

**COMPUTER APPLICATION TO DRUG
REVOLVING FUND SCHEME
MANAGEMENT, (A CASE STUDY OF NIGER
STATE DRUG REVOLVING FUND SCHEME)**

BY

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SCIENCE,
FEDERAL UNIVERSITY OF TECHNOLOGY
MINNA.**

SEPTEMBER 2001.

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**A PROJECT SUBMITTED TO DEPARTMENT OF
MATHEMATICS/COMPUTER SCIENCE, FEDERAL
UNIVERSITY OF TECHNOLOGY, MINNA IN PARTIAL
FULFILMENT OF POST-GRADUATE DIPLOMA IN
COMPUTER SCIENCE.**

SEPTEMBER 2001.

APPROVAL SHEET

This Project has been duly supervised, examined and is in fulfillment of the requirement for the Post-Graduate Diploma in Computer Science of the Federal University of Technology, Minna.

PROJECT SUPERVISOR

MR. L. N. EZEAKO

DATE

HEAD OF DEPARTMENT

DR. S. A. REJU

DATE

EXTERNAL EXAMINER

DATE

DEDICATION

This project is dedicated to Almighty ALLAH who has given me the health, strength and ability to go through the programme.

ACKNOWLEDGEMENT

I wish to begin by expressing my gratitude to Federal university of Technology Minna and the Department of Mathematics and Computer science of FUT in particular for the opportunity given to me to undergo PGD programme in Computer Science. I am most grateful to Mr. L. N. Ezeako my able Project Supervisor who had taken time and pains in reading through this project in draft form and with his expertise, patients and understanding encourages and helped in no small way to the successful completion of this project.

I am equally grateful to Dr. S. A. Reju the Head of Department whose untiring effort and unreserved commitment has resulted in a high standard of academic performance for which the department and her products are known.

I must also express my profound gratitude to Prof. K. R. Adeboye, Mall. Audu Isah, Prince R. O. Badamosi, Mall. Hakimi Danladi, Dr. Yomi Aiyesimi, Messers Kolo Raimi, Dr. Akin Wande and all other lecturers of the department who through the dissemination of their wealth of knowledge had direct or indirect role in this material.

My sincere gratitude goes to my parents and all members of my family for their understanding, and cooperation throughout the period of this programme.

ABSTRACT

The importance of simplifying and speeding up tasks in every aspect of life has made computer application very imperative in virtually all aspects of human endeavor. Pharmacy is no exception. The Drug Revolving Fund Scheme (DRFS) is a system where by drugs procured by a health facility/organization are dispensed at affordable price to patients in a manner that will guarantee the replacement of the same quality and quantity of drug, so that the process ensures constant availability of quality drugs in the facility at all times.

In this project, using Niger State Drug revolving Fund Scheme (NSDRFS) as a case study a computer application was designed using Visual Foxpro 6.0 to ensure timely and accurate report for quality decision by the management of the NGSDRFS which will result in better drug management and greatly increase the NGSDRFS capabilities, productivity and efficiency.

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CHAPTER ONE

GENERAL INTRODUCTION

1.1. THE COMPUTER

The computer is defined as an electronic machine, which accepts data and input, process and stores the data to give desired output as information.

The computer which is no longer a luxury but a necessity has taken over most offices works, schools and likewise homes.

The computer generally performs three functions;

- i. Accepts data
- ii. Process data and
- iii. Output data

Data, which can come in various forms as words, images, numbers and sounds can be entered into a computer through input devices like mouse, keyboard, joystick, scanner and even though voice commands. It is then processed through the Central Processing Unit (CPU) and the result communicated through the output unit like the monitor or printer.

1.2. THE COMPUTER GENERATIONS

Since the computer and computerization has however been the order of the day, its therefore imperative to talk about its origin and development.

Computer generation is a term to describe the major technological advances in the development of computers.

FIRST GENERATION

First generation programmable electronic computers dating from the early 1940's into 1950's were general purpose machines using vacuum tubes for the Central Processing Unit. Its very large and could only handle up to 20,000 bits of information with the speed of 100,000 additions per seconds.

The most popular model of the first generation computer was the IBM 650 developed in 1954.

SECOND GENERATION

In the second generation computers of the mid 1950's to the mid 1960's, vacuum tubes were replaced by individual transistors, which enabled greater capacities and faster speed up to one million operations per second.

The most popular model of this generation is the IBM 1401.

THIRD GENERATION

These machines were supplanted by the third generation computer of the mid 1960's and 1970's in which the use of silicon micro chip to house thousand of effective transistors miniaturized the electronics by a factor of a thousand.

The most popular model of this generation was the IBM 360. The circuitry (Hybrid Circuitry) was used in IBM 360 series and it requires low voltage, produces very little heat and as more reliable.

FOURTH GENERATION

In the 1980's, the introduction of a very large scale integration (VLSI), whereby many thousands of transistors and thousands circuitry of microscopic size can be manufactured on a small single silicon chip, has revolutionized both the size and design of fourth-generation computer.

A major model of this generation is the IBM 370 series.

FIFTH GENERATION

The concept of the fifth generation computers utilizes the full potential of VLSI in enabling ARTIFICIAL INTELLIGENCE to be incorporated. Such computers whose development began in the 1980's will be able to work and think like the human. They will be useful, for example, in tactics, in the armed services, in diagnostic medicine and in literate translation from one language to another; they will also be the kernel of electronic office.

We are still employing the fifth generation with various improvements. We have chips of higher capacity like Pentium, AMD, and Athlon processor.

1.3 DRUG REVOLVING FUND SCHEME

Drug Revolving Fund Scheme is one of the two components of Essential Drug Programme; the other component is essential drug list and formulary. The concept of essential drugs advocates that, despite limited resources, developing countries can extend the accessibility of the most needed drugs to greater majority of the population by implementing their health career programmes with selected list of basic or essential drugs.

Essential drugs have been defined by the World Health Organization (WHO) as those drugs that satisfy the health care needs of the majority of the population. For effective health care system to exist these drugs should be available at all times in adequate quantities and in the appropriate dosage forms at all levels of the health care system. In order to ensure availability of essential drugs at all times in the health care system the Drug Revolving Fund Scheme is employed.

The Drugs Revolving Fund Scheme (DRFs) is a process whereby drugs procured by a health facility or organization are dispensed at affordable price to clients/patients in a manner that will guarantee the replacement of the same quality and quantity of drugs, so that the process ensures constant availability of quality drugs in an establishment at all times.

1.4. STATEMENT OF THE PROBLEM

Its known that health is wealth, there should be the right and quality medication prescribed for each ailment. It's usually found out that some patients lack enough and quality drug at their disposals especially those in the Government Hospitals.

