Champion Document

Company: 513 Studios | Game: Dread | Feature: Enemies

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1. Brief introduction

My feature for the Dread video game is the enemy and enemy spawning.

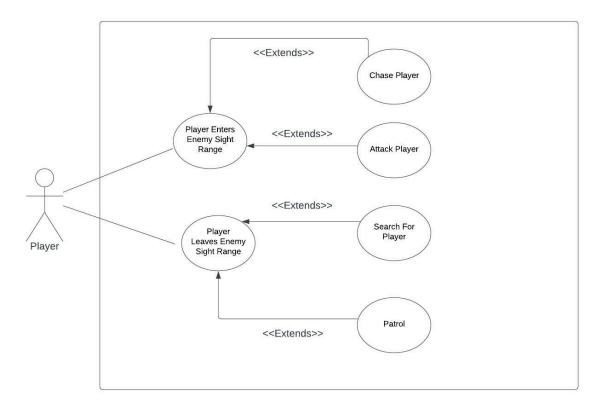
The enemies in Dread will be placed randomly in the rooms the player enters. There are three different types of enemies: Auto Turrets, Light Enemies, and Heavy Enemies. Auto Turrets are stationary with low health, search for and shoot at the player. Light Enemies will be the most common, with medium health, medium speed, and ranged attacks. Heavy enemies are harder to kill and travel slower compared to light enemies. As a player, there is one main strategy for coming out of combat victorious, that is to survive and destroy the enemy hoards before they destroy you.

2. Use case diagram with scenario

Use Case Diagrams

Scenarios

Scenario 1 (first Use Case Diagram):



Name: Enter Enemy Sight

Summary: The player enters the sight range of the enemy, the

Actors: Player

Preconditions: The player has just started a new game and is in a room moving around.

Basic sequence:

Step 1: Player enters the enemy sight range.

Step 2: The enemy will begin to target and chase the player.

Step 3: If the player enters the attack range of the enemy, the enemy will attack the player

Step 4: If the player leaves the sight range of the enemy, the enemy will search for the player.

Exceptions:

Step 1: If the player leaves the attack range of the enemy, but is still within the enemy sight, the enemy will chase the player.

Step 2: If the player leaves the sight of the enemy, the enemy will search for the player.

Step 3: if the enemy finds the player, the enemy will chase.

Step 4: if the enemy finds the player, the enemy will

Post conditions: The level is created, and the player is currently in it.

Priority: 2* ID: TM01

*The priorities are 1 = must have, 2 = essential, 3 = nice to have.

3. Data Flow diagram(s) from Level 0 to process description for your feature

Data Flow Diagrams

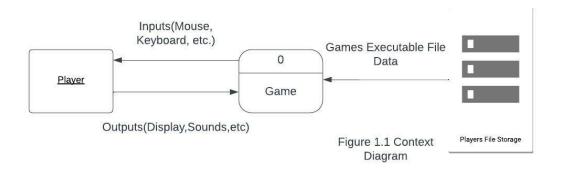


Figure 1.1: Context Diagram

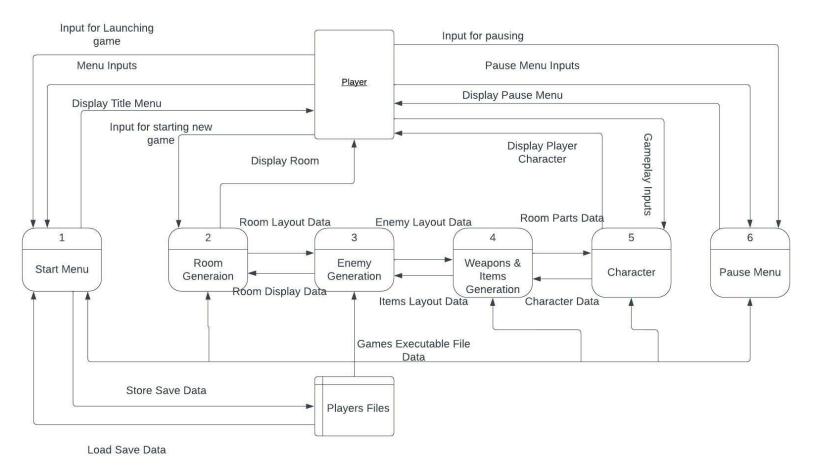
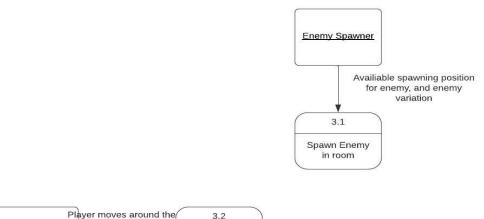


Figure 1.2: Diagram 0



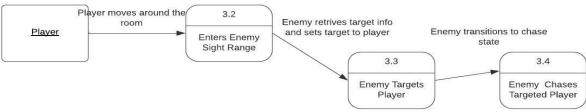


Figure 1.3: Enemy Chase Process Diagram 3

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Process Descriptions
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[pseudocode/decision tree/decision table] Structured English Process Description for 3.4 Enemy Chases Player

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IF Enemy target is not set

Set state to Patrol

Enemy Patrols Room
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IF Player enters Enemy sight range Set Enemy Target to Player Set State to Chase state Enemy Chases target

ENDIF

ENDIF

4. Acceptance Tests

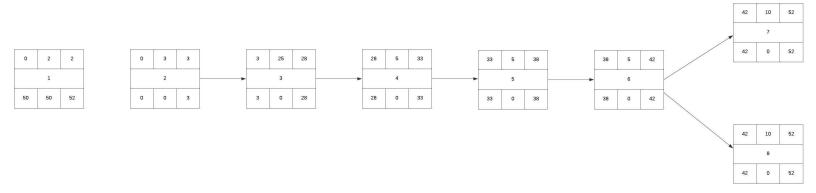
One thing to test is if the Enemy mechanic is working properly. The Enemy should correctly patrol a room, as well as chase a player when they enter the Enemy sight range. To test this, one could spawn several enemies in a room without a player character. Observing the enemy movement patterns, making sure they patrol the room properly. Then one could spawn a player character right in front of an enemy testing, the ability of the enemies to chase the player.

5. Timeline

Work items

Task	Predicted Duration (in hours)	Predecessor Task(s)
1 Find Assets	2	
2 Create Enemy Stats SO	3	
3 Create Base Enemy Super Class	25	2
4 Create Auto Turret subclass	5	3
5 Create Light Enemy subclass	5	4
6 Create Heavy Enemy subclass	5	5
7 Integrate Enemy spawning with level generation	10	6
8 Integrate Enemy classes with weapons	10	6

Pert diagram



Gantt timeline

NOTE: To view the full Gantt chart, please visit the following link:

 $https://docs.google.com/spreadsheets/d/1Se-EF_0ynSlkFT2f6f8-4OJB85mVPcCAFHcMdbCiqtI/edit\#gid=1709744959$

Enemy Feature Gantt This is a Gantt chart which focuses on creating a feature schedule that is broken down into tasks. PROJECT TITLE Enemy Finisher Gents Company Name 9/15/22



