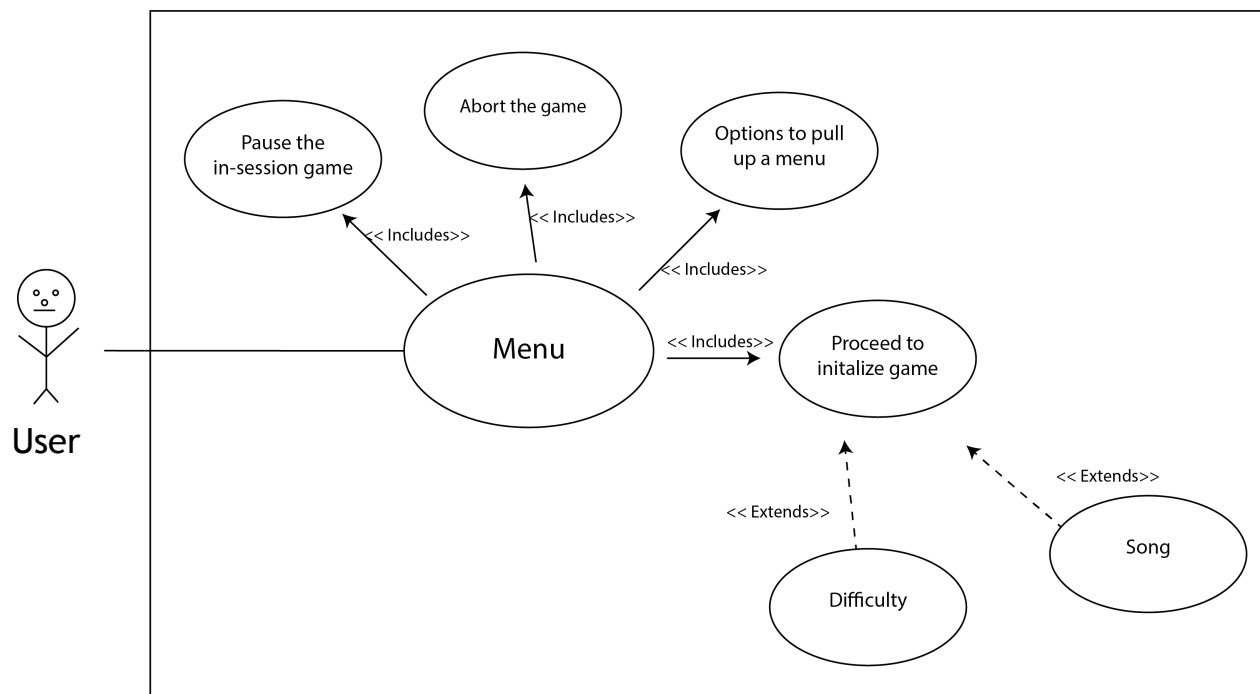


### 1. Brief introduction \_\_/3

Low Effort Games will be bring a single-player, musical-rhythm game to your PC's. "Beat runner" will keep you engaged as you fight your way through every obstacle as the song progresses. Also, the game will include the top 3 greatest hits from the 80's! Now as for my role in the game, I will be in charge of creating an appealing "start menu" with a simple user-friendly interface that will include a "Start", "Options", and "Quit" panel. Now as far as the game, I will bring the ability to "Pause" and "Quit" the game incase you need to get some homework done.

### 2. Use case diagram with scenario \_\_14



#### Scenarios

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

**Name:** Play

**Summary:** The user uses the [Start] to proceed to the game.

**Actors:** User

**Preconditions:** Game has been initialized.

**Basic sequence:**

Step 1: User must initialize the game.

Step 2: User will have to click on a button.

Step 3: Button will execute the game command.

Step 4: Begin to play!

**Exceptions:**

Step 1: User chooses [Song]

Step 2: User Chooses [Difficulty]

**Post conditions:** Game must be initialized.

**Priority:** 1

**ID:** A01

**Name:** Pause

**Summary:** The user uses the [Pause] to halt an in-session game.

**Actors:** User

**Preconditions:** Game has been initialized.

**Basic sequence:**

Step 1: User must click on [Pause].

Step 2: Will execute the pause command.

Step 3: Open a Panel with [Resume].

**Exceptions:**

None

**Post conditions:** Game must be initialized.

**Priority:** 1

**ID:** A02

**Name:** Options

**Summary:** The user uses the [Options] to adjust volume of the game.

**Actors:** User

**Preconditions:** Game has been initialized.

**Basic sequence:**

Step 1: User must click on [Options] at the beginning of game

Step 2: Will execute the options command.

Step 3: Open panel with toolbar

Step 4: Toolbar will match level of volume.

