Name: Zane Goodrick Mark _____/50

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

1. Brief introduction __/3

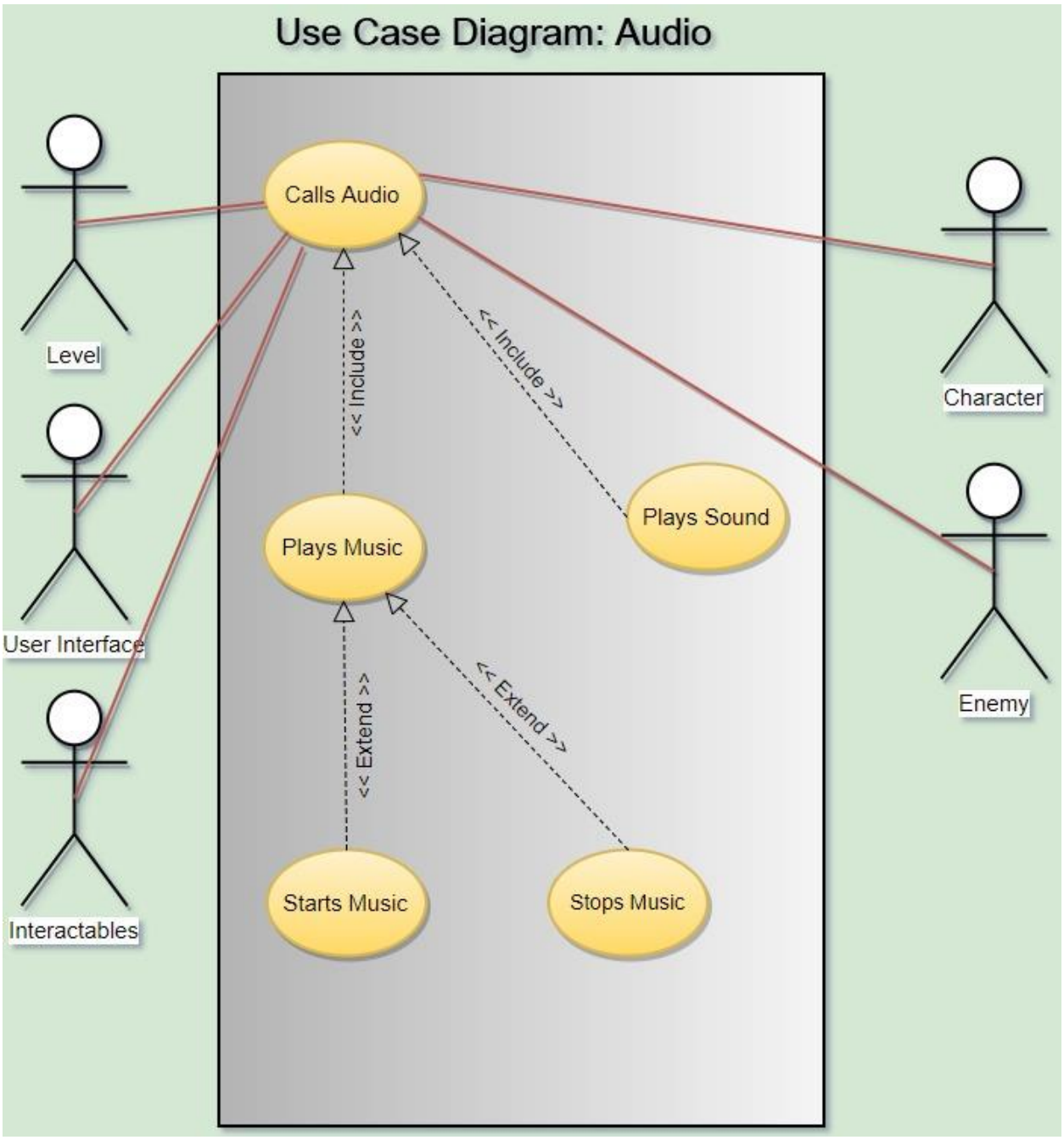
I will be implementing audio functionality into the project. There will be background music in the level based on whether or not the playable character is in conflict. I will design an Audio Manager game object, that will allow other project members to call upon it for various sounds to accompany actions such as, but not limited to:

- The player taking/dealing damage, picking up items
- The enemy taking/dealing damage and being defeated
- User Interface navigation and selection of options
- Items being used

I will also modify/compress audio files to ensure optimal load times. When a sound is requested, it will be returned with a varied pitch from within a random interval range, so the user is not hearing the monotony of repetitious sounds.

