

General Information

- Use Python 3.11+ for this exercise
- Add any external library in requirements.txt or use poetry.
- Please push the code to Github in a private repo and share it with *rondanen*
- You will also need to host the code on a server (AWS, Heroku, etc.) so we can directly query your API (please provide the Postman collection). Once we've looked at it, feel free to delete it so you don't get costs incurred to you.

Requirements

You will need to build a Django REST API with two parts:

PART ONE

User sends a POST request with a parameter "url":

1. Verify the string entered is a valid URL, otherwise return an error message
2. If it is a valid URL, get the following information:
 - a. "domain_name": returns the domain name of the URL
 - b. "protocol:" http or https
 - c. "title": the <title> of the page
 - d. "image": the URLs of all the images
 - e. "stylesheets": the number of stylesheets present in the html of the page
3. Save the URL and information from point 2 in a database and return the created object to the user.
4. Give the possibility for the user to GET, LIST, DELETE the URLs saved in point 3.

PART TWO

User sends a GET request and receives a dictionary with:

1. "bitcoin_eur": The 15min delayed bitcoin market price in EUR
2. "eur_to_gbp": Monthly conversion rate (last month, dynamically generated) from EUR to GBP from the European Central Bank
3. "bitcoin_gbp": The price from step 1 converted to GBP (official ECB rate)

Resources:

- ECB official API: <https://data.ecb.europa.eu/help/api/overview>
- Bitcoin API: https://www.blockchain.com/api/exchange_rates_api

Please get in touch if you have any questions. Looking forward to see what you build!