# CSC2045 – Software Engineering Semester 1 Week 11 Report <u>Team 56</u>

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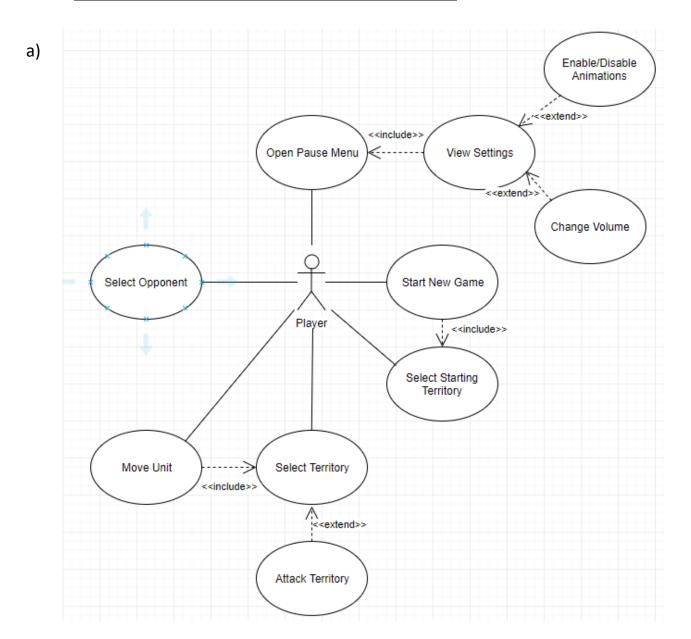
Robbie Connor (40203330)

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Christopher Logan (40199554)

Caolan Rice (40183983)

# 1. Use Case Requirements Specification and Planning



b)

Flow of Events for the Select Territory use case			
Objective	To select a territory on the map		
Precondition	The user must be out of any menus and be on		
	the main map screen		
Main Flow	<ol> <li>The user taps the area they want to select.</li> <li>The territory they selected will react by being highlighted.</li> </ol>		
Alternative Flows	-		
Post-condition	The system stores the selected territory as a variable for use in other parts of the system.		

Flow of Events for the Start New Game use-case			
Objective	To begin a new game		
Precondition	The file has been triggered to run and the game menu screen has appeared		
Main Flow	1. The player navigates to the main menu of the game 2. The player clicks on the 'Play' button, which takes them to the play menu. 3. The player then clicks on the 'New Game' button 4. The new game is loaded on the system		
Alternate Flows	-		
Post Condition	The new game is visible on the screen and the player can now start to play the game.		

Flow of Events for the Select Sta	rting Territory use-case
Objective	To select the territory that the player and their army/units will begin in
Precondition	A new game must have just been started and the player must be on the main game screen
Main Flow	<ol> <li>A selection of 5 starting territories are displayed on the map to the player.</li> <li>The player clicks on the territory they want to start with.</li> <li>The starting territory and units are loaded in for the player.</li> </ol>
Alternate Flows	If the user attempts to tap on/select a territory that isn't available for selection as a starting territory, then no result will occur.
Post Condition	The players territory and units are visible on the screen and the user is able to begin playing the game.

Flow of Events for the Attack Territory use case				
Objective	To engage in attacking a territory on the map			
Precondition	The user must be out of any menus and be on			
	the main map screen			
Main Flow	<ol> <li>The user taps the "Attack" icon on the main UI.</li> <li>The territories available to attack will glow red in reaction to step 2.</li> <li>The user engages in the Select Territory use case to select an enemy territory to attack.</li> <li>The user engages in the Select Territory use case to select a neighbouring allied territory to attack with.</li> <li>The user confirms their selection by</li> </ol>			
	tapping a "Confirm" button.			
Alternative Flows	If the user attempts to tap a territory that isn't available to attack, no result will occur.			
	If the user attempts to tap a non-neighbouring territory after having completed steps 1-4, nothing will occur.			
Post-condition	The attack gets logged in the Queue to take place at the end of the turn.			

