

Problem Statement

Assume that your company assigned you to build a text analyzer tool. Your task will be to create an application that reads from a text file and calculates some parameters. The scripts should calculate the count of words, characters, paragraphs, and more of the text written in the file. You may assume that the file contains only English words separated by whitespace. You may also ignore punctuation and treat uppercase and lowercase letters as the same.

Use the following text in a file named sample.txt:

"The quick brown fox jumps over the lazy dog. The lazy dog slept in the sun."

You must follow the TDD approach.

API to be exposed

- Create an API to return the number of words.
- Create an API to return the number of characters.
- Create an API to return the number of sentences.
- Create an API to return the number of paragraphs.
- Create an API to return the longest words in paragraphs.

Requirements

- Node.js
- HTML
- CSS

Setup

- You may use any open-source database.
- You may use any library to dump initial data.

Using your own Architecture

You are free to do the challenge using your selected Architecture.

Log Visualization

- You may use any tool for log visualization.

General Instructions

- You may use any further tools to optimize your solution.

Submission

- Include instructions on how to set up the project locally and any dependencies required.

- Create a public repository from your GitHub account and send us the GitHub link of your application.

Please note that your commit history in GitHub will be reviewed during the evaluation of your application.