

Recipe Manager

Contents

Overview	1
Database Structure	2
REST Endpoints	2
Sample Input for Recipe Search	4
Sample Input for Creating recipes	5
Running the application	5

Overview

The application consists of a Spring Boot application with REST endpoint.

SpringBoot version – 2.7.2

Java version used – 17

Database for application - H2 database. It can be updated for any required database

Current database properties

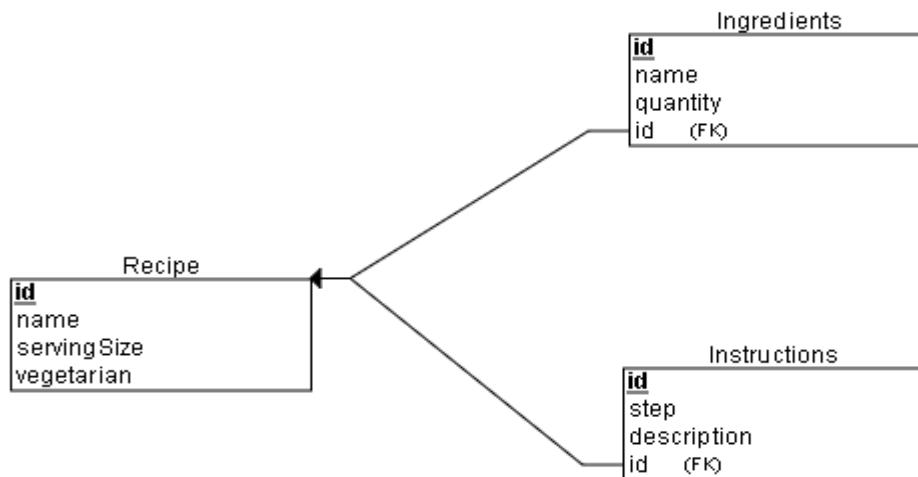
```
spring.h2.console.enabled=true
spring.datasource.url=jdbc:h2:mem:recipedb
spring.datasource.driverClassName=org.h2.Driver
spring.datasource.username=sa
spring.datasource.password=password
spring.jpa.database-platform=org.hibernate.dialect.H2Dialect

spring.jpa.generate-ddl=true
spring.jpa.hibernate.ddl-auto=update
```

Database Structure

It consists of 3 database tables, Recipe, Ingredients and Instructions.

The Recipe table is the main table that contains the Recipes with a link to the Ingredients and Instructions tables for preparing the recipes.



REST Endpoints

Rest endpoints are secured with basic authentication

Username : user

Password : password

REST Verb	Endpoint	Response Status and sample output	Sample Input
POST	http://localhost:8080/api/recipe	201 CREATED <pre>{ "id" : 1, "name": "Steak Meal", "servingSize": 45, "vegetarian": true, "ingredients": [{ "id": 1, "name": "Steak", "quantity": "500 ml" }] }</pre>	<pre>{ "name": "Steak Meal", "servingSize": 45, "vegetarian": true, "ingredients": [{ "id": 1, "name": "Steak", "quantity": "500 ml" }] }</pre>

		<pre> }], "instructions": [{ "step": 1, "description": "Wash Leaves" }] }</pre>	<pre> "instructions": [{ "step": 1, "description": "Wash Leaves" }]</pre>
DELETE	http://localhost:8080/api/recipe/{id}	204 No content	
GET	http://localhost:8080/api/recipe/{id}	<pre> 200 OK { "id":2 "name": "Steak Meal", "servingSize": 45, "vegetarian": true, "ingredients": [{ "id": 1, "name": "Steak", "quantity": "500 ml" }], "instructions": [{ "id": 5 "step": 1, "description": "Wash Leaves" }] }</pre>	
GET	http://localhost:8080/api/recipe	<pre> 200 OK { "id":2 "name": "Steak Meal", "servingSize": 45, "vegetarian": true, "ingredients": [{ "id": 1,</pre>	<pre> { "vegetarian" : false, "servings" : 2, "includeSearch" : "Steak" , "excludeSearch" : "Chicken", "searchInstructions" : "Oven" }</pre>

		<pre> "name": "Steak", "quantity": "500 ml" }], "instructions": [{ "id": 5 "step": 1, "description": "Wash Leaves" }] }</pre>	
PUT	http://localhost:8080/api/recipe/{id}	<pre> { "name": "Steak meal", "servingSize": 45, "vegetarian": true, "ingredients": [{ "id": 1, "name": "Steak", "quantity": "500 ml" }], "instructions": [{ "step": 1, "description": "Wash Leaves" }] }</pre>	<pre> { "name": "Steak Meal", "servingSize": 45, "vegetarian": true, "ingredients": [{ "id": 1, "name": "Steak", "quantity": "500 ml" }], "instructions": [{ "step": 1, "description": "Wash Leaves" }] }</pre>

Sample Input for Recipe Search

Description	Sample Input
<p>"vegetarian" - Accepts true/false if a Vegetarin meal</p> <p>"servings" : Number of servings</p> <p>"includeSearch" : Ingredient to include in search</p> <p>"excludeSearch" : Ingredient to exclude in search</p> <p>"searchInstructions" : Instruction to include in search</p>	<pre> { "vegetarian" : true, "servings" : 2, "includeSearch" : "Steak", "excludeSearch" : "Chicken", "searchInstructions" : "Oven" }</pre>

Sample Input for Creating recipes

```
{
  "name": "Cake",
  "servingSize": 4,
  "vegetarian": true,
  "ingredients": [
    {
      "name": "Flour",
      "quantity": "500 ml"
    },
    {
      "name": "Eggs",
      "quantity": "2 eggs"
    },
    {
      "name": "Milk",
      "quantity": "500 ml"
    }
  ],
  "instructions": [
    {
      "step": 1,
      "description": "Mix ingredients"
    },
    {
      "step": 2,
      "description": "Pre heat oven to 180 degrees"
    },
    {
      "step": 3,
      "description": "Bake batter for 20 mins"
    }
  ]
}
```

Running the application

Check out code

Execute mvn clean install

Run the RecipesManagerApplication via an IDE or in a terminal window execute `java -jar recipesmanager-api-0.0.1-SNAPSHOT.jar`