Due: Monday, October 26, 2020, 8:00 AM (submit to BlackBoard, under Assignments	;)			
File Type: PDF				
Team No. 14				
Team Members: FeiShian Tzeng, Haochuan Zhang, Zitong Zhang, Zhou Jialei				
Project Name: The unmanageable				
Project Synopsis (1-25 words)				
A real-time strategy game that users could place certain army units they want	to fight			
against the enemy. Eventually, who destroys the enemy's fort will be the winner.				
Project Description (150-250 words)				
□ Why is the project being undertaken?				
We plan to design the computer game as our cap stone project because all four of us	are			
gamers and we like playing the computer games. Hence, we decide to make a game cap stone project that we could be proud of.	as our			
Describe an opportunity or problem that the project is to address.				
We decide to use Unreal 4 Engine to design the architecture and the map. But none	of us			
has the experience of any gaming engine so it is time-consuming to learn how to use	Unreal			
4 to design a satisfied map. Furthermore, Unreal 4 does not run on the laptop but not us has the desktop PC at home so it might the technical issue for us.	all of			
□ What will be the end result of the project?				
The result of the project would be a well-designed playable computer game. Since ou	ır game			
is a strategy game, we hope the players could escape from the stress of the lives and	l enjoy			
their time on the game.				
Project Milestones Milestone1(before Nov): Setup background storyline and functional behaviors	of			
different war units (in text).				
☐ Milestone2(before Dec): Setup interface of game and how program flow for al	game			
(in code).				
Milestone3(before winter break ends): Set all file frame (in code) for different				
classes(roughly).				
Milestone4(before April): Completely finish all the game basic function. Then				
combine them together, make it				
Work.				
☐ Milestone5(before May): sent game to others and testing them, then fix the bu	gs			
(pressure test).	na			
☐ Milestone6(before final time): update graphics to game, and finishing debuggi	ig.			
Project Budget				
□ Hardware: Desktop PC				
Software: Unreal 4 Engine.				
☐ Estimated cost: 100 USD				
It is better to set up the desktop PC before the winter since we plan to start work together.				
this winter. The reason we need the desktop PC is because Unreal 4 does not run or on most of situations. Even though it runs on the laptop, the performance would be lir				
Preliminary Project Design				
☐ How the software works				

	Design constraints (see BlackBoard under Assignments for a description of design		
constraints)			
	1,000-1,500 words		
	3-5 graphs, charts, or illustrations		
Prelim	inary project design		

We will make a real-time strategy game that can first be run on a PC and operated with a mouse and keyboard. The game supports up to two real players, or one player and one AI. Can support networking and local area network and independent game modes. The point of view of the game is overhead. The audience of the game is basically between 15 and 25 years old. There is no gender difference, but there are certain requirements for game knowledge. Players who are not exposed to the game may spend more than 4 hours of learning time. Generally speaking, the complete game time is between 30 and 1 hour, so it is expected that players will have complete game time. Egg game provides save function, so you can use the scattered time to play. After playing this game, learners can relax and there is no plan to add educational elements. In the modern future, the game will be played in a parallel overhead world. The game has multiple regional settings, but the main regional settings are played in the wild and mountainous areas. In this plan, we will use Berlin noise to generate different maps and use different frequencies to make both parties have a fair game.

The map is used as the main interactive interface (basic elements: combat units belonging to the player, neutral buildings, terrain). The map accepts instructions from players to generate fighter jets. The soldiers will advance in accordance with the established method of action. The main method to distinguish different fighters in the field of view and the range of attack. If an interaction event is found in the field of vision (an enemy is found, a neutral building is found, and interaction with its own unit occurs), the fighter will change its course accordingly and interact with the target when it reaches the attack point.

The winning condition of the game is to destroy the opponent's base (located at both ends of the map), so the player needs to predict and respond to the opponent's behavior. Because the fighter cannot be directly affected by the fighter after the generator, the player needs to regenerate the fighter to think and predict the ideas of the opponent player. The game will make players who like to play the game addictive, even if the player loses, they can get the next way to win from the game. Every time you win, you can earn points by purchasing skins. In online games, victory will earn points. It will not affect the balance of the game and the vanity of the player. Compared with similar games, the game has a larger map space and complex units, and has certain requirements in operation, so players will never pass the game in a short time, thereby extending the service life of the game.

Ethical Issues (100-500 words per issue)

Computer games have been exploited in the educational procedures since they help in fostering the creativity, in familiarization with technology, and develop problem-solving, logical thinking, communications, and the collaborative skills. People think games could be a drug or medicine to the society since players are fully motivated in either positive or negative ways. Computer games now are ethically affecting players' attitudes, thoughts, and ideas. The ethical issues include violence, racist, education, stereotype against women or any minor groups. There are many games involving violence as well as other content related to the violent acts. Hence, people usually believe that playing these types of computer games can make the players to be more violent. However, games could also be used to teach many positive things. Hence, every member as the game designer in our group has to avoid any

ethical issues mentioned above and tries the best to make the game to not affect the players in any negative ways.

Intellectual Property Issues (100-500 words per issue)

Our group uses Unreal 4 Engine to design the map, architectures, and the characters for the game. This gaming engine could be downloaded for free online and it allows users to connect multiple instances of Unreal 4 Engine editors together to work collaboratively in a shared editing session. Also, there are many open source codes available on GitHub repository. Users could use some of them for free or choose to pay for it for a premium version. Since Unreal 4 Engine allows users to collect other's source code, we must be very careful of it. Before using the code, we must check if the author of the source code allows us to use his/her code in our project. Even though the author has clearly pointed that anyone could use the source code for free, we still need to give the credits to the author by citing the name of the author and his/her work in the citation.

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	Explain what parts of the Initial Project Description were changed and why
	1-2 sentences per change
	the content of game, because we believe if we wanna add everything into our game
then w	ve can't make anything