

1. Brief introduction __/3

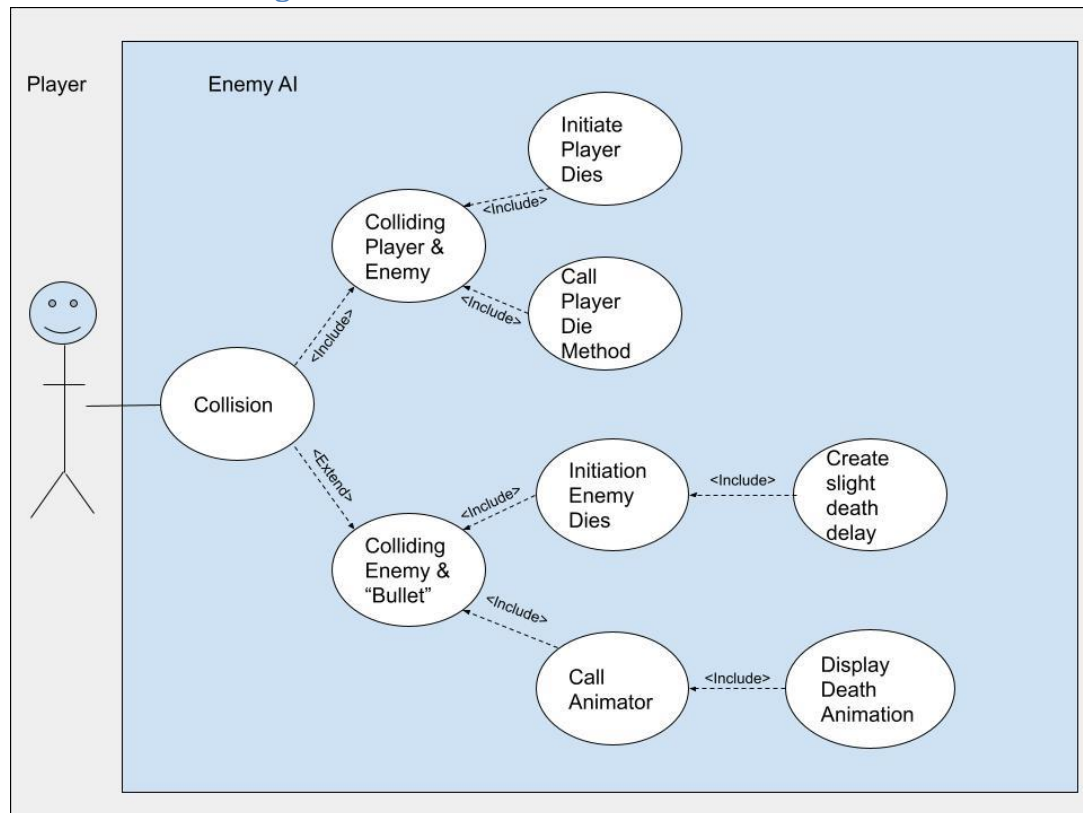
The feature I am tasked with in Super Spicy Gun Game is the enemies.

My feature so far has consisted of creating a tomato which is animated, and it dies when shot by a gun. My feature however is not simply limited to this and will cascade into many different enemy variants as the game develops.

As well as enemies I will be handling the unity Testing Framework and will be setting that up as well.

2. Use case diagram with scenario __14

Use Case Diagrams



Scenarios

Name: Enemy Action

Summary: The Player interacts with the enemy by either dying or killing the enemy

Actors: Player.

Preconditions: Game has started and is in a level phase.

Basic sequence:

Step 1: Collision Relationship Occurs

Step 2: Player and Enemy game objects collide.

Step 3: Player game object destroyed by calling method within Player script.

Exceptions:

Step 1: Player Shoots enemy with a gun and bullet collides with enemy.

Step 2: Enemy Animator and `GameObject.destroy()` are called.

Step 3: Death animation displayed; destroy object is delayed for animation to play.

Post conditions: Enemy or Player game objects are destroyed.

