Spaghetti Systems Analysis

By Scott, Collin, Ben, Garrett, Jeffrey, Cole, Korben

The Story of the **Pastafarian's Delight**

In the distant realm of Al Dente, the annual Great Feast of the Flying Spaghetti Monster is approaching.

Every year, the great and benevolent Flying Spaghetti Monster descends from the heavens to indulge in a dish made by the most clever and worthy chef of the land.

This year, that chef... is you.

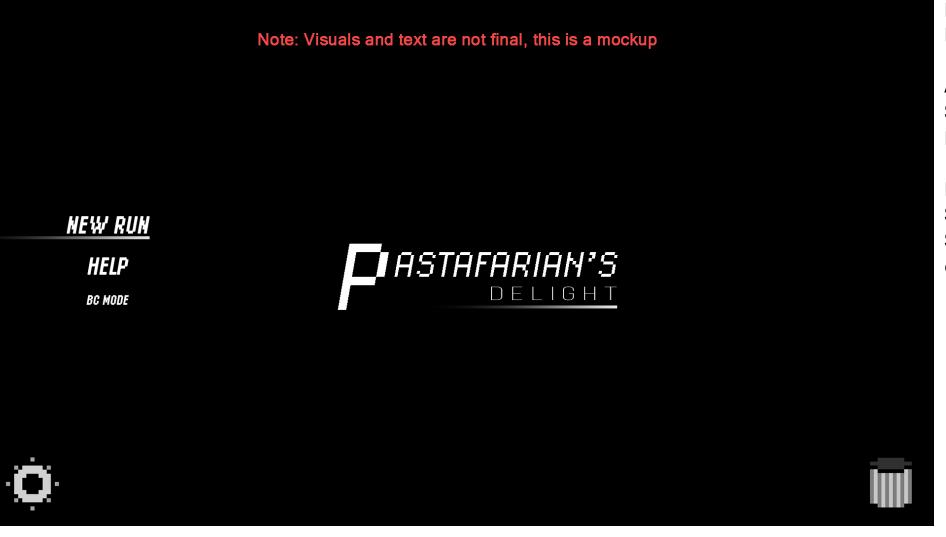
PASTAFARIAN'S DELIGHT STORY cont	
Your quest is to adventure into the pantry below, solving perplexing riddles and proving your culinary prowess. Each room of the pantry holds a clue to the fabled pasta dish.	
But beware, the depths of the pantry contains unknown dangers.	
Once all ingredients have been gathered, you must prepare the legendary dish. If you have chosen wisely, you may continue your journey to create more magical dishes.	
If not, you may never cook again	

Meet the team

Spaghetti Studio

- Garrett
- Scott
- Collin
- Korben
- Jeffrey
- Cole
- Ben





Dialogue:

None

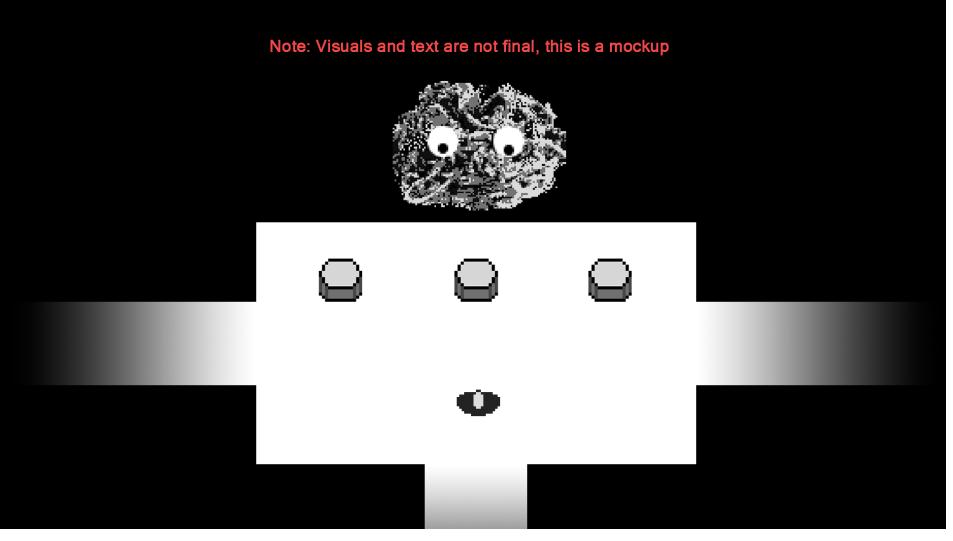
Action:

Select New Run, Help, or BC Mode

Notes:

Soft background music Sounds when hovering over or selecting menu items

Scene 2: Enter main room, meet the Flying Spaghetti Monster



Dialogue:

"The Flying Spaghetti Monster has chosen you to cook him a pasta dish.