Since the priority of every Government is for the well being of her citizen, and also the major reason why the Drug Revolving Fund Scheme (DRFs) is created is to ensure constant availability of quality drugs in an establishment at all times. Its therefore imperative that a system should be built which adequately manages and monitor the good intention of the DRFs because of the limited capability of human when it comes to regulation, stocking and controls.

1.5 AIMS AND OBJECTIVE OF THE PROGRAM

- i. Examine the suitable application programs to meet the need of Niger State Drug Revolving Fund Scheme.
- ii. Surveying of suitable application program to meet the organization.
- iii. Analyzing the hardware requirement of the suitable software.
- iv. Selection of optimal computer system that meets the hardware requirement of the soft ware.

1.6 SCOPE AND LIMITATION

The scope of this project is to cover the DRFS of Ministry of Health Minna.

While the Limitation of the study includes the followings:

1. The study is limited to the activities of the DRF at CMS and the Headquarters of the Ministry of Health Minna.

For information and Data utilize from the services areas is limited to such delivered by staff from the service areas.

The DRF Scheme is a subset of the Ministry of Health Minna and its data collection is limited to available fund provided for running cost of the DRF.

CHAPTER TWO
BACKGROUND OF THE STUDY

2.1 EVOLUTION OF DRUGS

Drug has a strategic position in Health Care Delivery Services. They make health care credible because they can cure diseases, relieve symptoms, diagnose disease and alleviate suffering. The psychological satisfaction produced by drugs creates a favourable environment in which preventive and educational elements of health care can be built with consequent further improvement in health.

In 1929 when penicillin was discovered, drug was seen as a magic bullet and since then there has been an increasing expectation on the wonders drug can make. In the late sixties and early seventies there was an increase in the number of marketed drugs in the world market but, that increase was not matched by a proportional improvement in health, particularly in developing countries. If anything the indiscriminate use of multiple drugs (poly pharmacy) in treatment led to an increase in frequency of drug induced diseases. It was preceded by a situation whereby drugs are procured with little regard to the needs and priorities of health care of the population, availability of drug in hospitals was largely a response to the sales promotional activities of manufacturers and bears little relation to the actual needs of the population.

In the mid seventies, despite flood of drugs in the world market, some developing countries lack basic essential drugs in their hospitals.

Around the same period new diseases began to emerge creating demands for additional and more specialized medicines and elements of drugs abuse emerge on scene. Drug procurement and distribution began to be hampered due to dwindling resources, lack of foreign currency, planlessness, decadent implementation of programme, political and social instability. Government capacity at all levels was over stretched. In Nigeria it became difficult for Government to allocate five percent of its total budget to Health Sector as recommended by WHO and couple with facts it became difficult for resources allocated to health establishment to allow for efficient management of the sector leading to hospitals, eventually becoming mere consulting clinics.

In view of the above development, simply summarized as inadequate funds for essential needed drugs, drug procurement with little or no regard to health needs of the population, increasingly large number of marketed drugs which did not match with improvement in health care, weakness in drug administration and drug quality and stock control, the 28th World Health Assembly of WHO in 1975, approved the concept of essential drugs and by 1977 WHO produced the first model of list of essential; drugs lists which was the basis of Drug Revolving Fund Scheme. By 1988 above 100 countries had and were using their own lists of essential drugs.

In Nigeria, it is equally relevant to state that the introduction of Structural Adjustment Programme (SAP) in 1980's increased duty on both Pharmaceutical raw materials and finished products, which further aggravated the crises in the drug supply system and pushed

drug prices beyond the reach of most Nigerians leading to inequity in accessibility. The inability to enforce the pharmacy and poisons laws appropriately led to chaos in the drug management and supply.

The situation ultimately sets for the introduction of National Health Policy and National Drug Policy with the goal of redressing Nigeria myriad health problem.

With the WHO introducing the concept of essential drug programme, Nigeria made it as its national drug policy and decree 43 of 1989 was to give a legal backing to the essential drug list and consequently the drug revolving fund scheme.

The Government of Niger State introduced the cost recovery programme in all its health institutions in 1985, which was later upgraded into Drug Revolving Fund programme in 1989.

MANAGEMENT

The SDRFS is made of a committee, headed by the Permanent Secretary Ministry of Health. The composition of the committee is as follows:

- | | |
|--|------------|
| - Permanent Secretary Ministry of Health | Chairman |
| - Director Pharmaceutical Services | Controller |
| - Director Medical Services | Member |
| - Director Nursing Services | " |
| - Theater Nurse i/c G. H. Minna | " |
| - Chief Laboratory Officer | " |
| - Head of Hospital services G.H. Kontagora | " |
| - DRF Accountant | " |
| - Pharmacists i/c CMS - | Secretary |

The DRFS act as the controller. The committee meet on quarterly basis or when the need arises to deliberate on the activities of the scheme with a view to moving it forward.

2.2 FUNCTION OF THE DRFS

The DRFS is to procure essential drugs and other hospital consumables for Health Institutions under the State Ministry of Health for dispensing at affordable price to clients/patients in a manner that will guarantee the replacement of the same quality and quantity of drugs so that the process ensures constant availability of drugs/hospital consumables in all the State Health Institutions at all times.

To achieve the above, the committee:

