

FizzBuzz Service

Overview

Following a test-first methodology, create an Angular service which exposes a public method named 'fizzbuzz' that takes a number input, processes it according to the fizzbuzz algorithm specifications, and returns a string.

Getting Set up

Clone the AngularTestingWorkshop repo and install dependencies via command line:

```
git clone https://github.com/JimTheMan/AngularTestingWorkshops
```

```
cd AngularTestingWorkshops/1_Fizzbuzz-Service/Fizzbuzz-Service_Start_Here
```

```
npm install and then bower install
```

Part 1. TDD / Unit Testing

Create this: an Angular "service service" with a public method fizzbuzz()

The fizzbuzz method should:

- return something.
- return a string.
- return 'fizz' if the number passed in is divisible by 3.
- return 'buzz' if the number passed in is divisible by 5.
- return 'fizzbuzz' if the number passed in is divisible by 3 and 5.
- if the number is divisible by neither 3 nor 5, return the number as a string¹.
- return 'Whoops! Please pass a whole number into fizzbuzz!' if the number passed into fizzbuzz is not a full digit value with data type Number.
- be able to handle whole numbers in string data type².
- return '0 the hero' when the number passed in is zero.
- support negative numbers according to the same rules as above.

Part 2. E2e Protractor Testing

Create this: an html file with a text input and a <p> tag bound to a controller variable inputValue. inputValue variable is found by taking the value of the text input and sending it through the fizzbuzz method you created.

The page should:

- change the text in the <p> tag when the text in the input is changed.
- change the text in the <p> tag to 'fizz' when the text in the input is 3.
- change the text in the <p> tag to 'buzz' when the text in the input is 10.
- change the text in the <p> tag to 'fizzbuzz' when the text in the input is 3000.
- change the text in the <p> tag to 'Whoops! Please pass a whole number into fizzbuzz!' when the text in the input is 'bazinga'.
- change the text in the <p> tag to 'fizz' when the text in the input is -6.
- change the text in the <p> tag to '0 the hero' when the text in the input is 0.
- change the text in the <p> tag to 'fizzbuzz' when the text in the input is -30.
- change the text in the <p> tag to 11 when the text in the input is 11.
- change the text in the <p> tag to 'Whoops! Please pass a whole number into fizzbuzz!' when the text has no input.
- when app first loads up, show nothing in the <p> tag until the text input is changed by the user.

Note: You may use Angular 1 or Angular 2 for this workshop.



Run in browsersync:

`gulp serve`

Run unit tests:

`gulp test:auto`

¹E.g. fizzbuzz(42) should return the string '42'.

²E.g. the string '45' passed into fizzbuzz should be processed as just the number 45.



Bonus Challenge
UI & End-to-end Tests

Run e2e tests:

`gulp protractor`

Page example:

fizzbuzz

