**RECIPE REST API**

RECEPI REST SERVICE API:

* CRUD Operation (GET/POST/PUT/DELETE)
* Swagger UI
* Junit
* Source code availability at GIT (<https://github.com/port2pk/RecipeRESTAPI>.)
* My SQL Database integration.
* Logging
* JWT Web authentication & authorization.
* Exception Handling.

**DETAILS:**

It is just a sample demo for demonstrate the rest service. The below given feature has been added.

1. A sample CRUD operation for recipe add/ update / delete / retrieve.

**GET Method:**

URL: <http://localhost:8080/users/recipes>

Status: 200 OK

Output:

    {

        "recipeId": 3,

        "recipeCd": "CRISPY COCONUT OATMEALS",

        "recipeCreationDt": "2021-05-05T18:30:00.000+00:00",

        "recipeModificationDt": "2021-05-05T18:30:00.000+00:00",

        "noOfPerson": 4,

        "active": **true**

    },

    {

        "recipeId": 2,

        "recipeCd": "CRISPY COCONUT OATMEALS",

        "recipeCreationDt": "2021-05-05T18:30:00.000+00:00",

        "recipeModificationDt": "2021-05-05T18:30:00.000+00:00",

        "noOfPerson": 3,

        "active": **true**

    }

**POST Method:**

URL : http://localhost:8080/users/recipe

Status: 201 Created

Input: {"recipeId":**null**,"recipeCd":"CRISPY COCONUT OATMEALS","recipeCreationDt":"2021-05-05T18:30:00.000+00:00","recipeModificationDt":"2021-05-05T18:30:00.000+00:00","noOfPerson":3,"active":**true**}

**PUT Method:**

URL : http://localhost:8080/users/recipe/1

Status: 201 Created

Input: {"recipeId":1,"recipeCd":"CRISPY COCONUT OATMEALS","recipeCreationDt":"2021-05-05T18:30:00.000+00:00","recipeModificationDt":"2021-05-05T18:30:00.000+00:00","noOfPerson":4,"active":**true**}

