### RATES API – HSBC Assessment

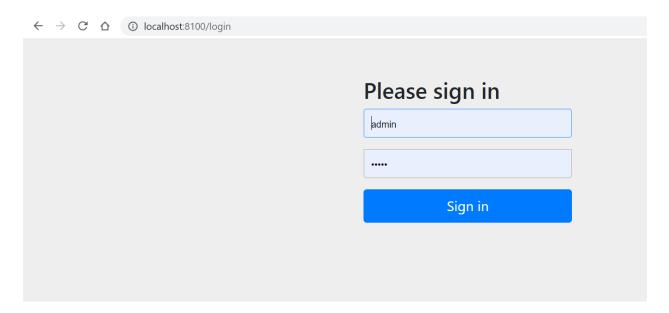
The Rates API is a free service for current and historical foreign exchange rates. It gives historical and current exchange rates for different currencies against the Euro.

Please see below functionalities with snapshots.

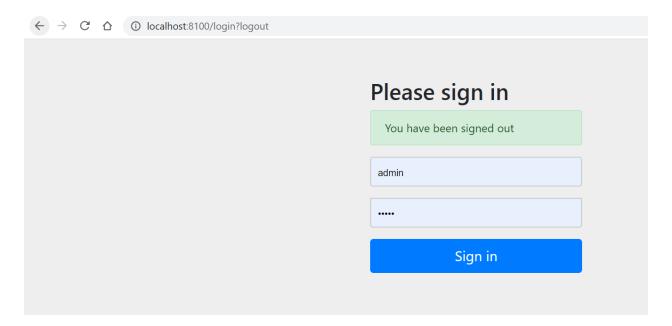
### 1. Login/Logout implementation

Username: admin Password: admin

### a. Login page:



### b. Logout page:



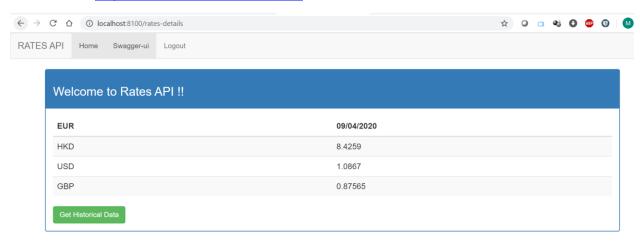
### 2. Latest Data

This API is flexible and scalable to change the base and symbols.

Default base: EUR

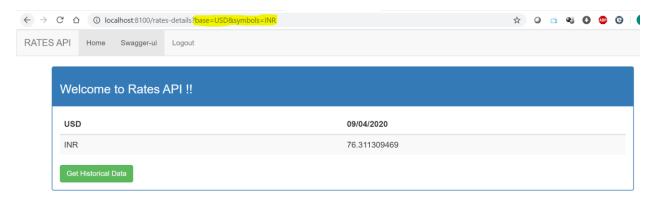
Default symbols: GBP, USD, HKD

a. EndPoint: <a href="http://localhost:8100/rates-details">http://localhost:8100/rates-details</a>



# Rates API is a free service for current and historical foreign exchange rates.

b. Endpoint with base and symbol: <a href="http://localhost:8100/rates-details?base=USD&symbols=INR">http://localhost:8100/rates-details?base=USD&symbols=INR</a>



c. Endpoint with only symbol: <a href="http://localhost:8100/rates-details?symbols=INR,USD">http://localhost:8100/rates-details?symbols=INR,USD</a>
Here base is not provided thus it will take EUR as default.





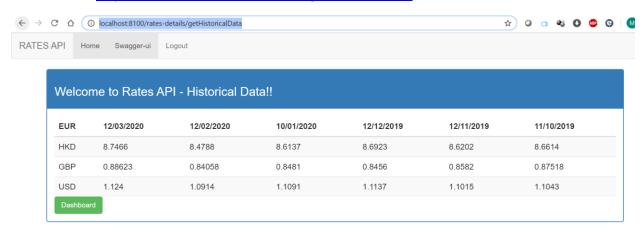
#### 3. Historical Data

This API is flexible and scalable to change the base, symbols and months.

Default base: EUR

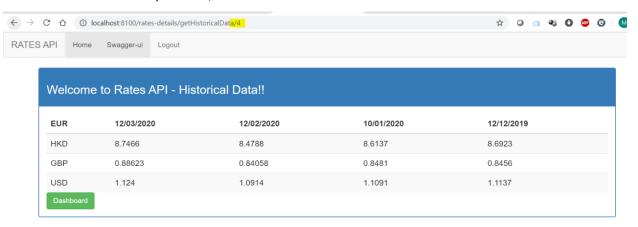
Default symbols: GBP, USD, HKD

a. EndPoint: <a href="http://localhost:8100/rates-details/getHistoricalData">http://localhost:8100/rates-details/getHistoricalData</a>



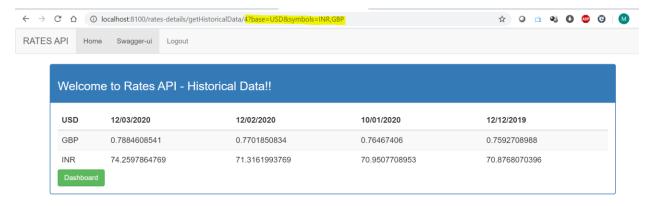
## Rates API is a free service for current and historical foreign exchange rates.

b. EndPoint: <a href="http://localhost:8100/rates-details/getHistoricalData/4">http://localhost:8100/rates-details/getHistoricalData/4</a>
Here month - 4 is provided, thus it will fetch last 4 months of data.



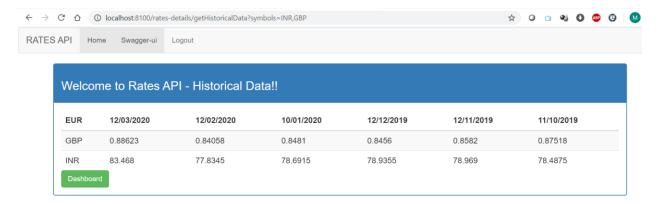
### Rates API

c. EndPoint: <a href="http://localhost:8100/rates-details/getHistoricalData/4?base=USD&symbols=INR,GBP">http://localhost:8100/rates-details/getHistoricalData/4?base=USD&symbols=INR,GBP</a>
Here custom months, base and symbols are provided



### Rates API Rates API is a free service for current and historical foreign exchange rates.

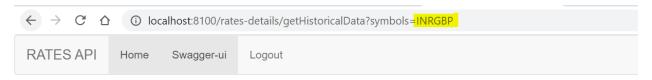
d. EndPoint: <a href="http://localhost:8100/rates-details/getHistoricalData?symbols=INR,GBP">http://localhost:8100/rates-details/getHistoricalData?symbols=INR,GBP</a>
Here only symbols are provided, thus it will take default months i.e. 6 and default base i.e. EUR



### Rates API

### 4. Error

Here comma is missing between symbols and thus API call fails, and general error page is displayed.



An exception occurred! Please contact Support!

### 5. SWAGGER UI

EndPoint: <a href="http://localhost:8100/swagger-ui.html">http://localhost:8100/swagger-ui.html</a>