You must solve his riddles to learn the ingredients"

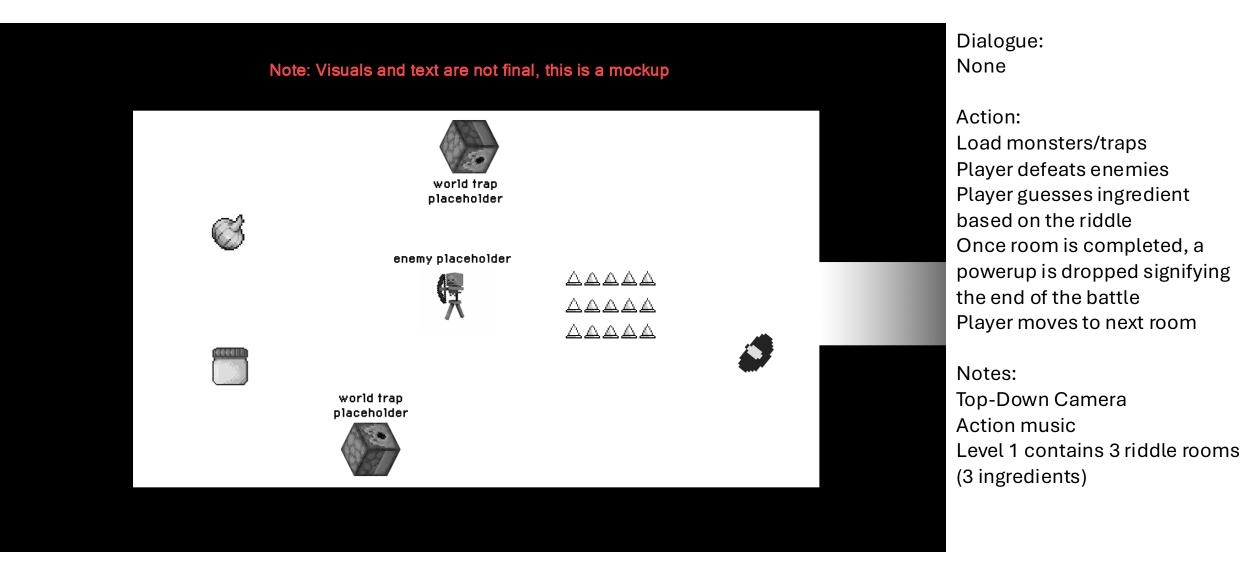
Action:

Player controls character Player walks into one of the hallways

Notes:

Top-Down Camera Soft background music

Scene 3: Enter a riddle room, defeat enemies and solve the riddle





Well done, you may enter the next level.

Dialogue:

Flying Spaghetti Monster tells you to submit your ingredients, if you are correct, then you can proceed to the next level

Submit the chosen ingredients. If you are correct, you may proceed to level 2. If you are incorrect, return to rooms to try and solve the riddles again.

Top-Down Camera Soft background music Level 2 contains 5 riddle rooms. Level 3 contains 7 riddle rooms

Note: Visuals and text are not final, this is a mockup

Congratulations





[CLICK ANYWHERE TO RETURN TO MAIN MENU]

Dialogue:

None

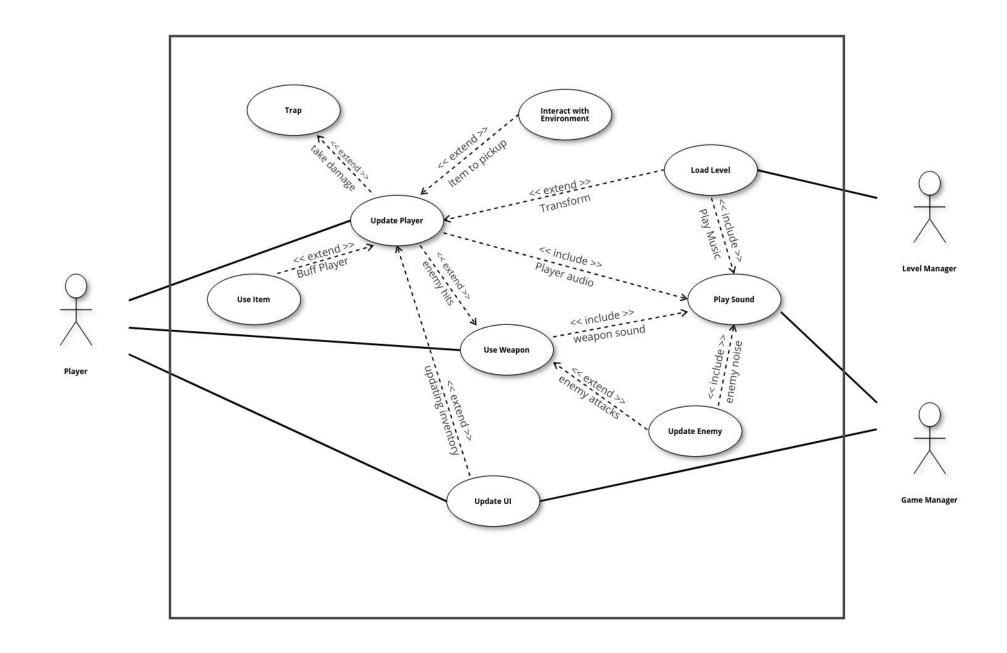
Action:

