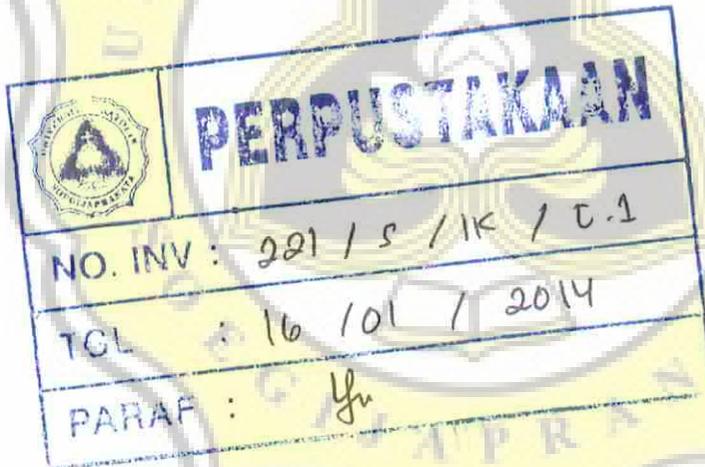




PROJECT REPORT

**Measuring Performance, RAM and Load
Speed on Chrome, Firefox and Opera Web
Browsers**



Ivan Sanjaya Susanto

07.02.0015

2013

**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>

Email: ikom@unika.ac.id

APPROVAL AND RATIFICATION PAGE

PROJECT REPORT

Measuring Performance, RAM and Load Speed on Chrome, Firefox and Opera Web Browsers

This project report has been approved and ratified by the Dean of
faculty of Computer Science and Supervisor on September 13th 2013

With Approval,

Examiners,

Supervisor,


R. Setiawan Aji Nugroho, ST., McompIT


Suyanto E.A. Ir, M.Sc

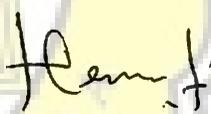
NPP : 058.1.2004.264

NPP : 058.1.1992.116

Examiners,

Examiners,


Hironimus Leong, S.Kom., M.Kom

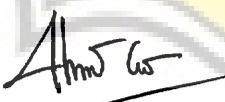

Rosita Herawati, ST., MIT

NPP : 058.1.2007.273

NPP : 058.1.2004.263

Examiners,

Dean of Faculty of Computer Science,


Shinta Estri Wahyuningrum, S.Si., M.Cs


Hironimus Leong, S.Kom., M.Kom

NPP : 058.1.2007.272

NPP : 058.1.2007.273

STATEMENT OF ORIGINALITY

Here by signed,

Name : Ivan Sanjaya Susanto

ID : 07.02.0015

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 on copy the other, I am ready to accept a sanction.