Output: {

    "recipeId": 3,

    "recipeCd": "CRISPY COCONUT OATMEALS",

    "recipeCreationDt": "2021-05-05T18:30:00.000+00:00",

    "recipeModificationDt": "2021-05-05T18:30:00.000+00:00",

    "noOfPerson": 4,

    "active": **true**

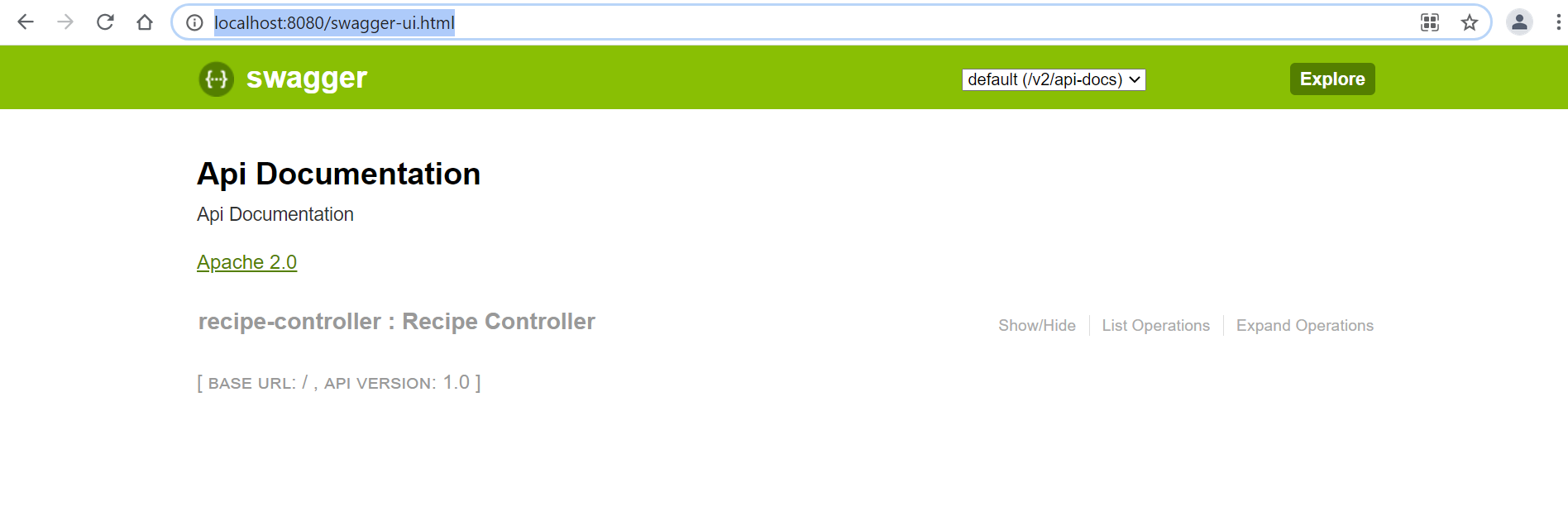
}

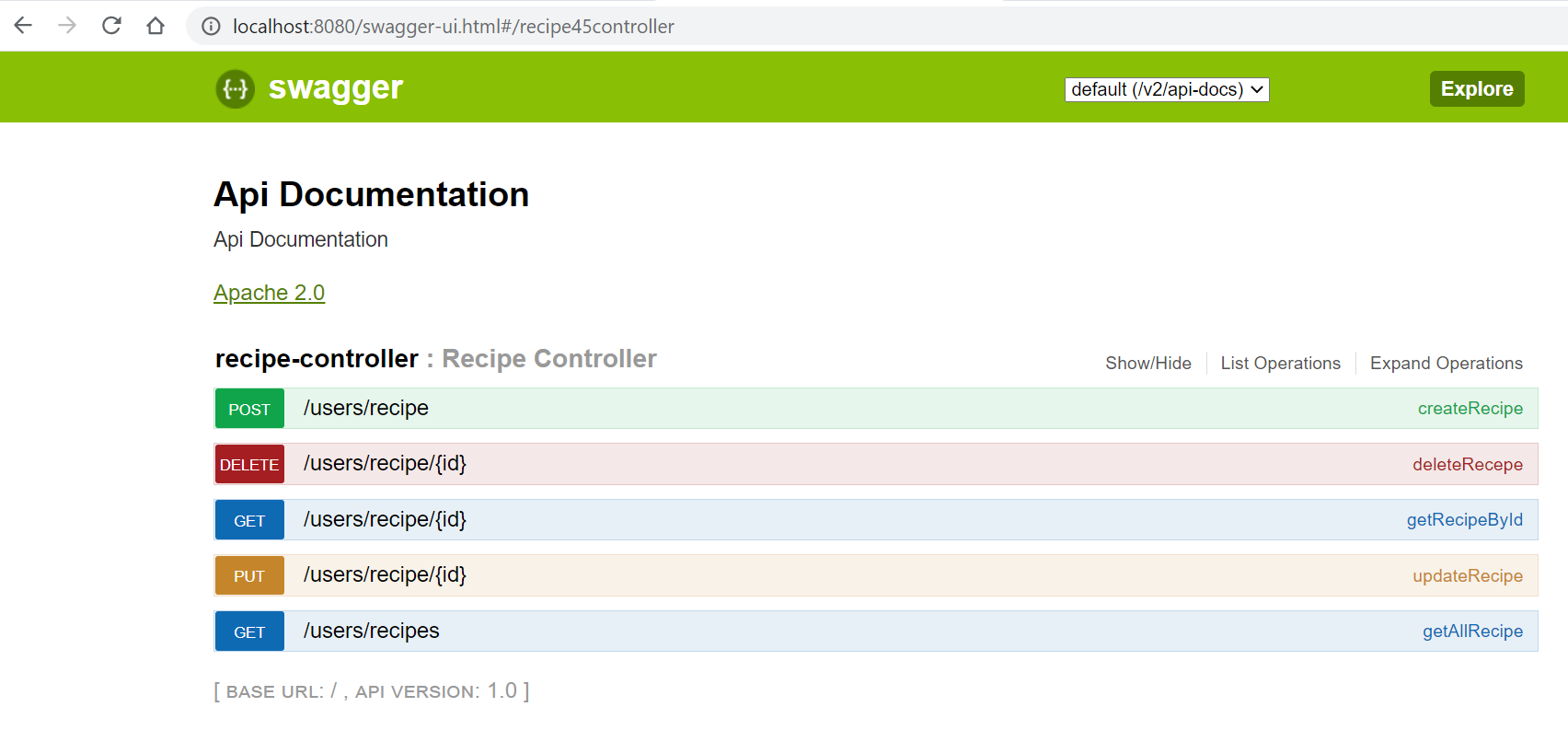
Note: Just for demo purpose it has been implemented, just to show the better clarity of update by deleting the old one. There is no such any special intention behind any logic.