Objective	To change the volume of the game			
Precondition	There is an active option to change the volume			
	using an element			
Main Flow	<ol> <li>The user moves the cursor over the button</li> <li>The user presses the mouse button</li> <li>The button becomes selected and the volume is increased/ decreased by how many times they selected</li> <li>The user releases the mouse button</li> </ol>			
Alternative Flow	At a certain point in the game the option may not be available. In this case no button is selected At a certain point the button may be already selected. In this case the button remains selected			
Post-Condition	The volume is increased or decreased			

Objective	To enable or disable animation in the game	
Precondition	There is an active option to enable or disable	
	the animation in a game	

Main Flow	The user moves the cursor over the		
	button		
	2. The user presses the mouse button		
	The button becomes selected and the animation is enabled or disabled		
	depending on what option the user selects.		
	4. The user releases the mouse button		
Alternative Flow	At a certain point in the game the option may		
	not be available. In this case no button is selected		
	At a certain point the button may be already		
	selected. In this case the button remains		
	selected		
Post-Condition	The animation is enabled or disabled		

Flow of Events for the Select Opponent use-case				
Objective	To be able to see the details of the opponent			
Precondition	The user must be on the main screen			
Main Flow	<ol> <li>The user long-presses on the name of the opponent they would like to view.</li> <li>The details of the opponent are shown on screen.</li> </ol>			
Alternate Flows	-			
Post Condition	The details of the opponent are shown on screen.			

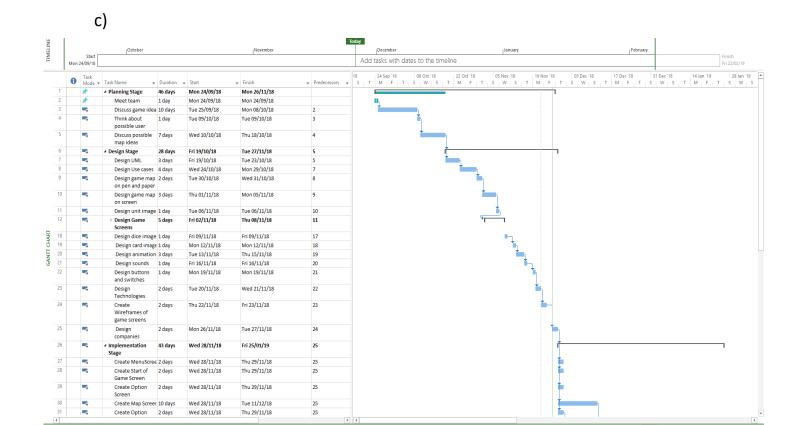
Flow of Events for the Move Uni	t use-case
Objective	To be able to move a unit from one territory to another
Precondition	The user must have a unit within a territory
Main Flow	<ol> <li>The user taps the "move" button.</li> <li>The user then taps on the territory they would like to move from.</li> <li>A screen to select the number of units appears.</li> <li>The user selects the number of units using this screen.</li> <li>The user taps the territory they would like to move their units to.</li> </ol>
Alternate Flows	At any of the above elements the user can tap on the "move" button again to cancel the movement action.
Post Condition	The user's units are now on a different territory.

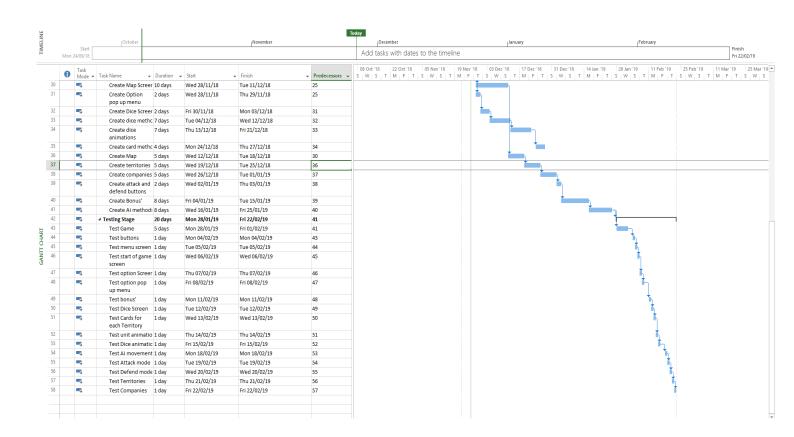
# Team 56 Semester 1 Week 11 Report 1

Objective	To use the pause menu feature			
Precondition	The game should first be running before the user can pause it.			
Main Flow	The user should select the pause icon			
	2. The user moves the mouse over the pause button			
	3. The user selects the pause button			
	4. The game should pause momentarily until told otherwise			
	5. The user releases the mouse button			
Alternative Flows	At 3 the pause button may already be selected, in this case a			
	reselection of the button should cause the game to resume.			
Post Condition	The pause button is selected and the game is stopped until the user			
	tells it otherwise.			
	tells it otherwise.			

