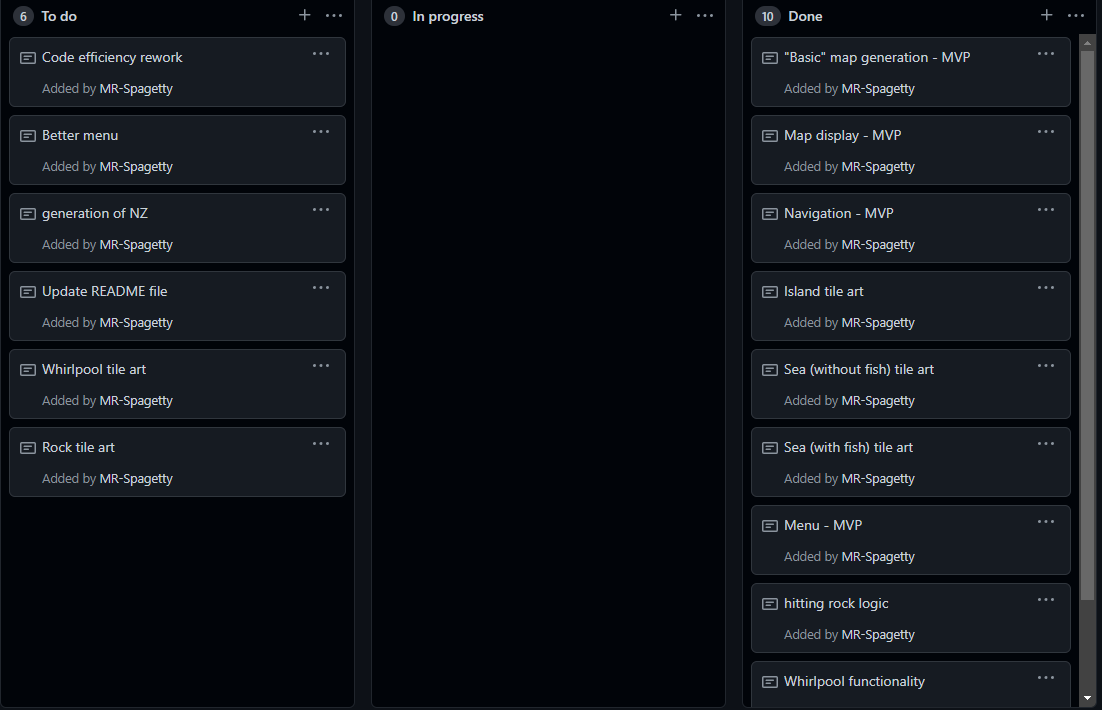
*What major changes and achievements did you complete in this sprint?*

*In this sprint a gave whirlpools actual functionality*

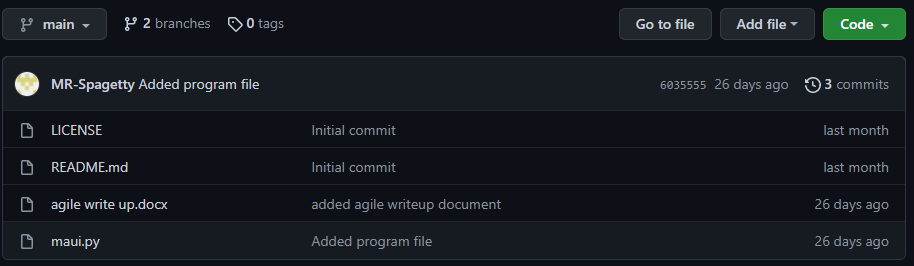
*What are you going to do in your next iteration?*

*In my next iteration I will work on ascii art for the rock and whirlpool tiles*

*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

|  |  |  |
| --- | --- | --- |
| **Sprint Number** | **Start Date** | **End Date** |
| 3 | 14/09/21 |  |

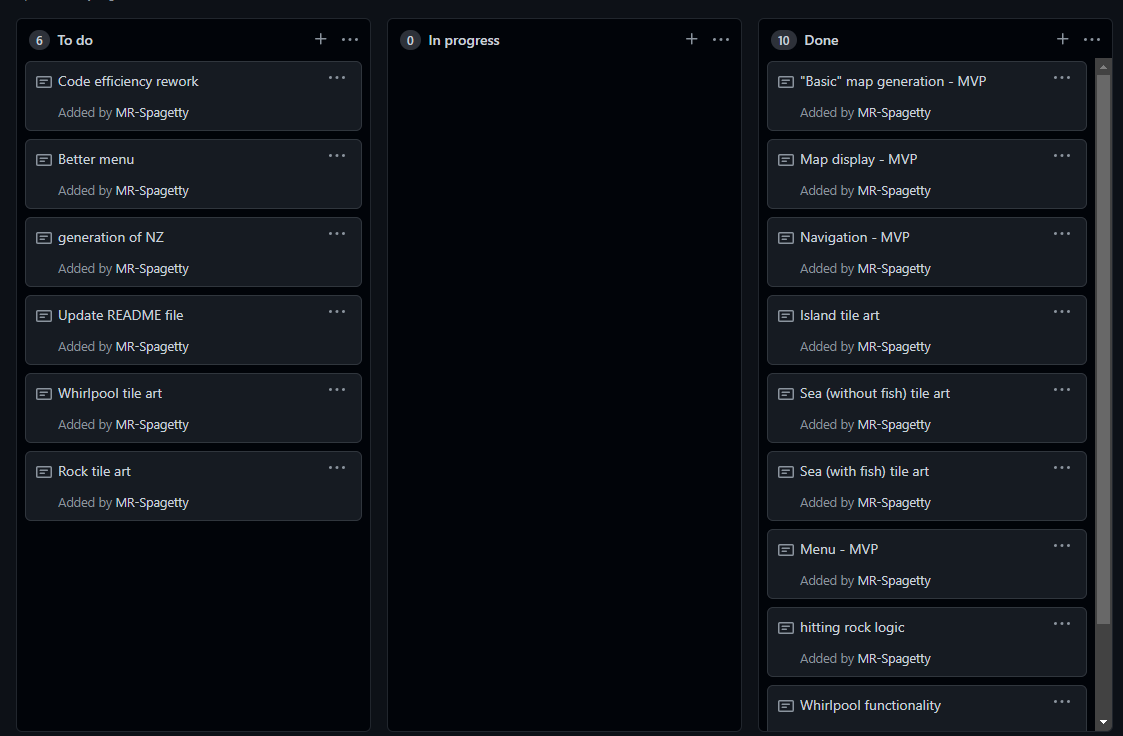
* ***using recognised and appropriate project management tools and techniques to plan the development of a digital technologies outcome***

# Planning

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

* Generation of Aotearoa
* Rock and whirlpool tile art
* Better menu system
* Update README file

*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?*

* *Whirlpool and rock looks*
* *New menu*
* *Generation of NZ*

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

*Whirlpool rock*

**

North island



## Feedback

|  |  |  |  |
| --- | --- | --- | --- |
| **Component** | gameplay | | |
| **Name** | Alan Teesdale | **Date** | 16/09/2021 |
| **Feedback** | How do I get to Aotearoa? Perhaps add a way for the user to see where they need to go. | | |
| **Response** | Maui had no clue where he was going so neither should you  However, I will decrease the goldilocks zone’s distance from 0,0 | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Component** | Whirlpools | | |
| **Name** | Alan Teesdale | **Date** | 16/09/2021 |
| **Feedback** | I would make whirlpools Either transport you or kill you rather than a random chance of either. | | |

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

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

*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** |
| I | Key input | H | Rejected as h is already in use |  |  |
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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*

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.*