



Coding Task

GENERAL COMMENTS

- Please, do not share this task and your solution with anyone outside of Redstone.
- You have 4 days to complete this task and send us your results.
- We expect that the completion of the task should not take more than 2-4 hours of work.
- Create a private repository on Github and add the following users as collaborators (@ygabuev, @agonotskaya) once you are ready to share your results.
- Do not hesitate to contact us if you have any questions related to the task.

TASK

Your task is to implement a REST API in Python for extracting company names from a piece of text.

The flow should look as follows:

1. A client sends an HTTP request (GET or POST) to your web server with a small piece of text (not bigger than one paragraph).
2. The server-side code processes the text and extracts the names of companies that are mentioned there. It also calculates a confidence score for each extracted instance.
3. The server sends a response to the client with a list of extracted company names along with their confidence scores.

HINT

You can use pre-trained Natural Language Processing models for this task. Have a look at Transformer neural networks, they should work quite well.

WHAT ARE WE LOOKING FOR?

- The solution should be easily verifiable, written in a clean and concise way, and it should work.
- We will look at how you structure your project. Please make sure that you include all of the necessary surrounding pieces.

GOOD LUCK!