Semarang, September 13th 2013



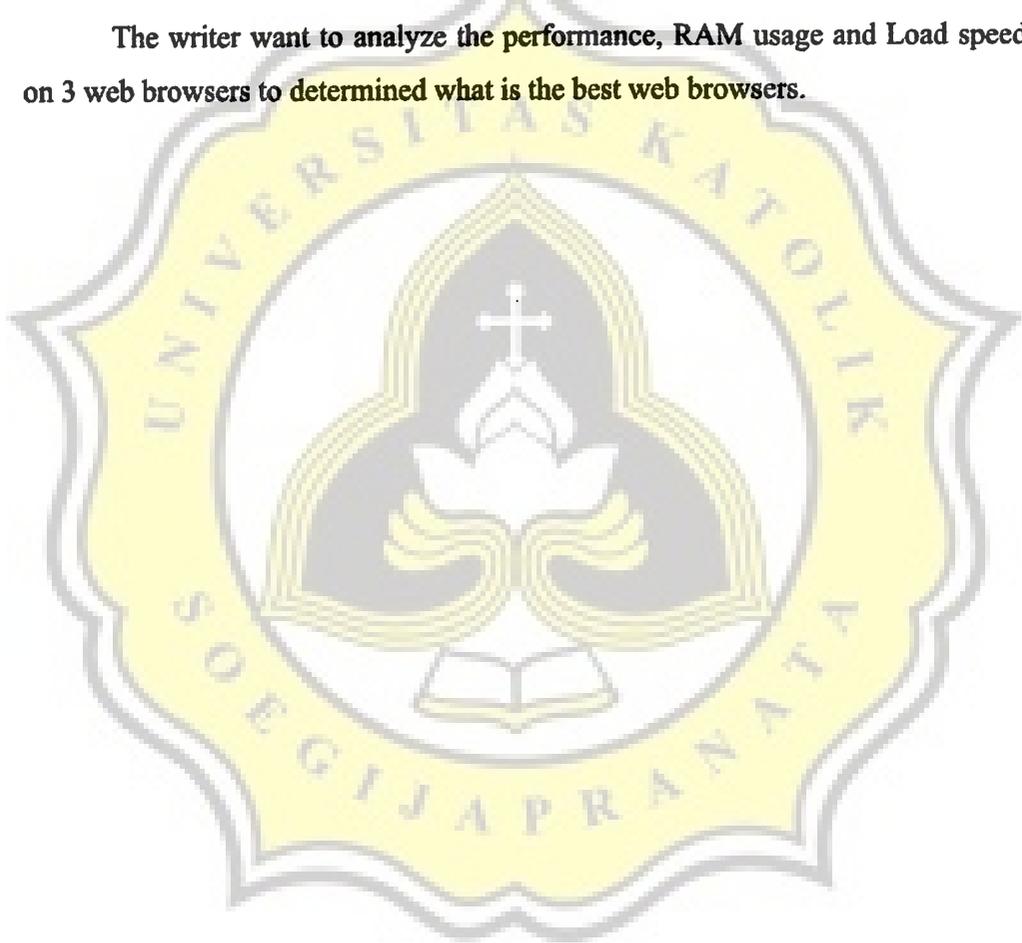
Ivan Sanjaya Susanto

07.02.0015

ABSTRACT

A Web browsers is a tool to access a webpage on the internet. In majority, only 3 names of the browsers used by peoples nowadays, Chrome, Firefox and Opera. For example. Firefox used by most users in Linux system, because they do not have to install it from the beginning because it is already part of the system. And of course, Firefox can be installed in any Operating System.

The writer want to analyze the performance, RAM usage and Load speed on 3 web browsers to determined what is the best web browsers.



FOREWORD

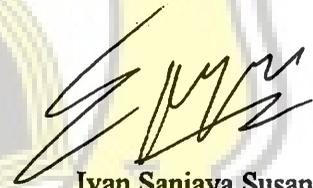
Thanks to God, I have been completed this project with title:
**Measuring Performance, RAM Usage and Load Speed on Chrome, Firefox
and Opera Web Browsers**

In this opportunity, writer would thanks to:

1. My families, for their support.
2. All lecturers in Faculty of Computer Science.
3. All my Friend in Ikom and many more for support to finish this project.
4. IKOM SOEGIJAPRANATA CATHOLIC UNIVERSITY.

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

Semarang, September 13th 2013



Ivan Sanjaya Susanto

07.02.0015

TABLE OF CONTENT

APPROVAL AND RATIFICATION PAGE.....	ii
STATEMENT OF ORIGINALITY	ii
ABSTRACT	iv
FOREWORD.....	v
TABLE OF CONTENT	vi
TABLE OF FIGURE	viii
CHAPTER I:INTRODUCTION	1
1.1 Background.....	1
1.2 Scope	1
1.3 Objectives	1
CHAPTER II:LITERATURE STUDY	2
2.1 Web Browsers	2
2.2 Web Browsers Examples.....	2
CHAPTER III:PLANNING	3
3.1 Research Metodologies	3
3.2 Time Table	3
CHAPTER IV:IMPLEMENTATION	4
4.1 How to Install/Upgrade Web Browsers.....	4
4.1.1 Brief Explanation.....	4
4.1.1.1 Google Chrome	4
4.1.1.2 Mozilla Firefox	4
4.1.1.3 Opera	4
4.2 Installation and Upgrade	6
4.2.1 Google Chrome	6
4.2.2 Mozilla Firefox.....	10
4.2.3 Opera.....	14

4.3 Settings.....	20
4.3.1 Basic Settings.....	20
4.3.1.1 Google Chrome.....	20
4.3.1.2 Mozilla Firefox.....	24
4.3.1.3 Opera.....	27
4.3.2 Advanced Settings.....	31
4.3.2.1 Google Chrome.....	31
4.3.2.2 Mozilla Firefox.....	38
4.3.2.3 Opera.....	45
4.4 Comparison.....	50
4.4.1 RAM Usage.....	50
4.4.2 Performance.....	51
4.4.3 Load Speed.....	53
CHAPTER V: CONCLUSION.....	55
REFERENCES.....	58

