

**IMPLEMENTATION OF SPELLING AND GRAMMAR CHECKER
FOR FILIPINO**

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FOR FILIPINO**

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ABSTRACT

Spelling and grammar checking identifies texts that are grammatically incorrect and wrongly spelled by the user. This study develops a framework for the implementation of spelling and grammar for Filipino. It surveys available technologies - software and past researches. The study explores designs on existing software and how they are implemented. It also delves into Filipino grammar, how it works and how it is defined. The complexity of Filipino language is analyzed in this study. Moreover, this study explores compiler concepts: parsing and lexical analysis. Parsing involves breaking down the sentences into primitive parts of speech. Lexical analyzer segments character strings into a sequence of words also known as *lexical units* or *lexemes*.

Consequently, the study includes the methodology in creating a spelling and grammar checking application for Filipino.

CHAPTER I

INTRODUCTION

1.1 Background of the Study

Spelling and grammar checking are important factors in creating or developing a document. It helps the user create a more efficient document and without much time wasted and is convenient to use when writing involves long documentation. However, the common language used in most cases is English. The problem is that English is not the only language used in making documents. In the Philippines, Filipino, aside from English, is the most common language used in creating documents and paper works.

Currently, there are spelling and grammar checking for different foreign languages. There has been no downloadable software or application that checks in Filipino language. The proponents of this study believe that there is a need to implement a spelling and grammar checker for Filipino.

1.2 Statement of the Problem

The current study seeks to answer the general problem: How to implement spelling and grammar checker for Filipino?

Specifically it seeks to answer the following:

- How are spelling and grammar checking done?
- How Filipino is formally defined as a language?
- What are the components of a spelling and grammar checker for Filipino?

1.3 Objective of the Study

The general objective of this research is to implement a spelling and grammar checker for Filipino.

The specific objectives are:

- To identify ways on how spelling and grammar checking is done.
- To know and understand how Filipino is formally defined as a language.
- To identify the components of a spelling and grammar checker for Filipino.
- To implement and test the application for a text editor.

1.4 Scope and Limitation of the Study

A software for spelling and grammar checking for Filipino is implemented and tested for a text editor. The study focuses on spelling and grammar checking but shall not include other tools. The application identifies wrong spellings and grammatically incorrect sentences. The spell checking is based on a Filipino dictionary while the grammar checking is based on a Filipino book involving comprehensive grammar rules.

1.5 Significance of the Study

This study is beneficial to text editor users, especially to students and other professionals. They can have their Filipino text checked without the hassle of browsing through the dictionary for the correct term or spelling of the selected word. By having this proposed software application, a lot of Filipino users can take advantage of using this software to check for any inconsistencies in their Filipino text. Software developers will also benefit from this study as it will be the basis for improvements and other developments. Since there are no existing technologies on spelling and grammar checking in Filipino, this study would be significant to the IT industry.