UC 1 Start Game

Precondition: none.

Postcondition: the game menu is shown.

Main scenario

1. Starts when the user wants to begin a session of the hangman game.
2. The system presents the main menu with a title, the option to play and quit the game.
3. The Gamer makes the choice to start the game.
4. The system starts the game (see Use Case 2).

Repeat from step 2

Alternative scenarios

3.1 The Gamer makes the choice to quit the game.

The system quits the game (see Use Case 2)

4.1 Invalid menu choice

The system presents an error message.

Goto 2

UC 2 Play game

Precondition: The user has pressed the key corresponding to "Start Game"

Postcondition: the game is finished, asks to play again.

Main scenario

1. Starts when the user has started the game from the menu.
2. The system has chosen a word and prompts the user for input.
3. The user inputs a letter.
4. The system checks if the word contains the letter.
5. The system displays the result and number of guesses left.
6. The user is prompted for input.

Repeat from step 3

Correct guess scenario

6.1 The word is displayed, and the user is prompted to play again or quit.

Wrong guess scenario

6.1 The word is displayed, and the user is prompted to play again or quit.

UC 3 Quit Game

Precondition: The game is running.

Postcondition: The game is terminated.

Main scenario

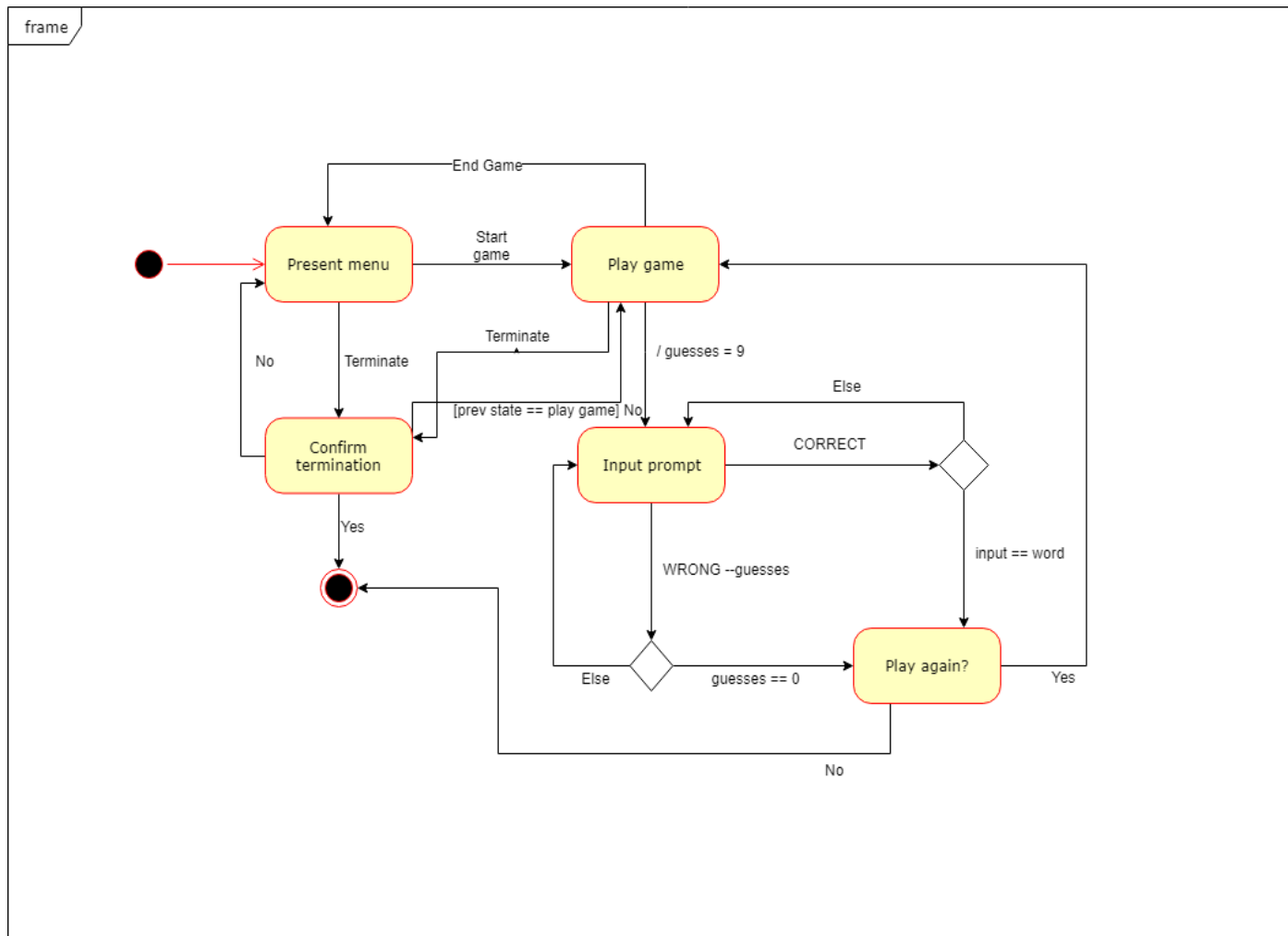1. Starts when the user wants to quit the game.

