**API Documentation**

**1. Introduction**

In this application, we are scrapping the ECB violation data from the RBI website on a

daily basis and storing those data in the database. The data from the database is retrieved

through the API interface. Please refer to the below steps to retrieve the data using the API

interface.

**2. Objective**

API is the acronym for application programming interface — a software intermediary that

allows two applications to talk to each other. APIs are an accessible way to extract and share

data within and across organizations.

In order to use the API, you must sign-up for an account, login and get your API Key

from the response window. That API Key should be used in further transactions.

**3. Supported API functions**

Currently the API supports 3 functions:

**3.1. Login**

**HTTP Method** : POST

**URL** : [http://127.0.0.1:8000/api/v1/Ecblogin/](http://104.211.245.208:8000/api/v1/login/)

**Description** : The Login function enables to get the Token for further transtraction. This is the

first step to access the methods. Select the Body tab (in the request section).Then Select raw

and JSON. Put the UserName and password in the request window.

**Request Parameters:**

| {  "username":"admin",  "password":"admin"  } |
| --- |

**JSON Response:**

| {  "status": "Success",  "token": "b9c25ba946eac13ec8e6f1db1bd6ddc910a2a1af"  } |
| --- |

**JSON “result” value:** In this function the possible values of the above JSON result field are

"Status" & "token".

**3.2. Get order by Date**

**HTTP Method** : GET

**URL**: http://127.0.0.1:8000/api/v1/getEcbOrderByDate/?date=2023-12

**Description** : The Get Order By Date function allows you to get the data from the given date.

The date format should be in “yyyy-mm-dd”. For example, if we give 2023-12-28. It will

return the data from that date only.

**Request Headers:**

| **Headers Name** | **Description** |
| --- | --- |
| Key | Your API Key → (Authorization) |
| Value | The Token where we get from the JSON response. → (token {paste the token value }) |

**Request Parameters:**

| **Parameter Name** | **Description** |
| --- | --- |
| Date | The Date format should be in "yyyy-mm-dd". |
| Limit | Number of data should be returned as per the user. |
| Offset | Used to eliminate a set of records from a given table in order to retrieve a set of records according to the requirement of the database. |

**Note:**

If nothing is provided in the Limit and Offset field it takes the default Limit value 100 and Offset value 0.

**JSON Response:**

| {  "result": [  {  "SI\_NO": 1,  "Type": "ECB",  "Borrower": "Innosat Projects Private Ltd \*\*",  "Economic\_sector\_of\_borrower": **null**,  "Equivalent\_Amount\_in\_USD": "23324",  "Purpose": "Other",  "Maturity\_Period": "3 yrs 1 month",  "Lender\_Category": **null**,  "Month": "April",  "Year": "2004",  "Route": "Automatic",  "date\_scraped": "2023-12-28T11:42:19"  },  {  "SI\_NO": 2,  "Type": "ECB",  "Borrower": "Greenfield Online Pvt.Ltd.",  "Economic\_sector\_of\_borrower": **null**,  "Equivalent\_Amount\_in\_USD": "1500000",  "Purpose": "Import of Capital Goods",  "Maturity\_Period": "6 yrs 1 month",  "Lender\_Category": **null**,  "Month": "April",  "Year": "2004",  "Route": "Automatic",  "date\_scraped": "2023-12-28T11:42:23"  }, |
| --- |

**JSON “result” value:** In this function the possible values of the above JSON result field are :

We retrieve the data of ECB Violations from the date given by the user.

**3.3. Logout**

**HTTP Method** : GET

**URL**: http://127.0.0.1:8000/api/v1/Ecblogout

**Description** : The Logout function allows you to get logged out the token.

**Request Headers:**

| **Headers Name** | **Description** |
| --- | --- |
| Key | Your API Key → (Authorization) |
| Value | The Token where we get from the JSON response. → (token {paste the token value }) |

**JSON Response:**

| "User Logged out successfully" |
| --- |

**JSON “result” value:** The current token will be logged out.

**4. Error Messages**

This API error occurs when a server refuses to fulfill a request from the client due to

authorization issues or other restrictions put in place by the API provider. In that case it

results also the error code and the error message.

**Here is how an Error Reply looks like:**

| {  "status": "Failed",  "message": "Invalid Credentials"  } |
| --- |

**Here is the complete list of Error Codes and Error Messages:**

| **Error Code** | **Error Message** |
| --- | --- |
| 404 | Invalid Credentials |
| 401 | Invalid token |
| 400 | Invalid date format |
| 400 | Fields Required!!! |
| 401 | Authentication credentials were not provided |