Player can click to return to main menu

Notes:

Victory music (copyrighted?)

Global Use Case



Context Diagram

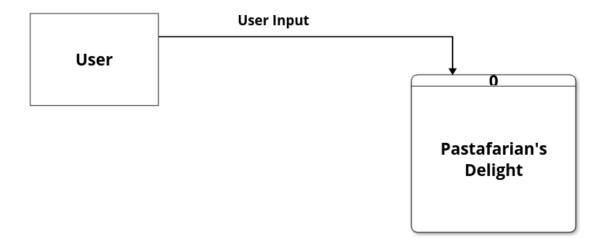
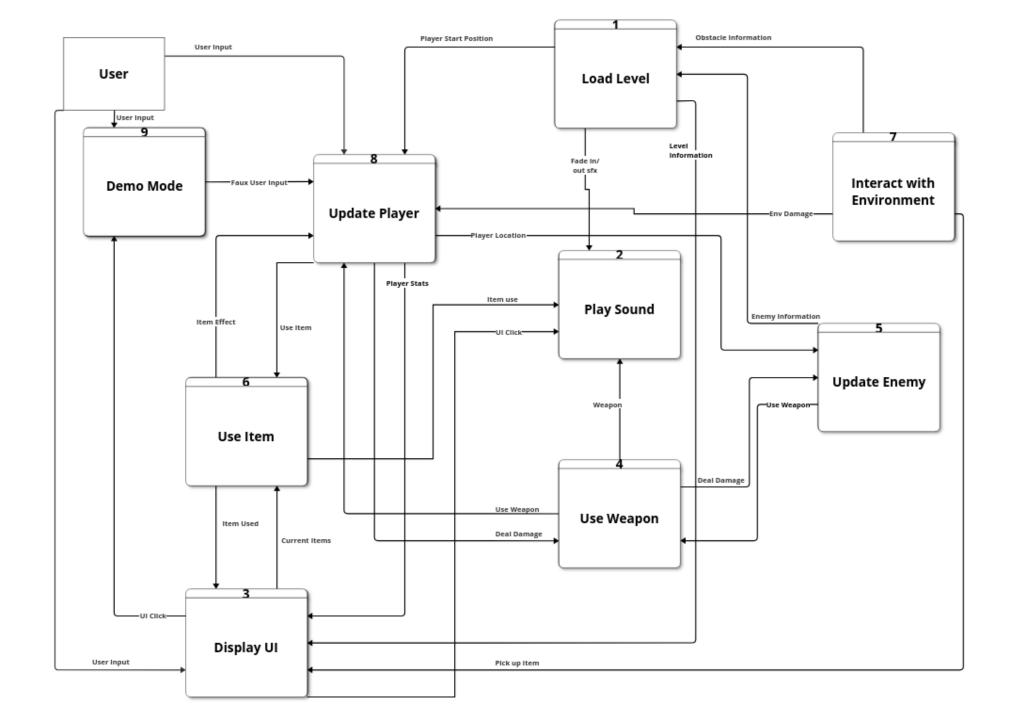


