

Report final project CS427



I) Story that leads to our idea:

- Firstly, our group would like to create a multiplayer game to play together, so our first ideas were: racing game, FPS game, and RPG game, ...
- Next, because we are new to gaming creation, we thought that we need to have some default scripts and game objects that are already designed by professionals.
- Then we found a lot of resources for first person perspective game, and we linked to our final examination, which leads us to create a first person horror game.
- Finally, our team leader somehow decided to increase the horror aspect that makes the main character unable to kill the enemies, the protagonist can only run and cannot fight back (like Outlast).

II) Main idea:

- The world has been infected by a virus, that could spread and has created an enormous zombie apocalypse.
- The main character is hiding in a dark wood, with no equipment to fight back. How long can he survive? Only god knows.

III) Team members and roles:

- **Bùi Quốc Huy**, 1651076 - Team leader: providing ideas and resources for members.
- **Đỗ Thái Bảo**, 1651059 - Terrain and map builder.
- **Phạm Việt An**, 1651042 - Network management for multiplayer and enemy spawn mechanism (and report writer).
- **Hoàng Đình Hiếu**, 1651045 - Scripting for main character and enemies.

Along the project every members also help others when in need, so I would like to emphasize that the roles above are not everything they do for the project.

IV) Features:

- The character is controlled in 3rd person view and can move via WASD keys and mouse.
- The zombies are slower than the main character but will get to spawned in several locations in the map. There is no limitation for the number of zombies in the map.
- The score of the player is based on the time duration that he can survive.
- In multiplayer mode, people can play in LAN or create room on the server for other players to join. The one who hold can hold the longest breath is the winner.
- To increase the horror, we added that the main character has already infected by the zombie virus and he will die when he stays still for 5 seconds.
- User can change graphic setting such as screen resolution, windowed mode, and graphic quality.

V) Build:

- The game is developed on Unity version **2019.2.0f1** and was built for Windows and WebGL.

VI) Resources references:

1. Environment

- Urban night sky:
<https://assetstore.unity.com/packages/2d/textures-materials/sky/urban-night-sky-134468>
- Nature starter kit 2:
<https://assetstore.unity.com/packages/3d/environments/nature-starter-kit-2-52977>
- Rain drop effect 2:
<https://assetstore.unity.com/packages/vfx/shaders/fullscreen-camera-effects/rain-drop-effect-2-59986>

2. Enemy

- Zombie animation pack free:
<https://assetstore.unity.com/packages/3d/animations/zombie-animation-pack-free-150219>
- Modern zombie free:
<https://assetstore.unity.com/packages/3d/characters/humanoids/modern-zombie-free-58134>

3. Player

- Bodyguards:
<https://assetstore.unity.com/packages/3d/characters/humanoids/bodyguards-31711>

4. Basic asset

- Standard assets:
<https://assetstore.unity.com/packages/essentials/asset-packs/standard-assets-32351>
- Textmesh pro:
<https://assetstore.unity.com/packages/essentials/beta-projects/textmesh-pro-84126>

5. Network

- Network lobby: <https://assetstore.unity.com/packages/essentials/network-lobby-41836>