

Coding Challenge Instructions | Lemonade Engineering

This coding task is meant to give us a better sense of your problem solving and coding skills. **Please make sure to write down whatever assumptions you take when you write the code.**

Challenge Description

You are required to write a web API with 2 endpoints:

1. A 'word counter' endpoint
 - Receives a text input and counts the number of appearances for each word in the input.
 - The endpoint should not return data (but you may return success status, etc).
 - The endpoint should be able to accept the input in 3 ways:
 - A simple string sent in the request.
 - A file path for a file in the server's filesystem (the contents will be used as input).
 - A URL (the data returned from the URL will be used as input).
 - The input may be very large (up to tens of gigabytes).
 - The results (the number of appearances of each word) should be persisted, to be used by the 'word statistics' service.
2. A 'word statistics' endpoint
 - Receives a word and returns the number of times the word appeared so far (in all previous inputs).

Examples

Word counter endpoint

Input: "Hi! My name is (what?), my name is (who?), my name is Slim Shady" **Output:** (empty)

Word statistics endpoint

Input: "my" **Output:** 3 | **Input:** "what" **Output:** 1 | **Input:** "hello" **Output:** 0

Notes

- You are welcome to use your favorite programming language
- Feel free to add any extra functionality you wish.
- You are welcome to approach me for any questions you might have.

Good luck!