Diagram 0



Collin – UI / Inventory / Player

UI

- Load Game Menu
- Hud (health / level)
- Display Inventory

Inventory

- Pick up items
- Use Consumables
- Drop / Place Items
- Display in HUD

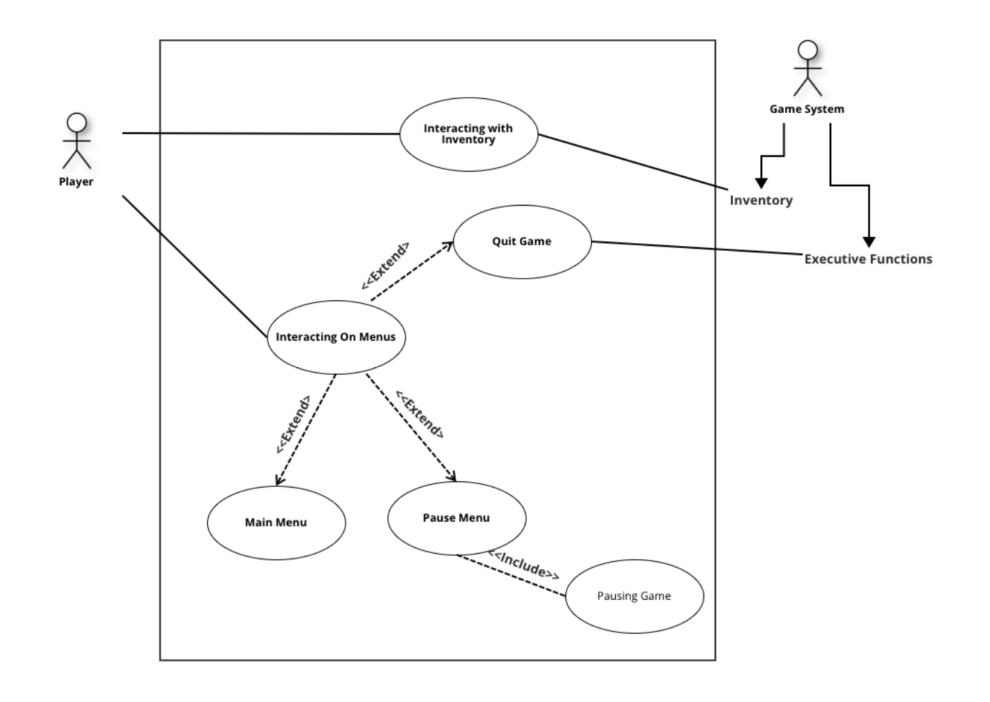
Player

- Basic Movement
- Calling action functions from keybind
- Updating Player Statistics (health ...)