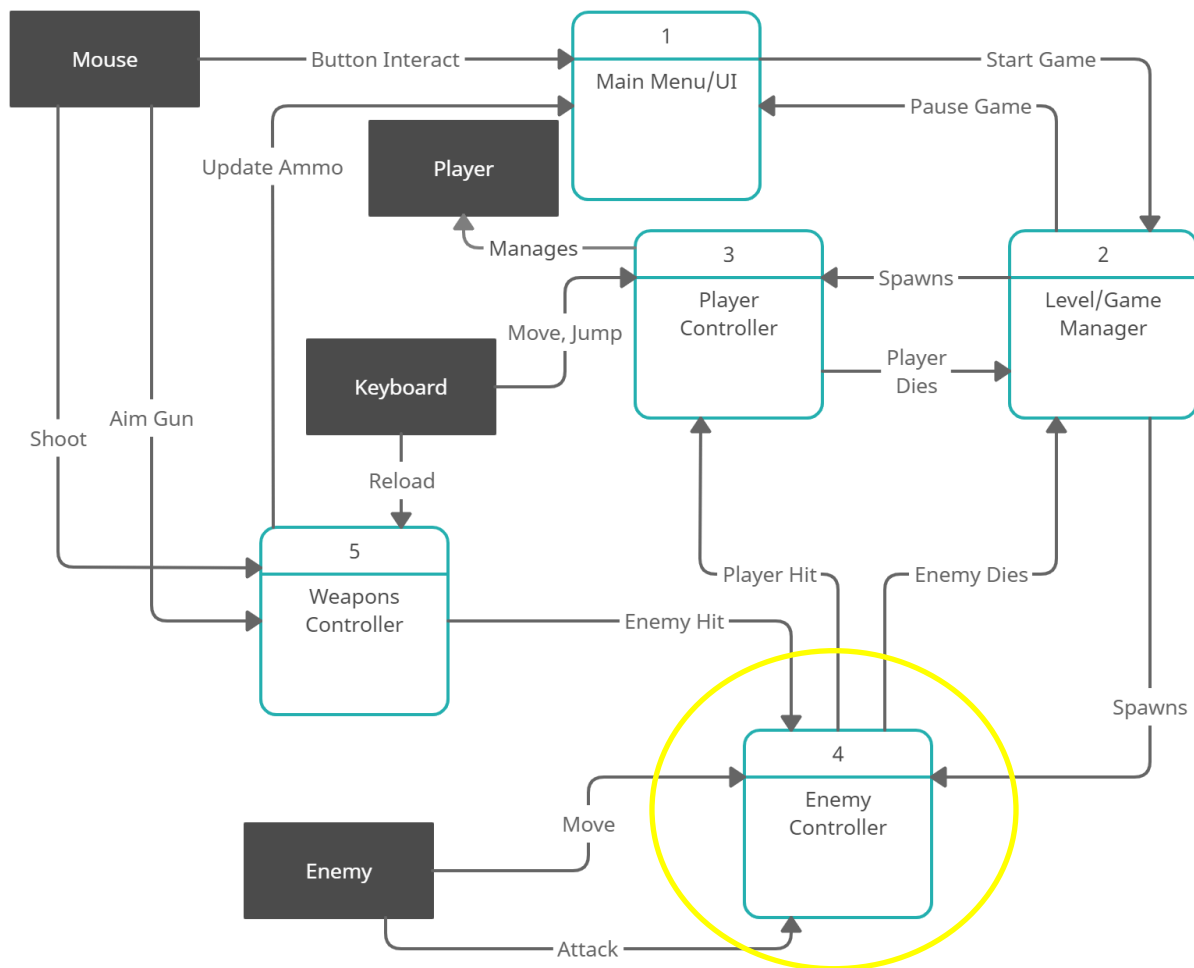
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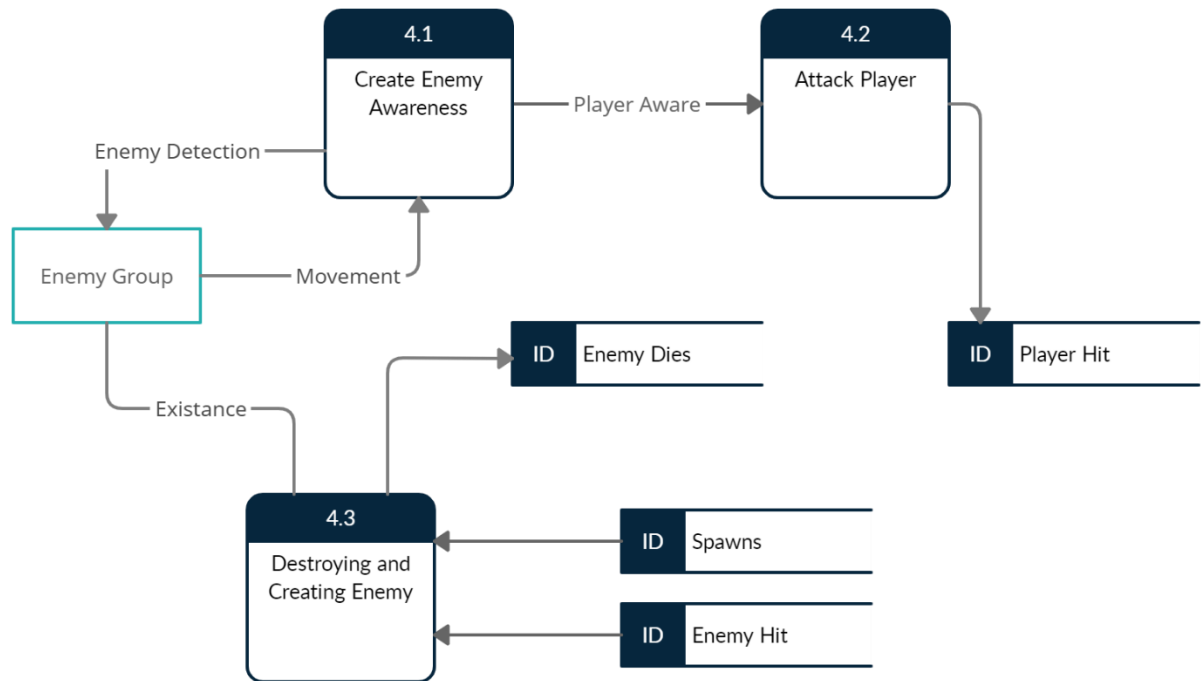
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*The priorities are 1 = must have, 2 = essential, 3 = nice to have.