**Exceptions:**

None

**Post conditions:** Game must be initialized.

**Priority:** 2

**ID:** A03

**Name:** Choose Song

**Summary:** The user uses the [Song Selection] to control song.

**Actors:** User

**Preconditions:** Game has been initialized. [Play] has been pressed.

**Basic sequence:**

Step 1: Press [Play].

Step 2: Execute the [Song Selection].

Step 3: Open song selection panel.

Step 4: Press on [Song]

Step 5: Load song.

**Exceptions:**

Step 1: [Song Selection] is not pressed, it will result to the default song

**Post conditions:** Game must be initialized.

**Priority:** 3

**ID:** A04

**Name:** Choose Difficulty.

**Summary:** The user uses the menu to proceed to the game.

**Actors:** User

**Preconditions:** Game has been initialized.

**Basic sequence:**

Step 1: Press [Play].

Step 2: Go through song selection.

Step 3: Execute the [Choose Difficulty].

Step 4: Open the difficulty panel.

Step 5: Load the difficulty of game

**Exceptions:**

Step 1: [Difficulty] is not pressed, it will result to the default mode (Easy)

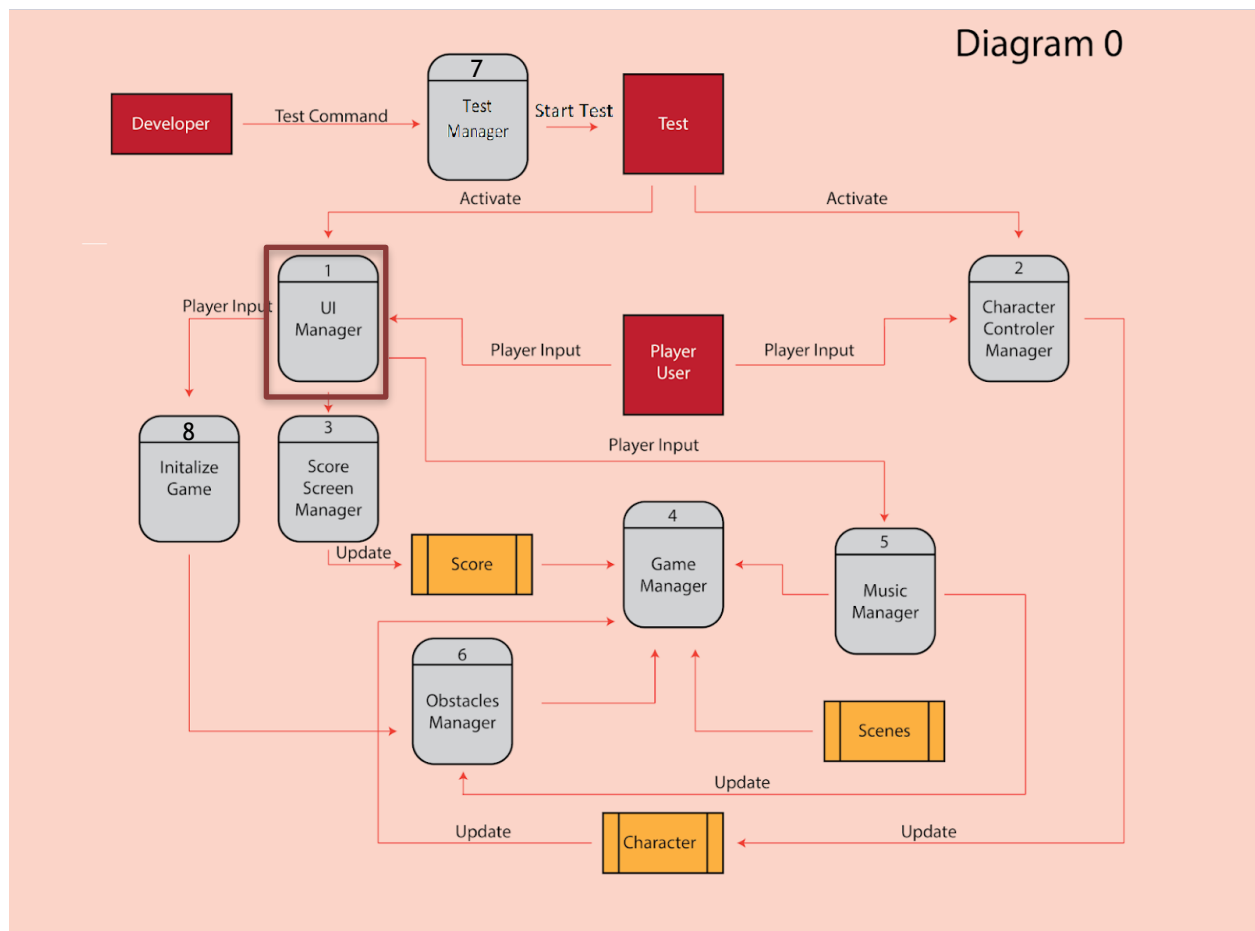
**Post conditions:** Game must be initialized.

