Module #3, Assignment 1: Recipe Puppy HTTP API Interface

The purpose of this assignment is to implement a source of data – for use in an MVC Model class implementation.

The functional goal is to implement a restful-flavored API client for http://www.recipepuppy.com/about/api/ to return JSON documents containing recipe information.

Functional Requirements

- 1. Implement a Ruby class that will
 - accept a keyword search term
 - forward the keyword search term according to the www.recipepuppy.com interface definition using the HTTParty API
 - return the JSON document containing recipe information provided by www.recipepuppy.com

Getting Started

1. Download and extract the starter set of boostrap files from (URL).

```
--- student-start
|-- .rspec (important hidden file)
|-- chocolate_recipes.json
|-- module3_1_assignment.rb
|-- solution.rb
'-- spec
|-- recipe_spec.rb
'-- spec_helper.rb
```

- .rspec configuration file for unit tests. If you move your files you must take care to also copy this file.
- module3_lesson1_assignment.rb contains the starting example. Your solution must be placed within this file.
- spec this directory contains tests to verify your solution. You should not modify anything in this directory
- chocolate_recipes.json used for off-line unit testing by rspec tests
- 2. Install the following gems used by the rspec unit tests. You may have some of these already installed. The last gem is used for testing HTTP calls without using the live www.recipepuppy.com site.

```
$ gem install rspec
$ gem install rspec-its
$ gem install webmock
```

- 3. Read thru the recipepuppy and HTTParty documentation.
 - HTTParty API document is located at https://github.com/jnunemaker/httparty
 - recipepuppy interface definition is located at http://www.recipepuppy.com/about/api/
- 4. Implement the Ruby class in a file called module3_1_assignment.rb.
- 5. Run the rspec test(s) to receive feedback. If you copy/move them, be sure to include the important .rspec hidden file. All tests will (obviously) fail until you complete the specified solution.

```
$ rspec

Recipe
  should respond to #for (FAILED - 1)
  default params
```

```
example at ./spec/recipe_spec.rb:10 (FAILED - 2)
  base_uri
    example at ./spec/recipe_spec.rb:11 (FAILED - 3)
  Chocolate Search
    example at ./spec/recipe_spec.rb:22 (FAILED - 4)
    size
      example at ./spec/recipe spec.rb:23 (FAILED - 5)
Failures:
  1) Recipe should respond to #for
  2) Recipe default params
  3) Recipe base uri
  4) Recipe Chocolate Search
  5) Recipe Chocolate Search size
Finished in 0.06497 seconds (files took 1.51 seconds to load)
5 examples, 5 failures
Failed examples:
rspec ./spec/recipe_spec.rb:9 # Recipe should respond to #for
rspec ./spec/recipe spec.rb:10 # Recipe default params
rspec ./spec/recipe spec.rb:11 # Recipe base uri
rspec ./spec/recipe_spec.rb:22 # Recipe Chocolate Search
rspec ./spec/recipe_spec.rb:23 # Recipe Chocolate Search size
```

6. Run the solution.rb Ruby script to execute a sample call.

```
require_relative "module3_1_assignment"
puts Recipe.for("chocolate")
```

Technical Requirements

- 1. Implement a Recipe class that will implement the HTTP API to http://www.recipepuppy.com/about/api/. The unit tests will expect a class by that exact name.
- 2. The Recipe class should
 - be implemented in a file called module3_1_assignment.rb. The unit tests will expect a file by that name.
 - import the HTTParty mixin
 - define a base_uri to use http://www.recipepuppy.com/api
 - define a default query param of onlyImages=1 for all HTTP GET requests in order to only return results that contain associated thumbnails.
 - specify the desired format as ison
 - specify all the above using legal Ruby syntax and
- 3. The Recipe class must have a for class method that
 - accepts a keyword for a search term
 - issues an HTTP GET request using the HTTParty gem
 - the HTTP GET request must have the "q=keyword" query argument
 - returns the JSON payload document supplied in the results element of the hash returned by HTTParty

Self Grading/Feedback

Some unit tests have been provided in the bootstrap files that can be used to evaluate your solution. They must be run from the same directory as your solution.

```
$ rspec
```

```
Recipe
   should respond to #for
   default_params
     should include {:onlyImages => 1}
   base_uri
     should include "http://www.recipepuppy.com/api"
   Chocolate Search
     should be a kind of Array
     size
        should eq 10

Finished in 0.03678 seconds (files took 0.81808 seconds to load)
5 examples, 0 failures
```

A client script (solution.rb) is also provided in the bootstrap and can be used to issue a sample client request.

```
$ ruby solution.rb
{"title"=>"Tim and Tracy's Chocolate Cake (Boiled)", "href"=>"http://www.recipezaar.com/Tim-and-Tracys-Chocolate"
...
{"title"=>"Double Chocolate Cookies & Double Chocolate Ch
```

Submission

There is no submission required for this assignment but the implementation will be part of a follow-on assignment so please complete this to the requirements of the unit test.

Your final directory contents should look as follows:

Updated: 2015-09-19