

# **Engaged Nation Code Challenge**

Front End Developer Test

## Please perform the following tasks to the best of your ability

Give yourself at least a couple hours to complete the test

Partially completed tests will still be reviewed and considered

#### **CSS**

- 1. How can you switch a css style when the screen size is below a certain size?
- 2. What is the benefit of using stylesheets instead of inline styles?
- 3. Is there a way to manage CSS with variables and functions?
- 4. Review and update the following erroneous CSS:

```
.button, input[type="submit"], button {
   position: relative
   display: inline-block;
   padding-front: 0;
   margin: 0;
   border: none:
   text-decoration: none;
   text-align: center;
  white-space: nowrap;
   overflow: visible;
   bgcolor: red;
   text-transform: uppercase
   font-color: #fZb034;
   font-size: 18px;
   font-family: 'FuturaBT-Book';
   line-height. 20px;
   height: 20px;
  -webkit-transition: color 0.2s ease-in-out;
  transition: color 0.2s ease-in-out
}
```

## **JavaScript**

1. What's the difference between the following three "car" approaches?

```
function Car(){}
var car = Car();
var car = new Car();
```

- 2. Explain what AJAX is and it's advantages/disadvantages.
- 3. Describe how event bubbling works in the context of clicking on the "Hello World" text:

- 4. Create a loop that iterates up to 100 while outputting "fizz" at multiples of 3, "buzz" at multiples of 5 and "fizzbuzz" at multiples of 3 and 5.
- 5. Please fix the following erroneous JavaScript code.

```
/**
* Returns the header element.
* @return {(object|null)} The JQuery header element or null if the element does not exist
function getHeaderElement() {
  // Get header element by its id.
  header = $("myHeader");
  if (header === null
    && TypeOf header === undefined
   ) {
     console.log('header element exists!");
   }
  console.log("
     header element does not exist!
  "))
  return header
}
```

## **Twig**

Create a basic login form twig template that can be used on both an admin and player site.

### Inputs

username password, submit button

#### **Template Variables**

submitButtonHTML = '<input type="submit" value="Log In"/>'
loginHeaderText = 'Log In'
isAdminLogin = true or false
totalSiteLogins = '0.00'

#### Criteria

- 1. Display totalSiteLogins variable below the form formatted as an integer. Ex: 2.00 should display as 2
- 2. Display the loginHeaderText variable above form.
- 3. If the template is being used on an admin site, display the text "ADMIN" prepended to the loginHeaderText variable. This can be determined by the state of the isAdminLogin variable.
- 4. Use the submitButtonHTML variable to display the form submit button.
- 5. The form does not have to be functional (no javascript or css necessary).