PROJECT REPORT

Hash Table and Tree Linklist Combination for Phrase Searching in The Bible Using Nazief and Adriani Algorithms

Ronald Hutomo

09.02.0016

2013

FACULTY OF COMPUTER SCIENCE

SOEGIJAPRANATA CHATOLIC UNIVERSITY

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

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

Email: ikom@unika.ac.id

APPROVAL AND RATIFICATION PAGE

ROJECT REPORT

Hash Table and Tree Linklist Combination for Phrase Searching in The Bible Using Nazief and Adriani Algorithms

This project report has been approved and ratified by the Dean of faculty of Computer Science and Supervisor on January 10th 2013

With Approval,

Examiners,

Suyanto E.A, Ir, M.Sc
NPP : 058.1.1992.116

Supervisor,

R. Setiawan Aji Nugroho, ST., McompIT
NPP : 058.1.2004.264

Examiners,

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

Examiners,

Rosita Herawati, ST., MIT
NPP : 058.1.2004.263

Examiners,

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

Dean of Faculty of Computer Science,

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

STATEMENT OF ORIGINALITY

Here by signed,

Name : Ronald Hutomo

ID : 09.02.0016

Certify that this project was made by myself and not copy or plagiarizes 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, January 10th 2013

Ronald Hutomo

09.02.0016

FOREWORD

Thanks to God for the bless, I have been completed this project with title:
Hash Table and Tree Linklist Combination for Phrase Searching in The Bible Using Nazief and Adriani Algorithms.

In this opportunity, writer would thanks to:

1. My parents, Hutomo Untung and Lianawati and my brothers Henry Hutomo and Budianto Hutomo for their support, love, and pray.
2. Robertus Setiawan Aji Nugroho as my supervisor, for his advice, and ideas that inspired me.
3. All lecturers in Faculty of Computer Science.
4. All my best Friend in ikom and many more for support to finish this project. We are best friend forever.
5. IKOM SOEGIJAPRANATA CHATOLIC UNIVERSITY.

Finally,writer apologizes because this project is not perfect, Hopefully This project may be useful for everyone

Semarang, January 10th 2013

Ronald Hutomo
09.02.0016

ABSTRACT

Stemming words is used to remove suffixes has applications in text search, machine translation, document summarization, and text classification. For example, English stemming reduces the words "computer", "computing", "computation", and "computability" to their common morphological root, "comput-". In text search, this permits a search for "computers" to find documents containing all words with the stem "comput-".

In the Indonesian language, stemming is of crucial importance: words have prefixes, suffixes, infixes, and confixes that make matching related words difficult. The best algorithm for Indonesian stemming is Nazief and Adriani algorithm because it is developed by derivatives of Indonesian morphology rules that contain prefix, suffix, infix and confixes. This algorithm uses root words dictionary that support getting the right root words. After getting the root words, it will be searched in the data structures to find the result.

Keywords : stemming, Nazief and Adriani

TABLE OF CONTENT

TABLE OF FIGURE

TABLE OF TABLE