

Multi-Agent Recipe Generation API

1.0.0

OAS 3.1

/openapi.json

AI-powered recipe generation with nutrition analysis and shopping lists

Root

[GET / Root](#)

Health

[GET /health Health Check](#)

Recipe

[POST /api/v1/recipe/generate Generate a complete recipe](#)

Generate a complete recipe with nutrition info and shopping list

- available_ingredients: Comma-separated ingredients you have
- dietary_restrictions: List of dietary restrictions
- cuisine: Type of cuisine
- difficulty: Recipe difficulty level
- servings: Number of servings
- cooking_time_minutes: Target cooking time

Parameters

[Cancel](#)[Reset](#)

No parameters

Request body required

application/json

Edit Value | Schema

```
{  
    "available_ingredients": "rice, tomatoes, onions, garlic, butter",  
    "dietary_restrictions": [  
        "Vegetarian",  
        "Vegan",  
        "Gluten-free",  
        "Dairy-free",  
        "Nut-free",  
        "Diabetic",  
        "Halal",  
        "Kosher",  
        "Low-calorie",  
        "Low-fat"  
    ],  
    "cuisine": "South Indian",  
    "difficulty": "Medium",  
    "servings": 2,  
    "cooking_time_minutes": 50  
}
```

[Execute](#)[Clear](#)

Responses

Curl

```
curl -X 'POST' \  
  'http://localhost:8000/api/v1/recipe/generate' \  
  -H 'accept: application/json' \  
  -H 'Content-Type: application/json' \  
  -d '{  
    "available_ingredients": "rice, tomatoes, onions, garlic, butter",  
    "dietary_restrictions": [  
        "Vegetarian",  
        "Vegan",  
        "Gluten-free",  
        "Dairy-free",  
        "Nut-free",  
        "Diabetic",  
        "Halal",  
        "Kosher",  
        "Low-calorie",  
        "Low-fat"  
    ],  
    "cuisine": "South Indian",  
    "difficulty": "Medium",  
    "servings": 2,  
    "cooking_time_minutes": 50  
}'
```

Request URL

http://localhost:8000/api/v1/recipe/generate

Server response

Code Details

200

Response body

```
[  
    "shoppingByCategory": {  
        "Oils & Condiments": [  
            "Sunflower Oil"  
        ],  
        "Other": [  
            "Mustard Seeds",  
            "Red Chili Powder",  
            "Water",  
            "Fresh Cilantro"  
        ],  
        "Spices": [  
            "Cumin Seeds",  
            "Turmeric Powder",  
            "Salt"  
        ],  
        "Keywords": [  
            "South Indian",  
            "Medium"  
        ],  
        "datePublished": "2025-11-18",  
        "image": "https://via.placeholder.com/800x600"  
    },  
    "generation_time": "2025-11-18T13:15:28.702931",  
    "status": "success"  
}
```

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Response headers

```
access-control-allow-credentials: true  
access-control-allow-origin: *  
content-length: 1744  
content-type: application/json  
date: Tue, 18 Nov 2025 07:45:04 GMT  
server: unicorn
```

Responses

Code Description

200

Successful Response

Links

Media type

application/json

Controls Accept header.

Example Value | Schema

```
{  
    "recipe_id": "string",  
    "recipe": {  
        "additionalProp1": {}  
    },  
    "generation_time": "string",  
    "status": "string"  
}
```

422

Validation Error

No links

Media type

application/json

Example Value | Schema

```
{  
    "detail": [  
        {  
            "loc": [  
                "string",  
                @  
            ],  
            "msg": "string",  
            "type": "string"  
        }  
    ]  
}
```

Nutrition

[POST /api/v1/nutrition Get nutrition information](#)

Shopping

[POST /api/v1/shopping-list Generate shopping list](#)

Reference

[GET /api/v1/cuisines Get Cuisines](#)[GET /api/v1/dietary-restrictions Get Dietary Restrictions](#)[GET /api/v1/difficulty-levels Get Difficulty Levels](#)

Schemas

CuisineType > Expand all string

DietaryRestriction > Expand all string

DifficultyLevel > Expand all string

HTTPValidationError > Expand all object

NutritionRequest > Expand all object

RecipeRequest > Expand all object

RecipeResponse > Expand all object

ShoppingListRequest > Expand all object

ValidationError > Expand all object