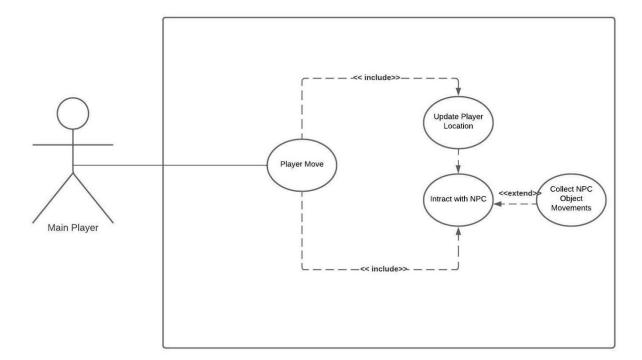
# 1. Brief introduction \_\_/3

My feature for "Dungeon Jump" is the main character's actions. In our game "Dungeon Jump", the player controls a single avatar and its human being. The main player has the ability to move, interact with non-player characters and collects manipulates objects. Move would involve, well movements like idle, running, jumping, falling and general movements etc. Interact with objects would be more enter levels, get power up or turn in quest item. So, interact NPC could have attack or talk to them. The main player has a range of defenses and attacks. The health of the player depends on achievements and attacks. The player will encounter obstacles, coins, achievements, and enemies.

## 2. Use case diagram with scenario

**Use Case Diagrams** 



#### **Scenarios**

Name: Role of Main Player

Summary: Move, interact with NPC and Attack

Actors: Main Player

**Preconditions:** Main Player Moves and Interacts

**Basic sequence:** 

Step 1: Player Moves forwards.Step 2: player location updateStep 3: Interact with objects.

**Exceptions:** 

**Step 3:** Collect NPC objects. **Post conditions:** Attack stops.

Priority: 1 ID: KG01

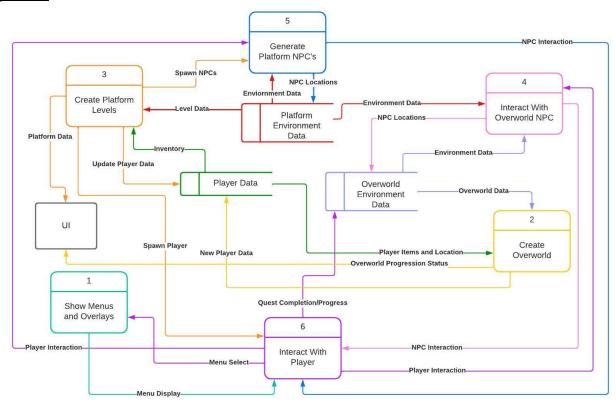
3. \_\_\_\_\_ Data Flow diagram(s) from Level 0 to process description for your feature 14

### **Data Flow Diagrams**

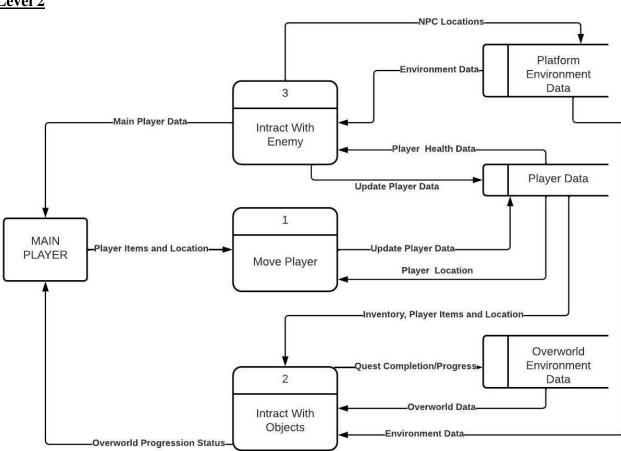
# **Context Level**



# Level 1



## Level 2



### 4.1 Main Player Attacks

IF Player Attacks NPC
Use Enemy NPC health and location Details
IF Main Player Wins
Increases Main Player Health and NPC destroyed
ELSE
IF Main Player Health less than or equals to zero
Main Player's Life Loses
ELSE
Decreases Main Player Health

**END** 

### 4.2 Main Player Moves

IF Player Moves forward
Use Main Player Location Details
IF Main Player Forward
Updating Main Player's Location Details
ELSE
Updating Main Player's Location Details
END

### 4.3 Main Player Founds NPC Objects

IF Player Founds NPC Objects
Use NPC Objects Details
IF Main Player Pick up an NPC Objects
IF NPC object is an Item
Adding to Item List and Updating Main Player's Item List
ELSE IF Main Player Step on an NPC Hazard Object

Damage Player and launch Player

**END** 

## 4. Acceptance Tests 9

The acceptance tests will check the main contents related to the main player such as health, position, Item collection and attack status.

### Player Position:

Getting a key press, the main player must move N pixels depend on the key. If the correct script/function was called in response, then player must move N pixels in correct direction. After moving the player, the position details must be updated also. If there is any change in N number of position and the stored details, then it's become worse.

### Player Direction:

If a key assigned to move forward then user press that key, player must move to the assigned direction. If player moves to opposite or any wrong direction, then it must be removed.

#### Attack NPC:

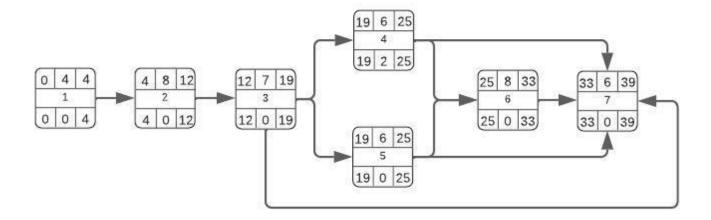
While attacking an NPC opponent, health of the player and health of the opponent must decreased by N number iteratively. After N number of attack count the NPC opponent must be dead.

### **5.** Timeline /10

#### **Work items**

Task	Duration (PWks)	Predecessor Task(s)
Study Unity Character Design	4	-
2. Player movement Design	8	1
3. Interact with NPC class Design	7	2
4. Attack NPC class Design	6	3
5. NPC object Interaction Class Design	6	3
6. Health Class Design	8	4,5
7. Testing	6	3,4,5,6

# **Pert Diagram**



# **Gantt Timeline**

