MAT3451_1819_520 Final Year Project

Student Name: Ming Hei LUI

P-number: P15245731

Programme: Computer games programming

Email address: luiminghei@hotmail.com

Project Title: 2D RPG game

Project Proposer: Self

Supervisor

Supervisor name: Conor Fahy Email: conorfahy@dmu.ac.uk

Affiliation: IMAT2608 1718 520 Mobile Games lab tutor

Introduction

In this Project will be make a 2D RPG game in unity. The game is about the character needs to escape the maze and find the exit. In the maze, the player needs use weapon or item to survive and fight with the enemies.

Project Background

In this game will make a unity game. This game will use unity, C# and java to program the game physics. The game is 2D action RPG game. This game will use PC platform. The target for the game is kids to adults. The play has five different chapters and map to play. The player has to step by step go through the chapters.

The game story is about the characters how to escape the maze. In the maze there are many different enemies and trap. To survive, the player can use different weapons to shot enemies. Also the player has health bar, level bar and buying system can buy some items to upgrade, heal and unlock more weapon.

In the 2D RPG planform have many different games. Those games are stimulate to this project make the new one. .The special of the game is the player can add the element each as fire, ice and lightning for the weapon. It can keep hurt, slow down and pause the enemies.

Choose RPG game can the make player step by step to know about the game world. The player can easier to enjoy playing the game, also the player can use the problem-solving skills to overcome the puzzle.

Aim/Objectives/Deliverables

Aims:

The project can be played 8-10min and has at least 4-5 maps.

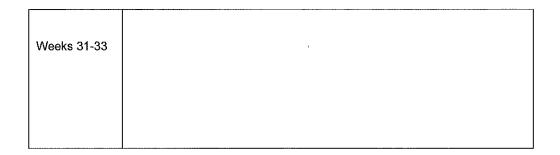
Objectives:

Software Development project include the objectives as

- 1. To design and implement the game interface
- 2. To make a test and debug plan
- 3. To implement achievement by collection system
- 4. To implement the upgrade system by collecting the coin
- 5. To design the audio e.g. background music, hurt sound
- 6. To implement different chapters/map
- 7. To implement the character and enemies.

Deliverables:

	Development Projects
Final	Project contract
Submission	Ethics form
	Project Plan
These are	Global Checklist
some	Aim/Objectives
examples:	Use UML Diagrams/ Flow chart/ OO design
each project	Story boards/ UI design
will need a	Audio
complete set	Game Art/ texture
of	Game design idea
objectives/deli	Test/debug Plan
verables	Appendices (e.g. Reference)
	Final Year Project Report word count: >10.000
Week 27	
Viva	Presentation(PPT)
examination:	
attended by	
the supervisor	
and the 2 nd	
marker	



Resources and Constraints

- 1. Software: Unity, notepad++, visual studio, MonoDevelop
- 2. Hardware: windows 7 and above, 4GB RAM, storage 4GB available space

Constraints

- 1. Time, the project have six month make the job done.
- 2. Availability of the unity resources, it can help to program the game.

Sources of Information

1. Internet sources

YouTube https://www.youtube.com/

Unity3D https://unity3d.com/learn/tutorials/s/2d-game-creation

OpenGameArt https://opengameart.org/

Game Art 2D https://www.gameart2d.com/

2. De Montfort university blackboard:

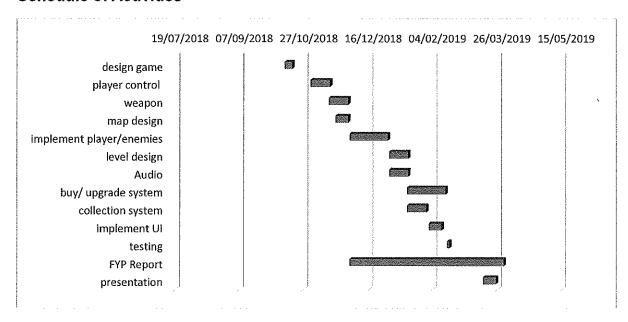
IMAT2608_1718 Mobile Games

IMAT1606_1617_520 Game Architecture Design & Develpt

Risk Analysis

The risk of the project is time management, it will not finish the objectives on the project plan. Also in the end the game may not be run as expected. In the develop process risk is programming problem, the program cannot merge and work together. It will get error and crash in the game. Also the program needs to always backup avoid lose data.