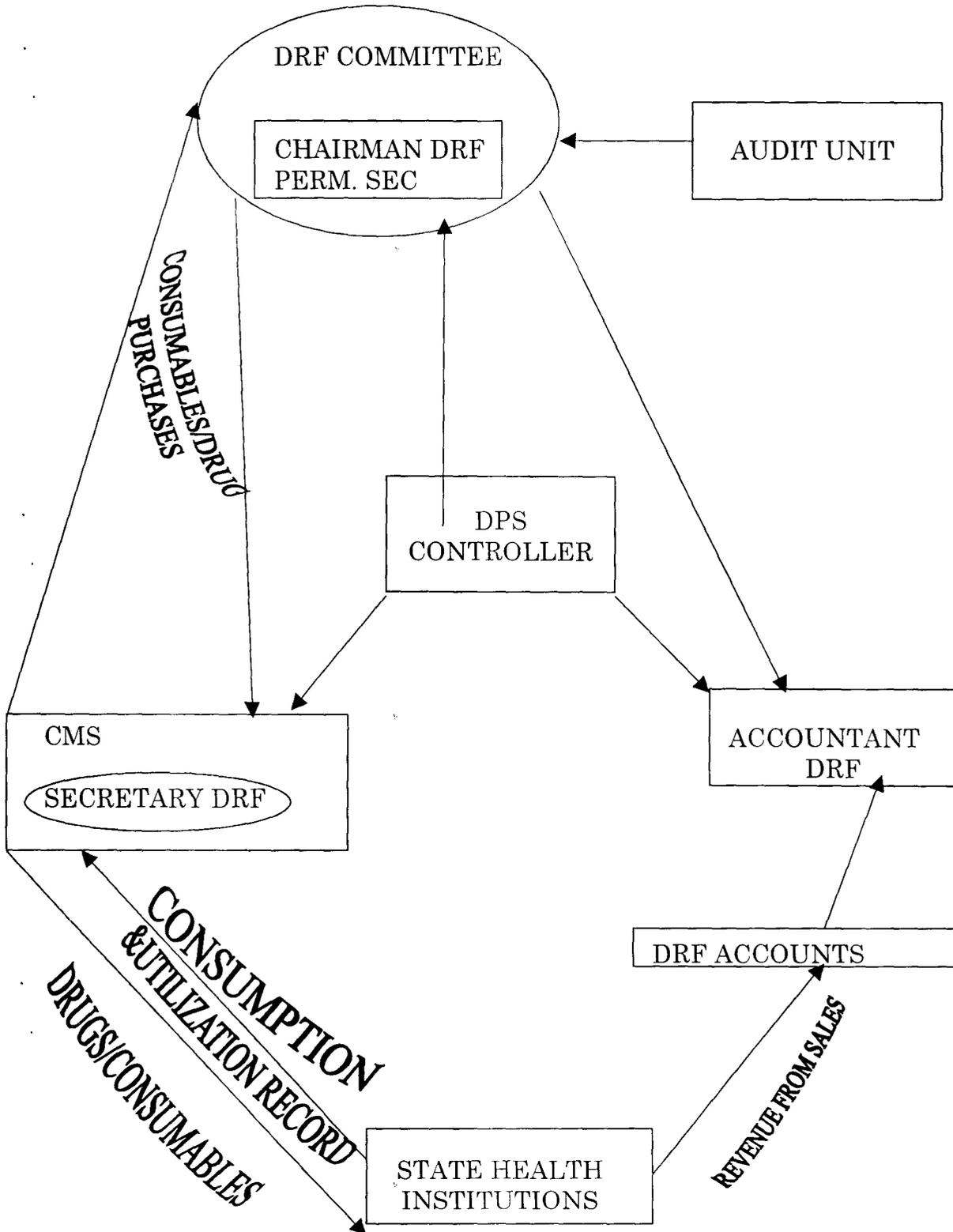
- Complies and review the State essential; drugs and other hospital consumables list
- It make purchases of required essential drugs and hospital consumables
- It put in place appropriate machinery to ensure collection, banking and utilization of funds generated from its services.
- It ensures the smooth running of the scheme
- It request from time to time funds or stocks from the State Government to augment the DRFS.
- It forward to the Ministry individual/institution found wanting in performing his/her responsibilities with regard to the DRFS.
- It suggest to the Ministry ways to improve health services in the State.

Drugs are purchased initially by the State Government and when ever there is need to augment the DRFs, such drugs are stored in the State Central

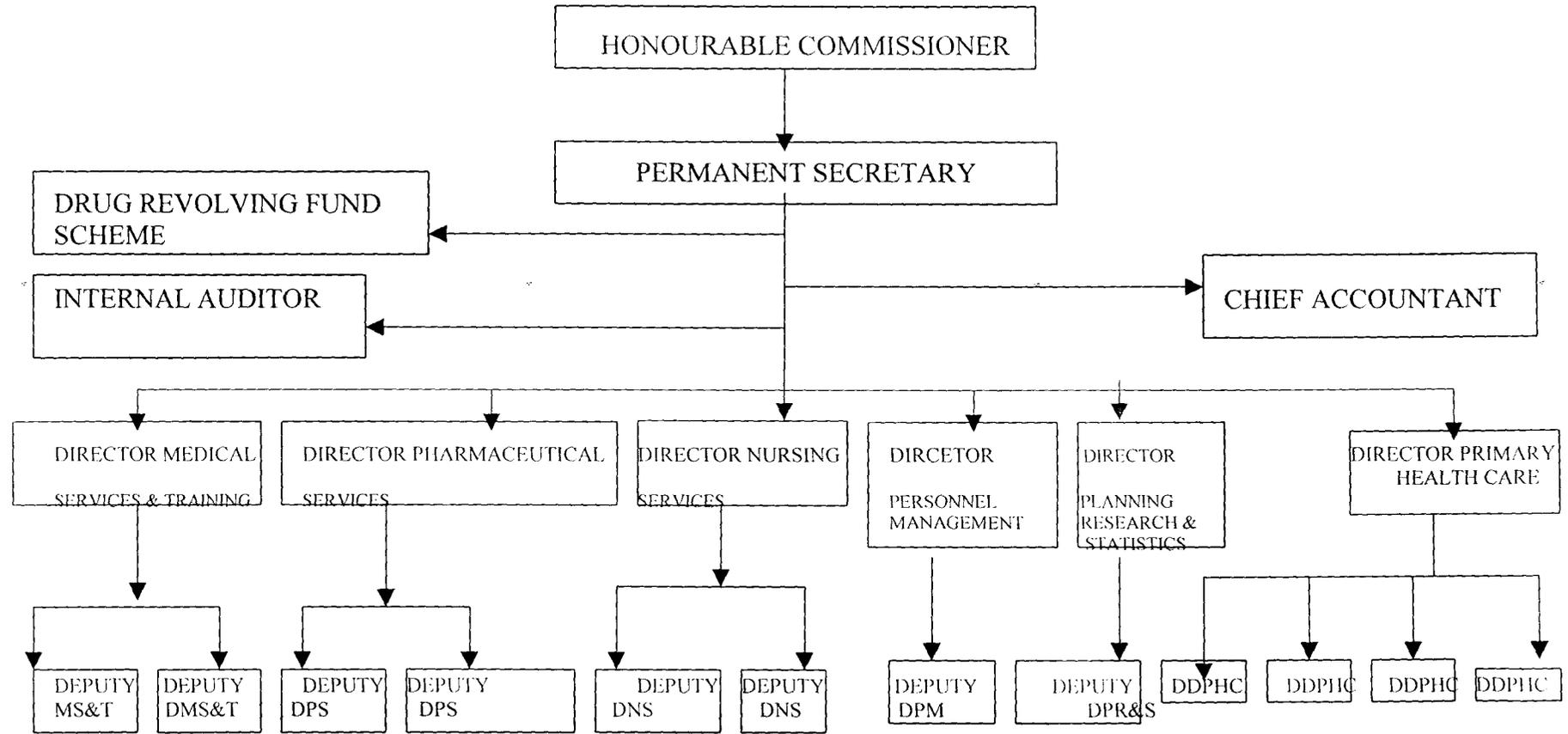
Medical Stores. Initial stock is provided to all the health institutions and on selling/dispensing to the clients/patients, the revenue generated on daily basis is banked in the nearest SDRF Bank account. At the end of the month such monies are remitted to the Central Account of the Scheme in Minna in form of Bank draft.

