

**PROJECT REPORT**  
**Analyzing the Categories of English Words in a  
Sentence with Modified Left Corner Parsing Algorithm**

Pendi  
11.02.0055  
2014/2015

**FACULTY OF COMPUTER SCIENCE**  
**SOEGIJAPRANATA CATHOLIC UNIVERSITY**

Jl. Pawiyatan Luhur IV/1, Bendan Duwur, SEMARANG 50234

Telp. 024-8441555 (hunting) Web: <http://www.unika.ac.id>

<http://ikomunika.web.id/>

**APPROVAL AND RATIFICATION PAGE**

**PROJECT REPORT**

Analyzing the Categories of English Words in a Sentence with  
Modified Left Corner Parsing Algorithm

by

11.02.0055 – Pendi

This project report has been approved and ratified by the Dean of Faculty  
of Computer Science and Supervisor on 15 July 2015

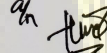
With approval,

Examiners,



Hironimus Leong, S.Kom., M.Kom  
NPP : 058.1.2007.273

Supervisor,



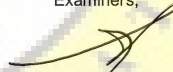
Shinta Estri Wahyuningrum, S.Si, M.Cs  
NPP : 058.1.2007.272

Examiners,



Rosita Herawati, ST., MIT  
NPP : 058.1.2004.263

Examiners,



Suyanto Edward Antonius, Ir., M.Sc  
NPP : 058.1.1992.116

Dean of Faculty of Computer Science,



Hironimus Leong, S.Kom., M.Kom  
NPP : 058.1.2007.273

### STATEMENT OF ORIGINALITY

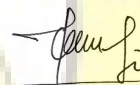
I, the undersigned:

Name : PENDI

ID : 11.02.0055

Certify that this project was made by myself and not copy or plagiarize from other people, except that in writing expressed to the other article. If it is proven that this project was plagiarizes or copy the other, I am ready to accept a sanction.

Semarang, 15 July 2015



PENDI

11.02.0055

## FOREWORD

Praise and Gratitude I prayed to God Almighty for His blessings and His mercy so I have completed this final project titled "Analyzing the Categories of English Words in a Sentence with Modified Left Corner Parsing Algorithm" just in time.

Finally, I was able to make a project as my graduation requirement. I completed this project for 4 months. To complete the final project is not easy, many obstacles when creating this project. But in the end I was able to finish well and on time.

In the preparation of this final project I gained a lot of guidance and input from various parties. Either directly or indirectly. Especially supervisor (Bu Shinta), parents (Budi Hartono and Ana), brother and sister (Ningsih and Ania Sari), and friends who are on the faculty of Computer Science. Thank you for your prayers, support and always give me motivation. I realize that this final project is still far from perfect, therefore any criticism and constructive suggestions so I needed.

## ABSTRACT

*English is the international language used all over the world to interact with each other. Understand basic word every word in the English language is necessary for the moment. Therefore, this project can help the user find the bottom of every sentence of English.*

*Project using left corner parsing algorithm and made with php programming language. Left corner parsing algorithm used as examiner data in the dictionary grammar has been made. The algorithm used in the check out line so a lot of that stuff, one left corner parsing algorithm. Left corner parsing algorithm is a joint of two pieces of the method, namely top-down and bottom-up. The assignment algorithm is to check every word in a sentence, then a match to the dictionary a collection of words, grammar against the results of the examination area. Every data dictionary grammar stored in the array, so that the process of examination of every word is checked in the array every grammar. The process of examination of this will show an output of said base is analyzed as adjectives, adverb, nouns, preposition, pronouns, verbs, conjunction, interjection and determiner.*

**Keywords :** *English Language, Grammar, Array, Left Corner Parsing.*

## **PREFACE**

This report is divided into six chapters, namely:

### **CHAPTER 1 INTRODUCTION**

This chapter contains a description of the background, scope, objective.

### **CHAPTER II LITERATURE STUDY**

This chapter contains the definition of the data Structure, array, left corner parsing algorithm, English grammar, grammar.

### **CHAPTER III PLANNING**

This chapter contains the plan of the project and project implementation time.

### **CHAPTER IV ANALYSIS AND DESIGN**

This chapter contains diagrams course of the program, and program flow charts.

### **CHAPTER V IMPLEMENTATION AND TESTING**

Contains the results of implementation of the overall system. In this chapter also included a few pictures listing program / coding.

### **CHAPTER VI CONCLUSION**

This chapter contains conclusions and recommendations from the results of the project report.

## TABLE OF CONTENTS

FOREWORD .....	iv
ABSTRACT.....	v
PREFACE.....	vi
CHAPTER I.....	1
INTRODUCTION.....	1
1.1. Background.....	1
1.2. Scope.....	1
1.3. Objective.....	2
CHAPTER II.....	3
LITERATURE STUDY.....	3
2.1. Data Structure : One-Dimensional Array.....	3
2.2.1. Left Corner Parsing Algorithm.....	4
2.3. English Grammar.....	4
2.4. Grammar .....	5
CHAPTER III.....	6
PLANNING.....	6
3.1. Research Metodology.....	6
3.2. Project Management.....	7
CHAPTER IV.....	8
ANALYSIS AND DESIGN.....	8
4.1. Analysis4.1.2. Flow Chart.....	8
4.2. Design.....	9
.....	10
CHAPTER V.....	11
IMPLEMENTATION AND TESTING.....	11
5.1. Implementation.....	11
5.2. Testing .....	18
CHAPTER VI.....	22
CONCLUSION.....	22
6.1. Conclusion.....	22
6.2. Further Research.....	22
REFERENCES.....	23
APPENDIX.....	24

## TABLE OF FIGURES

Figure 1:Flow Chart Program.....	8
Figure 2: input.....	11
Figure 3: delete.....	12
Figure 4: read the data txt.....	12
Figure 5: input save to array.....	13
Figure 6: database grammar save to array.....	14
Figure 7: compare and analyzing.....	16
Figure 8: save input to table array one-dimensional .....	17
Figure 9: if the data can not found.....	17
Figure 10: input display.....	18
Figure 11: after user input.....	18
Figure 12: output analyzing grammar.....	19
Figure 13: example other input.....	19
Figure 14: output two same word grammar.....	20
Figure 15: delete display.....	21



## TABLE OF TABLE

Table 1: one-dimension array.....	3
Table 2: Project Management.....	7

