# 19CSE100 PSAT MINIPROJECT

## GRAMMAR SPELL CHECKER

**Presented by**
**Deepak Kumar S (CB.EN.U4CYS22020)**
**Lalitha K (CB.EN.U4CYS22037)**
**Harshith G (CB.EN.U4CYS22027)**
**TIFAC-CORE in Cyber Security**
**Amrita Vishwa Vidyapeetham, Coimbatore Campus**

March 1, 2023

AMRITA
VISHWA VIDYAPEETHAM

# CONTENTS


1. Abstract
2. What is Grammar checker ?
3. HISTORY: The Grammar checker
4. Functioning
5. Examples of online grammar checkers
6. Bibliography

# Abstract

## Main Motive of Grammar Checker

The abstract of our project is to make writing more easy and more convenient. It enhances your work and improves the quality of your work.

# What is Grammar Checker ?

- Grammar is the basis of communication. It allows you to express yourself more clearly. Without the right use of grammar, readers won't understand exactly what you mean, so they might get the wrong message.
- Finding all the grammatical errors and fixing them in the content is not only frustrating but also highly **time-consuming**. However, the easiest way to fix your writing mistakes is the Grammar Spell Checker.
- Grammar checkers are most often implemented as a feature of a larger program, such as a **word processor**, but are also available as a **stand-alone application** that can be activated from within programs that work with editable text.

# HISTORY: The Grammar Checker

## HISTORY

- The first grammar checker system was called **"WRITER'S WORKBENCH"** and was a set of writing tools included with Unix systems as far back as the 1970s.
- The writer's Workbench works primarily by **counting and comparing**.
  *It counts the number of letters in a word (or words in a sentence) and compares the figures to established norms, then calculates a text's 'readability,' its probability of being understood by a given audience.*
- It contained several **tools** to check for grammatical and spelling errors. Some famous ones were:
  1. **Diction** – Identifies the wordy sentences and suggests how they may be simplified
  2. **Style** – Analyses style characteristics of documents
  3. **Gram** - Identifies misused articles
- It performed a number of **readability tests** on the text and output the results and gave some **statistical information** about the sentences of the text.

# How does the Grammar Checker work?

- A Grammar Checker will find each word and sentence in a text, look up each word in the dictionary, and then attempt to parse the sentence into a form that matches a grammar.
- Using various predefined rules, the program can then detect various errors, such as agreement in **tense, number, word order, and so on.**
- There are many paid/free versions of online grammar checkers available on the internet such as Grammarly, QuillBot, Reverso, Ginger and so on.

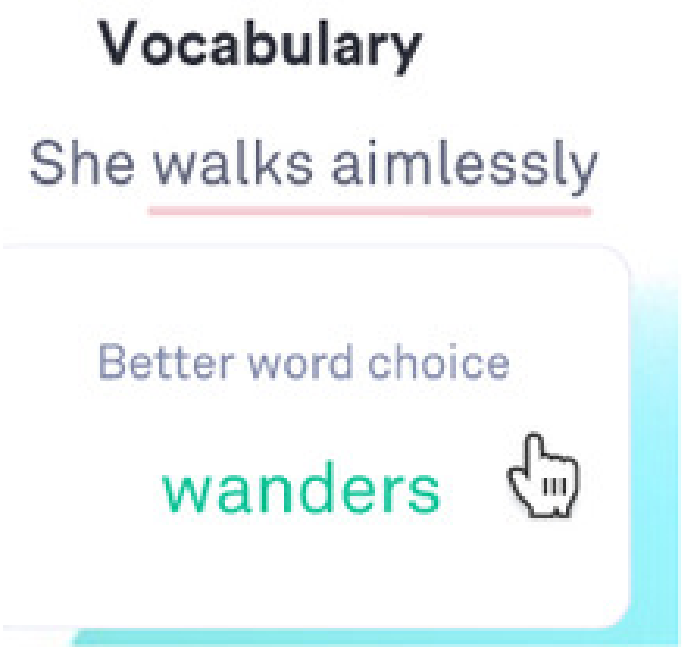
# How does the Grammar Checker work?

