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*FILIPINO WORD PROCESSOR WITH INTEGRATED FILIPINO
SPELLING AND GRAMMAR CHECKER APPLICATION*

Thesis

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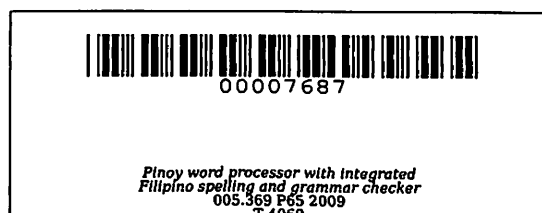
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**PINOY WORD PROCESSOR WITH INTEGRATED FILIPINO
SPELLING AND GRAMMAR CHECKER APPLICATION**

Undergraduate Thesis
Submitted to the Faculty of the
Cavite State University
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In partial fulfillment
of the requirements for the degree of
Bachelor of Science in Computer Science



**PAULO ELIAS L. PIÑOL
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ABSTRACT

PIÑOL, PAULO ELIAS I. and RODIS, RADIGLENN R. Pinoy Word Processor with Integrated Filipino Spelling and Grammar Checker Application. Undergraduate Thesis. Bachelor of Science in Computer Science. Cavite State University, Indang, Cavite. March 2009, Adviser: Mr. Marlon R. Pereña.

The software entitled, Pinoy Word Processor with Integrated Filipino Spelling and Grammar Checker Application was developed to have an efficient Natural Language Processing (NLP) tool that would realize Filipino word processing. Specifically the developed software aimed to: identify the problem of the existing system through survey; analyze the identified problems to establish the requirements and scopes of the proposed system; design a solution to address the problem of MS Word regarding spelling and grammar checking in Filipino using V Model methodology; develop a system capable of creating and manipulating written Filipino text based document using Microsoft Visual Basic 6.0; and evaluate the system through acceptance testing.

V model was the paradigm used in the study. The main phases of the methodology were Requirements Analysis, System Design, Architecture Design, Module Design, Coding, Unit Testing, Integration Testing, System Testing and Acceptance Testing.

Microsoft Visual Basic 6.0 and DAT File were the applications used to develop the system.

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PINOY WORD PROCESSOR WITH INTEGRATED FILIPINO SPELLING AND GRAMMAR CHECKER APPLICATION ^{1/}

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^{1/} An undergraduate thesis submitted to the faculty of Department of Information and Technology, College of Engineering and Information Technology, Cavite State University, Indang, Cavite in partial fulfillment of the requirements for the degree of Bachelor of Science in Computer Science. Contribution No. BSCos-2008-09-008. Prepared under the supervision of Mr. Marlon Pereña.

INTRODUCTION

Word processing is an application program for manipulating text-based documents. It utilizes a word processor or editor (Capron and Johnson, 2003) as an electronic equivalent of paper, pen, typewriter, eraser, and most likely, dictionary and thesaurus (Kunde, 2008).

Given the importance of word processing in human transactions its automatic correction of form has practical significance. The problem of detecting spelling and grammar error and correcting them is actually an application of Natural Language Processing (NLP).

These progressive and difficult tasks of word processor's features like spell checking, grammar checking and style checking have been addressed with different techniques by all major text processors as well as independent suppliers. However, not all languages are equally well covered by such resources, and their performance varies