

Question: Orchestration API to load data from the external dataset into local in-memory DB, and then provide REST endpoints to fetch the recipes based upon various user criteria.

Category: Backend API

Tags: Recipes API, Load In-Memory DB, REST API

DataSet: <https://dummyjson.com/recipes>

Spend time to go through the dataset and understand the the 3rd party API's <https://dummyjson.com/recipes> response payload that needs to be loaded into the in-memory H2 DB

Go through the below references to understand the in-memory H2 database, which will need to be integrated in the API implementation: <https://www.baeldung.com/spring-boot-h2-database> and <https://initializ.io/blogs/create-crud-rest-api-with-h2-database-and-jpa-with-spring-boot-in-under-15-min/>

Go through the below reference to understand free text search implementation, which will be required in the API implementation: <https://www.baeldung.com/hibernate-search>

Write a RESTful API endpoint to load all the recipes data from the dataset to in-memory H2 DB.

Expose the following RESTful API endpoints to retrieve data from the in-memory H2 DB:

- a. List all recipes based on free text search on the recipes name and cuisine
- b. Find a specific recipe by id

Expectations:

1. The code should follow clean code practices
 - a. Modular
 - b. Application Logging
 - c. Exception Handling
 - d. Environment Layering
 - e. Input Data Validations
 - f. Unit testcases & Code Coverage
 - g. Externalized config parameters, if any
 - h. README.md file to describe the API and steps to build and run it
2. The call to the 3rd party <https://dummyjson.com/recipes> should be optimized
3. The call to the 3rd party <https://dummyjson.com/recipes> should be resilient
4. The APIs should follow REST standards for fetching the recipes from in-memory DB
5. The REST APIs should be documented using Swagger/OpenAPI plug-ins