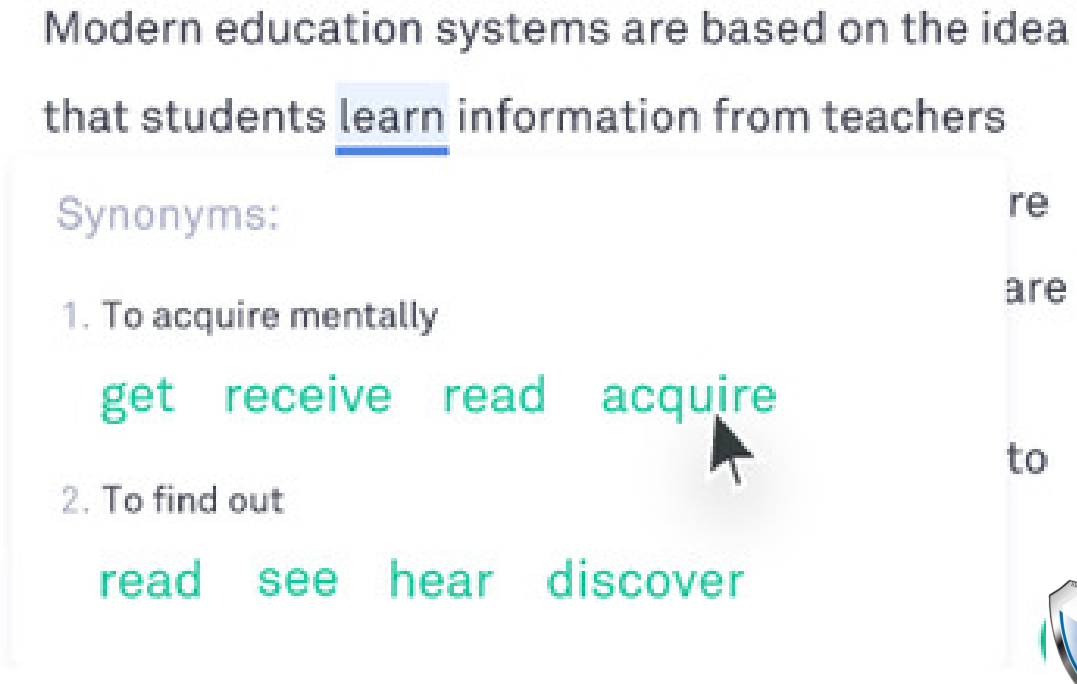
## GENERAL FUNCTIONING OF A GRAMMAR CHECKER

1. Grammar Checker generally uses a **sophisticated artificial intelligence system** built to analyze sentences written in English.
2. It's team of computational linguists and deep learning engineers designed cutting-edge algorithms that learn the rules and hidden patterns of good writing by analyzing millions of sentences from research corpora. (A corpus is a large collection of text that has been organized and labeled for research and development purposes.)
3. When you write with the Grammar Checker, the AI analyzes each sentence and looks for ways to improve it, whether it's correcting a **verb tense, suggesting a stronger synonym, or offering a clearer sentence structure.**
4. To manage a large amount of data it runs on the **cloud**. Hence, all you need to check your writing with the Grammar Checker product is an **Internet connection**.

