10/15/2017 Udacity Reviews



## PROJECT

## Memory Game

A part of the Front-End Web Developer Nanodegree Program

## PROJECT REVIEW CODE REVIEW 5 NOTES

```
| * create a list that holds all of your cards
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| * create a list t
```

Awesome job using the recent javascript keywords ( const and let ) to declare variables.

```
let distance = now - startTime;
       let days = Math.floor(distance / (1000 * 60 * 60 * 24));
15
       let hours = Math.floor((distance % (1000 * 60 * 60 * 24)) / (1000 * 60 * 60));
let minutes = Math.floor((distance % (1000 * 60 * 60)) / (1000 * 60));
16
17
       let seconds = Math.floor((distance % (1000 * 60)) / 1000);
       let timeString = "";
19
       if (days > 0) timeString += days + "d ";
       if (hours > 0) timeString += hours + "h ";
21
       if (minutes > 0) timeString += minutes + "m ";
       timeString += seconds + "s";
       $('.timer').html(timeString);
25 }, 500);
27 // reset game listener
28 $(".restart").click(function() {
       initGame();
29
30 });
31
32
33
34
35
36 // initialize memory game
```

SUGGESTION

Great work with the commenting of the codes, its gives good information for a 3rd party reading the code. This submission could go further to beautify the comments and provide more detailed explanation for functions.

,····

- @description Represents a book
- @constructor
- @param {string} title The title of the book
- @param {string} author The author of the book
- \*/

```
• function Book(title, author) {
```

- 11

## More In-depth Knowledge

• You can follow the Udacity javascript code style style guide for better code style.

randomIndex = Math.floor(Math.random() \* currentIndex);

temporaryValue = array[currentIndex];

array[randomIndex] = temporaryValue;

array[currentIndex] = array[randomIndex];

99 \* set up the event listener for a card. If a card is clicked:

102 \* - if the list already has another card, check to see if the two cards match

100 \* - display the card's symbol (put this functionality in another function that you call from this one)

101 \* - add the card to a \*list\* of "open" cards (put this functionality in another function that you call from this one)

+ if the cards do match, lock the cards in the open position (put this functionality in another function that you call from

+ if the cards do not match, remove the cards from the list and hide the card"s symbol (put this functionality in another fu

+ increment the move counter and display it on the page (put this functionality in another function that you call from this + if all cards have matched, display a message with the final score (put this functionality in another function that you cal

• http://usejsdoc.org/about-getting-started.html

```
37 function initGame() {
       let cards = shuffle(symbols):
38
39
       $(".stars").empty();
40
       for (var i = 0; i < 3; i++) {
41
           let star = $('<i class="fa fa-star"></i>');
42
           $(".stars").append(star);
43
44
       $(".moves").text("0");
45
       // initial global vars
       open = [];
47
       moves = 0;
48
       match = 0:
49
50
       stars = 3:
       // activate timer
51
       startTime = new Date().getTime();
52
53
       // add event listeners to each card
54
       // handler function : clickCard()
55
       $(".deck").empty();
56
       for (var i = 0; i < cards.length; i++) {</pre>
57
           let card = $('<i class="fa fa-'+cards[i]+'"></i>')
58
           $(".deck").append(card);
59
           card.click(clickCard);
60
       }
61
62 }
63
64 // When all cards are successfully flipped,
65 // confirm dialog shows up giving gamer's performance
66 // in time usage and star level.
67 function endGame() {
Check the section titled Comment of this resource and provide better comments for the functions in this file.
       clearInterval(timer);
       let playAgain = confirm("Congratulations! You used " + ((new Date().getTime()-startTime)/1000).toFixed(2) + " seconds with " +
69
70
       if (playAgain) initGame();
71 }
72
73
74
75 /*
   * Display the cards on the page
77 * - shuffle the list of cards using the provided "shuffle" method below
   * - loop through each card and create its HTML
   * - add each card"s HTML to the page
79
81
82 // Shuffle function from http://stackoverflow.com/a/2450976
83 function shuffle(array) {
       var currentIndex = array.length, temporaryValue, randomIndex;
85
       while (currentIndex !== 0) {
86
```

https://review.udacity.com/#!/reviews/790687

return array;

87 88

89

90

91 92 93

103 \* 104 \*

105

107

```
109 // helper function
  110 // compare whether two flipped cards match
  111 function getSymbol(card) {
          return card.children().attr('class').substring(6);
  112
  113 }
  114
  115 // handler
  116 function clickCard() {
   Check the section titled Comment of this resource and provide better comments for the functions in this file.
          let currentCard = $(this):
  117
          currentCard.addClass('open show');
  118
  119
          // first card in the "two" group
  120
  121
          if (open.length == 0) {
  122
              open.push(currentCard);
  123
          // second card in the "two" group
  124
  125
              // timeout is 500 ms
  126
  127
              setTimeout(function() {
  128
                  moves++;
                  currentCard.removeClass('open show');
  129
                  open[0].removeClass('open show');
  130
                  if (getSymbol(currentCard) == getSymbol(open[0])) {
  131
                       match++;
  132
                       currentCard.addClass('match');
  133
                       open[0].addClass('match');
  134
  135
                  open.pop();
  136
                  $(".moves").text(moves);
  137
  138
                  if (moves == 15) {
  139
                       $(".stars").children().last().remove();
  140
                       stars--;
  141
  142
                  if (moves == 30) {
  143
                       $(".stars").children().last().remove();
  144
                       stars--:
  145
  146
                  if (moves == 45) {
  147
                       $(".stars").children().last().remove();
  148
  149
                       stars--:
  150
  151
                  if (match == 8) {
  152
                       endGame();
  153
  154
              }, 500);
  155
  156
  157 }
  _{159} // main function
  160 initGame()
▶ README.md
▶ index.html
css/app.css
▶ CONTRIBUTING.md
```

Learn the best practices for revising and resubmitting your project.

RETURN TO PATH