## **Project 6: Game Show App**

#### Sections of this Guide:

- How to approach this project includes detailed guidance to help you think about how to organize your code, project and files.
- How to succeed at this project lists the grading requirements for the project, with hints, links to course videos to refresh your memory and helpful resources.

### How to Approach this Project

For the sixth project, you will use JavaScript to create the interactivity portion of a word guessing game. The HTML and CSS will already be written for you, and you will interact with elements that are created in the HTML file, as well as create new elements dynamically inside of your JavaScript. You will also write out the logic for displaying a phrase on screen, handling a user selecting a letter, and determining if the user won or lost the game.

0	Download the project source files from the Game Show App project instructions page in your Techdegree curriculum.				
☐ Set up a new GitHub repo and push the project files to it.					
	☐ Related video: Share Your Projects with GitHub				
۵	As you write your JavaScript code, be sure to save and test often. Code a small section and then test. This will help make troubleshooting much easier				
	Double check everything, validate your files, request an informal review in Slack, and then submit.				
Н	ow to succeed at this project				
He	e is one approach to completing the things you need to pass this project. Make sure you complete them <b>before</b> you turn in your project.				
	Add needed variables				
	Get the element with the id of qwerty and save it to a variable.				
	Get the element with the id of phrase and save it to a variable.				



- ☐ Get the element with a class of btn\_reset and save it to a variable
- ☐ Create a missed variable, initialized to 0, that you'll use later to keep track of the number of guesses the player has missed (remember, if the player guesses wrong 5 times, they lose the game)
- ☐ Create an array named phrases.
  - Declare and initialize the **phrases** array, storing at least five strings that contain only letters and spaces, no punctuation.
  - ☐ Related video: Practice Basic Arrays in JavaScript

```
// return a random phrase from an array
const getRandomPhraseAsArray = arr => {
}

// adds the letters of a string to the display
const addPhraseToDisplay = arr => {

// check if a letter is in the phrase
const checkLetter = button => {

// check if the game has been won or lost
const checkWin = () => {

// check if the game button to be pressed
startButton.addEventListener('click', () => {

// listen for the onscreen keyboard to be clicked
qwerty.addEventListener('click', e => {

// apstrong in the start game button to be clicked
qwerty.addEventListener('click', e => {

// listen for the onscreen keyboard to be clicked
qwerty.addEventListener('click', e => {

// apstrong in the start game button to be clicked
gwerty.addEventListener('click', e => {

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```

Example of all of the project's function headers, or "stubs"

- ☐ Attach an event listener to the "Start Game" button to hide the start screen overlay.
  - ☐ Add the event listener to the variable you created for the <a href="btn\_reset">btn\_reset</a> element
  - ☐ Hide the overlay by changing its display property.



	Creat	e a getRandomPhraseAsArray function.		
	٥	Start by creating a function "stub", where you declare the function and its parameters, but leave the function body blank. Add a code comment that describes the purpose of the function.		
		Create a variable to store a random number based on the length of the array		
		Use the variable to select an index inside of the array.		
		After you create the <a href="mailto:getRandomPhraseAsArray">getRandomPhraseAsArray</a> , you will need to "call" it, and pass the <a href="phrases">phrases</a> array to it.		
		Return the array element at that index		
		Related video: Practice Basic JavaScript Functions		
		Related video: JavaScript Basics: Create a Random Number		
	Creat	te a checkLetter function		
		Create a function "stub" for the checkLetter function		
		☐ Include a parameter in the function head for the button that gets clicked		
		Store all of the li elements in a variable inside checkLetter		
		Create a variable to store if a match is found and give it an initial value of null		
		Loop through all of the <mark>li</mark> elements. Remember: arrays start with index 0!		
		Create a conditional that compares the text of the button parameter to		
		the text of the li at the current index of the loop		
		If they match, add the "show" class to the li		
		If they match, store the button text in the match variable		
		Once the loop completes, return the match variable		
		Related video: Practice Basic JavaScript Functions		
	Add	an event listener to the keyboard		
Note: the event listener should be listening for a user to press a button on the on screen keyboard, not the physical keyboard of the computer.  Start by creating an event listener for the qwerty element that listens for the				
	"click" event.			
		Use a conditional to filter out clicks that don't happen on the buttons or if the		
		button already has the "chosen" class		



		Add the "chosen" class to the button that was pressed.			
		Call the checkLetter function and store the results in a variable.			
		If the checkLetter function does not find a letter, remove one of the heart			
		images and increment the <mark>missed</mark> counter			
	☐ Related Video: JavaScript and the Dom: What is an Event?				
☐ Related Video: JavaScript and the Dom: Listening for Events with					
	<u>addEv</u>	<u>entListener</u>			
☐ Create a checkWin function					
	Create	a variable to store the <mark>li</mark> elements that have the class name "letter"			
	Create a variable to store the li elements that have the class name "show"				
	Check if the length of the 2 variables are the same. If they are, display the win				
	overlay				
		Create the win overlay by adding the "win" class to the start overlay.			
		Change the headline text of the start overlay to show a person won.			
		Change the display property of the overlay to "flex"			
	Check	if the missed counter is greater than 4. If they are, display the lose overlay			
		Create the lose overlay by adding the "lose" class to the start overlay.			
		Change the headline text of the start overlay to show a person lost.			
		Change the display property of the overlay to "flex"			
٥	Relate	d video: Practice Basic JavaScript Functions			

Good luck! And remember if you need any help or have any questions, the Slack community is here for you!