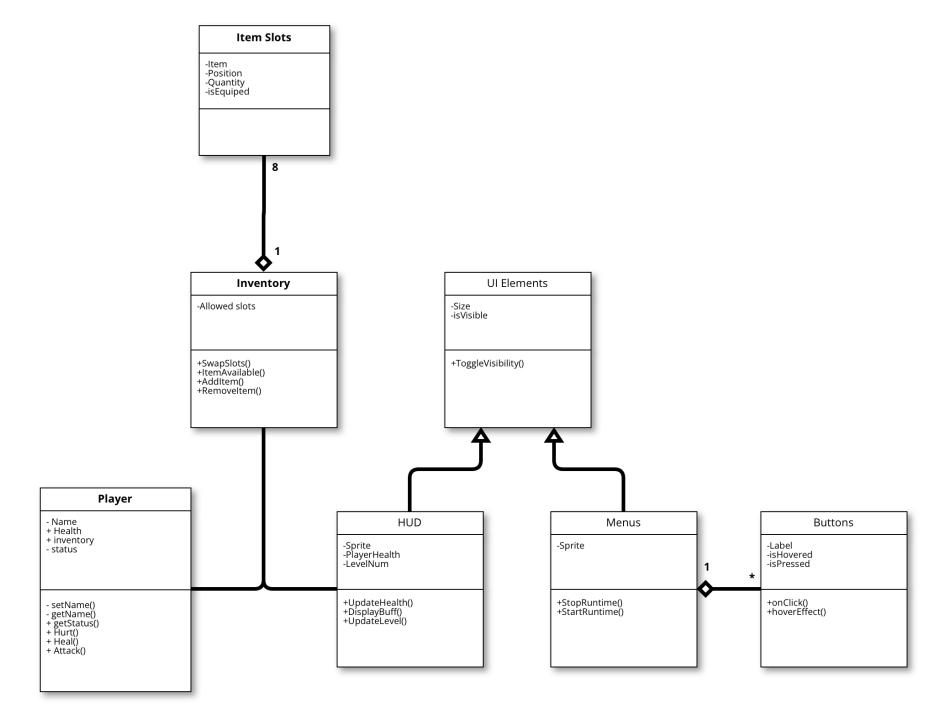
Priority: 1

Complexity: medium

Collin - Use Case



Collin - Class Diagram



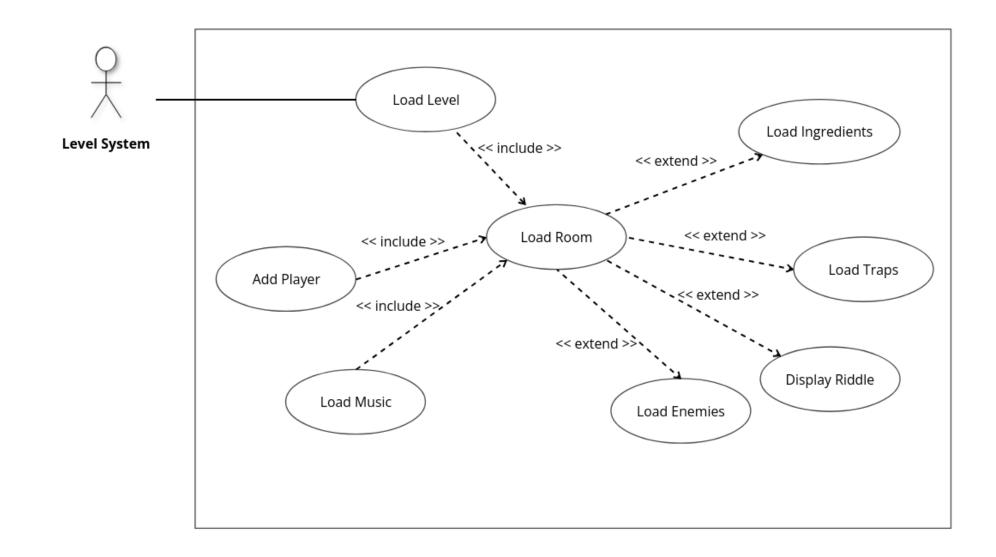
Scott – Level System Manager

Level Manager:

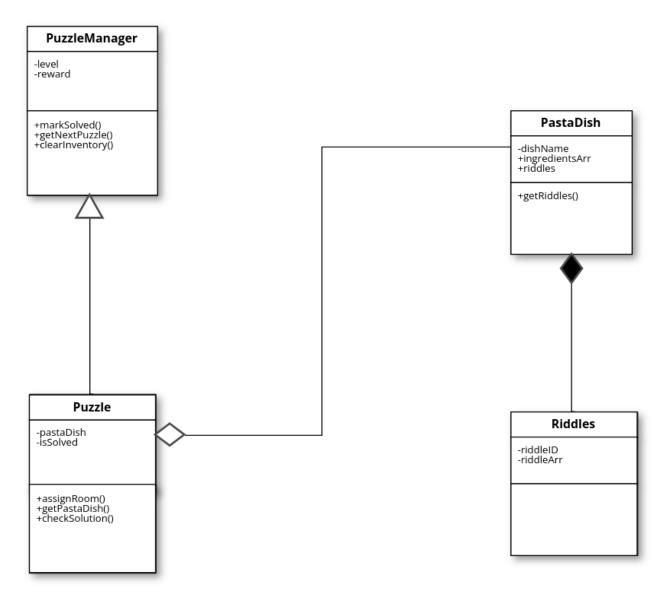
- Select the puzzle for the level
- Assign spawn locations for ingredients, enemies, and traps
- Load rooms that are being entered
 - Main room Load main room scene, player, and Flying Spaghetti Monster
 - Riddle rooms Load side rooms, player, enemies, traps, ingredients, and the correct riddle
- Play music
 - Main room calm, soft music
 - Riddle rooms
 - While enemies are alive and an ingredient hasn't been selected, play action music
 - Once enemies have been defeated and an ingredient has been picked up, play soft calm music

Priority: 1

Complexity: Medium



Scott – Level System Manager Class Diagram



Korben - Room Interaction

Ingredient pickups:

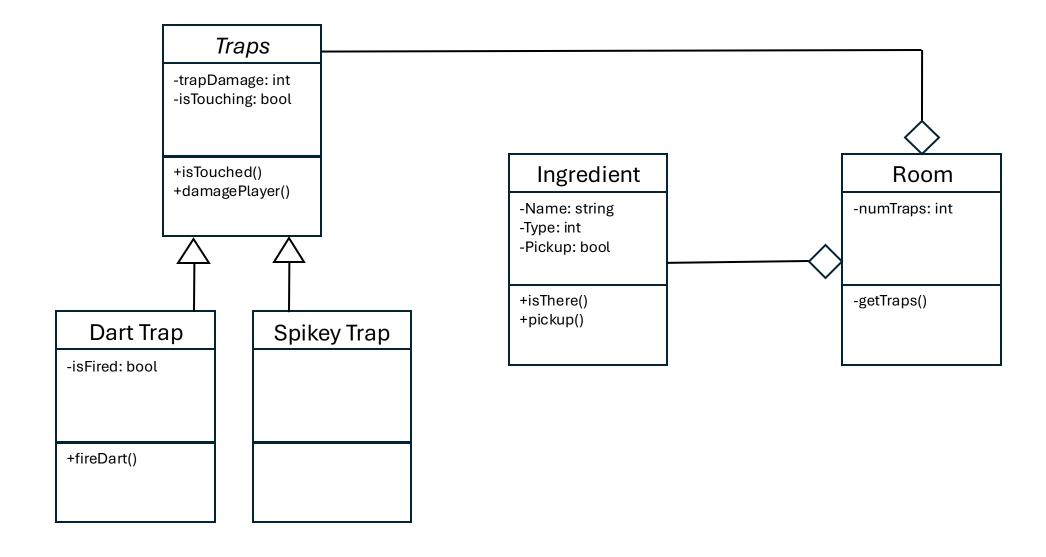
- Removing and moving the ingredients
- Making sure ingredients trigger an inventory update
 Traps:
- Traps interact with heart bar to cause damage
- Shooting traps can be activated by pressure plates
- Stationary "spikey" traps deal damage on contact