3. Data Flow diagram(s) from Level 0 to process description for your feature ____14

Data Flow Diagrams





Process Descriptions

Enemy Awareness:

- When enemy detects non-player barrier
 - Avoid and redirect movement.
- When enemy detects player barrier
 - Pursue while within area of sight.
 - Destroy when touch player.
- Receives bullet or melee collision.
 - Takes lethal or partial damage.
- When enemy destroyed
 - Enters spawner
 - Produces additional enemies while within range limit

4. Acceptance Tests _____9

Player Detection: Detects and destroys player

Enemy Awareness: Navigates the area, avoiding non-player objects

Enemy Destroy: Dies when hit by bullet

| Input | Output | Notes |
|--------|------------|---------------------------------|
| Player | Player Die | Kills player when touching them |
| Bullet | Enemy Die | Dies when hit by bullet |

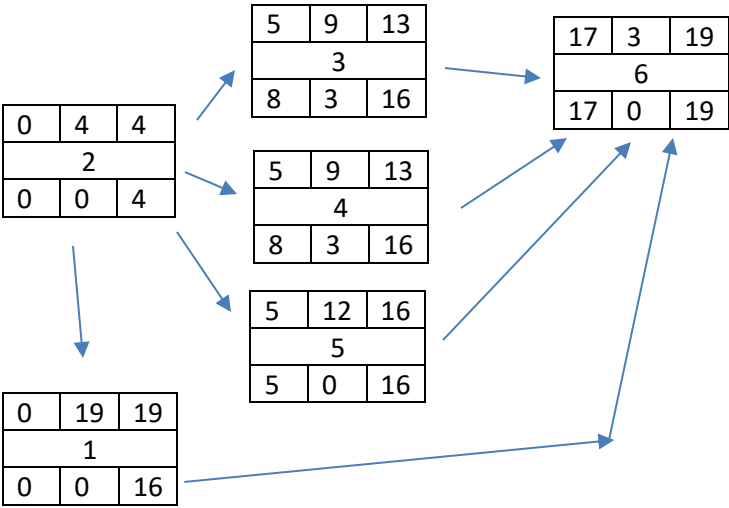
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|-------------|---------------------|---|
| Game Object | Is or Is not Player | Avoids non-player game objects and directs to a different direction of movement |
|-------------|---------------------|---|

5. Timeline ____/10

Work items

| Task | Duration (wks) | Predecessor Task(s) |
|---------------------------|----------------|---------------------|
| 1. Learning Tools | 19 | - |
| 2. Enemy Ideas and Collab | 4 | 1 |
| 3. Animation | 9 | 2, 3 |
| 4. Scripting | 9 | 2, 3 |
| 5. Unity Tooling | 12 | 2, 3,4 |
| 6. Game Testing | 3 | 5 |

Pert diagram



Gantt timeline

[illegible]

Legend:

Black = Completed, Yellow = Scheduled, Red = Still needed