

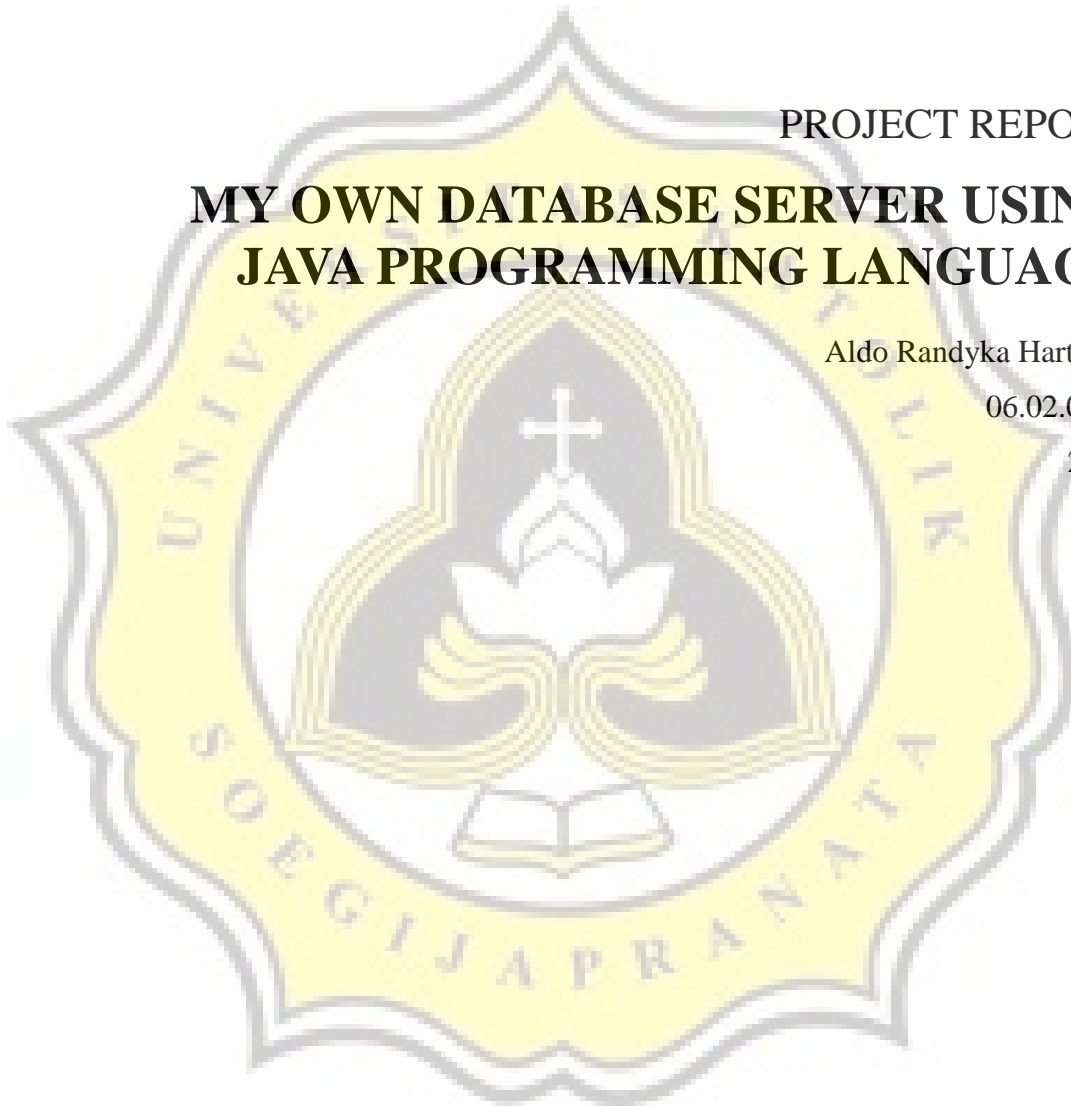


PROJECT REPORT  
**MY OWN DATABASE SERVER USING  
JAVA PROGRAMMING LANGUAGE**

Aldo Randyka Hartanto

06.02.0036

2011



**COMPUTER SCIENCE DEPARTMENT  
SOEGIJAPRANATA CATHOLIC UNIVERSITY**

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

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

[Email: ikom@unika.ac.id](mailto:ikom@unika.ac.id)