Priority: 1

Complexity: medium

Korben-Room Interaction Brush Player against spike Take Game damage System step on <<Extend>> pressure plate Dart is fired Pickup item Health Inventory

Korben- Class Diagram



Ben – Enemies / Demo Mode

Enemies

- Load Enemies
- Target Player
- Update Enemy Statistics

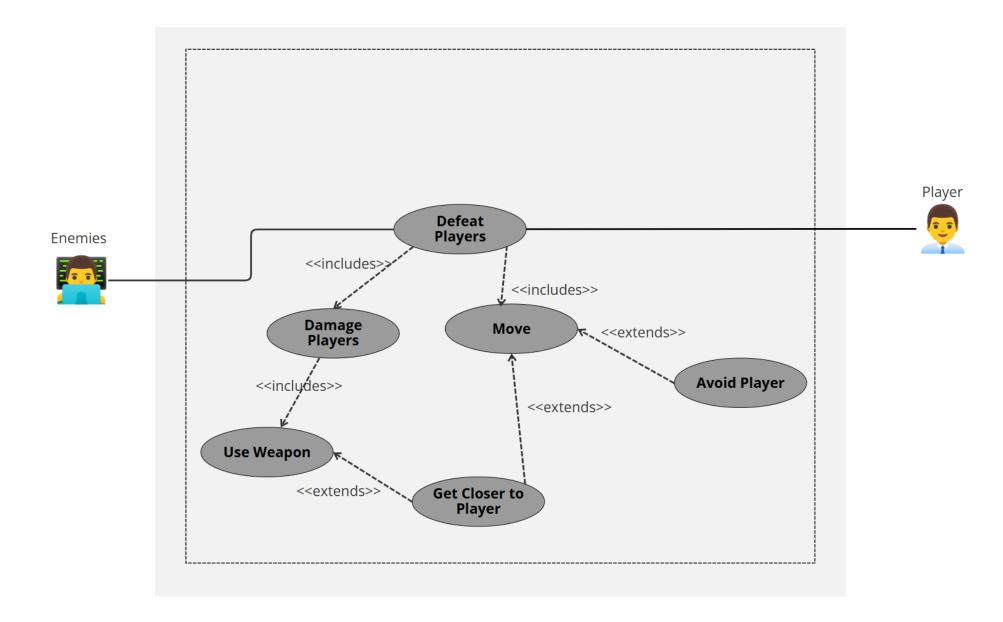
Demo Mode

- Control Player
- Demonstrate Game Play
- Allow User to take control

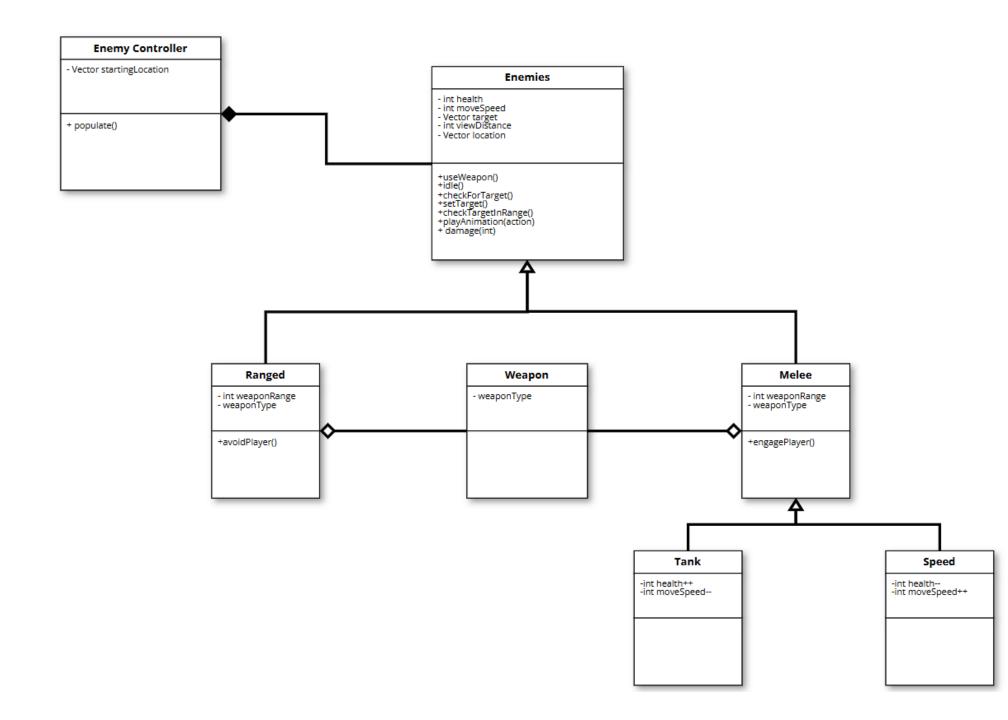
Priority: 2

Complexity: hard

Ben – Use Case



Ben - Class Diagram



Garrett – Weapons

- Two different weapon classes
