

PROJECT REPORT
SIMULATION FP-GROWTH ALGORITHM
AND HASH BASED ALGORITHM

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APPROVAL AND RATIFICATION PAGE

PROJECT REPORT

SIMULATION FP-GROWTH ALGORITHM

AND

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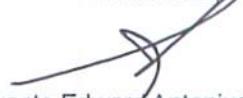
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This project report has been approved and ratified by the Dean of Faculty of Computer Science and Supervisor on 18 July 2014

With approval,

Examiners,



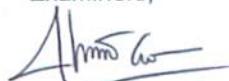
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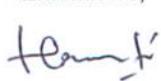
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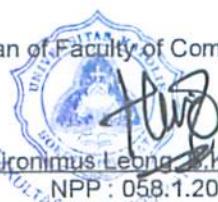
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STATEMENT OF ORIGINALITY

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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.

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ABSTRACT

FP-Growth Algorithm and Hash Based Algorithm is subgroup from Association Rule Algorithm, where the function is for determine the data association or Itemset which often appear concurrently in the data collection. The different between FP-Growth Algorithm and Hash Based Algorithm is the process of algorithm completion, where FP-Growth Algorithm use Tree and Hash Based Algorithm use Hash Table.

FP-Growth Algorithm in application contains 2 Iteration, where in First Iteration select items that have frequent more than min support value. And next step is order items in transaction. Then show FP-Tree Simulation, after that FP-Growth Algorithm began selecting items that frequently appear together with the use of FP-Tree. And from the process can get the result. Hash Based Algorithm contains 3 iteration, where in first Iteration select items that have frequent more than min support value. Second Iteration is input Itemset 2 Item to the Hash Table based on Hash Bucket Formula and selection Itemset 2 Item that have frequent more than min support value. The third Iteration is show Itemset 3 Item that have frequent more than min support value.

This application aims to help users in the process of completion of the FP-Growth Algorithm and Hash Based Algorithm, both in time optimization and process optimization. other than that this application can help the user in learning FP-Growth Algorithm and Hash Based Algorithm, because in this application there is also explanation of the steps of the program.

Keywords : Hash Based Algorithm, FP-Growth Algorithm, FP-Tree, Hash Bucket Formula

FOREWORD

I would like to say great thank you to My Jesus Christ for His Wisdom and His Big Ideas that make me able to complete this Project with title "Simulation FP-Growth Algorithm and Hash Based Algorithm" and always provides a way out in every obstacle I faced in preparing this project. Then I would thank to :

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Semarang, July 16th 2014



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TABLE OF CONTENT

Approval and Ratification Page.....	i
Statement of Originaly.....	ii
Abstract.....	iii
Foreword.....	iv
Table of Content.....	v
Table of Picture.....	vii
Table of Tables.....	ix
Chapter I Introdution.....	1
1.1 Background.....	1
1.2 Scope.....	2
1.3 Objective.....	2
Chapter II Literature Study.....	3
2.1 FP-Growth Algorithm.....	3
2.2 Hash Based Algorithm.....	6
Chapter III Planning.....	9
3.1 Methodology.....	9
3.2 Project Management.....	10
Chapter IV Analysis and Design.....	11
4.1 Analysis.....	11
4.1.1 Use Case Diagram.....	11
4.1.2 Class Diagram GUI.....	12
4.2 Design and Feature.....	14
4.2.1 Feature.....	14
4.2.2 Design.....	15
Chapter V Implementation and Testing.....	19
5.1 Implementation.....	19
5.1.1 Java Code.....	19

5.1.2 XML Code.....	21
5.2 Testing.....	22
Chapter VI Conclusion and Further Research.....	30
6.1 Conclusion.....	30
6.2 Further Research.....	30
References.....	31

TABLE OF PICTURE

Picture 2.1 FP-Tree Transaction T100.....	5
Picture 2.2 FP-Tree Transaction T200.....	5
Picture 2.3 FP-Tree All Transaction.....	5
Picture 2.4 FP-Tree Line End in A5.....	6
Picture 2.5 FP-Tree Line End in A4.....	6
Picture 2.6 FP-Tree Line End in A3.....	6
Picture 4.1 Use Case Diagram.....	11
Picture 4.2 Class Diagram GUI.....	13
Picture 4.3 Simulator Design.....	16
Picture 4.4 Input Page Design.....	16
Picture 4.5 View Page Design.....	17
Picture 4.6.....	18
Picture 4.7.....	18
Picture 4.8.....	18
Picture 5.1 Simulator Page.....	23
Picture 5.2 Input Page.....	23
Picture 5.3 View Page.....	24
Picture 5.4 Table Item.....	25
Picture 5.5 First Iteration.....	25
Picture 5.6 FP-Tree Simulation.....	25
Picture 5.7 FP-Tree End Line in A5.....	26
Picture 5.8 FP-Tree End Line in A4.....	26
Picture 5.9 FP-Tree End Line in A3.....	26
Picture 5.10 FP-Tree End Line in A1.....	26
Picture 5.11 Result FP-Growth Algorithm.....	27
Picture 5.12 Table Item.....	28
Picture 5.13 First Iteration.....	28

Picture 5.14 Table C2 (Hash Table).....	28
Picture 5.15 Second Iteration.....	28
Picture 5.16 Third Iteration.....	29

TABLE OF TABLES

Table 2.1 Data Transaction.....	3
Table 2.2 Frequent each Item.....	4
Table 2.3 Order Frequent Item.....	4
Table 2.4 Data Transaction Order.....	4
Table 2.5 Data C1.....	7
Table 2.6 Data L1.....	7
Table 2.7 Hash Bucket Formula.....	7
Table 2.8 Hash Table.....	8
Table 2.9 Data L3.....	8
Table 3.1 Project Management Schedule.....	10