Objective	To use the open settings feature				
Precondition	The game should first be running before the user can open the settings.				
Main Flow	<ol> <li>The user should move the mouse over the settings icon.</li> <li>The user should then use the mouse to select the icon.</li> <li>Next the user must release the mouse button.</li> <li>The settings screen should then display for the user.</li> </ol>				
Alternative Flows	At 2 if the settings icon has already been selected then the settings screen should be on display.				
Post Condition	The settings icon is selected and the settings menu should display for the user.				

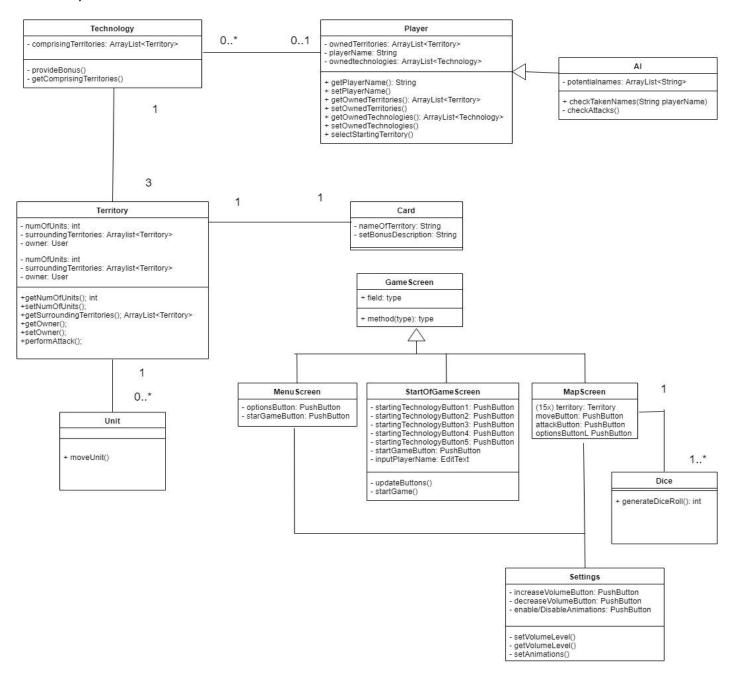
#### Team 56 Semester 1 Week 11 Report 1





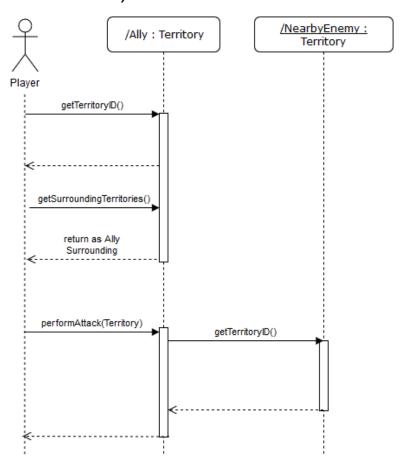
#### 2. System Analysis

a)