Whenever there is a fall or any of the essential item is out of stock the committee makes purchases to replenish such item with the funds so generated by the scheme. Through this system the scheme revolves.

DRUG REVOLVING FUND SCHEME ORGANOGRAM



NIGER STATE MINISTRY OF HEALTH
ORGANIZATIONAL STRUCTURE AT THE HEADQUARTER MINNA



CHAPTER THREE

SYSTEM ANALYSIS AND DESIGN

3.1. SYSTEM ANALYSIS

System analysis is the practice of evaluating an existing system to see how it works and how well it meets the users needs.

This practice involved examining an already existing system for the new system to be introduced. The method is used with the primary aim of obtaining complete and adequate information, which will help in the development and design of a new system. The analysis helps in determining how best to use computer with other resources to perform tasks, which meet the information needs of an organization.

Several methods are involved in getting the analysis and other processes are involved in the investigation of the system to ascertain effectively how it works.

Some fact finding techniques for gathering information include observation, record searching, sampling, questionnaire and interviewing.

3.2. FEASIBILITY STUDY

Feasibility study is the study of a system to determine where a solution to the problem is feasible. There should be the need to identify reasons, which justifies the development of the new system or favours non-execution of the project. This is to prevent wasting of efforts and large amount of money, if the project is too large, too uncontrollable, or simply impossible to carry out. If

several alternatives seem to be realistic in their potential costs and benefits, the project proceed to the next phase.

The objectives that were achieved.

1. UNDERSTANDING THE PROJECT: Interview and researches were conducted to determine the attainment of the project. Under this certain vital questions are asked.
 - i. Why did the problem occur?
 - ii. Why were the present methods adopted?

This help to spells out the strength and weakness of the existing system.

2. KNOWING THE SCOPE: Its quite necessary to know the size of this project so that an estimate of time to be allotted to it could be known. This will help in knowing the work force to be designated to the work for development and implementation.
3. ASSESSING THE COST AND BENEFIT OF THE PROPOSED SYSTEM: Before embarking on any project, its important to know the cost implication of it and also know the benefits to be derived from it. The financial involvement includes the training of the staff, technical, financial and operation feasibility of alternative approaches.

Everything find were documented and sent to the Head of Department as recommended and proposal for acceptant of the proposed system.

3.3. METHOD OF RESEARCH

Several method were used in the investigation and also the gathering of information. The following method were used in the research work.

- i. Observation: The existing manual system was studied and several faults were noted in it.
- ii. Record Keeping: The main purpose of this is to establish quantitative information. It was found out that the departmental objectives are not fully achieved and likewise the information needed for decision making is not readily available when it is required.
- iii. Interviewing: This was the most satisfactory of all the ways used to obtain the information. The staff were interviewed about the objectives of their departments, constraints, allocation of duties, and the problems encountered usually using the existing system.

3.4. SYSTEM DESIGN, SPECIFICATION AND PROCEDURE

SYSTEM DESIGN: It's the process of planting a new systems based on the findings of a system analyst. It's the use of an engineers creative ability and sense in organizing a logical bit, literally feasible procedure for a computerized system. Here the system analyst by applying his judgment, skill, and knowledge can interpret the requirement specification to create one or more system specifications.

3.4.1 GENERAL SYSTEM DESIGN.

The general system design includes the flowchart (procedure) a written explanation (pseudocode). For this study, loading (programming) is used to depict the representation of the project.

3.4.2. DATABASE DESIGN

Database design is the base of any system. It contains the data or information necessary to produce output., it is also known as file design.

The database file design includes the entire database files used throughout the system for the proper storage of the activities of the Drug Revolving Fund Scheme.

3.5. COST AND BENEFIT ANALYSIS

3.5.1. COST ANALYSIS

The cost analysis is the analysis of the financial involvement in the development of the DRFS software. This is the detail expenses that is required to put the software under development into actual implementation. It is quite important to note the cost implication so that the development will not be terminated prematurely. At times it is difficult to qualify at best, but must be done in order to estimate the financial and operational impact within the organization. Below is the breakdown of the cost of implementing the DRFS software.

3.5.2. DEVELOPMENT COST

S/NO.	Description of Items	Units	Rate	Amount
1.	System Analysis and Design	6 weeks	7000.00	42,000.00
2.	Software Development	8 weeks	6000.00	48,000.00
3.	Equipment procurement	Lot		150,000.00
4.	Installation	Lot	25,000.00	25,000.00
5.	Training of staff (s)	6 weeks	7000.00	42,000.00
TOTAL COST ON ITEM A				307,000.00

3.5.3. OPERATING COST

S/NO.	Description of Items	Units	Rate	Amount
1.	Supplies of computer accessories and stationeries.	Lot	80,000.00	80,000.00
2.	Equipment maintenance	Lot	55,000	55,000
3.	Application software as may be required	Lot	160,000	160,000
4.	Labour	Lot	30,000	30,000
TOTAL COST ON ITEM B				325,000.00

Grand total A and B = #632,000.00

3.5.4. BENEFIT ANALYSIS

The benefit analysis of any management information system is quite much.

The aim of the DRFS which is to make drugs available at all time and at affordable cost is highly upheld. It functions to enable the top management to make high and quality decisions. It result in more effective project management.

The DRFS software will ensure a timely and accurate report and also supply to the affected Government approval centers under the DRFS.

It also enables proper record keeping and the good accounting and stewardship.

It reduces fatigue and requires less of human effort.

CHAPTER FOUR

PROGRAMMING DEVELOPMENT/IMPLEMENTATION

4.1. CHOICE OF PROGRAMMING LANGUAGE

programming can be defined as writing a sequence of instruction for accomplishing specific tasks in a specific programming language.

The choice of programming language depends on the nature of tasks to be performed. For instance, this project has to do with records keeping. Therefore, the programming language used is Visual FoxPro 6.0.

Visual FoxPro is a powerful, interactive data management tool, and you can also access the full power of Visual FoxPro by creating applications.

4.2. FEATURES OF PROGRAMMING LANGUAGE CHOSEN

Visual FoxPro 6.0 has the following features.

- a. Provides procedural and object oriented programming techniques i.e. Visual FoxPro language elements and event model, and building applications.
- b. Provide facilities for setting up tables, indexes, and database for effective application development.
- c. Provide facilities for creating forms, menus and toolbars that make up interface.
- d. Provides facilities for compiling, debugging and optimizing as well as incorporating queries and reports into your applications.
- e. Enhance applications by enabling them use by multiple users, taking advantages of OLE and Active X etc.

4.3. STARTING THE SYSTEM

The system is made up of three installation floppy disks.

Insert the disk 1 into the floppy drive and access the floppy drive, double click on setup EXE, follow the instructions to install the system.

