

MY FINANCE API Documentation

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A comprehensive guide to managing personal finances through the MY
FINANCE API.

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1 Introduction

The MY FINANCE API is a robust solution designed for personal financial management, enabling users to track transactions (revenues and expenses) and organize them into categories. This document provides detailed information on the API's endpoints, request/response formats, and error handling to facilitate integration and usage.

2 API Structure

The MY FINANCE API is built on a handler-based architecture, where HTTP requests (GET, POST, PUT, DELETE) are processed by specific handlers based on the URL path. Each handler invokes a corresponding command to interact with the database, ensuring modular and efficient processing of requests.

3 Category Endpoints

This section describes the endpoints for managing categories, which allow users to create, retrieve, update, and delete categories for organizing transactions.

3.1 POST /category

Creates a new category.

- **Method:** POST
- **Content-Type:** application/json
- **Request Body:**

```
1 {  
2   "title": "General Expenses"  
3 }
```

- **Responses:**

– **201 CREATED:** Category created successfully.

```
1 {  
2   "status": 201,  
3   "message": "Category registered successfully.",  
4   "data": {  
5     "id": 1,  
6     "title": "General Expenses"  
7   },  
8   "errors": []  
9 }
```

– **400 BAD REQUEST:** Validation failure (title is required).

```
1 {  
2   "status": 400,  
3   "message": "Request validation failed.",  
4   "errors": [  
5     {  
6       "field": "title",  
7       "message": "Title cannot be empty."  
8     }  
9   ]  
}
```

```
9   ]
10 }
```

– **500 INTERNAL SERVER ERROR:** Server error.

```
1 {
2   "status": 500,
3   "message": "An error occurred while processing your request."
4 }
```

3.2 GET /category

Lists all categories with filtering and pagination support.

- **Method:** GET
- **Query Parameters:**
 - title (string, optional): Filter by category title.
 - page (integer, optional, default: 1): Page number.
 - pageSize (integer, optional, default: 10): Items per page.
 - unpaginated (boolean, optional, default: false): Returns all items.
- **Responses:**
 - **200 OK:** Returns a paginated list of categories.

```
1 {
2   "status": 200,
3   "data": [
4     {
5       "id": 1,
6       "title": "General Expenses"
7     },
8     {
9       "id": 2,
10      "title": "Utilities"
11    }
12  ],
13  "page": 1,
14  "pageSize": 2,
15  "totalItems": 10,
16  "totalPages": 5
17 }
```

– **500 INTERNAL SERVER ERROR:** Server error.

```
1 {
2   "status": 500,
3   "message": "An error occurred while processing your request."
4 }
```

3.3 GET /category/{id}

Retrieves a specific category by its ID.

- **Method:** GET

- **URL Parameters:**
 - id (integer, required): The category ID.
- **Responses:**
 - **200 OK:** Returns category details.

```
1 {  
2   "status": 200,  
3   "data": {  
4     "id": 1,  
5     "title": "General Expenses"  
6   }  
7 }
```

- **404 NOT FOUND:** Category not found.

```
1 {  
2   "status": 404,  
3   "message": "Category with ID 1 not found."  
4 }
```

- **500 INTERNAL SERVER ERROR:** Server error.

```
1 {  
2   "status": 500,  
3   "message": "An error occurred while processing your request."  
4 }
```

3.4 PUT /category/{id}

Updates an existing category.

- **Method:** PUT
- **URL Parameters:**
 - id (integer, required): The category ID.
- **Content-Type:** application/json
- **Request Body:**

```
1 {  
2   "title": "Household Expenses"  
3 }
```

- **Responses:**
 - **200 OK:** Category updated successfully.

```
1 {  
2   "status": 200,  
3   "message": "Category updated successfully.",  
4   "data": {  
5     "id": 1,  
6     "title": "Household Expenses"  
7   }  
8 }
```

- **400 BAD REQUEST:** Validation failure.

```
1 {  
2   "status": 400,  
3   "message": "Request validation failed.",  
4   "errors": [  
5     {  
6       "field": "title",  
7       "message": "Title cannot be empty."  
8     }  
9   ]  
10 }
```

- **404 NOT FOUND:** Category not found.

```
1 {  
2   "status": 404,  
3   "message": "Could not update category. Please check if it  
4     still exists."  
5 }
```

- **500 INTERNAL SERVER ERROR:** Server error.

```
1 {  
2   "status": 500,  
3   "message": "An error occurred while processing your request."  
4 }
```

3.5 DELETE /category/{id}

Deletes a category by its ID.

