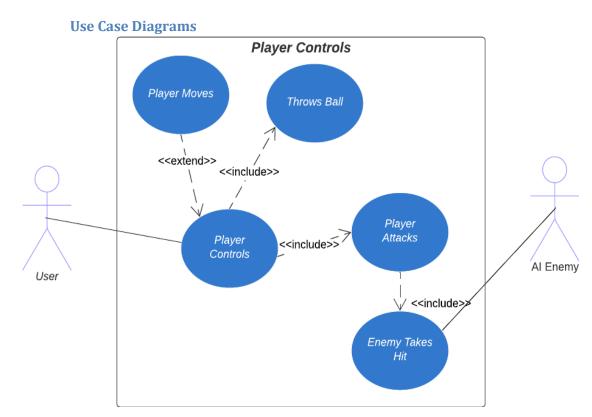
[Instructions: Remove everything that is not a heading below and fill in with your own diagrams, etc.]

1. Brief introduction __/3

This feature is the player character, which the user will control to interact with the game environment. The user will be able to move the character up, down, left and right. The player will also be able to dodge incoming balls and will be able to throw their own balls at the enemies to eliminate them. The player will have, health as well as stamina that can be used for a power attack.

2. Use case diagram with scenario _14



Scenarios

Name: Player Controls

Summary: The user uses the player controls to move and throw the dodgeball at the

enemy

Actors: User and AI enemy.

Preconditions: Level has been started.

Basic sequence:

Step 1: User controls the player to move into position.

Step 2: Using the controls the user throws a ball at enemy.

Step 3: Enemy takes a hit.

Exceptions:

Step 1: The thrown ball misses the enemy.

Step 2:

Post conditions: Enemy is eliminated from play

Priority: 1 ID: C01

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

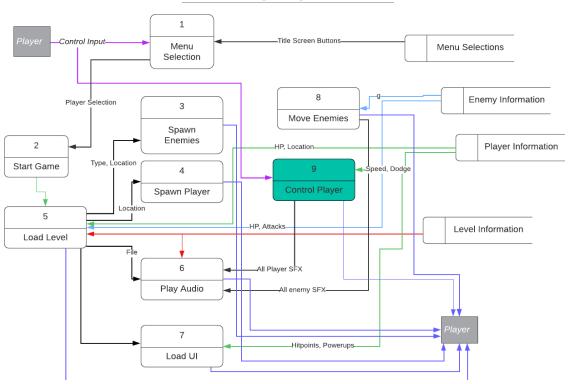
[Get the Level 0 from your team. Highlight the path to your feature]

Example:

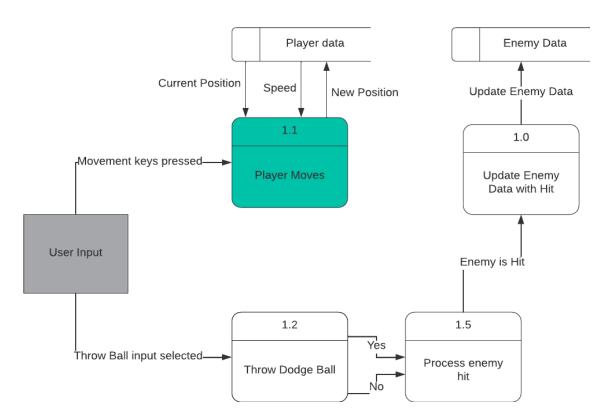
Data Flow Diagrams



Incoming!! Diagram 0



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



Process Descriptions

Throw Dodge Ball:

WHILE player health is above death level
IF up key pressed AND no collision detected
Move player up on the map
IF down key pressed AND no collision detected
Move player down

IF left key pressed AND no collision detected Move player left

IF right key is pressed AND no collision detected Move player right

IF dodge key pressed AND no collision detected
IF get random number > midpoint of range
IF roll will NOT cause collision
roll player out of way.

ELSE

Dodge fails, player takes damage

END WHILE

4. Acceptance Tests _____9

I intend to test the player collision detection when moving around obstacles in order to test the dodge function when dodging will result in colliding with an object such as terrain.

- Test with player character next to object with no gap (collision boxes overlapping.
- Test with player within dodge boundaries (< 1).
- Test with player at edge of dodge boundaries (>= 1).

Example for divide feature

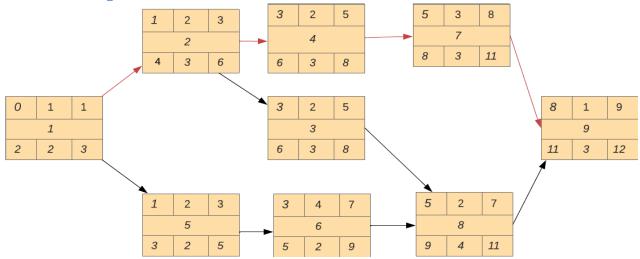
Distance from object (Unity Units 1 = meter)	Expected Result
0	Dodge fails, player takes damage
.25	Dodge fails, player takes damage
1	Dodge success, player escapes

5. Timeline _____/10

Work items

Task	Duration (PWks)	Predecessor Task(s)
1. Requirements Collection	1	-
2. Player Class Design	2	1
3. Player Controls	2	2
4. Physics Logic	2	2
5. Asset Design	2	1
6. Player Animation	4	5
7. Documentation	2	4
8. Testing	3	3,6
9. Release	1	7,8

Pert diagram



Gantt timeline

