Name: Sasha Bearman-Drummond	Mark	/50
realise Sasila Scallian Stalling	ITIMITY	

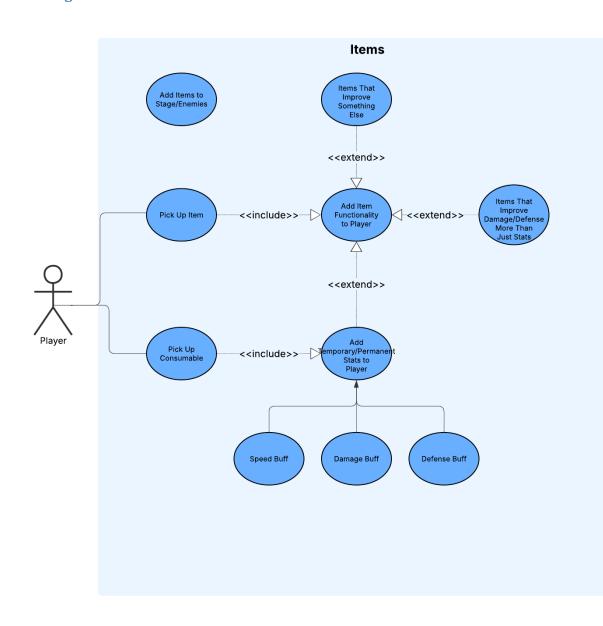
[Instructions: Remove everything that is not a heading below and fill in with your own diagrams, etc.]

# 1. Brief introduction \_\_/3

I'm going to be doing the items and consumables for our game. I'm planning on adding various items that buff the player permanently and some that will provide temporary buffs.

# 2. Use case diagram with scenario \_14

#### **Use Case Diagrams**



#### **Scenarios**

[You will need a scenario for each use case]

Name: Pick up item

Summary: The player picks up an item.

Actors: Player

Preconditions: Item has spawned

**Basic sequence:** 

Step 1: Figure out which item has been picked up

Step 2: Add stats to player.

**Exceptions:** 

N/A

Post conditions: Player has added stats.

Priority: 2\* ID: C01

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

Name: Pick up consumable

**Summary:** The player picks up a consumable.

**Actors:** Player

**Preconditions:** Consumable has spawned

**Basic sequence:** 

**Step 1:** Figure out which consumable has been picked up

**Step 2:** Add stats to player for a set duration.

**Exceptions:** 

1: Added stats exceed duration.

**Post conditions:** Player has added stats for a set duration.

Priority: 2\* ID: C01

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

Name: Spawn items

**Summary:** Items spawn on the map.

Actors: N/A

**Preconditions:** Stage is generated.

**Basic sequence:** 

Step 1: Figure out which items should be spawned

Step 2: Figure out where they are spawned

Step 3: Spawn the items

**Exceptions:** 

N/A

Post conditions: Player has added stats.

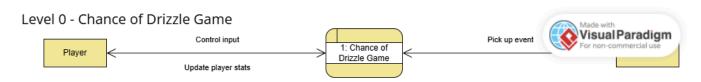
Priority: 2\* ID: C01

# 3. Data Flow diagram(s) from Level 0 to process description for your feature \_\_\_\_\_14

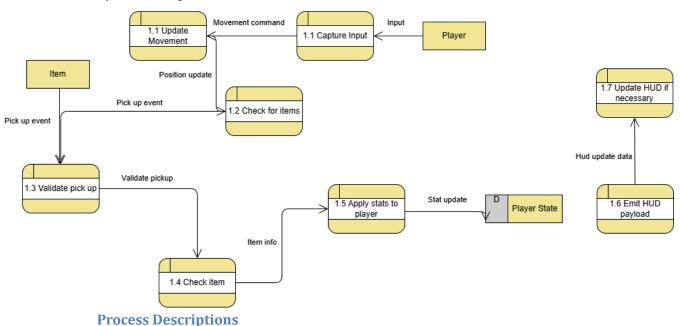
[Get the Level 0 from your team. Highlight the path to your feature]

Example:

#### **Data Flow Diagrams**



Level 1 - Pick Up Item - Player



Validate pickup:

IF item collision detects player AND player collision detects item, validate the pickup and go to check item

<sup>\*</sup>The priorities are 1 = must have, 2 = essential, 3 = nice to have.

#### Check item:

IF item is an item AND item can be applied, apply the item to the player and update any player stats or abilities accordingly

#### Apply stats to player:

IF item was checked to be valid apply item buffs

#### Update movement:

IF input was captured AND it's a valid move (ie not into a wall), then move player model and camera accordingly

# 4. Acceptance Tests \_\_\_\_\_9

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

Run feature 100 times with different item inputs sending output (buffs to player) to a file if possible

The output file will have the following characteristics:

- -Test with items that don't exist, shouldn't add anything to player
- -Test all implemented items with successful results in the output file
- -Test exceeding the limit of stat buffs. Etc
- -No results that don't align with feature intentions

**Example for item feature** 

Output	GetItem(it em)	Notes
speed += 1	"speedBoo ts"	
speed += 1 for 1 minute	"speedBerr y"	Only add buffs for 1 minute
null	"notanite m"	Discard all input that isn't a valid item

if(spee dspeeds) d+1> ts" 100) return null
--

# **5. Timeline \_\_\_\_\_/10**

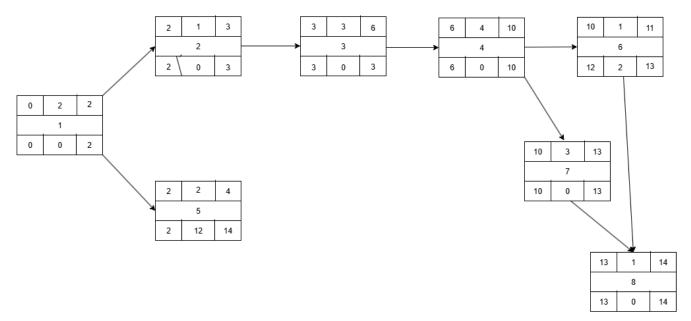
[Figure out the tasks required to complete your feature]

# Example:

# **Work items**

Task	Duration (Weeks)	Predecessor-Tasks
1. Item Creation and Design	2	-
2. Item Collision Programming	1	1
3. Item Pickup Programming	3	2
4. Item Stats/Upgrades Programming	4	1, 2, 3
5. Item Art	2	1
6. Documentation	1	2, 3, 4
7. Testing	3	1, 2, 3, 4
8. Installation	1	6, 7

Pert diagram



# **Gantt timeline**

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1															
2			1												
3				2											
4							3								
5			1												
6											4				
7											4				
8															