Schedule of Activities



Student	Date 25/10/2018
Proposer (if other from the student an	d/or the
supervisor)	Date
Supervisor	
Dat	e25/10/2018

Keep the signed copy somewhere safe: include it with your initial submission. Your supervisor will require a copy as well.

IMAT3451 FINAL YEAR PROJECT - ETHICAL REVIEW FORM

The University requires all undergraduate final year projects to undergo an ethical review and, where human research ethical issues are identified, to ensure that these issues are addressed.

For the majority of Computing Final Year Projects, the outcome will be either 'No ethical issues' or 'Minor/Major ethical issues which have been addressed'; in these cases approval can be given by the supervisor. In the unlikely event that the outcome is 'Ethical issues that have not been addressed', the completed form will need to be forwarded to the Faculty Research Ethics Committee.

Student Name	Programme						
Ming Hei LUI	Computer games programming						
Project Title							
2D RPG game							
Brief description of proposed activity and its objectives:							
In this Project will be a 2D RPG game in unity.	The game is about the characters how to escape the						
maze. The player needs to fight and escape the	э пар.						
The objectives are to implement the game inclu	ded audio, test, player, map and game systems.						
Ethical Issues Identified: (see overleaf)	How these will be addressed:						
	The information and the data will be preservation and confidentiality in project						
(see overleaf) Gathering information about human being	The information and the data will be						
(see overleaf) Gathering information about human being through to improve the game. The game may save the data for the	The information and the data will be						
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Checklist

has the project proposal identified any of the following research procedures?	
 Gathering information about human beings through: Interviewing, Surveying, Questionnaires, Observation of human behaviour Using archived data in which individuals are identifiable Researching into illegal activities, activities at the margins of the law or activities that have a risk of personal injury Supporting innovation that might impact on human behaviour e.g. Behavioural Studies 	Yes /-Ne Yes / Ne Yes / No Yes / No
If 'Yes' to any of 1-4 above: have you considered the following?	
 □ Providing participants with full details of the objectives of the research □ Providing information appropriate for those whose first language is not Englis □ Voluntary participation with informed consent □ Written description of involvement □ Freedom to withdraw ☑ Keeping appropriate records □ Signed acknowledgement and understanding by participants □ Consideration of relevant codes of conduct/guidelines 	sh
Ethical Review Outcome	
 □ 1. No ethical issues ☑ 2. Minor ethical issues which have been addressed and concerns res □ 3. Major ethical issues which have been addressed and concerns res □ 4. Ethical issues that have not been resolved/addressed 	
Authorisation If the outcome is no. 3 or 4 above, this form should be forwarded to the Faculty Ethics Committee.	
Signature of student Date	<u> 29/10/2018</u>
Signature of supervisor Date 25/10/2018	

IMAT3451 FINAL YEAR PROJECT - Global Checklist

The University requires all undergraduate final year projects students to undertake a global review of their project. Here is an International Impact Checklist for you to complete, which can be done in consultation with the project supervisor.

Student Name	Programme		
Ming Hei LUI	Computer games programming		
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Please indicate which of these possible attributes is addressed by your undertaking of this project.

Possible Global Experience	Addressed by Project	
Ability to work collaboratively: teams from a range of backgrounds and countries	None	
Excellent communication skills with a sensitivity to speaking with and listening to non-native English speakers	√	
An ability to embrace multiple perspectives and challenge thinking in a range of cultural context	None	
A capacity to develop new skills and behaviours according to role requirements	✓	
An ability to negotiate and influence clients across the globe from different cultures	✓	
An ability to form professional, global networks	None	
An openness to/respect of a range of perspectives from around the world	None	
Multi-cultural learning agility (i.e. able to learn in any culture or environment)	None	
	l	

Brief description of how the ticked attributes have been addressed:

The project will communicate the non-native English speakers get more idea to improve the game.

The project can improve the knowledge of unity and game programming.

The project will have other cultures in the game. It makes the player from another county can have aroused.

Signature of student	ROFF 3		Date	25/10/2018
Signature of supervisor	Confr	Date	25/10/2018	***************************************