**Overview**

The task is to create an API that processes historical currency exchange rates. It involves parsing a provided CSV data file and building an API that converts amounts in CAD (Canadian Dollars) to other currencies based on historical exchange rates for a given date. **The assignment should be completed in JavaScript**.

**Objective**

Create an API that:

1. Takes a date, a currency code, and an amount in CAD as inputs.
2. Returns the equivalent amount in the specified currency based on the exchange rate on the given date.

**Provided Resources**

* **CSV Data File**: exchange\_rates.csv
  + The CSV file contains historical exchange rates for various currencies.
  + You won’t need to store all the columns. The ones we want are REF\_DATE, Type of currency, VALUE

**Requirements**

1. **Parse the CSV File**: Your solution should store the provided exchange\_rates.csv file so that you can extract the necessary exchange rates.
2. **API Endpoint**: Create an API endpoint that accepts the following query parameters:
   * date (string, required): The date for the exchange rate in YYYY-MM-DD format.
   * currency (string, required): The currency to which the CAD amount should be converted. Eg: “Australian dollar, daily average”
   * amount (number, required): The amount in CAD to be converted.
3. **Response**: The API should return a JSON response with the converted amount and the exchange rate used for the conversion. Example:

Request:

{

"date": "2023-01-21",

"currency": "U.S. dollar, daily average",

"amount\_in\_cad": 100.1234

}

Response:

{

"date": "2022-01-21",

"currency": "U.S. dollar, daily average",

"amount\_in\_cad": 100.1234,

"exchange\_rate": 1.3658,

"amount\_in\_currency": 73.308

}

1. **Error Handling**: Ensure the API handles errors gracefully, such as invalid dates, unsupported currencies, and missing parameters, and returns appropriate error messages.

**Submission**

* Submit your completed project as a GitHub repository link.
* Provide adequate documentation and test cases for your API.

We look forward to seeing your solution!