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.

	Download the project source files from the <u>Game Show App project</u> <u>instructions page</u> 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	re is one approach to completing the things you need to pass this project. Make sure you complete them before you turn in your project.
	Add needed variables Get the element with the id of gwerty and save it to a variable.
	— Get the eternetic with the id of gwerty 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 => {

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

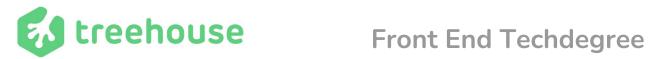
// listen for the onscreen keyboard to be clicked
yearty.addEventListener('click', e => {

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

// lis
```

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 btn_reset element
 - ☐ Hide the overlay by changing its display property.



■ Create a getRandomPhraseAsArray function.					
		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 getRandomPhraseAsArray , you will need to "call" it, and pass the phrases array to it.			
		Return the array element at that index			
		Related video: Practice Basic JavaScript Functions			
		Related video: JavaScript Numbers: Create a Random Number			
Create an addPhraseToDisplay function.					
		Create an addPhraseToDisplay function that loops through an array of			
		characters. You will need to write it so that it can take any array of letters and add			
		it to the display.			
		Inside the loop, for each character in the array,			
		☐ Create a list li item			
		Put the character inside of the list item			
		Append that list item to the #phrase ul in your HTML			
		If the character in the array is a letter and not a space, the			
		function should add the class "letter" to the list item. If not, add			
		the <mark>"space"</mark> class.			
		To use the function, you'll get the value returned by the			
		getRandomPhraseAsArray, save it to a variable, and pass it to			
		addPhraseToDisplay as an argument.			
		Related video: Practice Basic JavaScript Functions			
		Related video: Creating New Dom Elements			
		Related video: Appending Nodes			



Crea	te a checkLetter function
	Create a function "stub" for the checkLetter function
	lacksquare 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 li 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
	the event listener should be listening for a user to press a button on the on
_	keyboard, not the physical keyboard of the computer. Start by creating an event listener for the qwerty element that listens for the
u	"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 hear
	images and increment the missed counter
	Related Video: JavaScript and the Dom: What is an Event?
_	Related Video: JavaScript and the Dom: Listening for Events with
_	addEventListener
	addLvericListerier
Crea	te a checkWin function
	Create a variable to store the <code>li</code> elements that have the class name "letter"
	Create a variable to store the <code>li</code> elements that have the class name "show"



I Check if the length of the 2 variables are the same. If they are, display the			
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, displa			
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"		
	overlar Check overlar		

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