High Level Requirements

- 1. The game must be developed for a Windows desktop PC.
- 2. The game must contain at least one map.
 - The map must have a designated spawning location for the player and AI.
 - b. The map must have a designated location for crafting weapons.
- 3. The game must contain a main menu
 - a. The main menu must have the options to start the game, read instructions on how to play the game, and exit the game
- 4. The game must contain at least one player, and at least one Al.
- 5. The player must find materials located around the map, and bring them to a designated crafting location.
 - a. Once all materials have been brought to the crafting location, the game must spawn a weapon for the player.
- 6. The player may optionally complete minor objectives.
 - a. The player must complete the minor objective by standing at its location for a set duration.
 - b. Each completed minor objective must provide either a tool or a trap for the player.
 - i. Tools will be items to aid the player.
 - ii. Traps will be items to hinder the Al.
- 7. For each instance of a game, the game must randomly select a Material Set
 - The Material Set contains a set of materials that the player must find to build a weapon.
 - Each Material Set must produce a different weapon.
- 8. The AI must prevent the player from building a weapon.
 - a. The AI must have health
 - b. The AI must start by roaming the map.
 - c. The AI must learn to prioritize areas of the map to track down the player.
 - d. The AI must learn to identify traps set by the player to avoid setting them off.
 - e. The AI must have skills to hunt down the player, including but not limited to night vision, sprinting, and leaping.
- 9. Once the game has spawned a weapon for the player, the player must be able to use the weapon to defeat the AI.
 - a. The player wins the game when the Al's health reaches 0.
- 10. The AI must be able to win the game by capturing the player three times.
 - a. The player is considered captured if the AI reaches the player.
 - b. If the player is captured, the player must respawn at the designated spawning location in the map.
- 11. The game must restart when the player or Al wins.