Tung Duong

CS 461 - 01

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Game Progress Report

(Updates on the proposal)

1. The title of the game

- League of Guardians
- 2. Team members: Tung Duong
- 3. The high concept of the game, which is a brief description of the game. This should not exceed a few sentences.
 - ➤ Base of League of Legends (LOL) game, I will create a game with similar LOL's map, champions but completely different playing style such as Defense game (combine with autochess if I have time and able to do).

4. Genre

Defense (and/or autochess)

- 5. Gameplay: A summary of what the player does, player's objectives, etc.
 - Use money from killing enemies to buy and upgrade champions, minions, fortresses, etc. to defend against enemy attacks.
- 6. Features: List of basic features and major selling points. E.g. what makes it different from other games?
 - Buy champions, towers, turrets, minions, etc to defend enemies.
 - Place them in reasonable places to defend from different paths.
 - Upgrade champions and fortresses based on the money earned from killing enemies.
 - And the special thing is that all of these things (champions, maps, etc.) are still familiar to LOL players (the game with the largest gaming community today).
- 7. Setting: Description of the game world and why it is interesting.
 - First, I build this game based on LOL (the game with the most players today) so it will be able to attract many gamers.
 - Second, many gamers want to find the feeling of trying other game genres but still keeping the style of playing, champions, maps, etc. of LOL.
 - Final, on LOL's forum, many gamers have proposed the problem as to why LOL only has a mode where players fight each other but not a mode where players help each other to fight. So, this

will be the game they wanted to try out together to defend the center of their fortress from enemies.

8. Story (If there is one): Synopsis

Based on LOL's universe.

9. Audience: For whom the game is developed

For everyone, especially those who have played MOBA games such as DOTA or LOL.

10. Hardware platform: E.g. PC/console/mobile, memory, processor, graphics card requirements

Minimum &	PC SYSTEM		MAC SYSTEM	
Recommended Requirements	MIN SPECS	REC SPECS	MIN SPECS	REC SPECS
	Intel: Core i3-530	Intel: Core i5-3300	Intel: Core i5-750	Intel: Core i5-3300
CPU	AMD: A6-3650	AMD: Ryzen 3 1200	ARM: Not	ARM: Not
	ARM: Not supported	ARM: Not supported	supported	supported
CPU Features	SSE2	SSE4	SSE2	SSE3
	NVidia: GeForce	NVidia: GeForce 560	AMD: HD 6570	AMD: Radeon HD
	9600GT	AMD: Radeon HD 6950	Intel: Intel HD	6950
GPU	AMD: HD 6570	Intel: Intel UHD 630	4600 Integrated	Intel: Intel UHD 630
	Intel: Intel HD 4600	Integrated Graphics	Graphics	Integrated Graphics
	Integrated Graphics			
GPU Features	DX10-Level Hardware	DX11-Level Hardware		
VRAM	1GB	2GB	1GB	2GB
Free Storage Space	16GB HDD	16GB SSD	12GB HDD	16GB SSD
OS Versions	Win 7, 8, 10	Win 10	MacOS 10.12	MacOS 10.16
OS Architecture	X86 32-bit, x64	x64	x64	x64
RAM	2GB	4GB	2GB	4GB
Recommended	Low	High	Low	High
GFX Setting				
Recommended	1024x768	1920x1080	1024x768	1920x1080
Resolution				

11. Summary

Since LOL is a game that is so famous for its champions and storyline, I will use that to attract players. Moreover, many gamers are wanting to try playing LOL with other genres while still keeping the original character, plot and interface. So, I think if my game is invested in proper visuals (UI), it will have the potential to attract many players as well as gamers. However, I will only focus to playing style of the game (defense game) and less focus to the UI in this project.

12. Game Progress

	-	CS 461 - League of Guardians – 1			
	(Proposal L	Ipdating, Development Status, Schedule w	vith Remaining Milestones)		
Design updates		 Genre: focus to defense game (no extent to auto chess anymore). Story: no add story for now, will add later if have time. Champions: will be import from the models I collect online (will note this as resource) and some objects I created by Blender. 			
Updates on the	The rules changed	 While the player can get money from kill enemies, the money is also increased over time. 			
proposal	The features changed	 The upgrade options for champion, towel will be canceled for now. Show the time for each wave of minions if need it. Player can control the camera, zoom in, zoom out, moving up, down, left, right but only inside the map, of course. 			
Design prob	 I downloaded some objects (models) on internet but when I import it missing some parts and disappearing some textures. I have to import and fix it by my own. I have to create many object and move it to the coressponding position map for the collision purpose, this took me a while. The ratio of my game is 16:9 but the map of this game is square ratio. to create many object to cover the background when player zoom out stage but still in the map. 		me textures. I have to import it to Blender it to the coressponding position in the me a while. p of this game is square ratio. Then I need		
Implementa problems	 When I zoom in and zoom out the camera, some of the objects are disated have the Z-fighting (collision between 2 objects that same position when rendering). I need re-hierarchy for these object as well as modify some the camera. Implementation 		objects that same position when cobject as well as modify some set up of a to the map is different, then I have to les to detect the position of the camera, corresponding with its position. ly (top, middle, bottom) and do not go to		
Team member is working on what part		Tung Duong work for whole parts in this project.			
Fast		Have been consisted	Domain to be secured at a		
Features Game idea		 Have been completed Defense game as described in the project proposal. 	 Remain to be completed Nothing for now. If I have time will try to do with the auto chess. 		
Game elements		Almost complete the map plus corresponding collider objects for the terrain and objects on it.	 Towers (already collected and need fix something before importing) Champions Minions 		

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Mechanics	 It will easy to play and fun since I'm creating this game base on basic defense game but relate LOL game. 	 Try to have save mode if I have time to do with the data for this game.
Physics	 Collisions for terrain, objects, , etc. in the map. The gravity, moving speed of minion, champions (walking, running). 	 Collisions for champions, minions, etc. laze of tower, bullet or skill from champions etc.
Animation, modeling	 Try to adding some animation of the environment such as wind, cloud, etc. I have collect some objects and modify with Blender, then it will be great for game. 	 Animation for champions and minions. Fixing models with Blender (wrong hierarchy order, missing textures, materials, etc.).
Aesthetics	I'm collecting the sounds for background, attack effect, win or lose effect, etc.	Will import the sounds coresponding when the game almost ready (I will do this at the end of the progress)
UI	 Try to add friendly UI, and have at least 3 modes for player (easy, normal, hard). The ratio of camera is good now, already have many object to cover background when zoom in and out camera. 	 Need the menus and UI for beginning of game. I do not plan to create many scenes for each level now. Instead, I will increase level of the game by increase the speed and damage of champions, minions, towers, etc over time.
	With the features remain need to be con-	mpleted above, I will do:
	 Try to complete all the collider box in the map Import models (towers, champions, minions) Add moving for the objects 	o expecting to be completed by 4/17
Schedule with	 Add script for user interact with game (important) 	o expecting to be completed by 4/24
Remaining Milestones	Add effect for the laze, bulletsAdd UI (menu, money, buy items)	o expecting to be completed by 5/1
	Add some basic animationsAdd sounds	o expecting to be completed by 5/5
	Prepare for the presentation and demo of game	o due 5/9
	Final paper	o due 5/16

- ❖ I have added some screenshots of my progress for this game below. It shows:
 - some of global variables in the camera's script
 - how I arrange the position for the object, the object to cover background
 - camera moving in game mode
 - the box collider for terrain in the map, and more.





