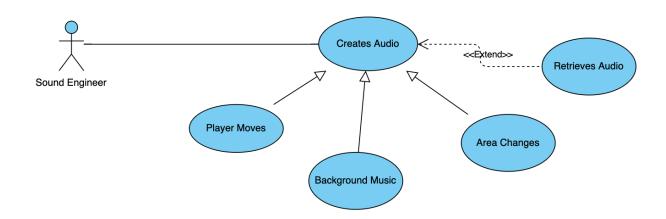
1. Brief introduction __/3

The feature I will focus on in the game is sound. Sound is a crucial element to creating atmosphere and an intriguing environment for the user to explore. I will be using sound as a way to create dramatic moments appear to have depth and to provide a sense of realism in our environment.

2. Use case diagram with scenario __14

Use Case Diagram



Scenarios

Name: Player Moves

Summary: The player produces sound as he moves throughout the environment

Actors: Player

Preconditions: None **Basic sequence:**

Step 1: Player moves in a direction

Step 2: a wav file is played

Exceptions:

Step 1: If sound effects are disabled, ignore sequence

Priority: 1

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

Name: Area Change

Summary: Different audio plays as the player enters different environments

Actors: Player

Preconditions: None

Basic sequence:

Step 1: Player moves into a new area or section of the map

Step 2: a mp3 file is played

Exceptions:

Step 1: If sound effects are disabled, ignore sequence

Priority: 2

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

Name: Background Music

Summary: Music for the loading and pause menu screens

Actors: Player

Preconditions: None **Basic sequence:**

Step 1: Player accesses the game menu

Step 2: a mp3 file is played

Exceptions:

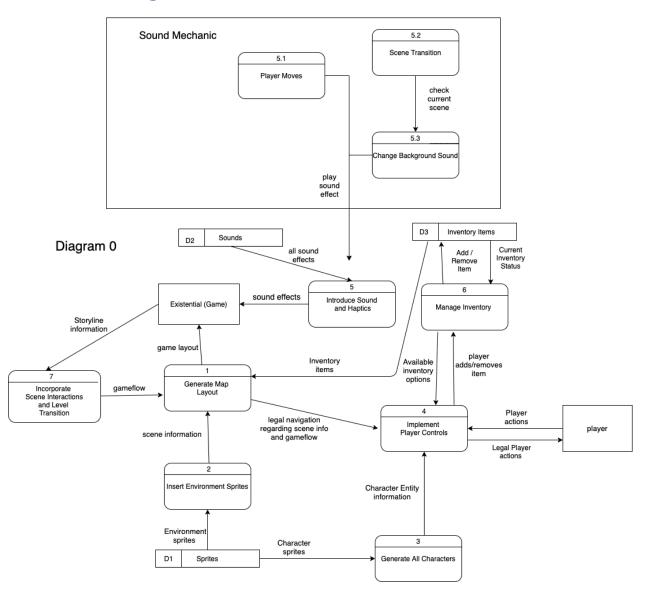
Step 1: If sound effects are disabled, ignore sequence

Priority: 3

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

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

Data Flow Diagrams



Process Descriptions

Player Moves*:

Define player steps = movement of player by 10px

If player steps % 3 is equal to 1:

play heavy step sound wav file

else:

play light step sound wav file

Scene Transition / Change Background Sound*:

If scene = forest:

```
stop previous music
play mysterious forest mp3
else if scene = house:
stop previous music
play creepy piano mp3
else if scene = caves:
stop previous music
play dropping water mp3
else if scene = floating mountains:
stop previous music
play strange wind sounds mp3
else:
stop previous music
every 20 seconds play breathing wav
```

4. Acceptance Tests _____9

Test for footsteps noise in character controls

I will be listening to the player as it moves for a duration of 2 minutes.

Conditions to note:

- sound effects work on top of the background noise.
- sound effects are mutable without affecting background music

Stress Test Levels:

- Clarity if the player is moving at half speed
- Clarity if the player is moving at full speed
- Clarity if the player is moving at 10x speed

Test for background sound

I will be listening to the sounds produced by the different scenes in the game.

Conditions to note:

- background sound works with sound effects
- background music is mutable without affecting sound effects

Stress Test Levels for different scenes:

- player transitions between 2 scenes 3 times at half speed
- player transitions between 2 scenes 5 times at half speed

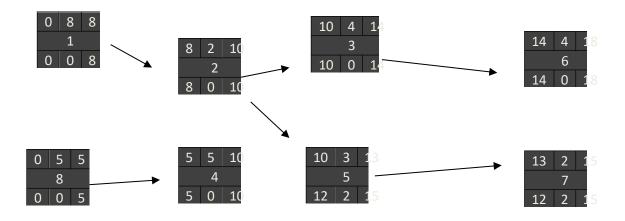
• player transitions between 2 scenes 10 times at full speed

5. Timeline _____/10

Work items

Task	Duration (PHrs)	Predecessor Task(s)				
1. Collect Sound Samples	8	-				
2. Edit Sounds	2	1				
3. Link sounds to scenes	4	1,2				
4. Change volume feature	5	8				
5. Link sounds to movement	3	1,2				
6. Quality Test	4	3,4,5				
7. Documentation	2	3,4,5				
8. Popup Support Menu	5	-				

Pert diagram



Gantt timeline

1																		
2									1									
3											1,2							
4						8												
5											1,2							
6															3,4,5			
7															3,4,5			
8																		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18