Whack a Cat

Win Condition:

The user has a certain number of hits in 30 seconds if not reached then the game is over and the player loses.

User Stories:

- 1. As a user, I want to click a "Play" button so that I can start the game.
- 2. As a user, I want to see cats appear randomly in the grid so that I can try to click them.
- 3. As a user, I want the timer to count down for 30 seconds so that I know how much time I have left.
- 4. As a user, I want to see my score update when I click a cat so that I feel rewarded.
- 5. As a user, I want the game to end if I don't reach the goal in time so that I know I lost.
- 6. As a user, I want the game to display a "You Win!" message if I reach the score before time is up.
- 7. As a user, I want to restart the game by clicking a "Play Again" button so that I can try again.
- 8. As a user, I want cats to appear and disappear faster as the difficulty increases so that higher levels are more challenging.
- 9. As a user, I want the game to place dogs occasionally so that I must avoid clicking them.

Pseudocode:

```
// WHEN user clicks Play button
// INIT score = 0
// INIT timer = GAME_TIME
// INIT strike = false
// START countdown timer
// START interval to show/hide cats
```

```
// FUNCTION countDownTimer():
// DECREASE timer every second
// IF timer reaches 0
 // CALL endGame()
 // SHOW "Game Over" message
// FUNCTION randomCatPlace():
// REMOVE any existing cats
// CHOOSE random cell
// ADD cat class to cell
// SET timeout to remove cat
// FUNCTION clickHandler(e):
// IF strike is true, RETURN
// IF e.target is a cat
 // INCREMENT score
 // REMOVE cat
 // IF score >= WINNING_SCORE AND timer > 0
  // CALL endGame()
  // SHOW "You Win" message
// ELSE IF e.target is a dog
 // CALL addStrike()
 // Temporarily disable clicking
```

```
// FUNCTION addDog():

// RANDOMLY place a dog in grid where cat is not located

// SET timeout to removeDog()

// FUNCTION endGame():

// STOP all intervals

// FUNCTION restart():

// RESET all variables

// CALL play()
```

//RENDER the game message to the DOM