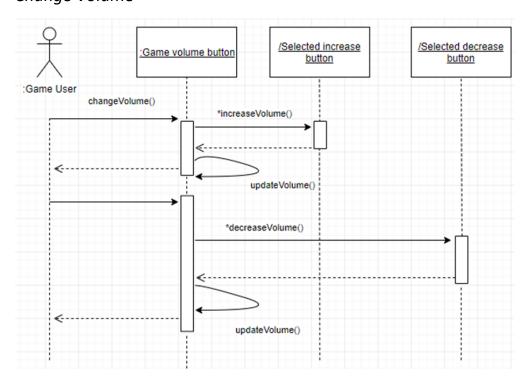


## b) Use Case Realisations

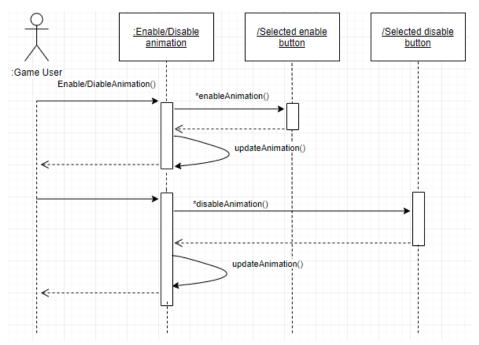
# Attack Territory



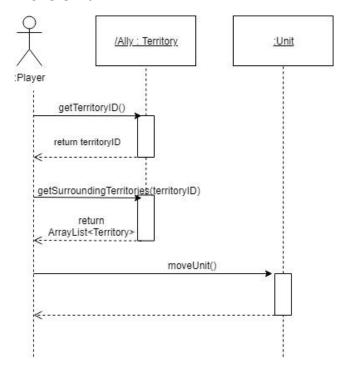
# Change Volume



# Enable/ Disable animation

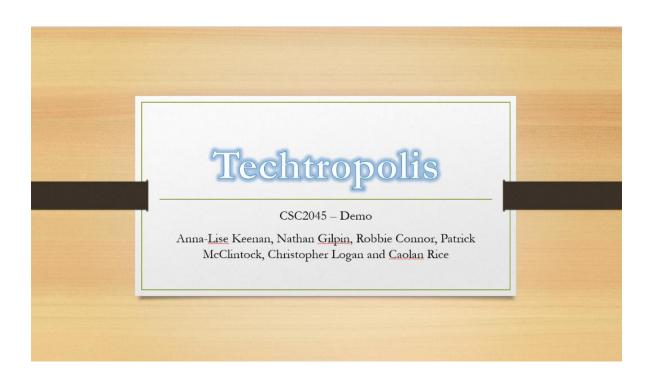


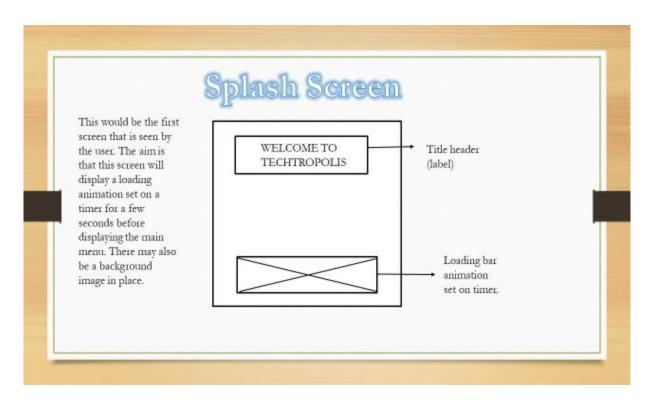
## Move Unit

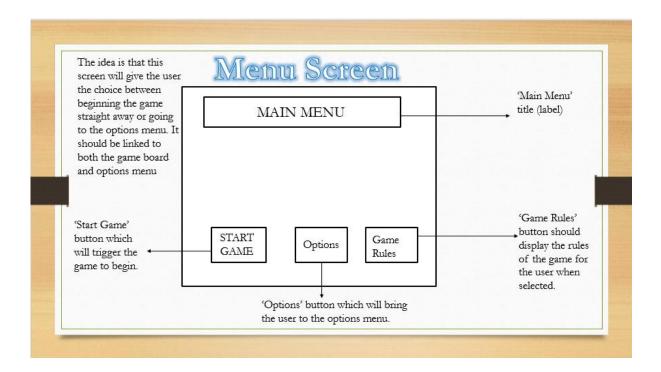


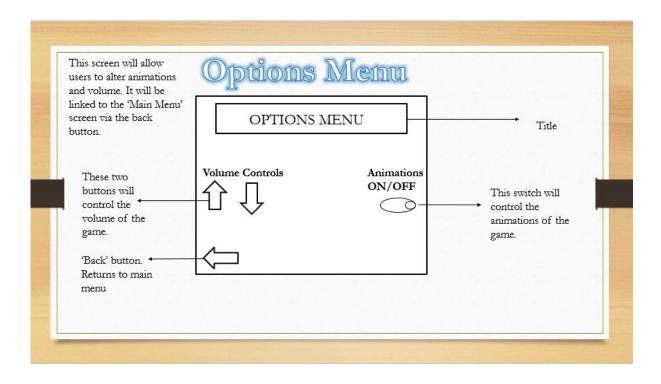
## 3. Interim Demo

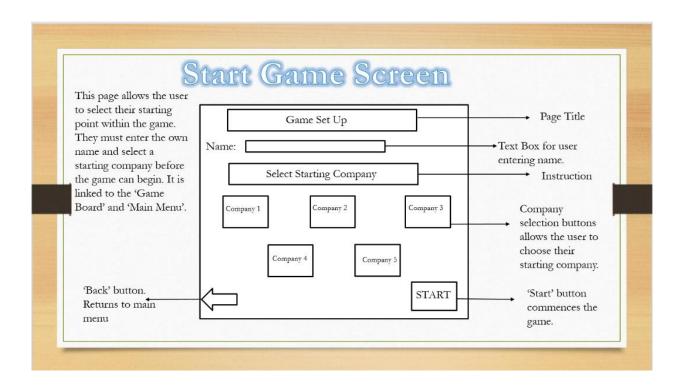
Team 56

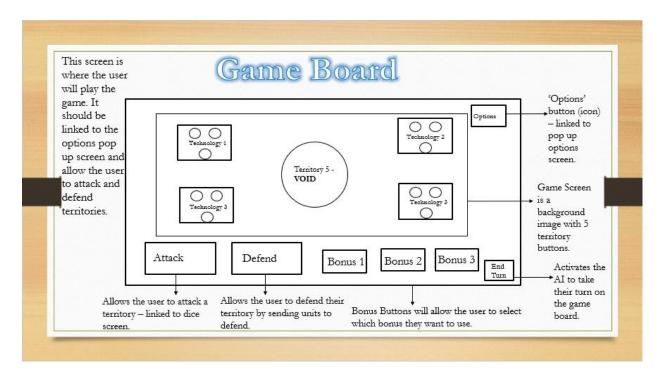


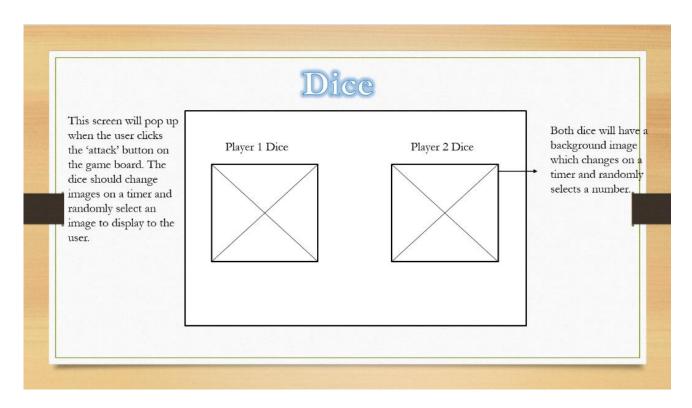


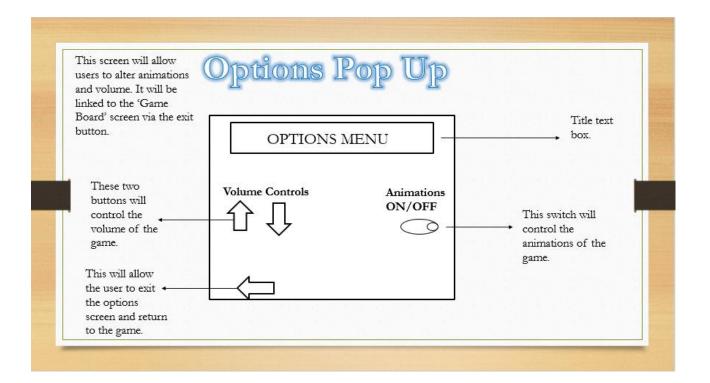


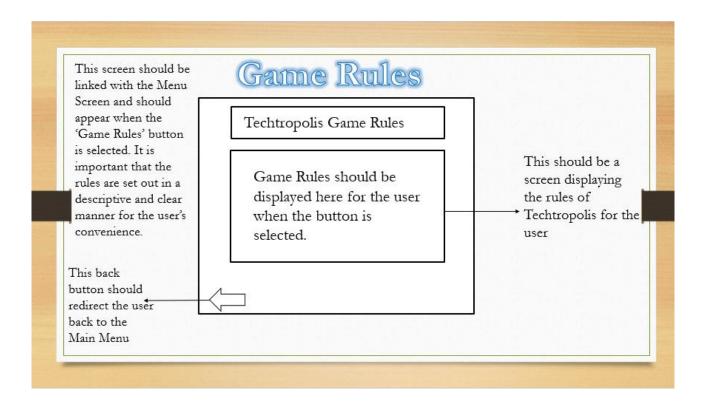














#### Peer Assessment 1: The Problem and the Early Solution

This Assessment Document is intended to provide you and your assessor with an overview of each team member's involvement in the preparation of CSC2045's First Deliverable, the report entitled *The Problem and the Early Solution*.

Each team should complete <u>one</u> Assessment Document and its content must be agreed by all team members. The completed form should be included as hard copy at the start of your team's report. **Don't forget to fill in the Group Number and Group Name.** 

There are two main parts to the Assessment Document – the Evaluation and the Declaration. Both parts must be completed – otherwise your team's report will not be marked. Arrange a team meeting to discuss the evaluation, and see the note below!

Evaluation	Group Number: 56	Group Name:			
Name		Contribution of time and effort <sup>1</sup>	Contribution to team- working and motivation <sup>1</sup>	Contributions to this deliverable <sup>1,2</sup>	Peer Score (Range 85 – 115)