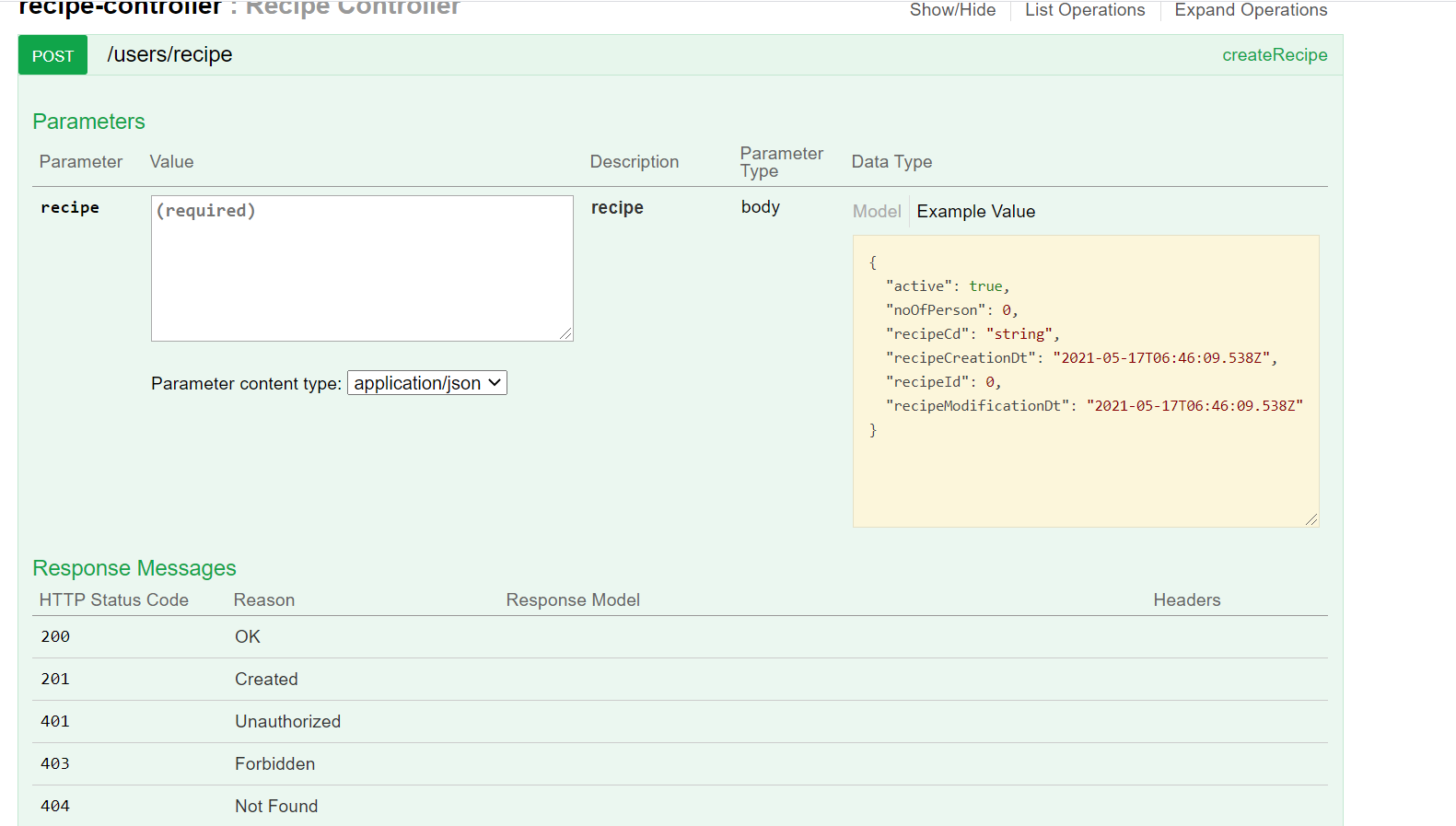
Only the advantage is to display delete operation under put operation.

