

# **API DOCUMENTATION**

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## **Transaction Management API**

Base URL => `http://localhost:3000`

### **Authentication**

All endpoints except for **POST /auth/signup** and **POST /auth/login** require authentication using a JWT token. To authenticate, include the JWT token in the Authorization header of your requests.

Example:

`Authorization: <JWT_TOKEN>`

### **Endpoints**

#### **POST /auth/signup**

Creates a new user account.

#### **Request**

Method: POST

Body: { "username": "example\_user", "password": "example\_password" }

#### **Response**

Status Code: 200 (OK)

Body: { "token": "<JWT\_TOKEN>" }

#### **POST /auth/login**

Logs in an existing user.

#### **Request**

Method: POST

Body: { "username": "example\_user", "password": "example\_password" }

#### **Response**

Status Code: 200 (OK)

Body: { "token": "<JWT\_TOKEN>" }

## **POST /transactions**

Adds a new transaction.

### **Request**

Method: POST

Authorization: <JWT\_TOKEN>

Body:{ "type": "expense", "amount": 50.00, "description": "Groceries" }

### **Response**

Status Code: 200 (OK)

```
Body:{
  "id": 1,
  "userId": 1,
  "type": "expense",
  "amount": 50.00,
  "description": "Groceries",
  "date": "2024-03-08T12:00:00.000Z",
  "createdAt": "2024-03-08T12:00:00.000Z",
  "updatedAt": "2024-03-08T12:00:00.000Z"
}
```

## **GET /transactions**

Retrieves all transactions within a specified date range.

### **Request**

Method: GET

Authorization: <JWT\_TOKEN>

Query Parameters:

startDate: Start date of the range (format: YYYY-MM-DD)

endDate: End date of the range (format: YYYY-MM-DD)

### **Response**

Status Code: 200 (OK)

```
Body:[
  {
    "id": 1,
    "userId": 1,
    "type": "expense",
    "amount": 50.00,
```

```
    "description": "Groceries",
    "date": "2024-03-08T12:00:00.000Z",
    "createdAt": "2024-03-08T12:00:00.000Z",
    "updatedAt": "2024-03-08T12:00:00.000Z"
  },
  ...
]
```

### **GET /transactions/summary**

Retrieves a summary of transactions within a specified date range.

#### **Request**

Method: GET

Authorization: <JWT\_TOKEN>

Query Parameters:

startDate: Start date of the range (format: YYYY-MM-DD)

endDate: End date of the range (format: YYYY-MM-DD)

#### **Response**

Status Code: 200 (OK)

Body:{

"totalIncome": 1000.00,

"totalExpenses": 500.00,

"savings": 500.00

}

### **DELETE /transactions/:id**

Deletes a transaction with the specified ID.

#### **Request**

Method: DELETE

Authorization: <JWT\_TOKEN>

#### **Response**

Status Code: 200 (OK)

Body:{

"message": "Transaction deleted successfully"

}