CARD COST API DOCUMENTATION

Contents

INTRODUCTION

The Card Cost API is a REST ASP.NET WEB API that contains services to manage the cost of credit cards on each country.

There are services that handle any change to the country cost matrix, allowing to query the credit card cost for a country, enter a new country with its credit card cost, update the cost for a country or delete a country from the matrix.

This API also works with 3rd party API (Bintable) that given a credit card number, will return the country that the credit card is from. With that information we can then query the cost from our country cost matrix, therefore there is also a service that given a credit card number will return the country and the cost.

API SECURITY

As a security measure, all service calls to the API need to contain a valid Api Key. The Api Key is a 40 characters long string that will be provided.

COUNTRY COST MATRIX SERVICES

These services allow to query or make changes to the Country Cost Matrix that contains a list of countries (using their Alpha 2 ISO codes) with the corresponding credit card cost for that country. If the country is not in the matrix, then the matrix contains an entry "Others" for all the non-listed countries.

GetCountryCost Service

Route: GET /api/CountryCost/get/{apiKey}/{countryCode}

Description: The service retrieves the cost associated with a specific country code. To access this service, provide a valid Api Key and a valid Country Code.

Request Parameters:

- **'apiKey'** (string): Your API Key for authentication
- **'countryCode'** (string): The country's Alpha 2 ISO code for which you want to retrieve the cost

Request Example

GET api/CountryCost /get/hste5364hfg57slm8c6xs50f9sj39s6z2mj12a96fo4p/US

Responses

- **200 OK** – Returns the country code information.

```
{
    "country": "US",
    "cost": 10.0
}
```

- **400 Bad Request** – Indicates an invalid API Key or country code.
  - "Invalid API Key": When the provided API key is incorrect.
  - "Invalid Country Code": When the country code is not in Alpha-2 ISO format (for example, if it is longer than 2 characters)

- **404 Not Found** – Indicates that no data was found for the provided country

- **500 Internal Server Error** – An error occurred on the server

  "An error occurred calling the service: [Error Message]"

Authentication

To access this service, you need to provide the API Key in the Request

Notes

- The country code must be provided in Alpha 2 ISO code format. Please check here to see each country's Alpha 2 ISO code
  https://www.nationsonline.org/oneworld/country_code_list.htm

UpdateCountryCost Service

Route: POST /api/CountryCost/update/{apiKey}

Description: The service updates the cost associated with a specific country code if the country already exists in the matrix. If the country does not exists, it creates it. To access this service, provide a valid Api Key and a valid Country Code.

Request Parameters:

- **'apiKey'** (string): Your API Key for authentication

Request Body:

The Request's body must be formatted in JSON and contain the country code (Alpha 2 ISO) and its associated cost:

This is an example:

```
{
        "country: "US",
        "cost": "10"
}
```

Request Example

POST api/CountryCost /update/hste5364hfg57slm8c6xs50f9sj39s6z2mj12a96fo4p

Responses

- **200 OK** – Returns the updated country code information.

- **400 Bad Request** – Indicates an invalid API Key, country code or cost.
  - "Invalid API Key": When the provided API key is incorrect.
  - "Invalid Country Code": When the country code is not in Alpha-2 ISO format (for example, if it is longer than 2 characters)
  - "Invalid JSON data": if either country or cost were not provided in the Request's body, or the format is not JSON
  - "Invalid Cost Format": if the cost is non-numeric.

- **500 Internal Server Error** – An error occurred on the server

  "An error occurred calling the service: [Error Message]"

Authentication

To access this service, you need to provide the API Key in the Request

Notes

- The country code must be provided in Alpha 2 ISO code format. Please check here to see each country's Alpha 2 ISO code
  https://www.nationsonline.org/oneworld/country_code_list.htm
- The cost must be a numerical value (it can be decimal)
- This service will take care of both the Create and Update options. If the country doesn't exist it will create it, otherwise it will update it.

DeleteCountryCost Service

Route: DELETE /api/CountryCost/delete/{apiKey}/{countryCode}

Description: The service deletes the entry associated with the provided country code in the matrix. To access this service, provide a valid Api Key and a valid Country Code.

Request Parameters:

- '**apiKey'** (string): Your API Key for authentication
- '**countryCode'** (string): The country's Alpha 2 ISO code which you want to delete

Request Example

DELETE api/CountryCost /delete/hste5364hfg57slm8c6xs50f9sj39s6z2mj12a96fo4p/US

Responses

- **200 OK** – "Country cost deleted successfully"

- **400 Bad Request** – Indicates an invalid API Key or country code.
  - "Invalid API Key": When the provided API key is incorrect.
  - "Invalid Country Code": When the country code is not in Alpha-2 ISO format (for example, if it is longer than 2 characters)

- **404 Not Found** – Indicates that no data was found for the provided country

- **500 Internal Server Error** – An error occurred on the server

  "An error occurred calling the service: [Error Message]"

Authentication

To access this service, you need to provide the API Key in the Request

Notes

- The country code must be provided in Alpha 2 ISO code format. Please check here to see each country's Alpha 2 ISO code
  https://www.nationsonline.org/oneworld/country_code_list.htm

CARD COST SERVICES

This service allows you to query, given a credit card number (PAN), the country and associated cost of the credit card.

GetCardCost Service

Route: POST /api/CardCost/get/{apiKey}

Description: The service retrieves the country and cost of a given credit card PAN number. To access this service, provide a valid Api Key and a valid Country Code.

Request Parameters:

- **'apiKey'** (string): Your API Key for authentication

- **Request Body:**

  The Request's body must be formatted in JSON and contain the credit card number:
  This is an example:

  {

  "card_number: "4352536782334029"

  }

Request Example

POST api/CardCost /get/hste5364hfg57slm8c6xs50f9sj39s6z2mj12a96fo4p

Responses

- **200 OK** – Returns the country code information.

```
{
    "country": "US",
    "cost": 10.0
}
```

- **400 Bad Request** – Indicates an invalid API Key or card number.
  - "Invalid API Key": When the provided API key is incorrect.
  - "Invalid JSON data": card_number was not provided
  - "Card number needs to have at least 6 digits": At least the first 6 digits of the credit card must always be provided in order to be able to retrieve its information.

- **404 Not Found** – Indicates that no data was found for the provided credit card number

- **500 Internal Server Error** – An error occurred on the server

  "An error occurred calling the service: [Error Message]"

Authentication

To access this service, you need to provide the API Key in the Request

Notes

- The credit card number provided must be at least 6 characters long