2. Use case diagram with scenario _14

Use Case Diagrams



Scenarios

[You will need a scenario for each use case]

Name: calls Audio

Summary: A sound is requested from another game entity; The audio manager returns the appropriate sound to be played

Actors: Character, UI, Interactables, Level, Enemy

Preconditions: The game has been started

Basic sequence:

Step 1: Receive request from game entity

Step 2: Determine if request is for music or sound file

Step 3: Make necessary modifications to sound file

Step 4: Return the audio to be played

Exceptions:

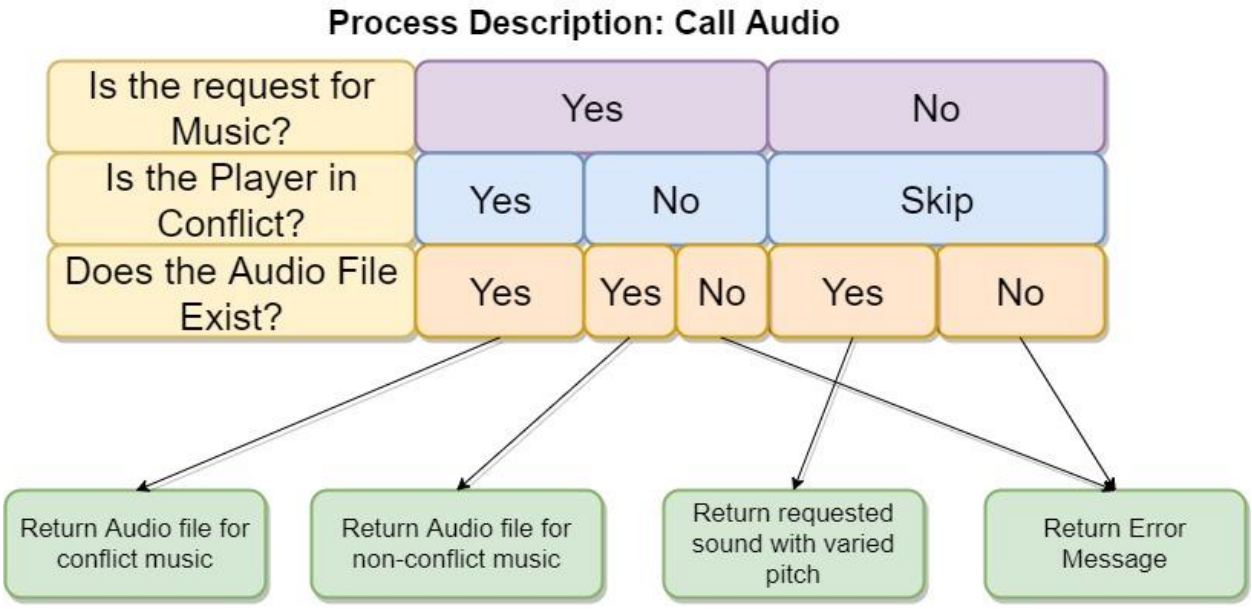
Step 1: The request is for a sound file that does not exist

