# **Use Cases**

1. Use Case: Play Game

**Primary Actor:** Player

**Description:** This use case represents the initial step where the player starts the game.

**Preconditions:** The game application is running.

## Flow of Events:

- 1. The player chooses to enable or disable cheat mode and specify Tokimons and Fokimons (if available).
- 2. The player launches the game.
- 3. The game initializes, displaying the game grid and relevant information.
- 4. The player inputs their initial location on the grid.

**Postconditions:** The game is set up, and the player's character is placed on the grid. Cheat mode settings are applied.

## **Alternative Flows:**

- If the player decides not to enable cheat mode, they proceed to the next step.
- If the player enters an invalid initial location, they are prompted to re-enter a valid one.
- If the player enter invalid arguments, the program exits with the hint how to launch the game properly.

2. Use Case: Navigate within Grid

**Actor:** Player

**Description:** This use case describes how the player can navigate within the game grid.

**Preconditions:** The game is in progress.

#### Flow of Events:

- 1. The player can move their character up, down, left, or right within the grid using keys W, A. S. and D.
- 2. The player's location is updated on the grid.
- 3. The player can collect Tokimons and encounter Fokimons as they move.

**Postconditions:** The player's character is at a new grid location, and game elements may be revealed or collected.

## **Alternative Flows:**

• If the player attempts to move to an invalid grid location (e.g., off the grid), the game prevents the movement and asks the user to input a valid character.

3. Use Case: Use a Spell

**Actor:** Player

**Description:** This use case outlines the player's ability to use special spells within the game.

**Preconditions:** The game is in progress, and the player has spells left.

#### Flow of Events:

- 1. The player selects a spell from the available options.
- 2. The chosen spell's effect is applied to the game grid, such as randomly moving the player to another location, revealing and collecting the location of a Tokimon, or eliminating a Fokimon.
- 3. The number of spells remaining is reduced.

**Postconditions:** The chosen spell's effect is applied, and the number of remaining spells is updated.

#### **Alternative Flows:**

 If the player doesn't have any spells left, they are informed that no spells are available for use.

4. Use Case: Exit the Game

**Actor:** Player

**Description:** This use case represents the player's choice to exit the game.

**Preconditions:** The game is in progress.

#### Flow of Events:

- 1. The player selects the option to exit the game.
- 2. The game session is terminated, and the game closes.

**Postconditions:** The game session is terminated, and the game application is closed.

#### **Alternative Flows:**

If the player accidentally selects the exit option, there is no way of going back.

5. Use Case: Game Over

**Actor:** Game System

**Description:** This use case describes the game's response when the player encounters a Fokimon.

**Preconditions:** The player's character is on the same grid location as a Fokimon.

#### Flow of Events:

- 1. The game displays a message indicating the player has encountered a Fokimon.
- 2. The game reveals the locations of all Fokimons on the grid.
- 3. The game session ends.

Postconditions: The game session ends, Tokimon and Fokimon locations are revealed.

## **Alternative Flows:**

· No Alternative Flows.

6. Use Case: Winning the Game

Actor: Game System

Description: This use case represents the game's response when the player collects all

Tokimons and wins the game.

**Preconditions:** The player has collected all Tokimons on the grid.

## Flow of Events:

- The game displays a victory message, declaring the player as the Master of Tokimons.
  The game reveals the locations of all Fokimons on the grid.
- 3. The game session ends.

**Postconditions:** The game session ends, and Fokimon locations are revealed.

## **Alternative Flows:**

No Alternative Flows.