

# SPELL CHECKER

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writing a spell checker program to check the correctness of a given document

# INTRODUCTION

We have to create a user program that checks the correctness of a document and makes necessary changes if needed. Spell-checking features are often embedded in software or services, such as a word processor, email client, electronic dictionary, or search engine.

Grammarly is an AI powered tool.

- 1 So it's basically a computer program or algorithm which studies and compares your sentence against hundreds of similar ones that are listed in their database.
- 2 Grammarly, as mentioned earlier, is an AI powered tool that weighs your writing by comparing it against authentic rules and sentence patterns
- 3 Grammarly's algorithms flag potential issues in the text and suggest context-specific corrections for grammar, spelling and usage, wordiness, style, punctuation, and even plagiarism using patterns in its database.



Ginger Software is an Israeli start-up company.

- ➊ Ginger Software that has developed language enhancement technology that uses statistical algorithms in conjunction with natural language processing
- ➋ Ginger Software uses patented software algorithms that deal with natural language processing. The company claims that the algorithm allows it to correct the written sentences with relatively high accuracy (eliminating up to 95 percent of writing errors) compared to standard spell checkers.
- ➌ Its unique algorithm allows the software to understand the context of the sentence rather than correcting based solely on a word.
- ➍ The software operates on the logic of sentence context in addition to the memory of a database of words.





# PROPOSED METHODOLOGY

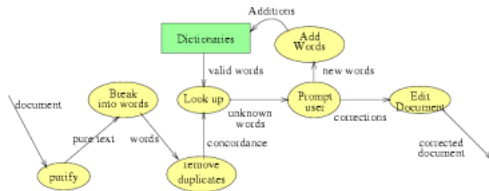
To do the User Authentication we use

- ① online Dictionary
- ② where we cross check word by word with its counterpart in the dictionary using the first letter as hint.

# Proposed algorithm

- ➊ Given document is broken down into words and duplicate words are removed.
- ➋ each word is checked up in the dictionary module and if found is kept or else added to the dictionary if needed or changed by the user if not needed.
- ➌ the final edition is done by the user and a corrected document is received

# FLOW CHART



# CONCLUSION

A spell checker has been created where words are cross checked in a online dictionary for misspellings and are corrected if possible.