**Priority:** 3

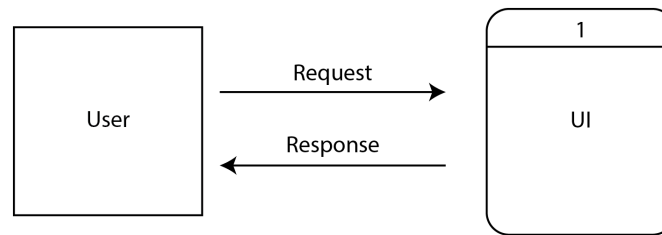
**ID:** A05

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

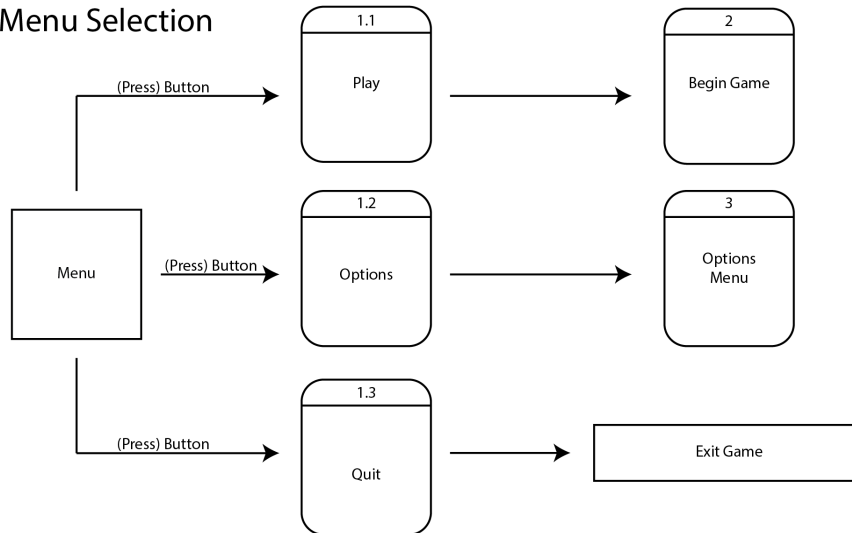
14



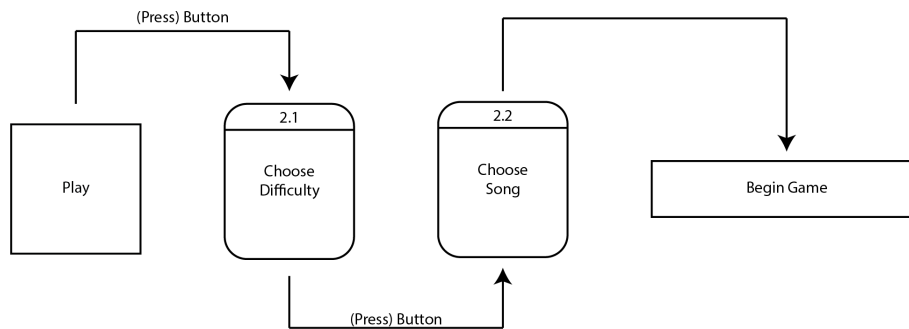
## User Interface Manager



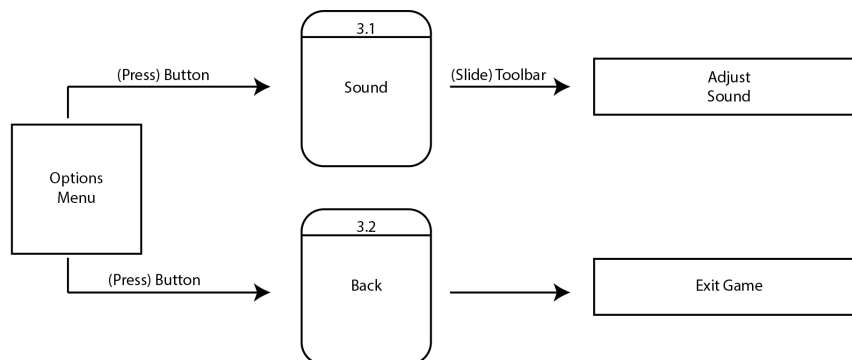
## Menu Selection



## Begin Game



## Option Menu



## Process Description:

1.1 Play (Parameter: Player Input){

    IF (Player Input == 1)

        Execute play();

    Else IF

        Do nothing //Remain on the main page

}

1.2 Options (Parameter: Player Input){

    IF (Player Input == 2)

