

Cocktail Exercise

Introduction

The Cocktail DB is a public database of cocktails and drinks from around the world <https://www.thecocktaildb.com/>. The Cocktail DB has a public API to retrieve data about ingredients and drinks. See the documentation here <https://www.thecocktaildb.com/api.php>.

We have proposed some requirements for the cocktail API (this list is incomplete!).

Assumptions about the Project.

Straight out of the bat, I assume this is an API testing coding exercise.

Functional Requirements.

Search Ingredients By Name: <http://www.thecocktaildb.com/api/json/v1/1/search.php?i=vodka>

- The system shall include a method to search by ingredient name and return the following fields:
 - Ingredient ID (string),
 - Ingredient (string),
 - Description (string),
 - Type (string),
 - Alcohol (string) and
 - ABV (string).
- If an ingredient is non-alcoholic, Alcohol is null and ABV is null
- If an ingredient is alcoholic, Alcohol is yes and ABV is not null.

Test Cases.

(<http://www.thecocktaildb.com/api/json/v1/1/search.php?i=vodka>)

1. Title: Search for already existing Ingredients in Cocktail DB.

Description: Verify Cocktail DB can search an ingredient by the provided name and return specific fields.

Step Definitions:

- A user sends a Get request with existing ingredients as queryParams
- Cocktail DB Responds with a filtered ingredients description.
- Validate status code 200

Expected Results:

Validate JSON response should include the following fields:

- Ingredient ID (string),
- Ingredient (string),
- Description (string),
- Type (string),
- Alcohol (string) and
- ABV (string).
- Assert all the fields contain value-provided data.

2. Title: A user should be able to search for a non-alcoholic ingredient, then should return Alcohol levels as null and ABV as null

Description: Verify Cocktail DB can search by non-alcoholic ingredients, then return Alcohol level as null and ABV as null.

Pre-requisites:

- The non-alcoholic ingredient is needed to complete the test e.g Orange

Step Definitions:

- A user sends a Get request with existing non-alcoholic ingredients as queryParams
- Cocktail DB Responds with a filtered ingredients description.
- Validate status code 200

Expected Results:

- JSON response should be returned populated with non-alcoholic ingredients list.
- Assert that Alcohol levels and ABV are null.

3. Title: A user should be able to search for an ingredient that exists, then should return Alcohol levels as null and ABV as null

Description: Verify a user can search by ingredient with an alcoholic, then Alcohol is Yes and ABV is null

Pre-requisites:

- An alcoholic ingredient is needed to complete the test e.g Gin, Vodka

Step Definitions:

- A user sends a Get request with existing alcoholic ingredients as queryParams
- Cocktail DB Responds with a filtered ingredients description.
- Validate status code 200

Expected Results:

- JSON response should be returned populated with non-alcoholic ingredients list.
- Assert that Alcohol levels "Yes" and ABV have value.

4. Title: Search with ingredients that do not exist in Cocktail DB.

Description: Verify if a user can search by a name that does not exist in the Cocktail DB API

Pre-requisites:

- A non-existing ingredient is needed to complete the test "nibbribnr"

Step Definitions:

- A user sends a Get request with existing alcoholic ingredients as queryParams
- Cocktail DB Responds with a filtered ingredients description.
- Validate status code 200

Expected Results:

- Assert that the ingredients list is empty.
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Search Cocktails By Name: <http://www.thecocktaildb.com/api/json/v1/1/search.php?s=margarita>

- The system shall include a method to search by cocktail name.
- If the cocktail does not exist in the cocktail DB, the API shall return drinks as null.
- Searching for a cocktail by name is case-insensitive
- API response must contain the following Schema properties:

Element Name	type	Required
drinks	Array	Yes
strDrink	String/null	Yes
strDrinkAltitative	String/null	No
strTags	String/null	Yes
strVideo	String/null	No
strCategory	String/null	Yes
strIBA	String/null	No
strAlcohol	String/null	Yes
strGlass	String/null	Yes
strInstructions (ES/DE/FR/IT/ZH-HANS/ZH-HANT)	String/null	only strInstructions
strDrinkThumb	String/null	No
strIngredient1-15	String/null	only strIngredient1
strMeasure1-15	String/null	only strMeasure1
strImageSource	String/null	No
strImageAtributes	String/null	No
strCreativeCommonsConfirmed	String/null	Yes
dateModified	String/null	Yes

Test Cases.

API URL Search cocktail By name (

<http://www.thecocktaildb.com/api/json/v1/1/search.php?s=margarita>)

1. Title: Cocktail API response must be validated again JSON schema

Description: Verify Cocktail DB response corresponds with cocktailJsonSchema properties

Step Definitions:

- A user sends a Get request with existing alcoholic ingredients as queryParams
- Cocktail DB API Responds with a filtered list of ingredient descriptions.
- Validate status code 200

Expected Results:

- The JSON response must correspond with the cocktailJsonSchema.json
- Assert that API response equals true against JSON schema.

2. Title: Search Cocktails By Name

Description: Verify user can search cocktails by name using Cocktail DB API

Step Definitions:

- A user sends a Get request with an existing alcoholic cocktail name with a queryParams
- Cocktail DB API Responds with a filtered list of cocktail descriptions.
- Validate status code 200

Expected Results:

A Valid JSON response should include the following fields.

- strDrink (String)
- strDrinkAlternate (String)
- strTags (ContemporaryClassic)
- strCategory (Ordinary Drink)

- strIBA (Contemporary Classics)
- strAlcoholic (Alcoholic)

3. Title: Verify Cocktail Category by Name.

Description: Verify the category of a Cocktail by searching for a specific cocktail.

Pre-requisites:

- An alcoholic cocktail is needed to complete the test e.g Orange

Step Definitions:

- A user sends a Get request with an existing cocktail as queryParams
- Cocktail DB Responds with a filtered ingredients description.
- Validate status code 200

Expected Results:

- Assert the category to which the cocktail belongs.