However, to be able to access the system, click start, move to settings, click on taskbar, click add, click browse, click on Drug folder, click DRUD, EXE, click O.K, click Next twice, and click finish, click O.K. then click start and click on Drug EXE, then type the password which is DRUG and type in other LOGIN INFORMATION the click O.K.

4.4. MENU STRUCTURE

The menu structure is made up of the following

File	Report	Quit
{ Procurement Disbursement	{ Drug Procurement Drug Disbursement	

The main menus are File, Report and Quit while the submenus are Procurement, Disbursement, Drug procurement and Drug disbursement.

4.5. EXIT THE PROGRAM

To exit the program, the following steps are required.

- Click Quite from the main menu
- Click Yes from the dialogue box to confirm

Then the program will be closed.

4.6. REQUIREMENT SPECIFICATIONS FOR THE NEW SYSTEM

The specification below will be adequate for the proposed system.

Pentium II – 450 MMX

64 MB of RAM

14/15 BVGA Monitor

10GB Hard disk

3 1/2 Floppy Disk Drive

UPS

Stabilizer

Printer (HP 1100)

4.7. CHANGE OVER PROCEDURE

The changeover from the old to the new system takes place when the system has been proved to the satisfaction of the system analysis and the other implementation activities have been completed.

The type of changeover advised is direct changeover. Since there has not been an existing system used before but just the manual one. This method is the complete replacement of the old system by the new one in a move. This is undertaken only when everyone concerned has confidence in the new system.

In this changeover, there should be comprehensive system tests and also training, and the changeover itself planned in detail.

CHAPTER FIVE

CONCLUSION AND RECOMMENDATION

5.1 CONCLUSION

The technological advancement in the field of computing is crossing across everywhere. The decision of computerizing the DRFS is a wise one, as a lot of redundancy will be reduced. The appreciation of a paperless office which is the autumn of every society now should be introduced into every sector, which include the health.

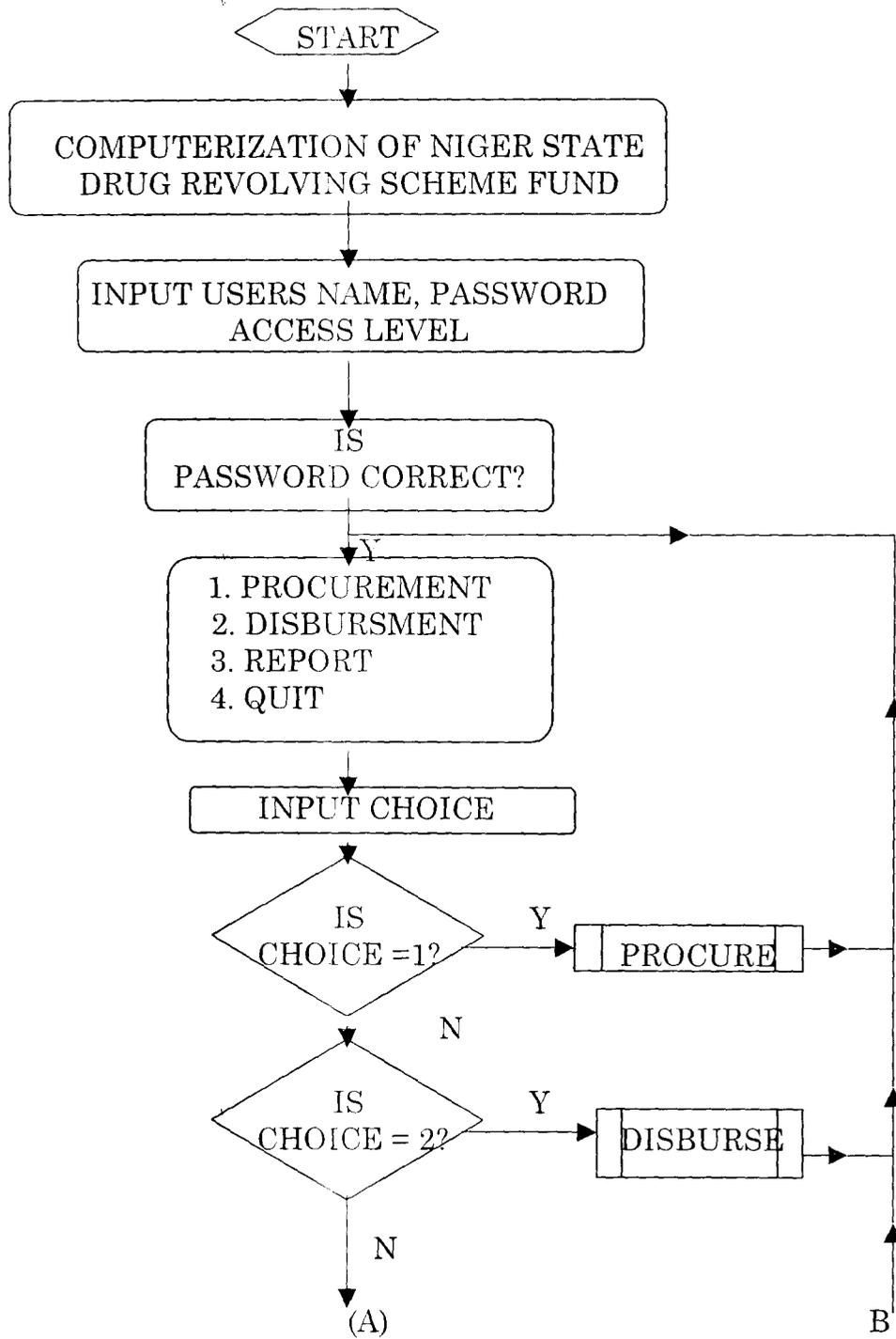
5.2. RECOMMENDATION

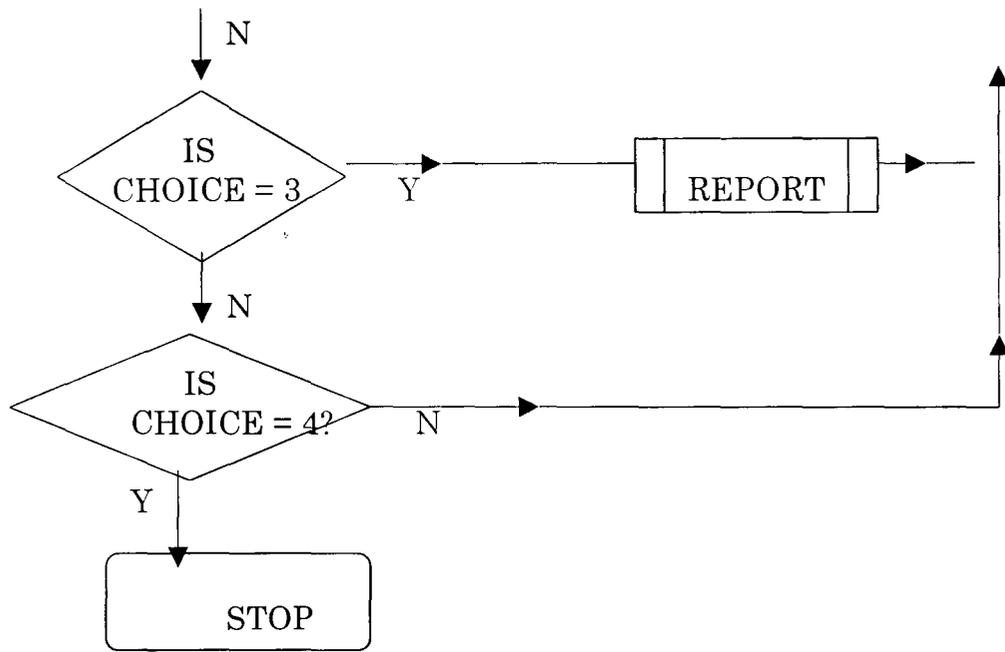
This software DRFS should be recommended to the Government especially that of Niger State for implementation.

