
Recipe CLI Tool

OVERVIEW

The Recipe Tool is a dockerized application that analyzes a custom fixtures file for a list of recipe and it's details. It accepts search conditions to filter specific data and provides a JSON output.

Setup and Run Instructions:

Below steps are to be performed to setup the tool.

- 1. Clone the git repository, and use dev branch:**

<https://github.com/hellofreshdevtests/charubak-chakraborty-recipe-count-test-2020>

- 2. Run the build command with make tool:**

make build-recipe-tool
filename="/Users/chachakr/Desktop/test-recipe/hf_test_calculation_fixtures.json"

Custom fixture file path is mandatory for the build process to run.

- 3. Run the CLI tool with mandatory search parameters:**

make run-recipe-tool searchby="Cheese,Steak" postcode="10120" deliverytime="11AM - 1PM"

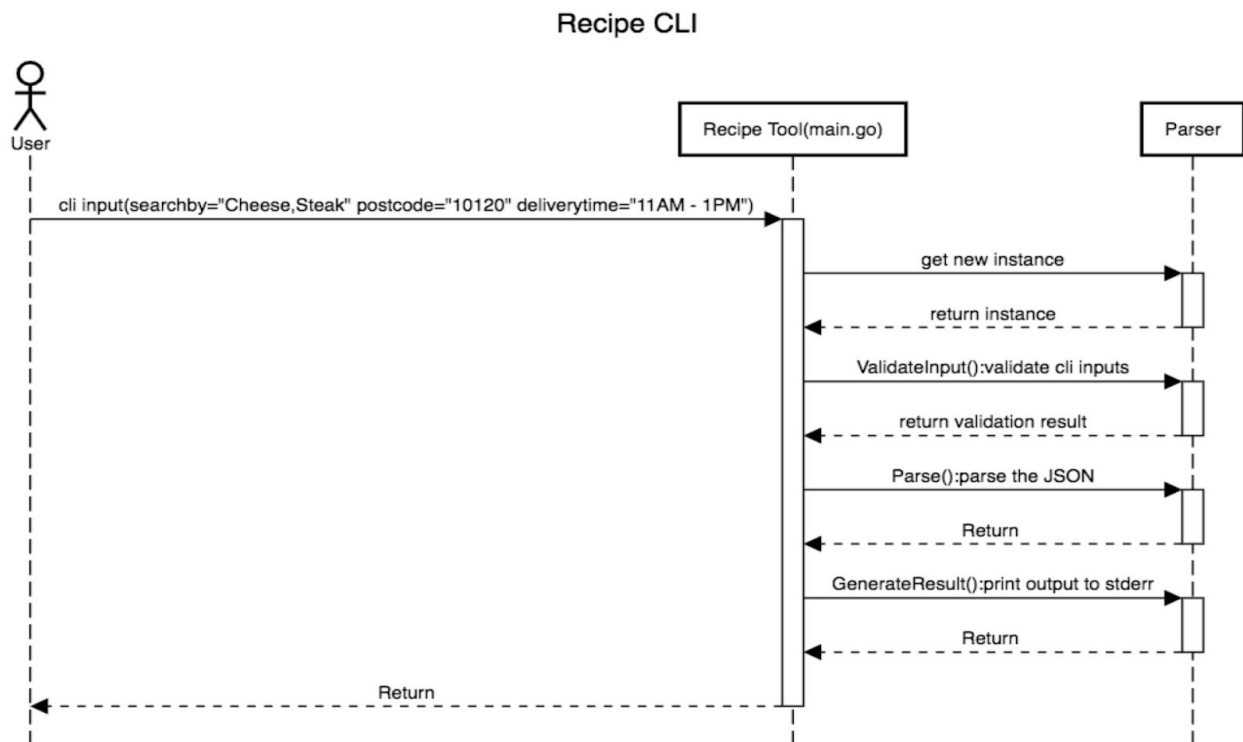
searchby, postcode and deliverytime is mandatory for the tool to run.

