PROJECT REPORT

Book Searching with Recommendation Using FP – Growth, Apriori and Clustering K – Means Algorithm

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APPRAVAL AND RATIFICATION PAGE
PROJECT REPORT

Book Searching with Recommendation
Using FP – Growth, Apriori and
Clustering K – Means Algorithm

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Hereby certify that the project I made was the result of masterpiece alone and it is not a plagiarism, except those started in print that it taken from other writing. If it is proved in later days that the project is the result of rubbing, hence I settle for sanction.

Semarang, 20 January 2011

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ABSTRACT

Book Searching with Recommendation is an application to find recommendation book on the same categories as user input or find the recommendation on another book that another user mostly lends together. This diagram makes the user find the title and number of location of a book in the library easily after getting the recommendation.

Book Searching uses a list of book data and transaction data from the library in a .txt database. This information is used to find the recommended book. After reading the data information from the txt file, the information is stored on a Tree and Link List as data structure in Apriori and FP-Growth algorithms and Link List if using K-Means Algorithm. Information at the data structure can be read to find the recommendation of user’s input. The output are recommended books and the number of places in the library.

Keyword: Book Searching, Recommendation, Apriori Algorithm, K-Means Algorithm, FP-Growth Algorithm
FOREWORD

The project of Book Searching with Recommendation Using FP – Growth, Apriori and Clustering K – Means Algorithm has given me a lot of new experience and knowledge especially about Graphical User Interface, Data structure and Algorithm. All work, failure, and success in finishing this project is an implementation of all that I have got in the past three and a half year.

I couldn’t finish this project and report without help from God and a lot of people. So in this opportunity, I would like to thank:

-My Lord and my saviour, Jesus Christ.
-My parents, Father and Mother and my family.
-Hironimus Leong, S.Kom., M.Kom as my supervisor for helping, guiding and giving me ideas and advice in finishing this project.
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-All of my love friends in IKOM, Aurelia, Saga, Pricilia, Linda, Fanny, etc, which help and support me to finish this project, and also for friends who have helped me in prayers.
-And also other people that can not be mentioned one by one.

Finally, I would like to apologize if the project is still many shortcomings. I look forward to suggestions and criticism.

Semarang, 20 January 2011

Inez Vioni H
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