Recipe Management API

Overview

A RESTful API built with Spring Boot and MongoDB that allows users to manage a collection of cooking recipes. The application supports full CRUD operations and exposes interactive documentation via Swagger.

Features

- Create, read, update, and delete recipes
- Store and retrieve data from MongoDB
- API input validation
- Integrated Swagger UI for API testing

Technologies Used

- Java 21
- Spring Boot 3.4.5
- Spring Data MongoDB
- Maven
- MongoDB
- Swagger (Springdoc OpenAPI)
- Postman (for manual testing)

Getting Started

Prerequisites

- Java 21 installed
- MongoDB running locally (default port 27017)

Recipe Management API

- Maven (optional, project uses Maven wrapper)

Running the Project

```bash

cd recipeapi

./mvnw spring-boot:run

OR on Windows:

mvnw.cmd spring-boot:run

```

Swagger UI

Once the application is running, visit:

http://localhost:8080/swagger-ui/index.html

This UI lets you test all the API endpoints interactively.

API Endpoints

Method	Endpoint	Description
GET	/recipes	Retrieve all recipes
GET	/recipes/{id}	Get recipe by ID
POST	/recipes	Create a new recipe
PUT	/recipes/{id}	Update an existing recipe

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| DELETE | /recipes/{id} | Delete a recipe by ID |

Example Recipe Object

```
{
  "title": "Spaghetti Carbonara",
  "description": "A creamy pasta dish...",
  "ingredients": ["spaghetti", "eggs", "cheese", "pancetta"],
  "instructions": ["Boil pasta", "Cook pancetta", "..."],
  "cookingTime": 20,
  "category": "Pasta"
}
```

Author

Ahmad Kazzaz - Spring Boot & MongoDB Practice Project