Solution Approach:

The solution Approach is detailed as below:

- A parser module to parse the JSON input and generate results.
- Main.go as the entrypoint to the CLI tool.
- Build process by docker.
- Output JSON Structure

Parser Module:



Main.go and input parameters:

Input parameters for running the app:

- searchby(string, tags to be searched amongst list of recipes), must be comma separated, example: "Cheese,Steak"
- postcode(string, post code to be searched for delivery counts), example: "10120"
- deliverytime(string, time constraint for delivery counts), validated by [0-12][AM/PM] , example: '12AM', '10PM'

Build Process by Docker:

Custom fixture file needs to be provided during recipe build command, and should have the below structure:

```
[[
  "postcode": "10224",
  "recipe": "Creamy Dill Chicken",
  "delivery": "Wednesday 1AM - 7PM"
],
[
  "postcode": "10208",
  "recipe": "Speedy Steak Fajitas",
  "delivery": "Thursday 7AM - 5PM"
]
]
```

Output JSON Structure:

The JSON output has the below structure:

```
{
  "unique_recipe_count": 29,
  "count_per_recipe": [
    {
      "recipe": "One-Pan Orzo Italiano",
      "count": 333109
    },
    {
      "recipe": "Spanish One-Pan Chicken",
      "count": 333291
    },
    {
      "recipe": "Korean-Style Chicken Thighs",
      "count": 333069
    },
    {
      "recipe": "Chicken Pineapple Quesadillas",
      "count": 331514
    },
    {
      "recipe": "Sweet Apple Pork Tenderloin",
      "count": 332595
    },
    {
      "recipe": "Cherry Balsamic Pork Chops",
      "count": 333889
    },
    {
      "recipe": "Grilled Cheese and Veggie Jumble",
      "count": 333742
    },
    {
      "recipe": "Cajun-Spiced Pulled Pork",
      "count": 667365
    },
    {
      "recipe": "Honey Sesame Chicken",
      "count": 333748
    },
    {
      "recipe": "Speedy Steak Fajitas",

```

```
    "count": 333578
  },
  {
    "recipe": "Yellow Squash Flatbreads",
    "count": 333394
  },
  {
    "recipe": "Creamy Shrimp Tagliatelle",
    "count": 333395
  },
  {
    "recipe": "Hearty Pork Chili",
    "count": 333355
  },
  {
    "recipe": "Steakhouse-Style New York Strip",
    "count": 333473
  },
  {
    "recipe": "Cheesy Chicken Enchilada Bake",
    "count": 333012
  },
  {
    "recipe": "Stovetop Mac 'N' Cheese",
    "count": 333098
  },
  {
    "recipe": "Hot Honey Barbecue Chicken Legs",
    "count": 334409
  },
  {
    "recipe": "Tex-Mex Tilapia",
    "count": 333749
  },
  {
    "recipe": "Melted Monterey Jack Burgers",
    "count": 333264
  },
  {
    "recipe": "Spinach Artichoke Pasta Bake",
    "count": 333545
  },
  {
    "recipe": "Garlic Herb Butter Steak",
    "count": 333649
  },
  {
    "recipe": "Mediterranean Baked Veggies",
    "count": 332939
  },
  {
    "recipe": "Chicken Sausage Pizzas",
    "count": 333306
  },
  {
    "recipe": "Garden Quesadillas",
    "count": 333284
  },
  {
    "recipe": "Meatloaf à La Mom",
    "count": 333570
  },
  {
    "recipe": "Crispy Cheddar Frico Cheeseburgers",
```

```
        "count": 333251
      },
      {
        "recipe": "Creamy Dill Chicken",
        "count": 333103
      },
      {
        "recipe": "Parmesan-Crusted Pork Tenderloin",
        "count": 333311
      },
      {
        "recipe": "Mole-Spiced Beef Tacos",
        "count": 332993
      }
    ],
    "busiest_postcode": {
      "postcode": "10176",
      "delivery_count": 91785
    },
    "match_by_name": [
      "Grilled Cheese and Veggie Jumble",
      "Speedy Steak Fajitas",
      "Steakhouse-Style New York Strip",
      "Stovetop Mac 'N' Cheese",
      "Garlic Herb Butter Steak",
      "Crispy Cheddar Frico Cheeseburgers"
    ],
    "count_per_postcode_and_time": {
      "postcode": "10120",
      "from": "11AM",
      "to": "1PM",
      "delivery_count": 90982
    }
  }
}
```

Test cases:

Test cases are provided and can be run by:

make test-recipe-tool

filename="/Users/chachakr/Desktop/test-recipe/hf_test_calculation_fixtures.json"