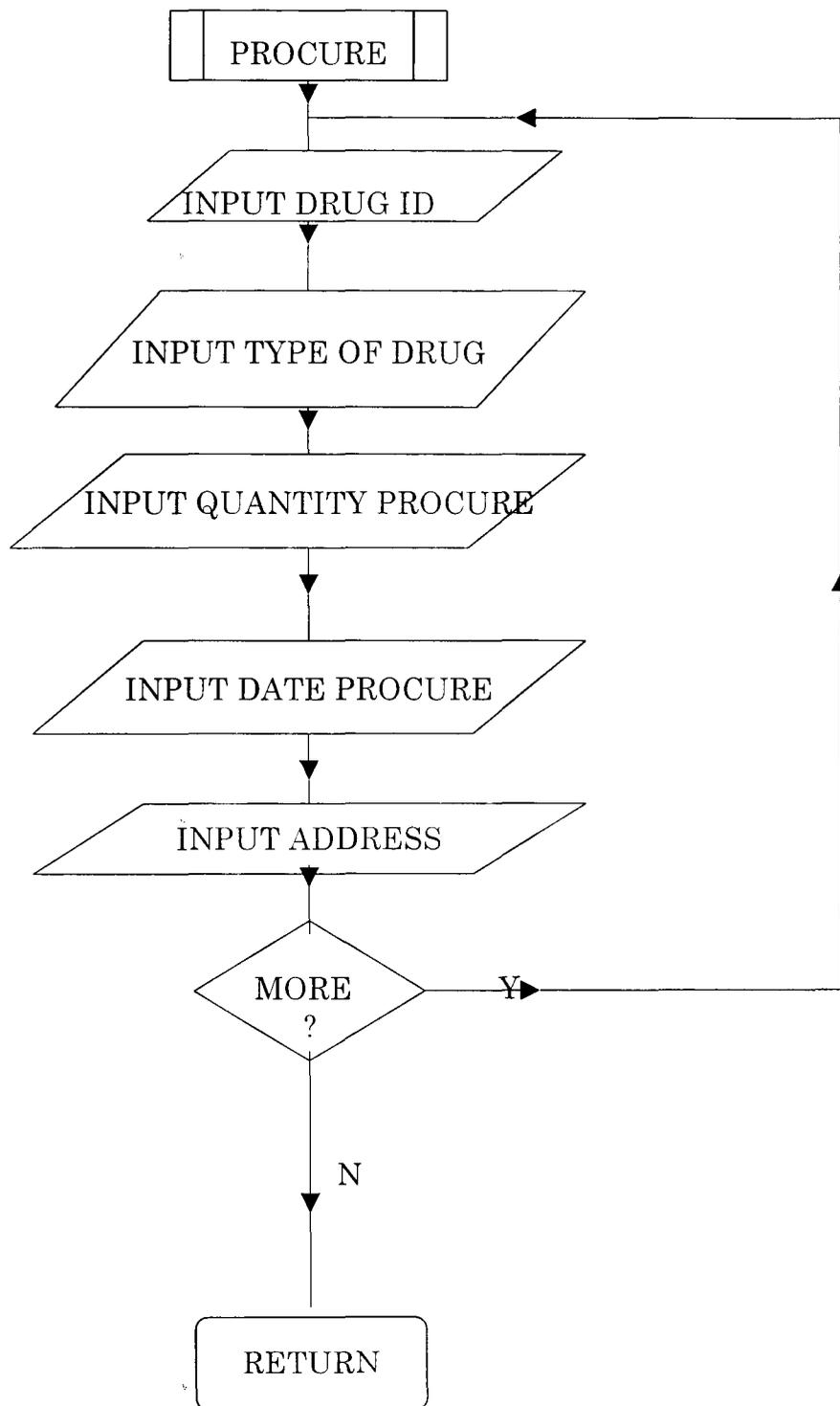
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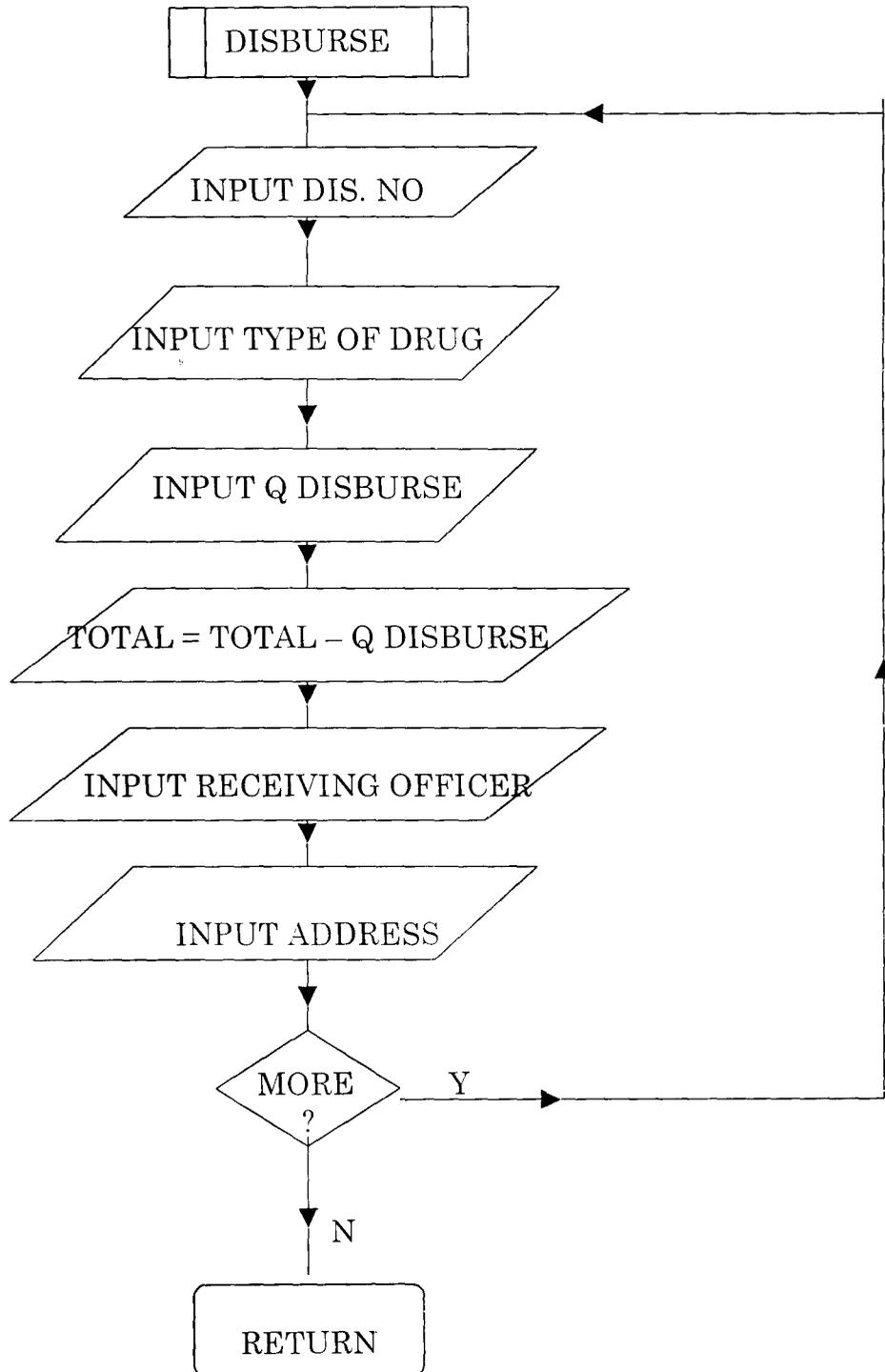