1. Integration of Swagger UI:

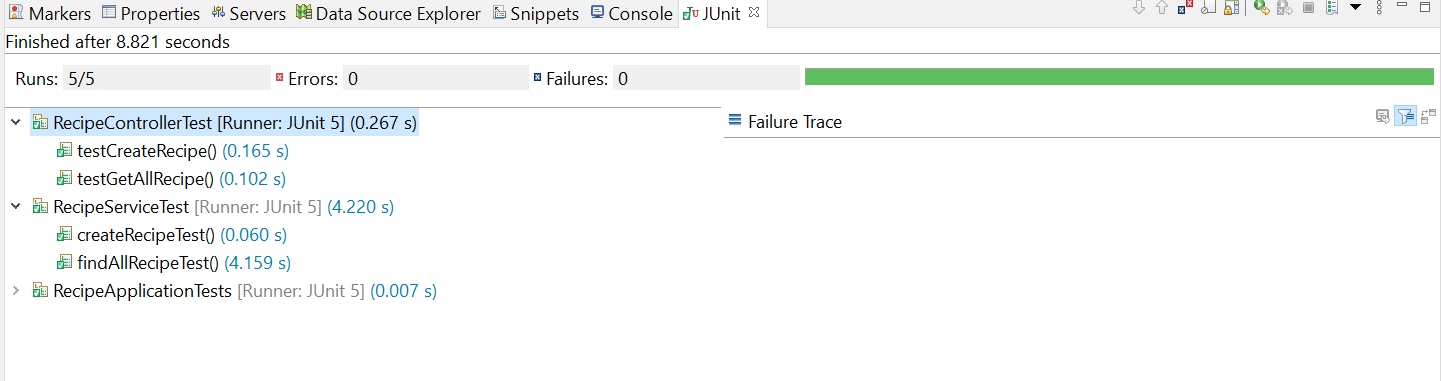
URL: <http://localhost:8080/swagger-ui.html>







1. Junit Test integeration



As per the testing framework integration, Junit Test sample cases has been added for demo purpose. For below given layers

Controller

Service

It can be added for other layers as well.

1. All the source code available at <https://github.com/port2pk/RecipeRESTAPI>.
2. Database : Just a sample data set has been provided.

MySql:

