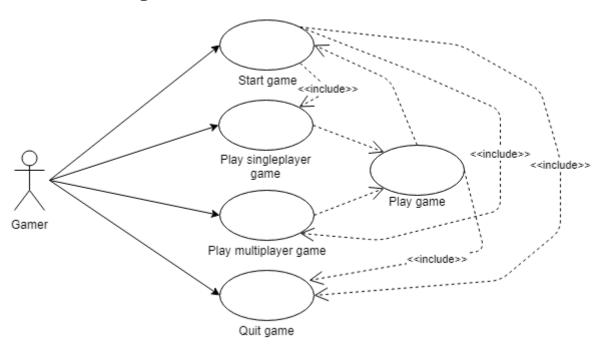
Use Case Diagram



UC 1 Start Game

Precondition: none.

Postcondition: the game menu is shown.

Main scenario

- 1. Starts when the player wants to begin a session of the hangman game.
- 2. The system presents the main menu.
- 3. The player makes the choice to play a single player game.
- 4. The system opens a single player game (see Use Case 2).

Repeat from step 2

Alternative scenarios

- 3.1 The player makes the choice to play a multiplayer game.
 - 1. The system begin a multiplayer game (see Use Case 3)
- 3.2 The player makes the choice to quit the game.
 - 1. The system quits the game (see Use Case 5)
- 3.3 Invalid menu choice
 - 1. The system presents an error message.
 - 2. Go to 2 in main scenario.

UC 2 Play Single Player Game

Precondition: System is running

Postcondition: A single player game has been played

Main scenario

- 1. Starts when player wants to play single player game.
- 2. The player chooses to play a new game.
- 3. System creates new game and play the game (See Use Case 4).
- 4. System ask if player want to play another game.
- 5. Player chooses to not play more games.
- 6. Return to menu (See Use Case 5)

Alternative scenarios

- 2.1 The player chooses to return to previous game.
 - 1. Play previous game (See Use Case 4). If there is no previous game, play a new game.
- 5.1 Player chooses to play another game.
 - 1. Go to 3 in main scenario.

UC 3 Play multiplayer game

Precondition: The system is running

Postcondition: A multiplayer game has been played.

Main scenario

- 1. Starts when the player wants to play a multiplayer game.
- 2. Rules of multiplayer version is shown and player 1 is asked to enter a word.
- 3. Player enters a word.
- 4. System set the word and ask for confirmation that the player want to use this word.
- 5. Player confirms
- 6. System display that player 2 should now guess the word, player is asked to confirm to continue.
- 7. Player confirms.
- 8. The game is played (See use case 4).
- 9. Player 2 managed to guess the word.
- 10. Program display that player 2 won the game and is asked to confirm to continue.
- 11. Player confirms
- 12. Return to menu (See Use Case 5).

Alternative scenarios

- 3.1. The player enters invalid word
 - 1. Error message is shown
 - 2. Player is asked to enter a new word.
 - 3. Player enters a new word.
- 5.1 Player does not confirm

- 1. Player is asked to enter a new word
- 2. Player enters a new word.
- 3. Go to 4 in main scenario.
- 7.1 Player does not confirm
 - 1. System continues to wait, player must confirm.
- 9.1 Player 2 did not manage to guess the word
 - 1. System display that player 1 won the game and is asked to confirm to continue.
 - 2. Go to 11 in main scenario.

UC 4 Play game

Precondition: The system is running.

Postcondition: A hangman game has been played.

Main scenario

- 1. Starts when the player wants to play a game.
- 2. System show choices and clues and tell player to enter a letter or a choice.
- 3. Player enters a letter.
- 4. System tells where in the word that letter is placed.
- 5. System presents that game is won and ask player for confirmation to continue.
- 6. Player confirms.
- 7. Return to previous state.

Alternative scenarios

- 3.1 The player makes invalid input.
 - 1. Error message is shown.
 - 2. Player is asked to make a new input
 - 3. Player makes new input
- 3.2 The player makes the choice to quit the game.
 - 1. The system quits the game (see Use Case 6)
- 3.2 The player makes the choice to return to menu.
 - 1. Player is asked to confirm.
 - 2. Player confirms.
 - 2.1 If player do not confirm: Go to 2 in main scenario.
 - 3. The game returns to the menu. (See UC 1)
- 4.1 Word does not contain letter.

- 1. Add part of hangman.
- 2. Letter is added to guessed letters.
- 3. Go to 2 in main scenario.
- 5.1 All the letters in the word is not guessed yet
 - 1. Go to 2 in main scenario.
- 5.2 Max number of wrong guesses is reached.
 - 1. Game presents game over and ask player to confirm to continue.
 - 2. Player confirms
 - 3. Return to previous state.

UC 5 Quit Game

Precondition: The system is running.

Postcondition: The system is terminated.

Main scenario

- 1. Starts when the player wants to quit the game.
- 2. The system prompts for confirmation.
- 3. The player confirms.
- 4. The system terminates.

Alternative scenarios

- 3.1. The player does not confirm
 - 1. The system returns to its previous state