        Execute options();

    Else IF

        Do nothing //Remain on the main page

}

1.3 Quit (Parameter: Player Input){

    IF (Player Input == 3)

        Execute quit();

    Else IF

        Do nothing //Remain on the main page

}

2.1 Choose Difficulty (Parameter: Player Input){

    IF (Player Input == 3)

        Execute quit();

    Else IF

        Do nothing //Remain on the main page

}

2.2 Choose Song (Parameter: Player Input){

IF (Player Input == Button 1 || Player Input == Button 2 || Player Input == Button 1)

Load Song();

Else IF

Do nothing //Remain on the main page

}

3.1 Sound (Parameter: Player Input){

IF (Player Input moves Toolbar )

Execute sound();

Else IF

Do nothing //Remain on the main page

}

3.2 Back (Parameter: Player Input){

IF (Player Input == 3)

Execute Back();

Else IF

Do nothing //Remain on the main page

}

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

**Inputs:** Click on the buttons to perform action

- Play
  - Input: Click on [Play]
  - Output: Game will be initialized.
- Options
  - Input: Click on [Options]
  - Output: Display Menu for user to access.
- Quit
  - Input: Click on [Quit]
  - Output: Aborts the game.
- Pause
  - Input: Click on [Pause]
  - Output: Halts the in-session game.
- Resume
  - Input: Click on [Resume]
  - Output: Resume the game activity.
- Song Selection (Extensions)
  - Input: Click on [Song]
  - Output: Experience the game with the song selected.
- Difficulty Selection (Extensions)
  - Input: Click on [Difficulty]
  - Output: Experience the game at the difficulty specified.

**Output:** Carry out action.

**Example for [Option] button:**

Option button can be connected to a hot-key. For example, if the user presses the 'o' on the keyboard then it will bring up the "Option Menu"



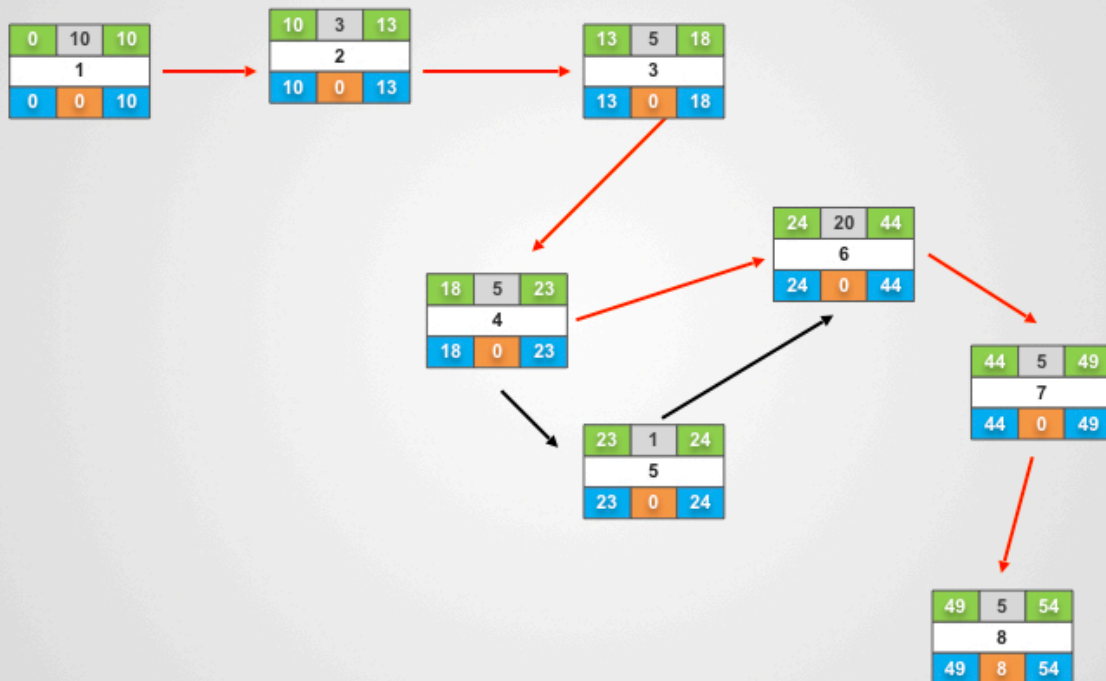
## 5. Timeline \_\_\_\_\_/10

### Work items

Task	Duration (PWks)	Predecessor Task(s)
1. Requirements Collection	10	-
2. Canvas	3	1
3. Panel / Buttons	5	2
4. In-game Menu	5	3
5. User Documentation	1	4
6. Programming	20	4
7. Testing	5	6
8. Installation	5	7

## Pert diagram

### PERT Chart



Gantt timeline