- **Method:** DELETE
- **URL Parameters:**
 - id (integer, required): The category ID.
- **Responses:**
 - **204 NO CONTENT:** Category deleted successfully.
 - **404 NOT FOUND:** Category not found.

```
1 {  
2   "status": 404,  
3   "message": "Category with ID 1 not found."  
4 }
```

- **500 INTERNAL SERVER ERROR:** Server error.

```
1 {  
2   "status": 500,  
3   "message": "An error occurred while processing your request."  
4 }
```

4 Transaction Endpoints

This section covers endpoints for managing financial transactions, including creating, retrieving, updating, and deleting transactions.

4.1 POST /transaction

Creates a new transaction.

- **Method:** POST
- **Content-Type:** application/json
- **Request Body:**

```
1 {  
2   "description": "Monthly Income",  
3   "value": 3000.00,  
4   "date": "2025-07-14",  
5   "type": "REVENUE",  
6   "category": {  
7     "id": 1  
8   }  
9 }
```

- **Responses:**

- **201 CREATED:** Transaction created successfully.

```
1 {  
2   "status": 201,  
3   "message": "Transaction registered successfully.",  
4   "data": {  
5     "id": 1,  
6     "description": "Monthly Income",  
7     "value": 3000.00,  
8     "type": "REVENUE",  
9     "dueDate": "2025-07-14",  
10    "category": {  
11      "id": 1  
12    }  
13  },  
14  "errors": []  
15 }
```

- **400 BAD REQUEST:** Validation failure.

```
1 {  
2   "status": 400,  
3   "message": "Request validation failed.",  
4   "errors": [  
5     {  
6       "field": "value",  
7       "message": "Value cannot be empty."  
8     },  
9     {  
10      "field": "type",  
11      "message": "Type cannot be empty."  
12    }  
13  ]  
14 }
```

- **500 INTERNAL SERVER ERROR:** Server error.

```
1 {
2   "status": 500,
3   "message": "An error occurred while processing your request."
4 }
```

4.2 GET /transaction

Lists all transactions with filtering and pagination support.

- **Method:** GET
- **Query Parameters:**
 - description (string, optional): Filter by description.
 - value (float, optional): Filter by value.
 - month (integer, optional): Filter by month.
 - year (integer, optional): Filter by year.
 - category (integer, optional): Filter by category ID.
 - type (string, optional): Filter by type (REVENUE or EXPENSE).
 - page (integer, optional, default: 1): Page number.
 - pageSize (integer, optional, default: 10): Items per page.
 - unpaginated (boolean, optional, default: false): Returns all items.
- **Responses:**
 - **200 OK:** Returns a paginated list of transactions.

```
1 {
2   "status": 200,
3   "data": [
4     {
5       "id": 1,
6       "description": "Monthly Income",
7       "value": 3000.00,
8       "type": "REVENUE",
9       "dueDate": "2025-07-14",
10      "category": {
11        "id": 1,
12        "title": "General Expenses"
13      }
14    },
15    {
16      "id": 2,
17      "description": "Utility Bill",
18      "value": 150.00,
19      "type": "EXPENSE",
20      "dueDate": "2025-07-10",
21      "category": {
22        "id": 2,
23        "title": "Utilities"
24      }
25    }
26  ],
```



```
27     "page": 1,  
28     "pageSize": 2,  
29     "totalItems": 20,  
30     "totalPages": 10  
31 }
```

– **500 INTERNAL SERVER ERROR:** Server error.

```
1 {  
2     "status": 500,  
3     "message": "An error occurred while processing your request."  
4 }
```

4.3 GET /transaction/{id}

Retrieves a specific transaction by its ID.