Step 2: A request is made to play a sound that is already playing

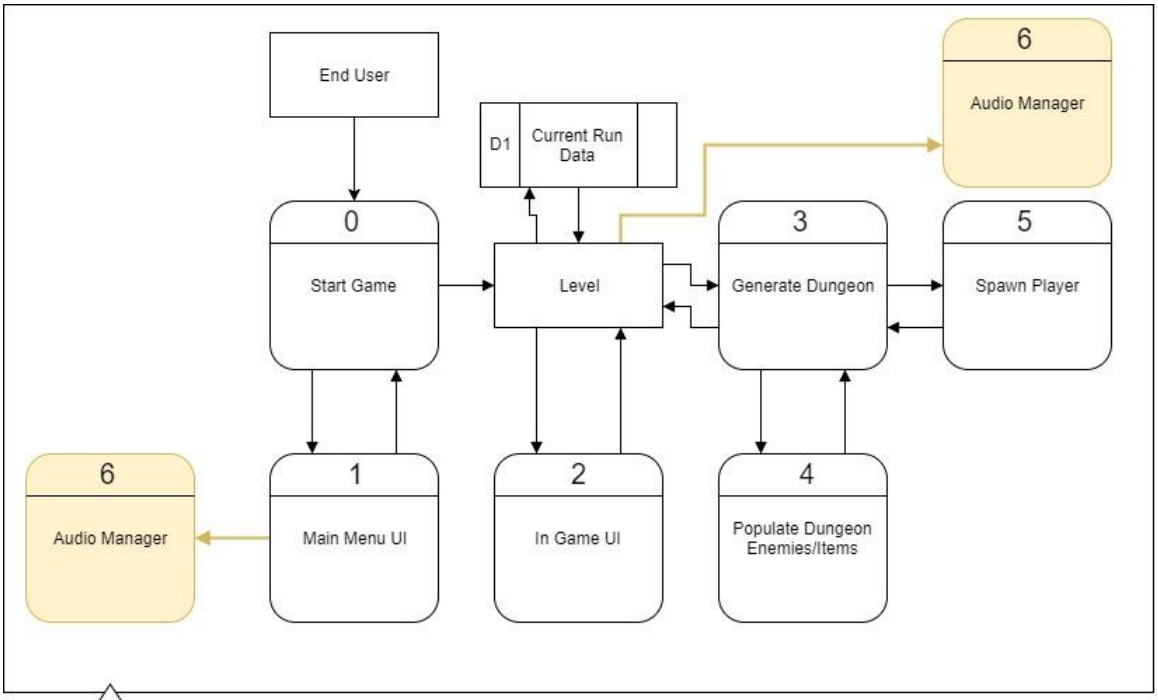
Post conditions: The user hears the sound that correlates with their specific on-screen action

Priority: 2 – Not a necessity for the game to run, but a must-have for purposes of immersion.

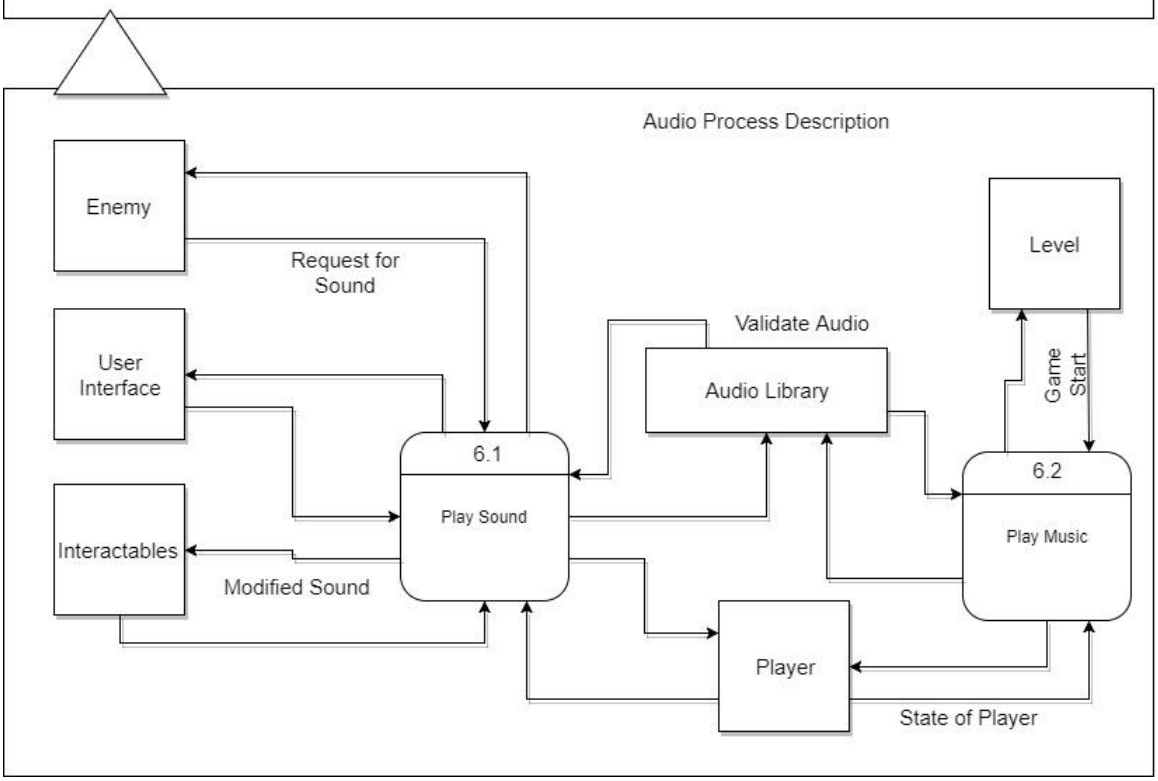
Process Descriptions:



