**WEB SERVIS**

API (Application Programming Interface) je skup specifikacija kojima se služe programeri kako bi komunicirali i interaktirali sa ostalim aplikacijama. U našem slučaju, bit će nam potrebne vrijednosti valuta kako bismo omogućili korisnicima da konvertuju valute. Da bismo to postigli, treba nam API web servisa fixer.io, koji nam to može ponuditi. Pošto sad za sad ne mislimo prikazivati vrijednosti real-time valuta, jedini endpoint koji ćemo koristiti je Convert endpoint. U nastavku je oficijelna dokumentacija tog endpointa u kojem su objašnjeni parametri i povratna vrijednost.

**Convert Endpoint**

The Fixer API comes with a separate currency conversion endpoint, which can be used to convert any amount from one currency to another. In order to convert currencies, please use the API's convert endpoint, append the from and to parameters and set them to your preferred base and target currency codes.

It is also possible to convert currencies using historical exchange rate data. To do this, please also use the API's date parameter and set it to your preferred date. (format YYYY-MM-DD)

**API Request:**

https://data.fixer.io/api/convert

? access\_key = API\_KEY

& from = GBP

& to = JPY

& amount = 25

**Request Parameters:**

| **Parameter** | **Description** |
| --- | --- |
| access\_key | [required] Your API Key. |
| from | [required] The three-letter currency code of the currency you would like to convert from. |
| to | [required] The three-letter currency code of the currency you would like to convert to. |
| amount | [required] The amount to be converted. |
| date | [optional] Specify a date (format YYYY-MM-DD) to use historical rates for this conversion. |

**API Response:**

{

"success": true,

"query": {

"from": "GBP",

"to": "JPY",

"amount": 25

},

"info": {

"timestamp": 1519328414,

"rate": 148.972231

},

"historical": ""

"date": "2018-02-22"

"result": 3724.305775

}

**Response Objects:**

| **Response Object** | **Description** |
| --- | --- |
| success | Returns **true** or **false** depending on whether or not your API request has succeeded. |
| query > from | Returns the three-letter currency code of the currency converted from. |
| query > to | Returns the three-letter currency code of the currency converted to. |
| query > to | Returns the amount that is converted. |
| info > timestamp | Returns the exact date and time (UNIX time stamp) the given exchange rare was collected. |
| info > rate | Returns the exchange rate used for your conversion. |
| historical | Returns **true** if historical rates are used for this conversion. |
| date | Returns the date (format YYYY-MM-DD) the given exchange rate data was collected. |
| result | Returns your conversion result. |