# Examples of online grammar checkers

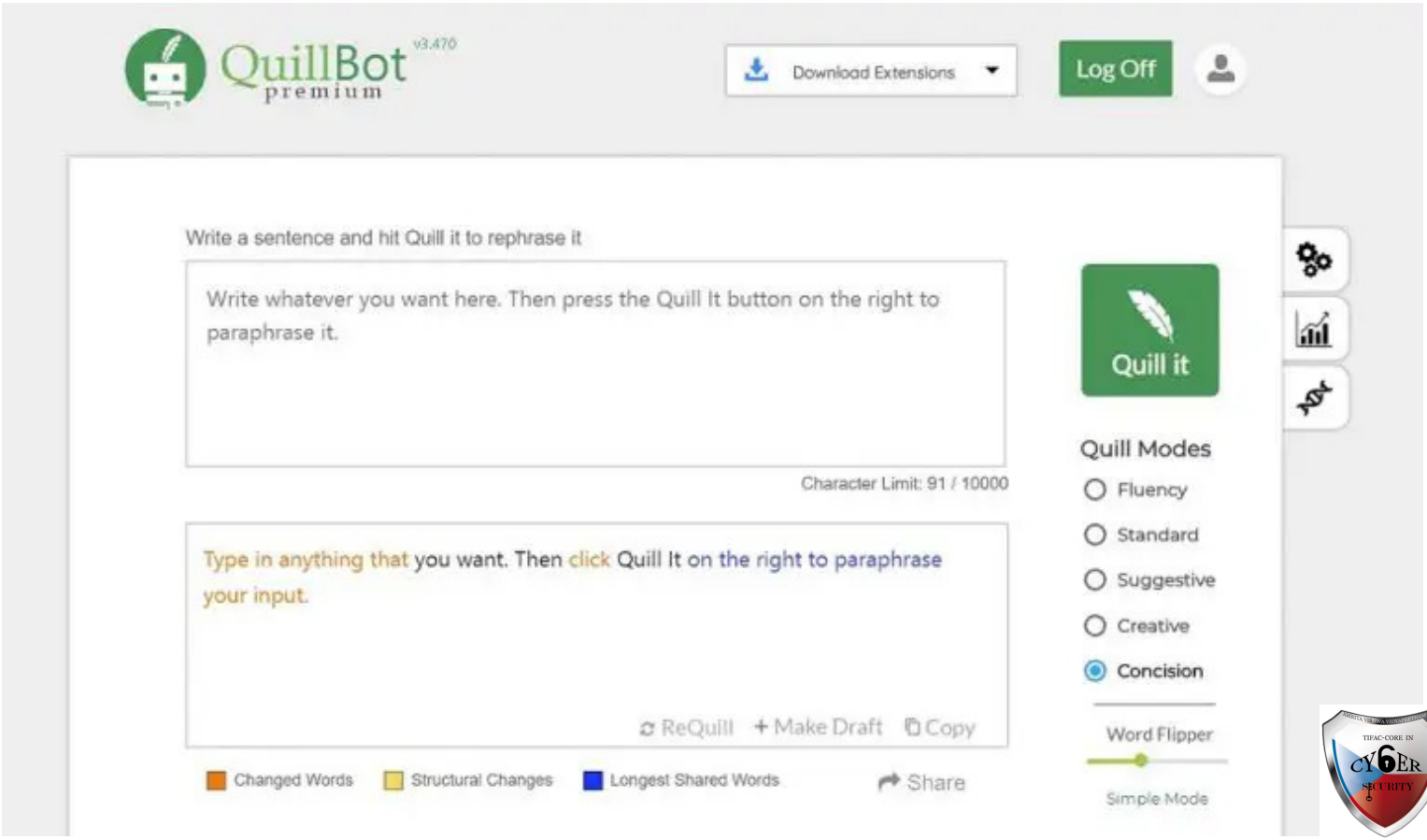
grammarly



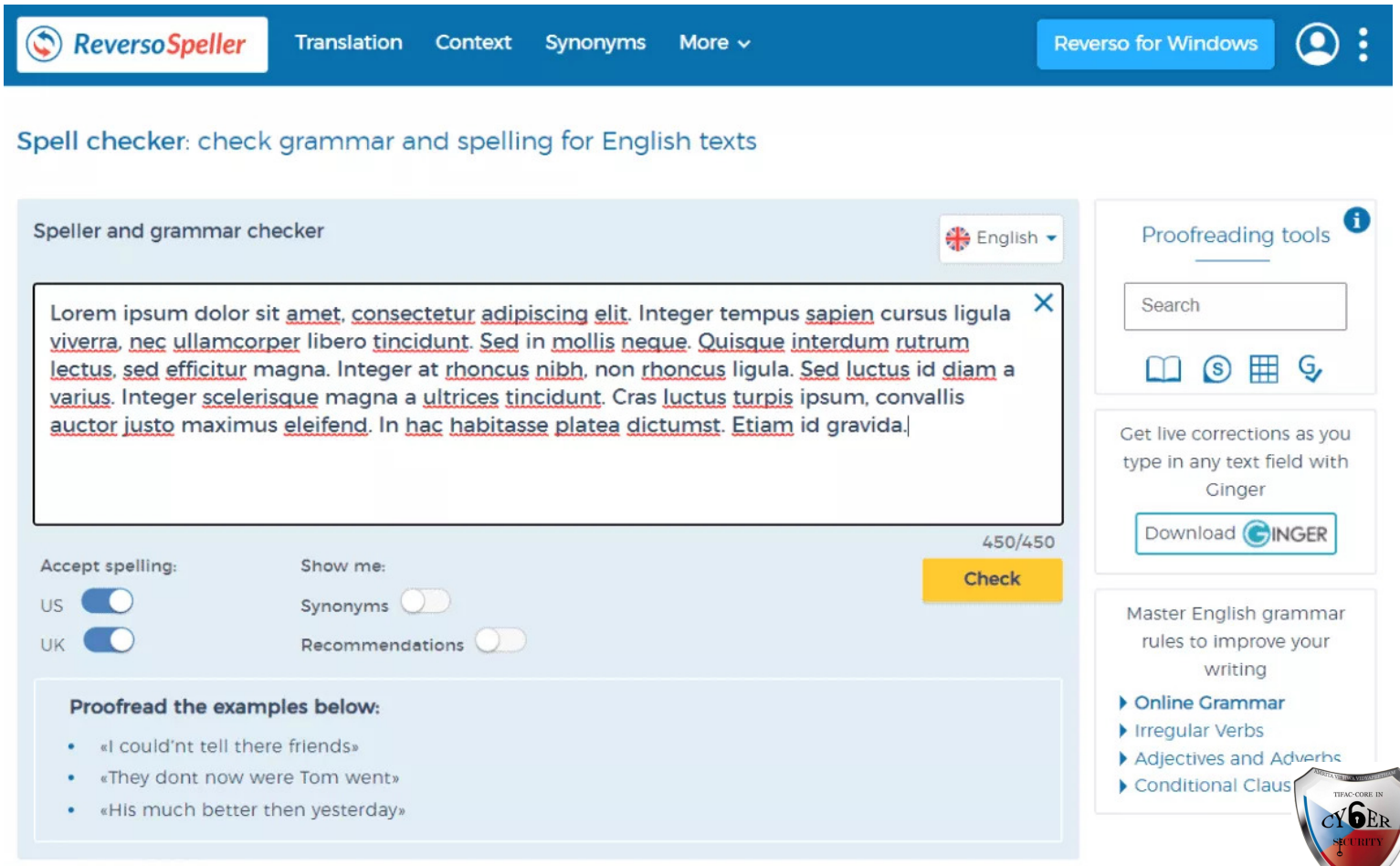
# Examples of online grammar checkers

QuillBot



# Examples of online grammar checkers

Reverso



# References


https://www.grammarly.com/blog/how-does-grammarly-work
https://quillbot.com/
https://en.wikipedia.org/wiki/Grammar_checker
https://www.reverso.net/spell-checker/english-spelling-grammar/
https://www.techopedia.com/definition/7458/grammar-checker