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



Text



3. Acceptance Tests _____9

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

** If Audio is requested that does not exist: return error message

If music is requested that is already playing: return error message

If Player requests conflict music but is not in conflict: return error message

If player requests non-conflict music while in conflict: return error message

If entity requests audio that exists: return audio

Timeline _____/10

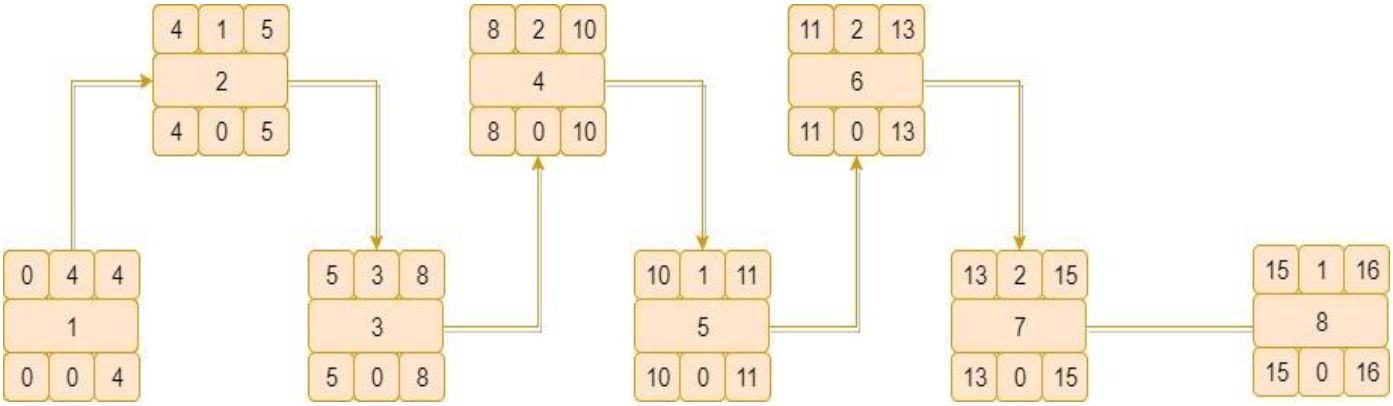
[Figure out the tasks required to complete your feature]

Example:

Work items

Task	Duration (PWks)	Predecessor Task(s)
1. Documentation/SA demo	4	-
2. Outline Manager and Functions	1	1
3. Build Sound Library	3	2
4. Working Functions for all possible audio requests	2	3
5. Testing/Debugging	1	4
6. Algorithm for dynamic pitch of sounds	2	5
7. Modify sounds/music for optimal load times	2	6
8. Testing/Debugging	1	7

Pert diagram



Gantt timeline