- **Method:** GET
- **URL Parameters:**
 - id (integer, required): The transaction ID.
- **Responses:**
 - **200 OK:** Returns transaction details.

```
1 {  
2     "status": 200,  
3     "data": {  
4         "id": 1,  
5         "description": "Monthly Income",  
6         "value": 3000.00,  
7         "type": "REVENUE",  
8         "dueDate": "2025-07-14"  
9     }  
10 }
```

– **404 NOT FOUND:** Transaction not found.

```
1 {  
2     "status": 404,  
3     "message": "Transaction with ID 1 not found."  
4 }
```

– **500 INTERNAL SERVER ERROR:** Server error.

```
1 {  
2     "status": 500,  
3     "message": "An error occurred while processing your request."  
4 }
```

4.4 PUT /transaction/{id}

Updates an existing transaction.

- **Method:** PUT
- **URL Parameters:**

- id (integer, required): The transaction ID.
- **Content-Type:** application/json
- **Request Body:** Same structure as POST /transaction.
- **Responses:**
 - **200 OK:** Transaction updated successfully.

```
1 {  
2   "status": 200,  
3   "message": "Transaction updated successfully.",  
4   "data": {  
5     "id": 1,  
6     "description": "Monthly Income",  
7     "value": 3200.00,  
8     "type": "REVENUE",  
9     "dueDate": "2025-07-14",  
10    "category": {  
11      "id": 1  
12    }  
13  },  
14  "errors": []  
15 }
```

- **404 NOT FOUND:** Transaction not found.

```
1 {  
2   "status": 404,  
3   "message": "Could not update transaction. Please check if it  
4     still exists."  
5 }
```

- **500 INTERNAL SERVER ERROR:** Server error.

```
1 {  
2   "status": 500,  
3   "message": "An error occurred while processing your request."  
4 }
```

4.5 DELETE /transaction/{id}

Deletes a transaction by its ID.

- **Method:** DELETE
- **URL Parameters:**
 - id (integer, required): The transaction ID.
- **Responses:**
 - **204 NO CONTENT:** Transaction deleted successfully.
 - **404 NOT FOUND:** Transaction not found.

```
1 {  
2   "status": 404,  
3   "message": "Transaction with ID 1 not found."  
4 }
```

- **500 INTERNAL SERVER ERROR:** Server error.

```
1 {  
2   "status": 500,  
3   "message": "An error occurred while processing your request."  
4 }
```

5 Report Endpoints

This section describes endpoints for generating consolidated financial reports, such as balance and summaries of revenues and expenses.

5.1 GET /transaction/balance

Calculates the total balance (revenues minus expenses).

- **Method:** GET

- **Responses:**

- **200 OK:** Returns the balance value.

```
1 {  
2   "status": 200,  
3   "message": "Balance retrieved successfully.",  
4   "data": 2500.00  
5 }
```

- **500 INTERNAL SERVER ERROR:** Server error.

```
1 {  
2   "status": 500,  
3   "message": "An error occurred while processing your request."  
4 }
```

5.2 GET /transaction/expenses-sum and GET /transaction/expenses-sum/{categoryId}

Calculates the total expenses (or for a specific category).

- **Method:** GET

- **Responses:**

- **200 OK:** Returns the total expenses.

```
1 {  
2   "status": 200,  
3   "message": "Expenses calculated successfully.",  
4   "data": 1200.00  
5 }
```

- **500 INTERNAL SERVER ERROR:** Server error.

```
1 {  
2   "status": 500,  
3   "message": "An error occurred while processing your request."  
4 }
```

5.3 GET /transaction/revenues-sum and GET /transaction/revenues-sum/{categoryId}

Calculates the total revenues (or for a specific category).

- **Method:** GET

- **Responses:**

- **200 OK:** Returns the total revenues.

```
1 {  
2   "status": 200,  
3   "message": "Revenues calculated successfully.",  
4   "data": 3700.00  
5 }
```

- **500 INTERNAL SERVER ERROR:** Server error.

```
1 {  
2   "status": 500,  
3   "message": "An error occurred while processing your request."  
4 }
```