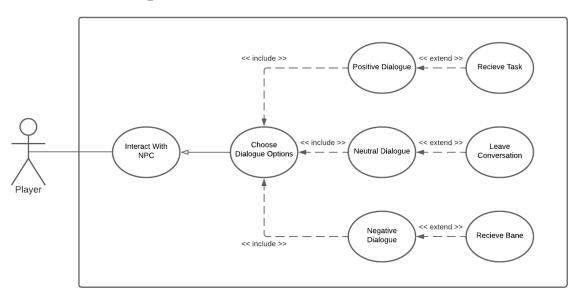
[Instructions: Remove everything that is not a heading below and fill in with your own diagrams, etc.]

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

For our game "Dungeon Jump" I will be working on the Overworld NPCs. Our plan for the game is built around an overworld with friendly NPCs and platforming sections with hostile NPCs. I am responsible for the creation of the overworld NPCs and their interactions.

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

#### **Use Case Diagrams**



#### **Scenarios**

Name: Speak Positively

**Summary:** The player chooses the positive dialogue option when talking to the

**NPC** 

**Actors:** Player

**Preconditions:** Player has interacted with the NPC

**Basic sequence:** 

**Step 1:** NPC gives dialogue

**Step 2:** Player responds positively to NPC **Step 3:** NPC thinks positively of the player

Step 4: NPC gives player a task

**Exceptions:** 

**Step 4:** NPC task is complete: Overworld altered

**Step 4:** NPC task is not complete: NPC annoyed dialogue

Step 2: Player moves away from NPC: End dialogue

**Post conditions:** Player is given a task to advance in the game

**Priority:** 1

**ID:** EH01

Name: Speak Neutrally

**Summary:** The player chooses the neutral dialogue option when talking to the

**NPC** 

**Actors:** Player

**Preconditions:** Player has interacted with the NPC

**Basic sequence:** 

Step 1: NPC gives dialogue

Step 2: Player responds neutrally to NPC

**Step 3:** NPC is bored of the players indecisiveness

Step 4: Dialogue is ended

**Exceptions:** 

Step 2: Player moves away from NPC: End dialogue

**Post conditions:** Player exits dialogue with NPC

**Priority:** 1 **ID:** EH02

Name: Speak Negatively

**Summary:** The player chooses the negative dialogue option when talking to the

**NPC** 

**Actors:** Player

**Preconditions:** Player has interacted with the NPC

**Basic sequence:** 

**Step 1:** NPC gives dialogue

**Step 2:** Player responds negatively to NPC

**Step 3:** NPC is angered by the player

**Step 4:** NPC attempts to hinder the player's progress

**Exceptions:** 

**Step 4:** Player has completed task: NPC insults player

Step 2: Player moves away from NPC: End dialogue

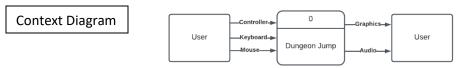
**Post conditions:** Player is given a bane to hinder their progress

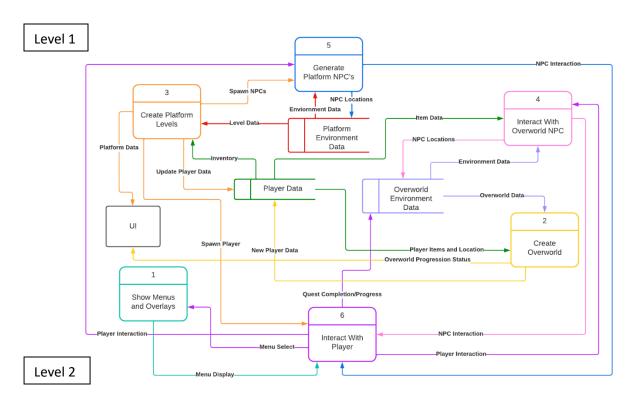
**Priority:** 3 **ID:** EH03

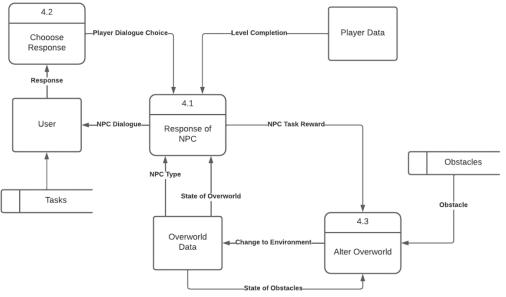
\*The priorities are 1 = must have, 2 = essential, 3 = nice to have.

# 3. Data Flow diagram(s) from Level 0 to process description for your feature \_\_\_\_\_14

# **Data Flow Diagrams**







## **Process Descriptions**

#### 4.1 Response of NPC:

IF player initializes interaction with NPC

Use NPC type, state of overworld, and level completion to determine dialogue

Send introduction dialogue to the player

IF player dialogue choice is positive

IF task is not complete (checked via items)

IF not given player task

Give player task

**ELSE** 

Give annoyed dialogue

**ELSE** 

Inform alter overworld to remove obstacle

ELSE IF player dialogue is neutral

Exit dialogue

ELSE IF player dialogue is negative

IF not given player task

Give negative dialogue

**ELSE** 

Give insulted dialogue

**END** 

#### 4.2 Choose Response:

IF player is in conversation with NPC and dialogue is displayed

Display 3 text responses for the player

Wait for player choice

Save player response

Inform Response of NPC of player response

**END** 

#### 4.3 Alter Overworld:

IF obstacle is requested to be removed

Fetch info on obstacle to be removed

IF obstacle still exists on the overworld

Inform overworld to remove obstacle

**END** 

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

#### **Invalid Inputs**

Enter dialogue with an NPC.

Start random character inputs not for dialogue.

Press dialogue inputs.

#### **Output**

During the test, dialogue should not advance until the correct input is given to the dialogue.

## **Environmental Changes**

Trigger dialogue with an NPC.

Report task completion.

Exit Conversation.

Repeat for next NPC until all NPCs have been interacted with.

#### Output

If all NPCs have their tasks completed, check if the world environment has changed correctly.

Check console to see if the world environment has changed in the right order for NPC interactions.

# **Abrupt Dialogue Exit**

Trigger dialogue with an NPC.

Move away from NPC without dialogue inputs.

Return to NPC.

Select dialogue option, move away.

# Output

If player leaves conversation with an NPC, they will remember what was said before the abrupt conclusion.

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

#### **Work items**

	Tasks	Duration (Hours)	Predecessor Tasks
1	NPC Prototype	4	-
2	NPC Types	3	1
3	NPC World Interaction	4	2, World Design
4	NPC Player Interaction	6	2, PC Design
5	Dynamic NPC Interaction	3	3, 4
6	Dialogue UI	3	4
7	Unique Dialogue Trees	4	5, 6
8	Sprite Design	2	7
9	Testing With Other Components	7	8

# Pert diagram

