Department of Computing

Graduate Diploma in Information and Communication Technologies

Bachelor of Information and Communication Technologies Diploma in Information and Communications Technology

BCPR280– Software Engineering 2

Assignment 2

Semester Two 2018

Due date: Friday 2 November 2018

Time: 5.00 pm

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Submissions received late will be subject to a penalty of 10% of the student's mark per working day.

This assignment is worth 25% of the total marks for BCSE102.

This paper has three (3) pages including the cover sheet.



REQUIREMENTS

MUST HAVE

- A variant of the Eloquent JavaScript canvas version platform game
- An altered avatar
- A goal (target position, traverse a path, collect 'stuff', arrange/move 'stuff'
- Opposition (ONE OF: barriers, obstacles, dangerous objects, moving objects, following objects, traps)
- 4 way movement driven by the arrow keys
- Fits on the screen of a standard and common mobile device
- Uses coloured blocks as images
- Plays in less than 180 seconds
- Not be offensive!

SHOULD HAVE

- A theme for the game relevant to the Christchurch rebuild. (a saying, a person, an identifiable place)
- Static images
- Opposition (TWO OF: barriers, obstacles, dangerous objects, moving objects, following objects, traps)
- Uses images derived from the Christchurch Rebuild.

COULD HAVE

- Opposition (THREE OF: barriers, obstacles, dangerous objects, moving objects, following objects, traps)
- Incorporates Kiwi language
- Character(s) animation
- Background animation
- Lives
- Animated opposition
- 8 way movement
- Introductory screen/animation
- End of level screen/animation

WOULD LIKE TO HAVE

- Opposition (MORE THAN THREE OF: barriers, obstacles, dangerous objects, moving objects, following objects, traps)
- Touch screen movement suitable for a phone

MARKING GUIDE

NOTE: An iteration should be 2-4 hours of work

1.	WHERE?	
	☐ UML Class Diagram(s) of the starting platform game system which	is available
	from http://www.lessmilk.com/game/dark-blue/	
0.0	http://eloquentjavascript.net/code/chapter/16	[2 marks]
OR	☐ A UML class diagram of the 'before' and the 'after' parts of the system that you work on in an iteration	
	y o b o = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 =	[2 marks]
2.	WHAT?	
	A plan for the work of an iteration. This must state:The goal of the iteration	
	o The planned tasks in sequence [planning, analysis, design, coding, testing]	
	o A time estimate for each task [30 minute blocks]	
	The planned 'product' of each taskA record of the actual time each task took	F2 1 1
		[3 marks]
3.	HOW? ☐ A 'Planning A Complex Algorithm' worksheet for the iteration	[5 marks]
	A plan for how the program feature you are working on will work dynamic diagram, story-boards, wireframe, pseudocode]	[UML
		[5 marks]
4.	EVALUATION!	
	A screen shot of s standardjs report showing nil style defects in	n your code. [1 mark]
	☐ Mistakes were made! A description and analysis of the mistakes iteration	made in the
		[2 marks]
	☐ Lessons were learned? A plan for doing ONE thing differently in titeration.	
		[2 marks]