OPERATIONAL LEVEL ACCOUNTING SYSTEM OF PENSION DEPARTMENT OF OGDCL (OIL & GAS DEVELOPMENT COMPANY LIMITED) OF PAKISTAN

BAHRIA UNIVERSITY ISLAMABAD
MFAA
Acc 70470
1004

DEVELOPED BY:

MOAZZAM KAMRAN FAYYAZ
MCS (244021-008)

Supervised by
Mr. Zarrar Javaid

Department of Computer Sciences

BAHRIA INSTITUE OF MANAGEMENT & COMPUTER SCIENCES ISLAMABAD
Bahria University Islamabad

IN THE NAME

OF

ALLAH

THE MOST

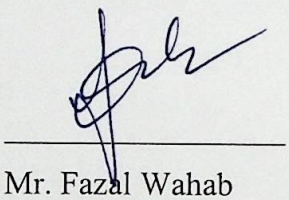
BENEFICENT

THE MOST

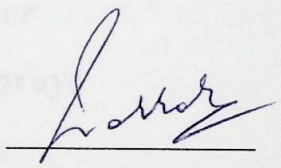
MERCIFUL

CERTIFICATE

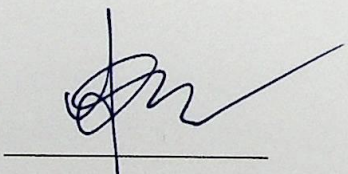
We accept the work contained in this report as confirming to the required standard for the partial fulfillment of the degree of **MCS.**



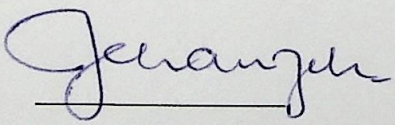
Mr. Fazal Wahab
Head of Department



Mr.Zarrar Javaid
Supervisor



Mr.Fazal Wahab
Internal Examiner



Mr.Jahanzeb Ahmed
External Examiner

DEDICATIONS

I dedicate
this project
to my
Loving Parents and all Teachers in my whole educational
career
whose prays
are
always with me
and
my success
is only due to them

ACKNOWLEDGEMENTS

First of all I am grateful to **Almighty Allah**. Lord of Creations, of our lives and of everything in the Universe and **His Holy Prophet Muhammad (S.A.W),** Whose blessings enabled us to perceive and pursuit higher ideas of life, who has given us the courage insight and knowledge to complete this project.

I would like to acknowledge the help of persons who helped me lot in my project and in my educational career that is "Mr. Zarrar Javaid" for supervising me in this project and his lots of encouragement, his devotions and his great advices during this project and as well as in my educational stay during MCS degree.

I would also like to thank "Mr. Saleem Ahmad –Deputy Chief (Computer section) OGDCL" and "Mr. Fazal Imdad – Senior Accountant (OGDCL) for helping me in the Project. I would also like to mention the name of "Mr. Zarrar Javaid" again whose guidance especially in documentation skills give me lot of knowledge and power in developing the professional documents in my professional as well as student life.

Finally, I would like to acknowledge Bahria University for giving a professional sense to me and forwarding me to the professional and practical life with full strength. I also acknowledge here that it is the university which has opened new horizons and universe for me to conquer and to seek knowledge, applying my abilities and skills.

Moazzam Kamran Fayyaz

ABSTRACT

With the passage of time, progress of science by leaps of bounds in the life of human being is shaping tuning and turning towards luxury. Human being is busy to mold the life towards the ease not only in his home but also in the offices. With the evolution of computer science the concept of Databases took birth. Now modern trend of Databases is setting. Its growth in Organization to form their own Databases to make work easy, fast and shareable with help of computers. On the bases of the Database, an administrator is the key person who looks after the Database that's why the idea of administrator is stronger then the previous role he performed, which proposed that each activity performed in the Database should be in his awareness and he could perform his tasks accordingly i-e every activity should be monitored, performed and processed by the administrator. I tried to work in this field and named this software as "Accounting system of Pension Department of OGDCL (Oil & Gas Development Company Limited)".

Moazzam Kamran Fayyaz

TABLE OF CONTENTS

Chapter 1 Introduction 11

1.1 Organization overview 12
1.2 Project Background 13
1.3 Project overview 14

Chapter 2 System Analysis 15

2.1 Operations/Functions of existing System 16
2.2 Problems in Existing System 17
2.3 Analysis Techniques 18
2.4 Process Modeling 19
2.4.1 Context Diagram 20
2.4.2 Data Flow Diagram (DFD) 21
2.5 Entity-relationship diagram (E-R Diagram) 22

Chapter 3 Proposed Systems 23

3.1 Major Objectives of New system 24
3.2 Complete review of proposed system 28

Chapter 4 Logical Design of System 32

4.1 Relations 33

Chapter 5 Physical Design of system 42

5.1 Description of Tables 43
5.2 Tools and Technologies used in System 48

Chapter 6 Implementation & Future Enhancement 50

6.1 System Implementation 51
6.2 Testing 51
6.1.1 Unit testing 51
6.1.2 Integration testing 51
6.1.3 System testing 51
6.1.4 Accepting Testing 52

6.1.5 Hardware Testing 52
6.1.6 Software Platform Testing 52

6.3 Installation 53
6.3.1 Parallel Installation 53
6.4 Training and Supporting users 53

6.5 Future Enhancement 54

Chapter 7 User Manual 55

References 66

List of Figures

Figure 2.1	Symbols	19
Figure 2.2	Context Diagram	16
Figure 2.3	Data Flow Diagram	21
Figure 2.4	E-R Diagram	22
Figure 4.1	Department-Employee	33
Figure 4.2	Designation-Employee	34
Figure 4.3	Employee-Pensioner_info	35
Figure 4.4	Pensioner- Pensioner_info	36
Figure 4.5	Vouchers-Pensioner_info	37
Figure 4.6	Pensioner-Banks	38
Figure 4.7	Pensioner-Ledger	39
Figure 4.8	Scroll-Ledger	40
Figure 4.9	Scroll-Vouchers	41

List of Tables

Table 5.1 Employee 43

Table 5.2 Pensioner 44

Table 5.3 Pensioner_info 45

Table 5.4 Banks 45

Table 5.5 Departments 46

Table 5.6 Designations 46

Table 5.7 Scroll 46

Table 5.8 Vouchers 47

Table 5.9 Ledger 47