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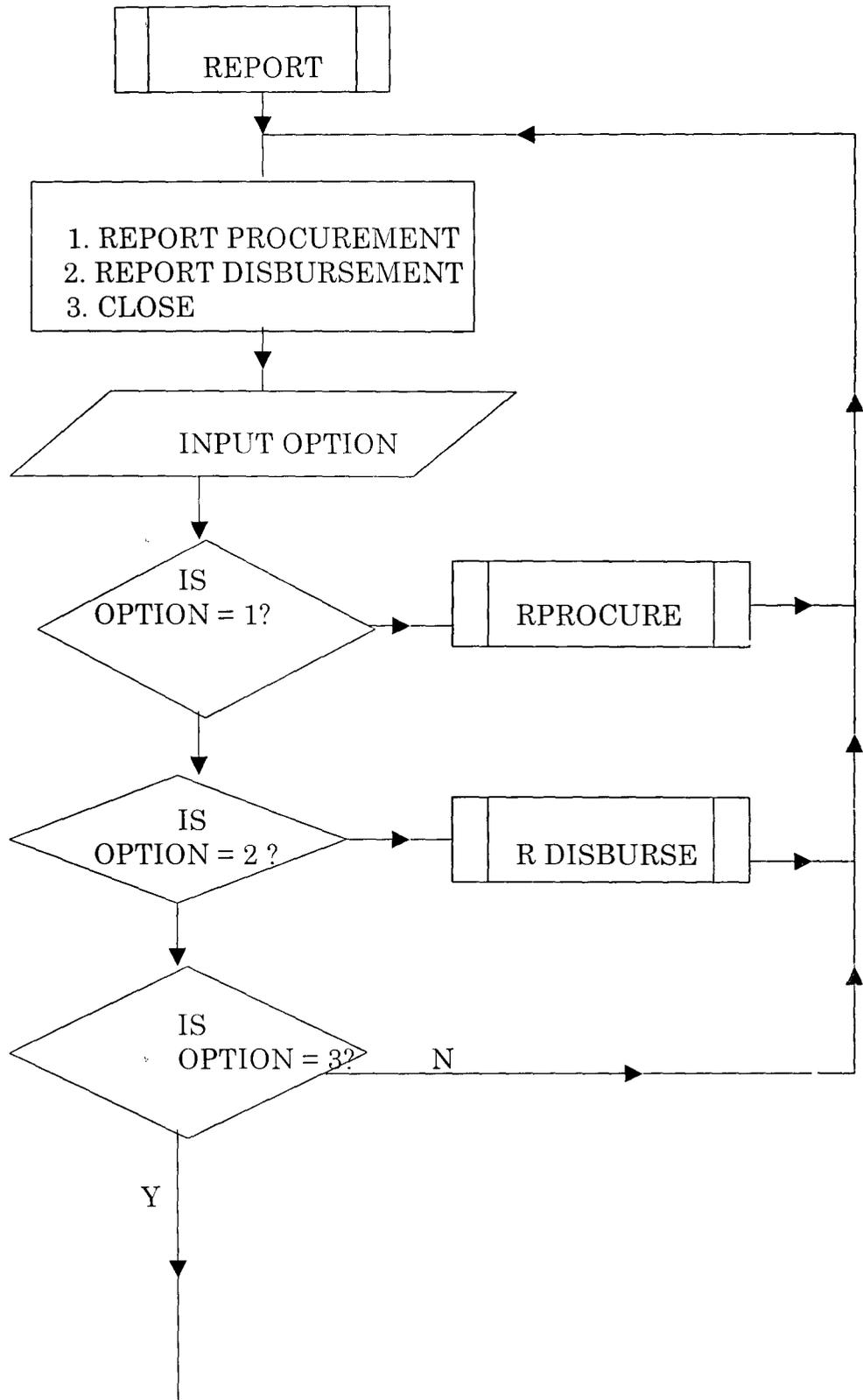
FLOWCHART











