

# 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

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"}
```

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: uvicorn
```

Responses

Code	Description	Links
200	Successful Response <div><div>Media type</div><div>application/json</div><div>Controls Accept header.</div><div><div>Example Value</div><div>Schema</div></div><div><pre>{  "recipe_id": "string",  "recipe": {    "additionalProp1": {}  },  "generation_time": "string",  "status": "string"}</pre></div></div>	No links
422	Validation Error <div><div>Media type</div><div>application/json</div><div><div>Example Value</div><div>Schema</div></div><div><pre>{  "detail": [    {      "loc": [        "string",        0      ],      "msg": "string",      "type": "string"    }  ]}</pre></div></div>	No links

## 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