

Use Cases for Dead City Chronicles

Use Case: Start new game

Primary Actor: Player

Goal in Context: To begin a new game session and start playing the game

Precondition: The game application is running and the player is at the main menu

Trigger: The player presses the “New Game” option from the main menu

Scenario:

1. The game initializes a new maze
2. The player and objects are placed in their respective spots
3. The game timer starts

Use Case: Game attempt

Primary Actor: Player

Goal in Context: The player wants to control the character to reach the end point while meeting all requirements and

Precondition: The game has started and all objects are placed in the maze

Trigger: The player provides input to move the character using ‘WASD’

Scenario:

1. The character’s position is updated based on the player’s keyboard inputs
2. The game checks for collisions with walls, zombies, traps, and the endpoint
3. The game displays the points, timer, and a pause button on the top of the screen (refer to pause game use case)
4. The player can click on the pause button to open a menu

Use Case: End of game (Win or loss)

Primary Actor: System

Goal in Context: When the player wins or loses, display the end screen

Precondition: When the player meets all requirements, the endpoint object spawns

Trigger: The character’s health drops to <0 or the character collides with the endpoint

Scenario:

1. If the player’s health drops to zero
 - a. The game recognizes the health is < 0 and indicates loss condition
 - b. The game stops and displays a lose screen
 - c. The lose screen displays the player score, time taken, and provides options for the player to restart or return to main menu
2. If the player collides with the endpoint object
 - a. The game recognizes the collision and indicates a win condition
 - b. The game stops and displays a win screen
 - c. The win screen displays the player score, time taken, and return to menu button

Use Case: Choose difficulty

Primary Actor: Player

Goal in Context: The player wants to select a specific difficulty level

Precondition: The player has selected the “start” button

Trigger: The player selects the “start” button and is prompted to choose difficulty level

Scenario:

1. Player selects “start” button
2. Player can select difficulty level depending on their preference:
 - a. If the player selects easy, there will be less obstacles and less enemies
 - b. If the player selects medium, there will be a bit more obstructions in the map and more enemies
 - c. If the player selects hard, there will be more obstacles and many enemies(very challenging)

Use Case: Pause Game

Primary Actor: Player

Goal in Context: The player wants to pause the game during active gameplay

Precondition: The game is in progress and the player is actively playing

Trigger: The player clicks on the pause button

Scenario:

- The game pauses and displays a menu with options to resume, restart, or quit the game
- The timer stops at the time when pausing
- The player can select an option to perform the desired action
 - Resume: the game continues at the same state as when the game was paused
 - Restart: the game starts as a “new game” (see start new game use case)
 - Quit: the game stops and the player is sent back to the main menu

Use Case: Settings button

Primary Actor: Player

Goal in Context: Changing some properties in the game

Precondition: The game application is running and the player is at the main menu

Trigger: The player clicks on the ‘setting’ button on the main page

Scenario:

1. Before the game starts, players can change properties of the game
2. Player can change volume level of game with slider
3. Player can turn on and off music to the game

Use Case: Rules button

Primary Actor: Player

Goal in Context: Players can learn how to play the game and rules

Precondition: The game application is running and the player is at the main menu

Trigger: The player clicks on the ‘rule’ button on the main page

Scenario:

1. Before the game starts, the player wants to check how to play the game and clicks the ‘rule’ button
2. After clicking, a display of all the rules of the game will be shown