2. The system prompts for confirmation.
3. The user confirms.
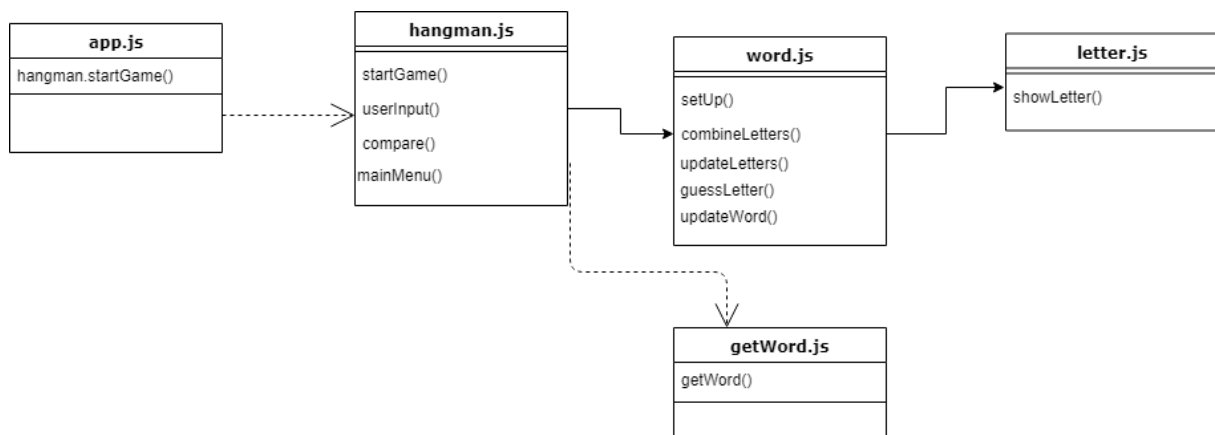4. The system terminates.

Alternative scenarios

3.1. The user does not confirm

The system returns to its previous state

State Machine Diagram

Class Diagram

Time log

Activity	Est. Time	Date	Actual time
Reading of Chapter 4,5,6,7,15 and 20	20 hrs	19-02-12/13/15/16/19	16 hrs
Viewing of online lectures	4 hrs	19-02-13/15	7 hrs
Course lectures on campus	8 hrs	19-02-06/13/20	6 hrs
Design features to hangman	2 hrs	19-02-19/20	1 hr
Implement features to hangman	10 hrs	19-02-19/20/21/22	9 hrs
Developing project plan	4 hrs	19-02-19	1 hr
Working on use case and diagrams	4 hrs	19-02-19/20/21	4 hrs
Studying for test	3 hrs	19-02-21	3 hrs
total	55 hrs		47 hrs