## ABSTRACT

*Nowadays, database is commonly used to manage and handle many data. Database Server is the main part to use database. Database Server consists of queries that used for all database operations. It must can identified each query before process it and apply that query for data in the server.*

*Database Server in this program identified query from users. That query grouped first (Create, Insert, Delete, Use, Show) before processed. After that, query start processed according to each section. Each Section has different function. Create, to make new databases or tables. Insert, to insert data into exists tables. Delete, to erase some datas from table. Use, to mount /use exists database before that database. Show, to preview databases/tables that already created.*

*Query is used to process the data that saved in file. Server open data's file and then process it using query. After that finish, server display the output or save modified data to the file.*

**Keywords : Database Server using Java**

# APPROVAL AND RATIFICATION PAGE

## PROJECT REPORT MY OWN DATABASE SERVER USING JAVA PROGRAMMING LANGUAGE

This project report already approved and ratified by Dean of Faculty Computer Science and Supervisor on January ,2011

With the approval,

Examiners,

Examiners,

Suyanto EA., Ir, M.Sc  
NIP : 058.1.1992.116

Rosita Herawati, ST, MIT  
NIP : 058.1.2004.263

Examiners,

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

Supervisor,

Dean of Faculty of Computer Science,

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

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

# STATEMENT

I, The Undersigned:

Name : Aldo Randyka Hartanto

ID : 06.02.0036

Here by certify that this project was made by my self 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'm ready to accept a sanction.

Semarang, January 17, 2011

Aldo Randyka Hartanto

NIM . 06.02.0036

# FOREWORD

I want to say thanks' for:

1. Jesus Christ, for the miracle and kindness because my Final Project with title "MY OWN DATABASE SERVER USING JAVA PROGRAMMING LANGUAGE" can be finished according to properly time.
2. Thanks to all my family for their pray and support.
3. Hironimus Leong, S.Kom, M.Kom as my supervisor, to help and give me a solution.
4. For all lecturers, teaching me and give me knowledge while I'm studying in Faculty of Computer Science.
5. For all my friends that always support me.

Semarang, January 14, 2011

Aldo Randyka Hartanto

# TABLE OF CONTENTS

APPROVAL AND RATIFICATION PAGE .....	ii
STATEMENT .....	iii
FOREWORD.....	iv
ABSTRACT.....	v
TABLE OF CONTENT.....	vi
TABLE OF FIGURE.....	vii
CHAPTER I INTRODUCTION.....	1
1.1 Background.....	1
1.2 Scope.....	1
1.3 Objectives.....	2
CHAPTER II LITERATURE STUDY.....	3
2.1 Data Structure.....	3
CHAPTER III PLANNING.....	5
3.1 Research Methodology.....	5
3.2 Project Management.....	5
CHAPTER IV ANALYSIS AND DESIGN.....	6
4.1 Analysis .....	6
4.1.1 Use Case Diagram .....	6
4.2 Design.....	7
4.2.1 Class Diagram.....	7
4.2.2 Details of each Class Diagram.....	8
CHAPTER V IMPLEMENTATION AND TESTING.....	10
5.1 Implementation.....	10
5.2 Testing.....	19
CHAPTER VI CONCLUSION AND FURTHER RESEARCH.....	22
6.1 Conclusion.....	22
6.2 Further Research.....	22
REFERENCES .....	23

## TABLE OF FIGURE

Figure 2.1 : Sample Tree .....	4
Figure 3.1 : Project Chart .....	5
Figure 4.1 : Use Case Diagram .....	6
Figure 4.2 : Class Diagram .....	7
Figure 4.3 : ServerCore Class .....	8
Figure 4.4 : CommandCore Class .....	8
Figure 4.5 : CreateCore Class .....	8
Figure 4.6 : InsertCore Class .....	8
Figure 4.7 : DeleteCore Class .....	9
Figure 4.8 : SelectCore Class .....	9
Figure 4.9 : ShowCore Class .....	9
Figure 4.10 : UseCore Class .....	9
Figure 5.1 : Program Start .....	19
Figure 5.2 : Program CreateDB and Use .....	19
Figure 5.3 : Program Create Table .....	19
Figure 5.4 : Program Insert .....	20
Figure 5.5 : Program Select All .....	20
Figure 5.6 : Program Select Column .....	20
Figure 5.7 : Program Delete .....	21
Figure 5.8 : Program Show .....	21