Anna-Lise Keen	an	5	4	5	105
Nathan Gilpin		5	4	5	105
Christopher Log	gan	5	4	5	105
Patrick McClinto	ock	5	4	5	105
Robbie Connor		5	4	5	105
Caolan Rice		5	4	5	105

<sup>&</sup>lt;sup>1</sup>Values: 1 = Less than average; 2 = Slightly less than average; 3 = Average; 4 = Slightly more than average; 5 = More than average

#### **Declaration**

"I declare that I have read the Queen's University regulations on plagiarism, and that any contribution I have made to the attached submission is my own original work, except for any elements that I have clearly attributed to third parties. I understand that this submission will be subject to an electronic test for plagiarism and will also be subject to the University's regulations concerning late submission if it is received after the deadline."

Name	Date	Confirmation (use the words shown in the example below!)
Anna-Lise Keenan	26/11/2018	I agree to the terms of the declaration
Nathan Gilpin	26/11/2018	I agree to the terms of the declaration
Christopher Logan	26/11/2018	I agree to the terms of the declaration
Patrick McClintock	26/11/2018	I agree to the terms of the declaration

<sup>&</sup>lt;sup>2</sup>This value should consider contributions in the round – direct contributions to required deliverables, and contributions that have made the deliverables possible.

Robbie Connor	26/11/2018	I agree to the terms of the declaration
Caolan Rice	26/11/2018	I agree to the terms of the declaration

