

## MILESTONE 2 – API STRUCTURE

### DATABASE

#### Collection: Recipe

- Id (string)
- Name (string)
- Difficulty (string)
- Time (string)
- Type of food (string)
- Ingredients (array of strings)
- Preparation (string)

#### Example object:

```
{
  "id": "abc123",
  "name": "Chicken Curry",
  "difficulty": "medium",
  "time": "20-30",
  "type": "lunch",
  "ingredients": ["chicken", "rice", "onion", "garlic", "spices"],
  "preparation": "Cook the chicken with spices and serve with rice."
}
```

#### Collection: Users

- Id (string)
- Username (string)
- Password (string)
- Email (string)

#### Example object:

```
{
  "id": "user001",
  "username": "marinalopez",
  "password": "123456",
  "email": "marinaalopez@example.com",
}
```

## API

### GET /recipes

**Description:** Returns a list of all recipes or filters them by ingredients, time, or type of food.

**Parameters:**

- ingredient (optional, e.g. ?ingredient=chicken)
- time (optional, e.g. ?time=10-20)
- type (optional, e.g. ?type=dinner)

**Example:** GET /recipes?ingredient=chicken

**Possible reponses:**

Success:

```
{
  "id": "abc123",
  "name": "Chicken Curry",
  "time": "20-30",
  "type": "dinner"
},
{
  "id": "def456",
  "name": "Baked Chicken with Vegetables",
  "time": "+30",
  "type": "dinner"
}
```

Error:

```
{ "error": "Could not retrieve recipes." }
```

### GET /recipes/{id}

**Description:** Returns the full details of a single recipe.

**Possible reponses:**

Success:

```
{
  "id": "abc123",
  "name": "Chicken Curry",
  "difficulty": "medium",
  "time": "20-30",
  "type": "lunch",
  "ingredients": ["chicken", "rice", "onion", "garlic", "spices"],
  "preparation": "Cook the chicken with spices and serve with rice."
}
```

Error:

```
{ "error": "Recipe not found" }
```

**POST /recipes**

**Description:** Creates a new recipe

**Body:**

```
{
  "name": "Pasta",
  "difficulty": "easy",
  "time": "10-15",
  "type": "dinner",
  "ingredients": ["pasta", "tomato", "salt"],
  "preparation": "Boil pasta and add tomato sauce."
}
```

**Possible reponses:**

Success:

```
{
  "message": "Recipe created successfully",
  "createdRecipeld": "new123"
}
```

Error:

```
{ "error": " Missing required fields" }
```

**DELETE /recipes/{id}**

**Description:** Deletes a recipe by ID.

**Possible reponses:**

Success:

```
{
  "message": "Recipe deleted successfully",
  "deletedRecipeld": "abc123"
}
```

Error:

```
{ "error": " Recipe not found" }
```

**POST /users**

**Description:** Creates a new user account.

**Body:**

```
{
  "username": "marinalopez",
  "email": "marina@example.com",
  "password": "123456"
}
```

**Possible reponses:**

Success:

```
{  
  "message": "User created successfully",  
  "userId": "user001"  
}
```

Error:

```
{ "error": " Email or username already exists" }
```

**POST /login**

**Description:** Logs in a user and returns an authentication token.

**Body:**

```
{  
  "email": "marina@example.com",  
  "password": "123456"  
}
```

**Possible reponses:**

Success:

```
{  
  "message": "Login successful"  
}
```

Error:

```
{ "error": " Invalid email or password" }
```