# **Currency Conversion API Documentation**

This API allows users to convert currencies, retrieve exchange rates, and filter conversion history.

http://localhost:8080

## **Endpoints**

### **Convert Currency**

Converts an amount from one currency to another.

* URL: /convert-currency
* Method: POST
* Request Body:

{

"sourceCurrency": "USD",

"targetCurrency": "EUR",

"amount": 100.0

}

* Response:

{

"convertedAmount": 88.0,

"transactionIdentifier": "db7022e3-09fb-4e5d-b0ec-5fa69b154854"

}

### **Exchange Rate**

Retrieves the current exchange rate between two currencies.

* URL: /exchange-rate?sourceCurrency=USD&targetCurrency=EUR
* Method: GET
* Response:

"exchangeRate": 0.88

### **Filtered Conversion History**

Retrieves a paginated list of currency conversion transactions based on transaction identifier or transaction date.

* URL: /filtered
* Method: GET
* Parameters:
  + transactionIdentifier: Transaction identifier (optional)
  + transactionDate: Transaction date (optional)
* Response:

[

{

"transactionIdentifier": "db7022e3-09fb-4e5d-b0ec-5fa69b154854",

"amount": 100.0,

"sourceCurrency": "USD",

"targetCurrency": "EUR",

"convertedAmount": 88.0,

"transactionDate": "2024-03-26T00:00:00"

},

{

"transactionIdentifier": "fb8c2b0a-3e09-487a-afeb-afdde980671d",

"amount": 50.0,

"sourceCurrency": "EUR",

"targetCurrency": "USD",

"convertedAmount": 55.0,

"transactionDate": "2024-03-25T00:00:00"