Name: Garrett Pearsall	Mark	_/50
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[Instructions: Remove everything that is not a heading below and fill in with your own diagrams, etc.]

1. Brief introduction _/3

The feature that I am going to be working on is the weapons in the game. I am going to incorporate two main types of weapons, melee and range. I will receive inputs from user and enemy to initiate swing or projectile depending on what weapon used and will output if the collision is true to deal damage.

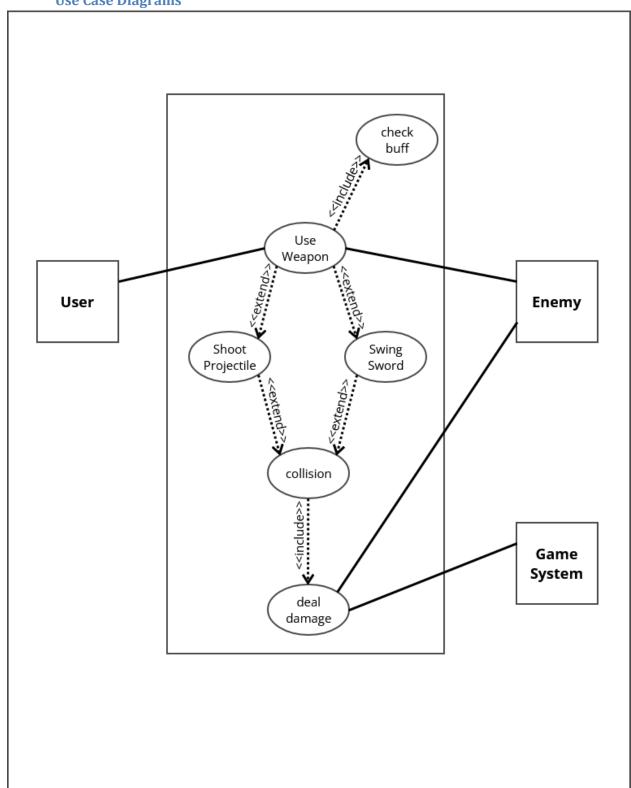
2. Use case diagram with scenario _14

[Use the lecture notes in class.

Ensure you have at least one exception case, and that the <<extend>> matches up with the Exceptions in your scenario, and the Exception step matches your Basic Sequence step.

Also include an <<include>> that is a suitable candidate for dynamic binding]

Example:



Scenarios

[You will need a scenario for each use case]

Name: Use Weapon

Summary: An entity(player or enemy) uses one of the two types of weapons to try and

hit a different entity.

Preconditions: Player has to be initiated with a weapon, level has to be initiated, and

enemies have to be initiated

Basic sequence:

Step 1: Entity initiated an attack

Step 2: System checks for any active buffs

Step 3: Swing melee weapon

Step 4: Collides with enemy

Step 5: Deal damage

Exceptions:

Step 3.1: Ranged weapon is used and initiates a projectile

Step 4.1: Misses the enemy and deal damage is void

Step 4.2: Collides with wall and damage is void

Post conditions: Damage only the enemy if hit

Priority: 1*
ID: C01

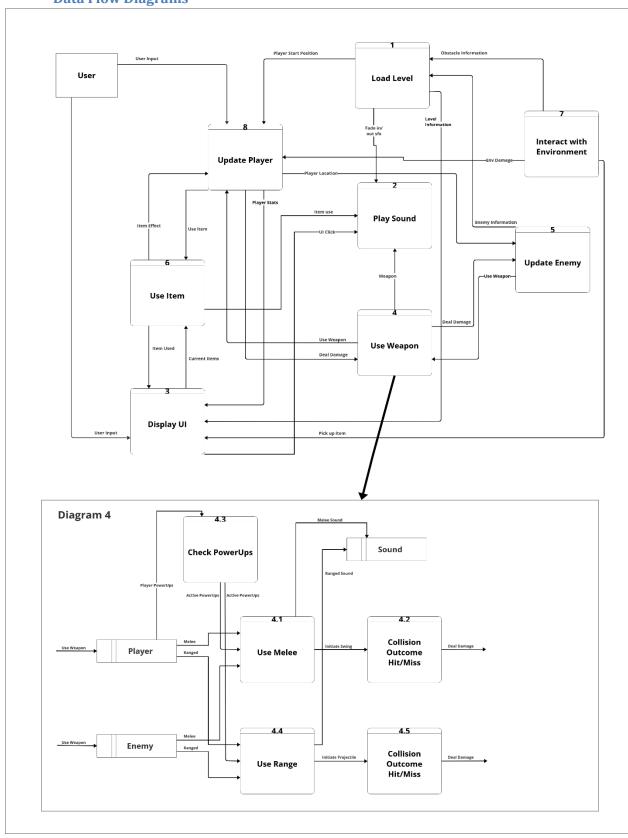
3. Data Flow diagram(s) from Level 0 to process description for your feature _____14

[Get the Level 0 from your team. Highlight the path to your feature]

Example:

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

Data Flow Diagrams



Process Descriptions

```
Use Weapon:
        IF player OR enemy initiates an attack
                If any buffs are active
                        Apply buff to attack
                Endif
                If used weapon is melee
                        Initiate swing
                        Record collision
                Endif
                If used weapon is ranged
                        Initiate projectile
                        Record collision
                Endif
                If collision is true
                        Deal damage
                Endif
```

4. Acceptance Tests _____9

[Describe the inputs and outputs of the tests you will run. Ensure you cover all the boundary cases.]

Projectile Test

Check what happens when shoot projectile is spammed(simulated by autoclicker)

The game will have the following outcomes:

Endif

- Each projectile will follow the correct process
- Game will maintain regular functionality

Health Test

Check what happens when health goes over max.

The game will have the following outcomes

- Health will always go to zero and not below zero
- Damage will never deal more than remaining health.

5. Timeline _____/10

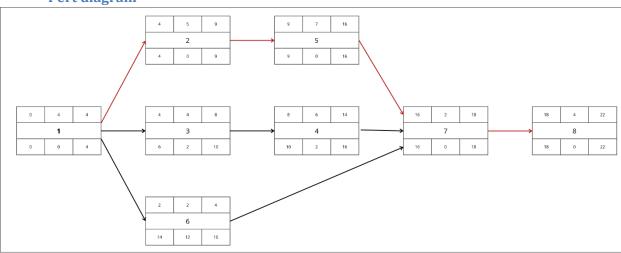
[Figure out the tasks required to complete your feature]

Example:

Work items

Task	Duration (Hours)	Predecessor Task(s)
1. Weapon Class Creation	4	-
2. Melee Weapon Creation	5	1
3. Ranged Weapon Creation	4	1
4. Projectile Characteristics	6	3
5. Melee Swing Creation	7	2
6. PowerUp Checks	2	1
7. Implementation	1	4, 5, 6
8. Testing	4	8

Pert diagram



Gantt timeline