RETURN

PROCURE

DISPLAY PROCUREMENT RECORDS

PRINT RECORDS

REPORT

R DISBURSE

DISPLAY DISBURSEMENT RECORDS

PRINT RECORDS

REPORT

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**POST GRADUATE DIPLOMA IN COMPUTER
SCIENCE DEPT. OF MATHS/COMPUTER
SCIENCE. FEDERAL UNIVERSITY OF
TECHNOLOGY, MINNA.**

**DESIGNED BY ALIYU
HARUNA
PGD/MSC/97/98/656**

NIGER STATE DRUG REVOLVING FUND SCHEME

LOGIN INFORMATION FORM

name:

pwd:

OK

CANCEL

SOURCE LISTING PROGRAM

ADD NEW RECORD

```
IF THIS.CAPTION = "\<Add New"

    THISFORM.SETALL("ReadOnly",.F.,"Textbox")
    THISFORM.SETALL("ReadOnly",.F.,"ComboBox")
    THISFORM.SETALL("ReadOnly",.F.,"EDITbox")

    IF USED("TDRUG")
        SELE TDRUG
    ELSE
        SELE 0
        USE TDRUG
    ENDIF

    SCATTER MEMVAR MEMO BLANK
    THISFORM.txtdnum.SETFOCUS
    THISFORM.SETALL("enabled",.F.,"commandbutton")
    THIS.ENABLED = .T.
    THISFORM.cmdclose.ENABLED = .T.
    THISFORM.REFRESH
    THIS.CAPTION = "\<Save"
ELSE
    THISFORM.SETALL("ReadOnly",.T.,"Textbox")
    THISFORM.SETALL("ReadOnly",.T.,"combobox")
    THISFORM.SETALL("ReadOnly",.T.,"editbox")
    THISFORM.SETALL("enabled",.T.,"commandbutton")

    IF USED("TDRUG")
        SELE TDRUG
    ELSE
        SELE 0
        USE TDRUG
    ENDIF

    GO TOP
    IF EMPTY(M.DNUM)
        MESSAGEBOX("NULL Record is NOT allowed, O.K!", "Warning.")
        THISFORM.REFRESH
    ELSE
        LOCATE FOR dnum = m.dnum
        IF FOUND()
            MESSAGEBOX("This Record Already Exists!", "Warning.")
            THISFORM.REFRESH
        ELSE
```

```

*THISFORM.TXTQL.VALUE=QTY.VALUE-THISFORM.TXTQTY.VALUE
*thisform.txtql.value=thisform.txtdep.value
    INSERT INTO TDRUG FROM MEMVAR
    THISFORM.REFRESH
ENDIF
ENDIF
THIS.CAPTION = "\<Add New"
ENDIF

```

TO MODIFY RECORD(S)

```

THISFORM.SETALL("ReadOnly",.F.,"Textbox")
THISFORM.SETALL("ReadOnly",.F.,"combobox")
THISFORM.SETALL("ReadOnly",.F.,"EDITbox")

IF USED("TDRUG")
    SELE TDRUG
ELSE
    SELE 0
    USE TDRUG
ENDIF
IF THIS.CAPTION = "\<Modify"
    THIS.CAPTION = "\<Save"
    THISFORM.SETALL("ReadOnly",.F.,"Textbox")
    THISFORM.SETALL("enabled",.F.,"commandbutton")
    THIS.ENABLED = .T.
    THISFORM.cmdclose.ENABLED = .T.
ELSE
    GATHER MEMVAR MEMO
    THIS.CAPTION = "\<Modify"
    THISFORM.SETALL("ReadOnly",.T.,"combobox")
    THISFORM.SETALL("ReadOnly",.T.,"EDITbox")
    THISFORM.SETALL("ReadOnly",.T.,"Textbox")
    THISFORM.SETALL("enabled",.T.,"commandbutton")
    THISFORM.REFRESH
ENDIF

```

TO DELETE RECORD(S)

```

IF USED("TDRUG")
    SELE TDRUG
ELSE
    SELE 1
    USE TDRUG EXCLUSIVE
ENDIF

ans = MESSAGEBOX("This record will be deleted, Proceed?", 4 + 32, "Warning")
IF ans = 6
    DELETE
    PACK

```

```
        IF !EOF()
            SKIP
        ELSE
            SKIP -1
        ENDIF
    ENDIF
    THISFORM.REFRESH
```

TO MOVE TO THE FIRST RECORD

```
IF USED("TDRUG")
    SELE TDRUG
ELSE
    SELE 0
    USE TDRUG
ENDIF
IF !BOF()
    GO TOP
    SCATTER MEMVAR MEMO
    THIS.ENABLED = .F.
ELSE
    MESSAGEBOX("This is the First Record", "Warning")
ENDIF
    THISFORM.REFRESH
    THISFORM.cmdlast.ENABLED = .T.
```

TO MOVE TO THE NEXT RECORD

```
IF USED("TDRUG")
    SELE TDRUG
ELSE
    SELE 0
    USE TDRUG
ENDIF

IF NOT EOF()
    SKIP 1
    THISFORM.cmdfirst.ENABLED = .T.
    SCATTER MEMVAR MEMO
    THISFORM.REFRESH
ELSE
    THISFORM.cmdlast.ENABLED = .F.
    MESSAGEBOX("This is the Last Record", 0 + 64, "Warning")
    THIS.ENABLED = .F.
ENDIF
    THISFORM.cmdprevious.ENABLED = .T.
```

TO MOVE TO THE PREVIOUS RECORD

```
IF USED("TDRUG")
    SELE TDRUG
ELSE
    SELE 0
    USE TDRUG
ENDIF
IF NOT BOF()
    SKIP -1
    SCATTER MEMVAR MEMO
    THISFORM.REFRESH
    ThisForm.cmdlast.ENABLED = .T.
ELSE
    ThisForm.cmdfirst.ENABLED = .F.
    MESSAGEBOX("This is the First Record", 0 + 64, "Warning")
    THIS.ENABLED = .F.
ENDIF
THISFORM.cmdnext.ENABLED = .T.
```

TO MOVE TO THE LAST RECORD

```
IF USED("TDRUG")
    SELE TDRUG
ELSE
    SELE 0
    USE TDRUG
ENDIF
IF !EOF()
    GO BOTTOM
    SCATTER MEMVAR MEMO
    THISFORM.REFRESH
ELSE
    MESSAGEBOX("This is the Last Record", 0 + 64, "Warning")
ENDIF
THIS.ENABLED = .F.
THISFORM.cmdfirst.ENABLED = .T.
```

TO CLOSE THE DATABASE

```
THISFORM.RELEASE
```

SOURCE LISTING FOR LOGIN PROGRAM FORM

```
IF !(m.user_name = " " OR m.MYACCESS = " ")
    IF UPPER(M.MYACCESS)="DRUG" AND !EMPTY(M.USER_NAME)
        thisform.RELEASE
    
```

```
MESSAGEBOX("Please, Keep this Secret to yourself, O.K!". "ACCESS
GRANTED!")
DO mainmenu.mpr
ELSE
MESSAGEBOX("Unauthorised user is not permitted, O.K!". "ACCESS DENIED!")
ENDIF

ELSE
MESSAGEBOX("Invalid User Codes. Please Try Again", 0 + 48, "Warning")
thisform.txtMYACCESS.SETFOCUS
ENDIF
```

CLOSE LOGIN PROGRAM FORM

```
THISFORM.RELEASE
SET SYSMENU TO DEFA
_SCREEN.CAPTION = "Microsoft Visual Foxpro"
_SCREEN.PICTURE = " "
CANC          &&quit          &&thisform.release
```

WELCOME SCREEN

```
DO FORM frmlogin
```