

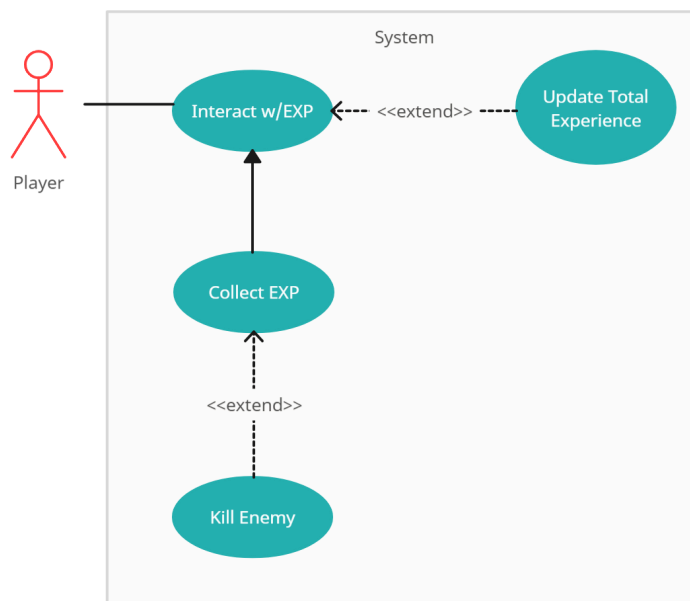
1. Brief introduction

My feature for CS Survivor is the experience (exp) collection for leveling up the player.

When the player kills an enemy, my job is to make sure that exp is dropped so that they can collect it. I need to make the exp collected interact with the level system, and the player can progress their level.

I'm also in charge of making sure the player can spend skill points gained by leveling up to unlock new skills or upgrade old skills.

2. Use case diagram with scenario



Scenario 1:

Name: Interact with Exp

Summary: Player engages in combat with an enemy, defeats it, and collects the dropped experience points.

Actors: Player, Enemy

Preconditions: Player is in an area with enemies and is able to engage in combat

Basic Sequence:

Step 1: Player defeats enemy

Step 2: Enemy drops experience

Step 3: Player collects the experience

Step 4: Player's total experience is updated

Exceptions:

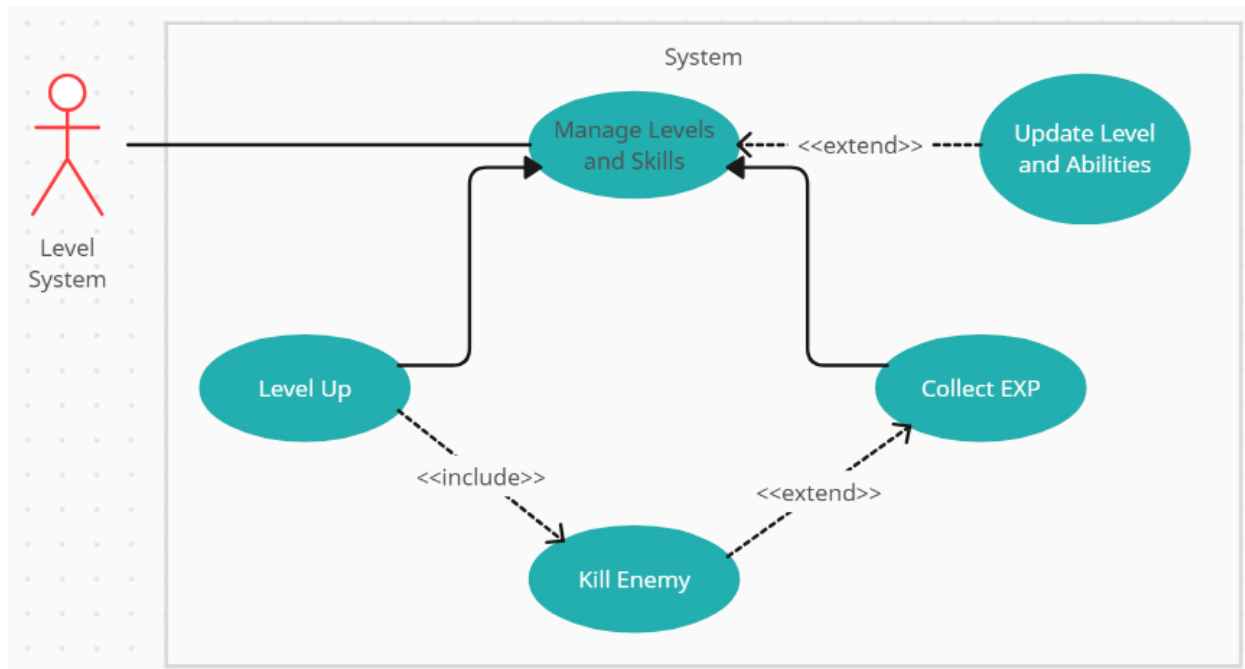
Step 1: No enemy is defeated

Step 2: No experience is collected

Post Conditions: Player's total experience is increased

Priority: 1

ID: EXP1



Scenario 2:

Name: Manage Levels and Skills

Summary: Player levels up after gaining exp, receives skill points, and spends them to improve abilities.

Actors: Level System, Actor

Preconditions: Player has collected exp

Basic Sequence:

Step 1: System detects player reached sufficient exp for level up

Step 2: Player gains skill point(s)

Step 3: Player chooses to spend skill point(s)

Step 4: Player's abilities are updated based on skills chosen

Exceptions:

Step 1: Player does not have sufficient skill point(s) to spend

Step 2: Player did not level up or choose a skill

Post Conditions: Player's level, skills, and skill points are updated

Priority: 1

ID: SKL1

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

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4. Acceptance Tests

For exp drop and collection, the player kills an enemy to make it drop exp so that they can collect it. This is done 100 times. Killing an enemy should drop exp. Collecting exp should progress the player's level.

Example Output Test Check:

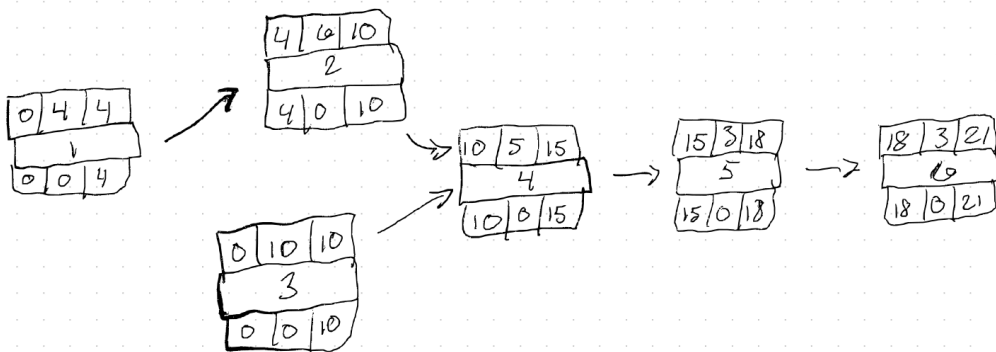
Test	# of success	# of fail	% success
Exp Drop	90	10	90%
Exp Collect	80	20	80%

5. Timeline

Work Items

Task	Duration (hours)	Predecessor Task(s)
1. Exp Drop & Collection	4	-
2. Exp/Level Progression	6	1
3. Skill Point & Skill Tree Implementation	10	-
4. UI development	5	2, 3
5. Testing & Balancing	3	4
6. Deployment	3	5

Pert Diagram



Gantt Chart

