

# Interview Coding Task

Build a REST API along with a minimal frontend to check text for spelling issues and give suggestions to the user.

## Backend

**Build a REST API which does the following:**

1. Accepts text from user
  - a. Text as plain string
2. Provides suggestions to users based on the text submitted.
  - a. Returns a JSON

Sample JSON template:

```
{
  id: string; // Unique identifier for the check
  info: {
    words: number;
    time: string; // Time at check start
  }
  issues: [ // Array of issues
    {
      type: string; // eg: spelling
      match: {
        surface: string; // The word with incorrect spelling
        beginOffset: number; // Start index of the issue in content
        endOffset: number; // End index of the issue in content
        replacement: string[]; // Replacement words to correct the issue
      }
    }
  ]
}
```

### Check processing:

You are free to use any open source library for spell check. Any library which gives you spelling suggestions should work. Spelling check for English language is sufficient.

If you are unable to find any library, hardcoded processing is also acceptable.

*Example:* Create a list of 20 or more spelling mistakes and check your text for spelling errors as per the list.

## Frontend

Create a minimal frontend where users can type text, run a check and apply suggestions.

Frontend should have following features:

1. Users should be able to input multiple paragraphs of unicode text.
2. Users should be able to run a check on the text typed in the text box.
3. Users should be able to see and apply suggestions based on the results provided by the backend.

Frontend showing basic functioning features is enough. Refined Ux is not expected.

## Testing

Write a few unit tests to test the functionality.

## Sharing Code with Acrolinx

Create a private repository on GitHub and share the code with [Paresh](#) and [Abhijeet](#)