Expense Tracker API - CURL Documentation

# 🔐 Authentication

## 1. Register

Endpoint: POST /api/auth/register

Curl:

curl --location 'http://localhost:8080/api/auth/register' --header 'Content-Type: application/json' --data '{  
 "name": "John Doe",  
 "email": "john@example.com",  
 "password": "test123",  
 "active": true  
}'

Response:

{  
 "token": "<jwt-token>"  
}

## 2. Login

Endpoint: POST /api/auth/login

Curl:

curl --location 'http://localhost:8080/api/auth/login' --header 'Content-Type: application/json' --data '{  
 "email": "john@example.com",  
 "password": "test123"  
}'

Response:

{  
 "token": "<jwt-token>"  
}

# 💸 Expense APIs

## 3. Create Expense

Endpoint: POST /api/expenses

Curl:

curl --location 'http://localhost:8080/api/expenses' --header 'Authorization: Bearer <your-jwt-token>' --header 'Content-Type: application/json' --data '{  
 "amount": 1200,  
 "category": "Travel",  
 "description": "Bus ticket to city center",  
 "date": "2025-04-10"  
}'

Response:

{  
 "id": 1,  
 "amount": 1200,  
 "category": "Travel",  
 "description": "Bus ticket to city center",  
 "date": "2025-04-10",  
 "user": {  
 "id": 1,  
 "email": "john@example.com"  
 }  
}

## 4. Get All Expenses

Endpoint: GET /api/expenses

Curl:

curl --location 'http://localhost:8080/api/expenses' --header 'Authorization: Bearer <your-jwt-token>'

## 5. Update Expense

Endpoint: PUT /api/expenses/{id}

Curl:

curl --location --request PUT 'http://localhost:8080/api/expenses/1' --header 'Authorization: Bearer <your-jwt-token>' --header 'Content-Type: application/json' --data '{  
 "amount": 1350,  
 "category": "Travel",  
 "description": "Updated bus ticket",  
 "date": "2025-04-11"  
}'

## 6. Delete Expense

Endpoint: DELETE /api/expenses/{id}

Curl:

curl --location --request DELETE 'http://localhost:8080/api/expenses/1' --header 'Authorization: Bearer <your-jwt-token>'

## 7. Get Expenses in Date Range

Endpoint: GET /api/expenses/range?start=YYYY-MM-DD&end=YYYY-MM-DD

Curl:

curl --location 'http://localhost:8080/api/expenses/range?start=2025-04-01&end=2025-04-30' --header 'Authorization: Bearer <your-jwt-token>'

# 📊 Reporting

## 8. Category Summary

Endpoint: GET /api/expenses/category-summary

Curl:

curl --location 'http://localhost:8080/api/expenses/category-summary' --header 'Authorization: Bearer <your-jwt-token>'

Response:

{  
 "Food": 1500.0,  
 "Travel": 800.0  
}

## 9. Monthly Report

Endpoint: GET /api/expenses/monthly-report?month=YYYY-MM

Curl:

curl --location 'http://localhost:8080/api/expenses/monthly-report?month=2025-04' --header 'Authorization: Bearer <your-jwt-token>'

Response:

{  
 "month": "2025-04",  
 "total": 2300.0,  
 "categoryBreakdown": {  
 "Food": 1000.0,  
 "Travel": 1300.0  
 }  
}