#### A note on the Evaluation:

The Contribution columns in the Evaluation table are intended to help team members quantify each other's input to the First Deliverable, before they award agreed Peer Scores. There will not necessarily be a precise correlation between the Peer Score and the Contribution values. However, high Contribution scores, as an indicator of the importance of the team member's work to the success of the project, should normally result in a high Peer Score for a team member. Likewise a low Peer Score would be the expected outcome if Contribution values are low.

Each team member's overall score for the First Deliverable will be calculated according to the following formula, where  $S_i$  is Team Member i's overall score,  $P_i$  is the peer score received by Team Member i, N is the number of members in the team, and M is the raw mark awarded to the report by the assessor.

$$S_i = \frac{P_i}{\frac{1}{N} \sum_{j=1}^{N} P_j} \times M$$

The following guidelines will help you award appropriate peer scores. If the team agrees that Team Member 1's overall contribution to the First Deliverable was much weaker than the average contribution, a peer score of 85 would be appropriate for Team Member 1. If Team Member 1's contribution was much stronger than average, consider a peer score of 115. If Team Member 1 did what was expected and shared the effort equally with their fellow team members, they could expect to receive a Peer Score of 100. Any mark within the range 85 – 115 will normally be accepted by the module Lecturer. Marks outside this range may require that the Team discuss its decision with the module Lecturer or Teaching Associate, in order to agree a fair distribution of marks. Where team members cannot agree a distribution, the module Lecturer's judgement will be final. *Please inform the module Lecturer if a team member has left your group or has ceased to play an active role in the group.*