 - Melee Weapons
 - Two different melee weapons one sweep and one poke
 - Ranged Weapons

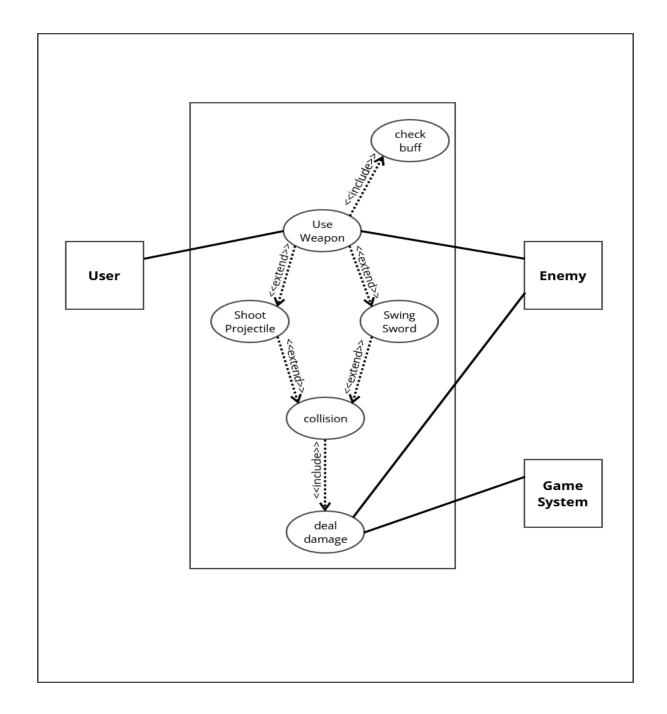
Both User and Enemy can use weapon

- Aiming class will take the cursor location and fire in that direction
- Check buff class will also check for any active buffs that the user currently has

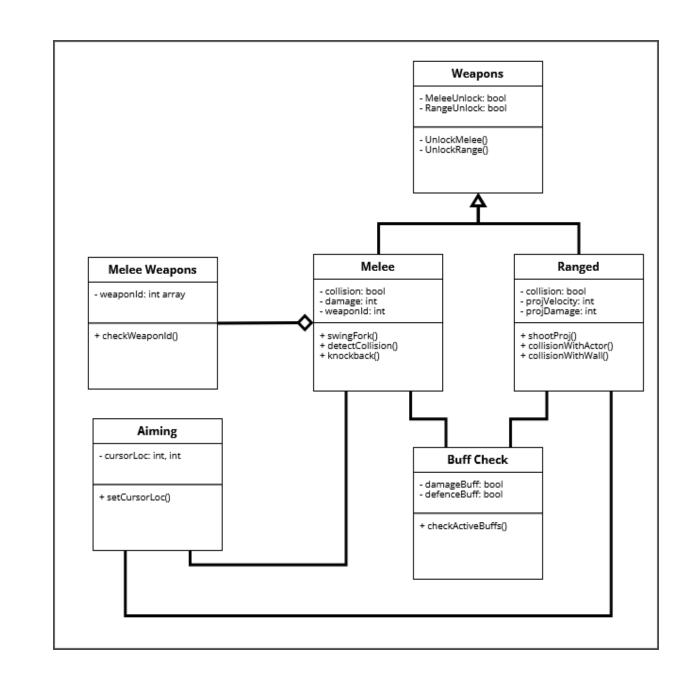
Priority: 1

Complexity: medium

Garrett – Use Case



Garrett – Class Diagram



Cole – Items

Item System

- Load consumable item into room
- When picked up update inventory
- When consumed apply a status effect and remove item

