Digital Technologies & Hangarau Matihiko 3.8

Level 3, Credits 6, Assessment Internal

# Introduction

This assessment activity requires you to plan, develop and create a digital technologies outcome.

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 synthesise information from the planning, testing and trialling of components to develop a high-quality response to the task (e.g. well-structured, logical, flexible, robust and comprehensively tested program)
* discuss how this information assisted in the development of a high-quality outcome

# Problem Statement

* Write your chosen problem statement here. If you are choosing an option from the website, copy-paste it here.

Teach basic concepts of object-oriented programming in Python using a quiz with an “uncertain reward”. In other words, it should contain an element of chance — the player could win something or lose something at each step.

# Decomposing the outcome

### Decomposing the digital technologies outcome into smaller components

* Decompose your digital technologies outcome into smaller components and rank the priority of each component. You can show this as a:

1. *to-do list*
2. *decomposition table*
3. *mind-map/brainstorm*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Game | |  | | --- | | Board class | | Piece interface | |  | |
| Graphics |  |
| User Input |  |
| Minimax Algorithm |  |

# 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* | *Accessibility* |
| *Usability* | *Functionality* | *Aesthetics* | *Sustainability & future-proofing* | *End-user requirements* | *Health & safety* |

### Implication #1: TYPE IMPLICATION NAME HERE

Explain the implication here

Link the implication to your outcome here

Explain how you will **address** the implication

### Implication #2: TYPE IMPLICATION NAME HERE

Explain the implication here

Link the implication to your outcome here

Explain how you will **address** the implication

# Sprint #1

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

## Planning

* When did this sprint start, and when is it projected to end?

**START DATE** START DATE HERE

**FINISH DATE** FINISH DATE HERE

* What components will work on during this sprint?

Type here

* 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

Screenshot here

## Development

* What component(s) will you to trial?

Type here

* Provide evidence of the option for each component you are going to trial, such as screenshots or explanations

### Component 1

|  |  |
| --- | --- |
| Option 1 |  |
| Option 2 |  |
| Option 3 |  |

### Component 2 (If you are only trialling one component this sprint, delete this table)

|  |  |
| --- | --- |
| Option 1 |  |
| Option 2 |  |
| Option 3 |  |

## Feedback

**Remember, for any component you trial, you should receive multiple feedback for it.  
Don’t get JUST one feedback per trialled component!**

**Component trialled** COMPONENT HERE

**Feedback giver** NAME HERE **Date trialled** DATE HERE

Type feedback here

**Component trialled** COMPONENT HERE

**Feedback giver** NAME HERE **Date trialled** DATE HERE

Type feedback here

**Component trialled** COMPONENT HERE

**Feedback giver** NAME HERE **Date trialled** DATE HERE

Type feedback here

* What decision have you made based on this feedback? Explain:
* *whether or not you will choose the most highly rated option, and why*
* *what changes you will incorporate, and why*
* *what suggestions you will* ***not*** *incorporate, and why*

Type here

## Testing

* What components are you testing?

Type here

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| **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

* What components did you complete in this sprint? How do you know they are completed?

Type here

* What components’ development will carry on into the next sprint? Why?

Type here

* Provide evidence (screenshot) of your version control

Screenshot here

* 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

Screenshot here

# Sprint #2

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

## Planning

* When did this sprint start, and when is it projected to end?

**START DATE** START DATE HERE

**FINISH DATE** FINISH DATE HERE

* What components will work on during this sprint?

Type here

* 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

Screenshot here

## Development

* What component(s) will you to trial?

Type here

* Provide evidence of the option for each component you are going to trial, such as screenshots or explanations

### Component 1

|  |  |
| --- | --- |
| Option 1 |  |
| Option 2 |  |
| Option 3 |  |

### Component 2 (If you are only trialling one component this sprint, delete this table)

|  |  |
| --- | --- |
| Option 1 |  |
| Option 2 |  |
| Option 3 |  |

## Feedback

**Remember, for any component you trial, you should receive multiple feedback for it.  
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Type feedback here

**Component trialled** COMPONENT HERE

**Feedback giver** NAME HERE **Date trialled** DATE HERE

Type feedback here

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* *whether or not you will choose the most highly rated option, and why*
* *what changes you will incorporate, and why*
* *what suggestions you will* ***not*** *incorporate, and why*

Type here

## Testing

* What components are you testing?

Type here

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| **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

* What components did you complete in this sprint? How do you know they are completed?

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Screenshot here

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Screenshot here

# Sprint #3

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

## Planning

* When did this sprint start, and when is it projected to end?

**START DATE** START DATE HERE

**FINISH DATE** FINISH DATE HERE

* What components will work on during this sprint?

Type here

* 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

Screenshot here

## Development

* What component(s) will you to trial?

Type here

* Provide evidence of the option for each component you are going to trial, such as screenshots or explanations

### Component 1

|  |  |
| --- | --- |
| Option 1 |  |
| Option 2 |  |
| Option 3 |  |

### Component 2 (If you are only trialling one component this sprint, delete this table)

|  |  |
| --- | --- |
| Option 1 |  |
| Option 2 |  |
| Option 3 |  |

## Feedback

**Remember, for any component you trial, you should receive multiple feedback for it.  
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**Component trialled** COMPONENT HERE

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Type feedback here

**Component trialled** COMPONENT HERE

**Feedback giver** NAME HERE **Date trialled** DATE HERE

Type feedback here

* What decision have you made based on this feedback? Explain:
* *whether or not you will choose the most highly rated option, and why*
* *what changes you will incorporate, and why*
* *what suggestions you will* ***not*** *incorporate, and why*

Type here

## Testing

* What components are you testing?

Type here

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| **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

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Screenshot here

# Sprint #4

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

## Planning

* When did this sprint start, and when is it projected to end?

**START DATE** START DATE HERE

**FINISH DATE** FINISH DATE HERE

* What components will work on during this sprint?

Type here

* 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

Screenshot here

## Development

* What component(s) will you to trial?

Type here

* Provide evidence of the option for each component you are going to trial, such as screenshots or explanations

### Component 1

|  |  |
| --- | --- |
| Option 1 |  |
| Option 2 |  |
| Option 3 |  |

### Component 2 (If you are only trialling one component this sprint, delete this table)

|  |  |
| --- | --- |
| Option 1 |  |
| Option 2 |  |
| Option 3 |  |

## Feedback

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Type feedback here

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**Feedback giver** NAME HERE **Date trialled** DATE HERE

Type feedback here

**Component trialled** COMPONENT HERE

**Feedback giver** NAME HERE **Date trialled** DATE HERE

Type feedback here

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* *what changes you will incorporate, and why*
* *what suggestions you will* ***not*** *incorporate, and why*

Type here

## Testing

* What components are you testing?

Type here

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| **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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Screenshot here

# Project Summary

### Addressing relevant implications

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

Type here

### Synthesising information gained from the planning, testing and trialling of components

* How did the process, tools, and techniques you used in each sprint help to shape the development of your outcome? Provide evidence.

Type here

* How did testing and trialling shape the development of your outcome? Provide evidence.

Type here