**CS-212L Data Structures and Algorithm**

**Project Proposal**

**Project Title:** **Spell checker and auto corrector (Trees)**



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1. **Introduction:**

Spell checker and auto corrector Project, which lets you check the spelling of words which stored in your tree and if spellings are incorrect it auto corrects the spelling of word which stored in the library. The technology we use in this project is C++ language using Tree class. Software use in this project is Visual Studio Community.

1. **Modules:**

* void InsertWords(CNode\* ptr)
* void DeleteWords(CNode\* ptr)
* bool SpellCheck()
* bool FindWords(CNode\* ptr)
* void AutoCorrect()
* void PrintNodes()

1. **Methodology:**

User will input different words and this will added in our dictionary of tree and whether we check every word stored in tree or we will ask user to enter word and search it in our dictionary of tree and if we found it we check its spelling and auto correct the word .If we want to delete any word from dictionary we can delete that word also. We want to insert new word in tree and the word inserted in tree will stored in text file.

In order to implement these modules following are the Methodologies to implement it:

• Insert words in Tree Using File handling.

• Delete words in tree

• Find Words in your tree

• Get words whose spelling is to be checked

• Check Spelling of your word

• Auto correct the spelling of the word which stored in tree

**Flowchart:**

Input Word

Find word in Tree

**NO**

**YES**

Spell Check Word

If spell is correct

**NO**

AutoCorrect Word

**YES**

Delete Previous Word

Insert Word in File

1. **Applications:**

* Spell checker and auto corrector is easier and quicker to use for any person.
* You will not ask others to review your text spell checker and auto corrector will check your spell and correct it automatically.
* Spell checker and auto corrector not only detects the wrong word but also correct it automatically.

1. **Conclusion**

English spelling can be rather tricky. Often, the way the word is spelled has little to do with how it is pronounced. Therefore, many people misspell words, including native English speakers. Unfortunately, bad spelling can say many things about you, mostly carelessness. Therefore, spell checker and auto corrector are very useful in this context. Our project will be helping others to check their document and fixing spell mistakes.