Recommend Web API Documentation

David Thompson, thompd
10, 400 117555 $\label{eq:April 7, 2019} \text{April 7, 2019}$

Overview

Routine name	Input	Output	Exceptions
/recommend/restaurant	String	Restaurant	400, 404
/recommend/search	String, (int)	seq of Restaurant	400, 404
/recommend/suggest	double, double, seq of String, seq of int,	seq of Restaurant	400, 404
	(double, int)		

/recommend/restaurant

Get the Restaurant with the given ID. The returned restaurant is represented using JSON.

Example Usage:

/recommend/restaurant?id=mlHC2XcU9Bows6cnYEmRgg

Parameters:

• id: The String id of the Restaurant

Returns:

The Restaurant object, represented using JSON.

Exceptions:

- 400: The URL used to call the rountine was malformed
- 404: No restaurant with the given ID was found

/recommend/search

Search the database of restaurants with a restaurant whose name begins with the search query.

Example Usage:

/recommend/restaurant?query=Salad+Da&max=3

Parameters:

- query: The start of the name of the restaurant to search for
- max: (optional) The maximum number of results to return. The default is 10

Returns:

A newline seperated list of JSON strings, which represent the Restaurant objects that match the search query.

Exceptions:

- 400: The URL used to call the rountine was malformed
- 404: No restaurants whose names begin with the wquery String were found

/recommend/suggest

Recommend restaurants given a list of previous restaurants and ratings, as well as a few other parameters. Please note the sample syntax for building the lists in the URL in order to build the lists correctly.

Example Usage:

Split across multiple lines for readability and in order to fit on the page. The actual

/recommend/suggest?
lat=43.5&long=-79.3
&visited=mlHC2XcU9Bows6cnYEmRgg&stars=4
&visited=LmIGu7WPby4lm8MpEL10Mw&stars=2

Parameters:

- lat: The user's latitude in degrees, expressed as a decimal number
- long: The user's longitude in degrees, expressed as a decimal number
- visited: A list of the Restaurant IDs of where the user has been
- stars: A list of the user's ratings of the restaurants they've been to. The ratings must be expressed as an integer between 1 and 5 inclusive at both endpoints. This integer corresponds to the star rating. The list must be the same length as the visited list
- max: (optional) The maximum number of recommendations to return. If no value is supplied, the default is 10.
- rad: (optional) The cutoff radius for recommendations, as a decimal number, in kilometers. Restaurants outside this range will not be considered. If no value is supplied, the default value of 100 km is used.

Returns:

A newline seperated list of JSON strings, which represent the Restaurant objects of the restaurants that are being recommended.

Exceptions:

- 400: The URL used to call the rountine was malformed
- 404: No restaurants where found that could be recommended