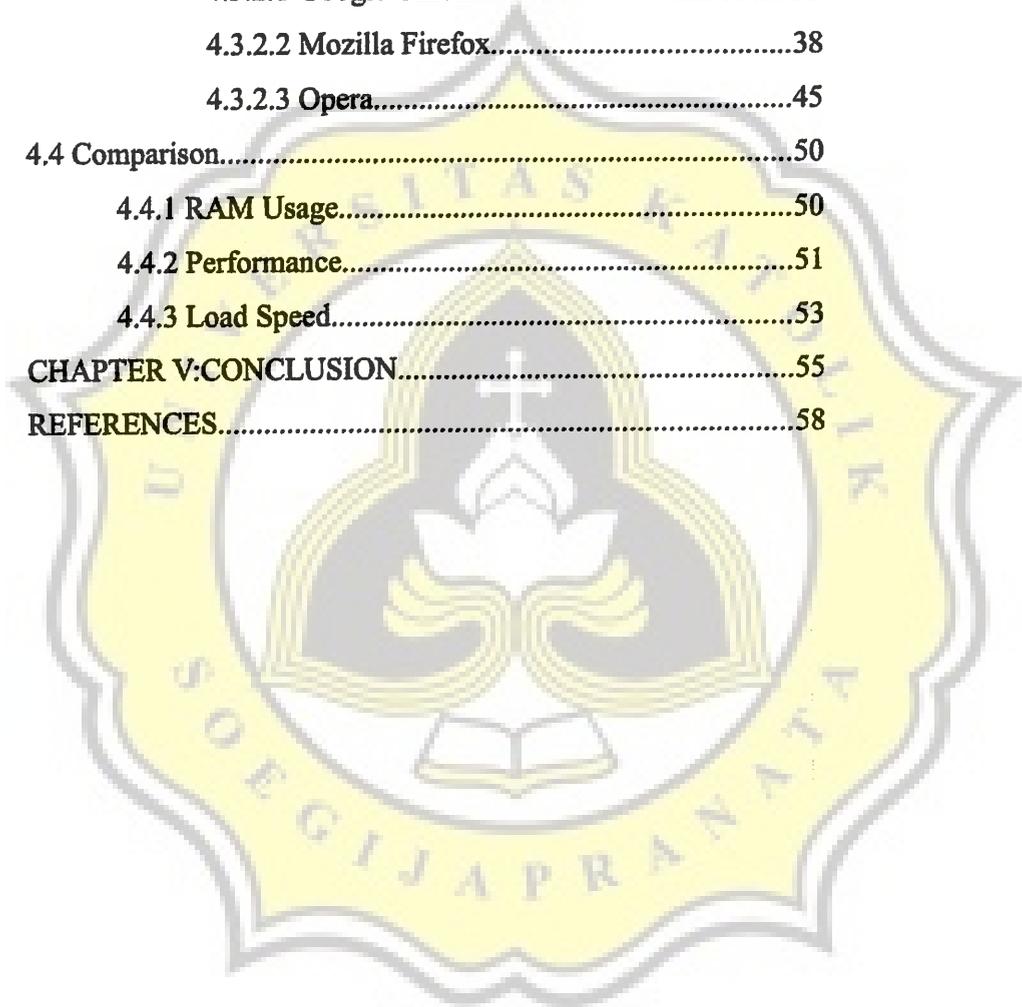


TABLE OF FIGURE

Figure 1 Time Table.....	3
Figure 2 Chrome Download Address.....	6
Figure 3 Chrome Download Button.....	6
Figure 4 Choose packages for Download.....	7
Figure 5 Terms of Agreement.....	7
Figure 6 Save File Option.....	8
Figure 7 Chrome Installation Through Software Center.....	8
Figure 8 Chrome Installation Through Terminal.....	9
Figure 9 Firefox Pre-Installed Version.....	10
Figure 10 Import key and Update System.....	10
Figure 11 Install Firefox.....	11
Figure 12 Add-on Compatibility Check.....	12
Figure 13 Incompatible Add-on will be Shown.....	13
Figure 14 New Version Installed.....	13
Figure 15 Opera Download Page.....	14
Figure 16 Download Button for Linux.....	14
Figure 17 Choose Linux Systems.....	14
Figure 18 Choose Opera Version.....	15
Figure 19 Choose Systems.....	15
Figure 20 Choose Version.....	16
Figure 21 Choose File Types.....	16
Figure 22 Opera Installation Through Terminal.....	17
Figure 23 Opera Installation Through Software Center.....	17
Figure 24 Installation Complete.....	18
Figure 25 Add key.....	18
Figure 26 Add repository.....	18
Figure 27 Update System&Install.....	19
Figure 28 New version of Opera Installed.....	19

Figure 29 Chrome Settings Option.....	20
Figure 30 Chrome Startup Page option.....	21
Figure 31 Set Homepage Address.....	21
Figure 32 Advanced Settings Option.....	22
Figure 33 Set Download Default Folder.....	23
Figure 34 Firefox Preferences Option.....	24
Figure 35 Firefox Preferences Menu.....	25
Figure 36 Set Option on Firefox Startup.....	26
Figure 37 Opera Preferences Option.....	27
Figure 38 Preferences Menu.....	28
Figure 39 Set Startup Page Option.....	29
Figure 40 Set Download Folder.....	30
Figure 41 Bookmark Manager Option.....	31
Figure 42 Import/Export Bookmark Option.....	32
Figure 43 Fonts Option on Chrome.....	33
Figure 44 Change Fonts option.....	34
Figure 45 Manage Password in Chrome.....	35
Figure 46 Chrome Store.....	36
Figure 47 Searching Result.....	37
Figure 48 Firefox Bookmark Manager.....	38
Figure 49 Change Fonts on Firefox.....	39
Figure 50 Password Manager.....	40
Figure 51 Firefox Theme Selector.....	41
Figure 52 Theme Instant Search.....	42
Figure 53 Theme Search Result.....	43
Figure 54 Theme Already Installed.....	44
Figure 55 Bookmark Manager.....	45
Figure 56 Change Fonts in Opera.....	46
Figure 57 Password Manager.....	47
Figure 58 Theme Manager.....	48

Figure 59 Choose Themes.....	49
Figure 60 Add Themes.....	49
Figure 61 RAM Comparison.....	50
Figure 62 Browser Speed.....	51
Figure 63 Load Speed Test.....	53
Figure 64 Features Comparison.....	54

