

Foreign Exchange Application API Documentation

1. Introduction

This API documentation provides details about the endpoints available in the Foreign Exchange Application.

Base URL: `http://localhost:8080`

Swagger: `http://localhost:8080/swagger-ui/index.html`

2. Endpoints

2.1. Show Exchange Rates

- URL: `/exchange`
- Method: `GET`
- Description: Displays available currencies and their exchange rates.
- Response: HTML page containing exchange rates.

2.2. Exchange Currency

- URL: `/exchange`
- Method: `POST`
- Description: Performs currency exchange based on provided transaction details.
- Request Body:
 - `CurrencyConversionDto` containing transaction details.
- Response:
 - Successful: Returns a string indicating the exchanged amount and currencies.
 - Error: Returns an error message in case of failure.

Foreign Exchange

Converter

Currency Conversion History

Exchange

From:

USD

 To:

BGN

Get Exchange Rate

1 USD is 1.81151 BGN.

2.3. Show Exchange Rate Converter

- URL: `/convert`
- Method: `GET`
- Description: Displays a converter for currency exchange rates.
- Response: HTML page containing currency conversion form.

2.4. Convert Currency

- URL: `/convert`
- Method: `POST`
- Description: Converts currency based on provided transaction details.
- Request Body:
 - `CurrencyConversionDto` containing transaction details.
- Response:
 - Successful: Returns a string indicating the converted amount and currencies.
 - Error: Returns an error message in case of failure.

Foreign Exchange

Exchange Rates

Currency Conversion History

Converter

From:

BGN

 To:

EUR

 Amount:

10.63

Convert

10.63 BGN is 5.401528 EUR.

2.5. Show Currency Conversion History

- URL: `/conversions`
- Method: `GET`
- Description: Displays the history of currency conversions.
- Response: HTML page containing currency conversion history.

2.6. Find Currency Conversion Transactions

- URL: `/conversions`
- Method: `POST`
- Description: Finds currency conversion transactions based on optional parameters.
- Request Parameters:
 - `date` (optional): Date of transaction (ISO format).
 - `transactionIdentifier` (optional): Identifier for the transaction.
- Response: HTML page containing matching currency conversion transactions.

Foreign Exchange

ConverterExchange Rates

Find Transactions by Date

Date: ☐ Transaction Identifier:

Currency Conversions

Transaction Identifier	Source Currency	Source Currency Amount	Target Currency	Target Currency Amount
a10a36d9-d3ee-44ad-9fa6-1e22566f2d3d	BGN	10.63	EUR	5.40
d72741f0-79f9-4640-b4c7-b6fc505144c4	CAD	9.75	CNY	51.83
6a64e1ce-99a2-46bf-a310-6e7591c04c04	BDT	79.99	GIP	0.58

3. Error Handling

- Errors are returned with appropriate status codes and descriptive error messages.

Foreign Exchange

Exchange Rates

Currency Conversion History

Converter

From: To: Amount:

Convert

Please select different source and target currencies!

Foreign Exchange

Converter

Currency Conversion History

Exchange

From: To:

Get Exchange Rate

Please select different source and target currencies!

Foreign Exchange

Converter

Exchange Rates

Find Transactions by Date

Date: ☐ Transaction Identifier:

Find

No Transactions Found

Foreign Exchange

[Exchange Rates](#)[Currency Conversion History](#)

Converter

From: To: Amount:

Please enter a valid number for the amount!

Foreign Exchange

[Converter](#)[Currency Conversion History](#)

Exchange

From: To:

Error: An error occurred during currency exchange!

Code: 101!

Message: You have not supplied a valid API Access Key. [Technical Support: support@apilayer.com]!