# Take home coding exercise: Fizz Buzz

## Background

Fizz Buzz is a web application with a user interface and a Restful API.

The web interface can be accessed via: <**TBD>.**

The Restful API is hosted here: <**TBD>** and only supports HTTP GET verb. You may pass the input array in the query string using the following format **<TBD>**

The application accepts an array of values and for each value in the array does the following:

1. If the value is a **multiple of 3** outputs the word “**Fizz**”
2. If the value is a **multiple of 5** outputs the word “**Buzz**”
3. If the value is a **multiple of both 3 and 5** outputs the word “**FizzBuzz**”
4. If the value is **not numeric** outputs “**Invalid Item**”
5. Finally, the application returns the following outputs for each division performed. The table below shows a list of inputs and their corresponding expected outputs.

|  |  |
| --- | --- |
| Input | Expected Output |
| 1 | Divided 1 by 3 |
| Divided 1 by 5 |
| 3 | Fizz |
| 5 | Buzz |
| <empty> | Invalid Item |
| 15 | FizzBuzz |
| A | Invalid item |
| 23 | Divided 23 by 3 |
| Divided 23 by 5 |

Assignment

Write an automated test suite in the tool of your choice to ensure the FizzBuzz application meets the requirements described above. For the purpose of this exercise, you may elect to test either the web interface or the Restful API.

**Note:**

* If you chose to test the API the Expected Output will be returned in Json format.
* If you chose to test the UI the Expected Output will be rendered on a table.

If you have any questions regarding the requirements you can either ask for clarification or make assumptions. Please briefly include any assumptions you make with your solution.

The preferred way is to submit your example via www.github.com. Name your repository "FizzBuzz" and send the url to your point of contact with "FizzBuzz" on the subject line. Optionally, you can zip up your solution and send it to your recruiter.

Have Fun!