Project Statement--JJBS Text Editor

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INTRODUCTION

People used to spend a lot of time manually editing their writing. Checking for spelling mistakes was one of the most time-consuming parts of editing. The invention of computers sped up and improved the accuracy of this process, along with other simple and repetitive tasks. With this in mind, we aim to write a program that anticipates our mistakes and intentions; knowing what we are trying to type, correcting what we type wrong, and even writing poems which mimic an existing text's style.

Project Component

JJBS text editor helps to accomplish all tasks mentioned above. It is a text editor which includes features like spell check, autocomplete and autocorrect misspelled words. Users can choose to toggle these features on and off as they prefer, to allow for more flexibility. A graphic user interface(GUI) enables users to freely make whatever choices they would like.

Technical Implementation

We are a group of four: Jason, Jiaxun, Bo and Sejal. The project name JJBS stems from the initial letters of names of us four. Python will be deployed to develop this tool. The project has two technical parts: Back-end code that we will be working on to deal with the text, and the Front-end interface which users directly interact with. As a wrap-up for Info 206, we will dig in and experiment with different data structures and algorithms we are learning in the course and search for the optimal solution to realize various functions.

The specific features we plan to implement are spell check, Flesch Readability Score (which scores the complexity of a text given the number of sentences, words and syllables), autocomplete, autocorrect misspellings (providing a list of spelling suggestions for misspelled words), and Markov text generation.

Deliverable

1. Project Statement (this document)
2. Project Codebase Outline
3. The application - JJBS Text Editor
4. Application Source Codes

Project Idea Source: A Coursera course project by UCSD

https://www.coursera.org/learn/data-structures-optimizing-performance/home/welcome