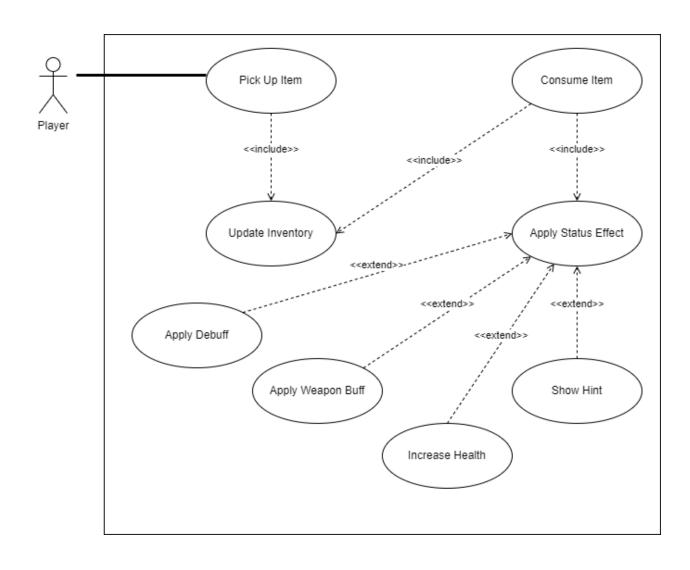
Power-Up system

- When consumed apply an effect:
 - Weapon buff
 - Increase player health
 - Apply player debuff
 - Display hint

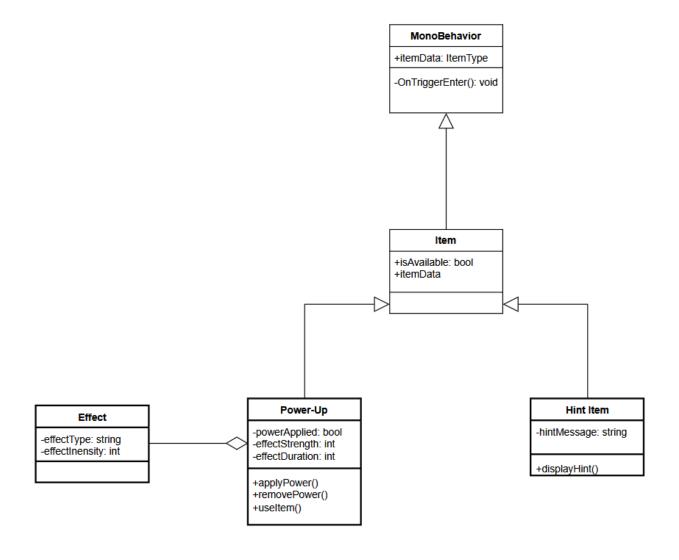
Priority: 2

Complexity: Medium

Cole – Items Use Case



Cole – Items Class Diagram



Jeffrey – Sound/Art

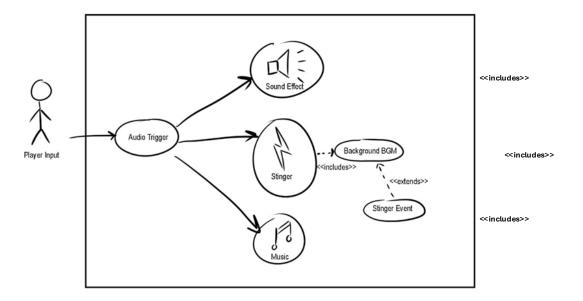
- Sound System
 - Music
 - Action Track when loading into hostile room
 - Once all hostiles on a level are dead, play chill music
 - Weapon/Item SFX
 - Enemies using their weapons/Player using their weapons
 - Sound upon damage for entities
 - When placing/using items, play sound
 - o UI SFX
 - Play upon Click of buttons

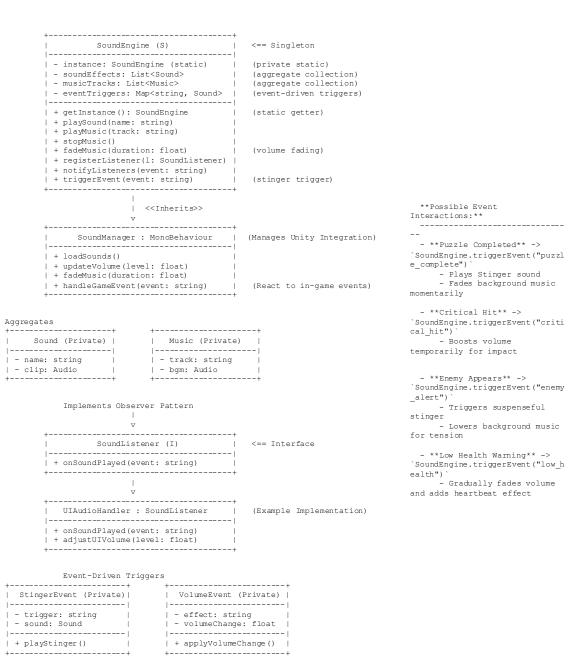
Sound: Art:

Priority: 2 Priority: 1

Complexity: Easy/Med Complexity: Medium

Jeffrey – Use Case/Class Diagram





Questions?