spring.datasource.driver=com.mysql.cj.jdbc.Driver

spring.datasource.url=jdbc:mysql://localhost:3306/recipeDb

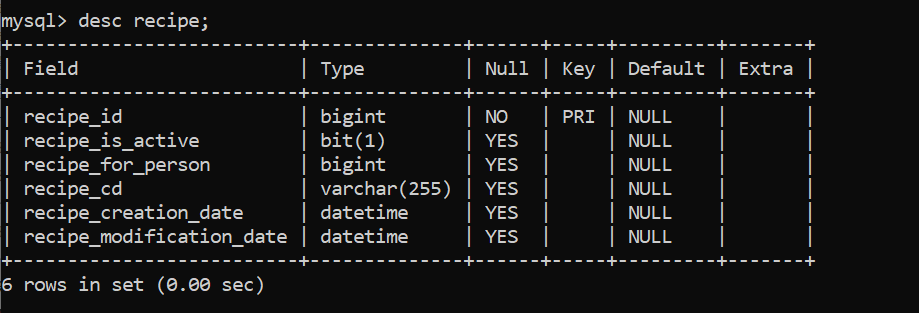
spring.datasource.username=root

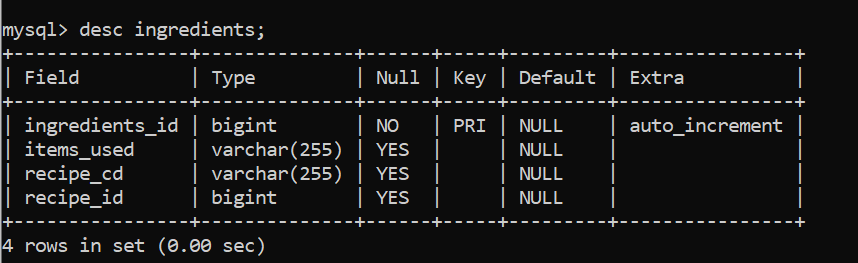
[spring.datasource.password=miku@2210](mailto:spring.datasource.password=miku@2210)

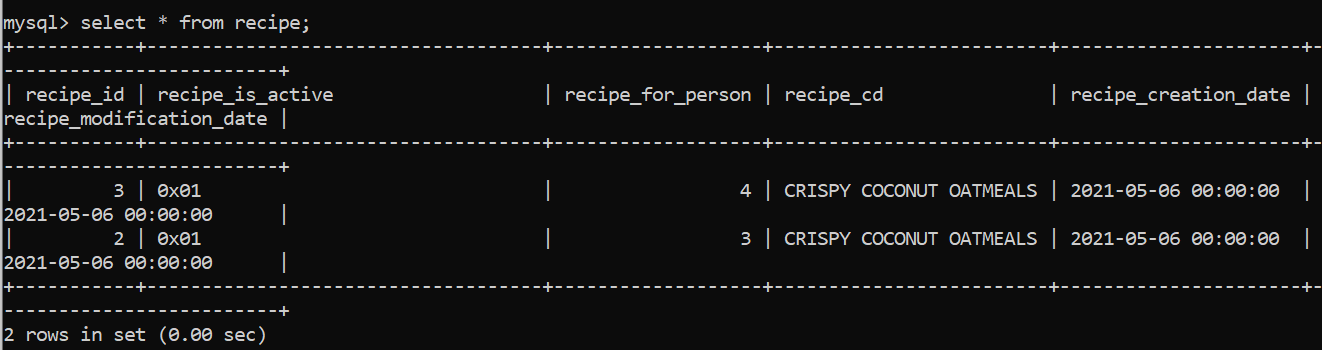
spring.jpa.hibernate.ddl-auto=update

spring.jpa.show-sql=true

spring.jpa.database-platform = org.hibernate.dialect.MySQL5Dialect







1. Logging: it is one of the most widely used feature being used in application for debugging purpose.

Currently in this application a general logger using as a sample.

Future Scope (TO-DO LIST)

Currently this project has been developed for small level demos of rest service API, with limited facility But there are still more chances to increase the

This project can be improved by adding some more features:

1. Spring Security integration for rest service. Currently it is not available due to time unavailability.

JWT (JSON Web Token) security (Working on),

OAuth2 Security.

1. Few more types of junit test case can be added like DAO layer, integration testing etc.
2. UI support can be added by using Angular as a front end.
3. At database end, ORM feature can be added in more effective ways by adding more complex scenarios.
4. Logging & Debugging.
5. Centralized Exception Handling.
6. Data validation.