API Documentation for Category, SubCategory, Recipe, and Ingredient

# 1. Category API

## POST /categories/ (Create a new Category)

Request Body:

{  
 "category\_code": "C001",  
 "category\_name": "Beverages"  
}

Response Body:

{  
 "id": 1,  
 "category\_code": "C001",  
 "category\_name": "Beverages"  
}

## GET /categories/ (List all Categories)

Response Body:

[   
 {  
 "id": 1,  
 "category\_code": "C001",  
 "category\_name": "Beverages"  
 },  
 {  
 "id": 2,  
 "category\_code": "C002",  
 "category\_name": "Snacks"  
 }  
]

## GET /categories/{id}/ (Get a specific Category)

Response Body:

{  
 "id": 1,  
 "category\_code": "C001",  
 "category\_name": "Beverages"  
}

## PUT /categories/{id}/ (Update a Category)

Request Body:

{  
 "category\_code": "C001",  
 "category\_name": "Hot Beverages"  
}

Response Body:

{  
 "id": 1,  
 "category\_code": "C001",  
 "category\_name": "Hot Beverages"  
}

## DELETE /categories/{id}/ (Delete a Category)

Response Body:

{  
 "message": "Category deleted successfully"  
}

# 2. SubCategory API

## POST /subcategories/ (Create a new SubCategory)

Request Body:

{  
 "category\_reference": "C001",  
 "subcategory\_code": "S001",  
 "subcategory\_name": "Tea"  
}

Response Body:

{  
 "id": 1,  
 "category\_reference": "C001",  
 "subcategory\_code": "S001",  
 "subcategory\_name": "Tea"  
}

## GET /subcategories/ (List all SubCategories)

Response Body:

[  
 {  
 "id": 1,  
 "category\_reference": "C001",  
 "subcategory\_code": "S001",  
 "subcategory\_name": "Tea"  
 },  
 {  
 "id": 2,  
 "category\_reference": "C001",  
 "subcategory\_code": "S002",  
 "subcategory\_name": "Coffee"  
 }  
]

## GET /subcategories/{id}/ (Get a specific SubCategory)

Response Body:

{  
 "id": 1,  
 "category\_reference": "C001",  
 "subcategory\_code": "S001",  
 "subcategory\_name": "Tea"  
}

## PUT /subcategories/{id}/ (Update a SubCategory)

Request Body:

{  
 "category\_reference": "C001",  
 "subcategory\_code": "S001",  
 "subcategory\_name": "Herbal Tea"  
}

Response Body:

{  
 "id": 1,  
 "category\_reference": "C001",  
 "subcategory\_code": "S001",  
 "subcategory\_name": "Herbal Tea"  
}

## DELETE /subcategories/{id}/ (Delete a SubCategory)

Response Body:

{  
 "message": "SubCategory deleted successfully"  
}

# 3. Recipe API

## POST /receipes/ (Create a new Recipe)

Request Body:

{  
 "category\_reference": "C001",  
 "subcategory\_reference": "S001",  
 "receipe\_code": "R001",  
 "receipe\_name": "Green Tea",  
 "ingredients": [  
 {  
 "ingredient\_code": "I001",  
 "quantity": 2,  
 "wastage": 0.1  
 }  
 ]  
}

Response Body:

{  
 "id": 1,  
 "category\_reference": "C001",  
 "subcategory\_reference": "S001",  
 "receipe\_code": "R001",  
 "receipe\_name": "Green Tea",  
 "ingredients": [  
 {  
 "ingredient\_code": "I001",  
 "quantity": 2,  
 "wastage": 0.1  
 }  
 ]  
}

## GET /receipes/ (List all Recipes)

Response Body:

[  
 {  
 "id": 1,  
 "category\_reference": "C001",  
 "subcategory\_reference": "S001",  
 "receipe\_code": "R001",  
 "receipe\_name": "Green Tea",  
 "ingredients": [  
 {  
 "ingredient\_code": "I001",  
 "quantity": 2,  
 "wastage": 0.1  
 }  
 ]  
 }  
]

## GET /receipes/{id}/ (Get a specific Recipe)

Response Body:

{  
 "id": 1,  
 "category\_reference": "C001",  
 "subcategory\_reference": "S001",  
 "receipe\_code": "R001",  
 "receipe\_name": "Green Tea",  
 "ingredients": [  
 {  
 "ingredient\_code": "I001",  
 "quantity": 2,  
 "wastage": 0.1  
 }  
 ]  
}

## PUT /receipes/{id}/ (Update a Recipe)

Request Body:

{  
 "category\_reference": "C001",  
 "subcategory\_reference": "S001",  
 "receipe\_code": "R001",  
 "receipe\_name": "Herbal Green Tea",  
 "ingredients": [  
 {  
 "ingredient\_code": "I002",  
 "quantity": 3,  
 "wastage": 0.2  
 }  
 ]  
}

Response Body:

{  
 "id": 1,  
 "category\_reference": "C001",  
 "subcategory\_reference": "S001",  
 "receipe\_code": "R001",  
 "receipe\_name": "Herbal Green Tea",  
 "ingredients": [  
 {  
 "ingredient\_code": "I002",  
 "quantity": 3,  
 "wastage": 0.2  
 }  
 ]  
}

## DELETE /receipes/{id}/ (Delete a Recipe)

Response Body:

{  
 "message": "Recipe deleted successfully"  
}

# 4. Ingredient API

## POST /ingredients/ (Create a new Ingredient)

Request Body:

{  
 "ingredient\_code": "I001",  
 "ingredient\_name": "Tea Leaves"  
}

Response Body:

{  
 "id": 1,  
 "ingredient\_code": "I001",  
 "ingredient\_name": "Tea Leaves"  
}

## GET /ingredients/ (List all Ingredients)

Response Body:

[  
 {  
 "id": 1,  
 "ingredient\_code": "I001",  
 "ingredient\_name": "Tea Leaves"  
 },  
 {  
 "id": 2,  
 "ingredient\_code": "I002",  
 "ingredient\_name": "Lemon"  
 }  
]

## GET /ingredients/{id}/ (Get a specific Ingredient)

Response Body:

{  
 "id": 1,  
 "ingredient\_code": "I001",  
 "ingredient\_name": "Tea Leaves"  
}

## PUT /ingredients/{id}/ (Update an Ingredient)

Request Body:

{  
 "ingredient\_code": "I001",  
 "ingredient\_name": "Premium Tea Leaves"  
}

Response Body:

{  
 "id": 1,  
 "ingredient\_code": "I001",  
 "ingredient\_name": "Premium Tea Leaves"  
}

## DELETE /ingredients/{id}/ (Delete an Ingredient)

Response Body:

{  
 "message": "Ingredient deleted successfully"  
}