

**APPLICATION OF VISUAL BASIC IN THE IMPLEMENTATION
OF PAYROLL SYSTEM**

(A CASE STUDY OF OFFA LOCAL GOVERNMENT, KWARA STATE)

By

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**A PROJECT SUBMITTED TO THE DEPARTMENT OF COMPUTER
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CERTIFICATION

This is to certify that this project is original work of Mr. Sakariyau Niyi Sherif (PGD/MCS/2007/1233). Submitted for the award of Post Graduate Diploma in Computer Science Department of Federal University of Technology, Minna. Niger State

Mr. Idris Onotu
Project Supervisor

Date

Dr N. I. Akinwande
Head of Department

Date

External Examiner

Date

DEDICATION

This project work is dedicated to Almighty Allah, the one and only, the creator of the universe and the sustainer of the world.

ACKNOWLEDGEMENT

Glory be to Almighty Allah, the beneficent, the most merciful, for his guidance and mercy over me through the completion of this program.

→
I will forever be grateful to my parents for the great legacy Allah has bestowed on them to lay on my life.

Likewise, I wish to appreciate my brothers and sisters who gave an extra push in pursuit of my ambitions, Allah will crown all your efforts with success (Amen).

Also, the effort of my friends is appreciated, it's your encouragement that led to my success in this program.

With unlimited joy and deep appreciation I wish to appreciate my Love, my Heart, my Joy "Zee". May God continue to be with her.

I cannot forget the tremendous contribution of my project supervisor Mr Idris Onotu and my HOD ^{name} God will increase you in every good thing.

ABSTRACT

Paper –Pen calculation has been a problem in the calculation of workers' wages and salary. The computerized payroll systems enable users to easily set up their database on each particular salary or money paid. However, this project work is to calculate take home pay of a particular worker and store every workers record for future references which could be changed or updated at any point in time.

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CHAPETER ONE: GENERAL INTRODUCTION

CHAPTER ONE: GENERAL INTRODUCTION

1.0 GENERAL INTRODUCTION

Before the advent of electronics system of data processing, manual method of calculation is the only way in which data could be processed. Although this method have been largely replaced by computer. They are still to be found in some organizations.

Computers was developed to solve the problems of human being with their formal pen-paper calculation. Also to take over some functions performed by human brain. Computer is a machine which is capable of accepting data automatically, apply sequence of processes to the data with capability of attaining the sequence and supply the result of the processes.

1.1 BACKGROUND OF THE CASE STUDY

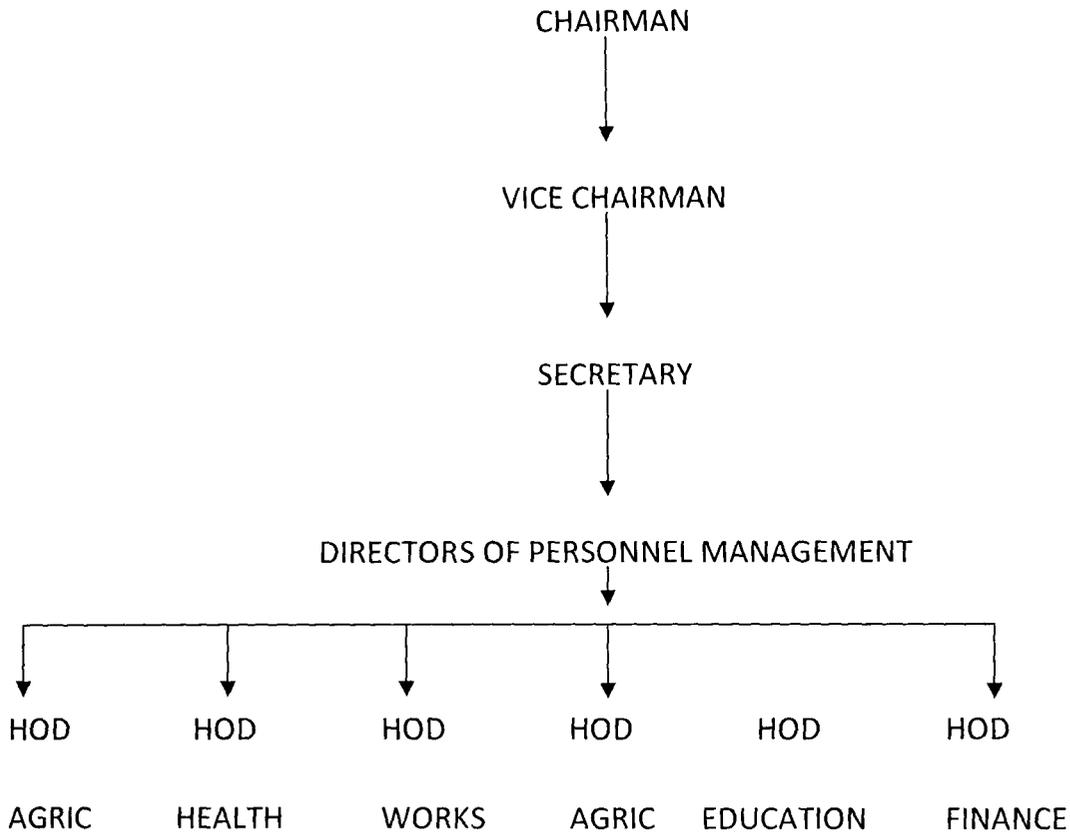
Offa Local government was created on 27th August, 1991 during president Ibrahim Babagida regime. It was carved out of Oyun Local government . It covers an area of about 14,922 square kilometers with a population of over two hundred thousand (200,000) people.

The major ethnic group of the area are Yorubas of Ibolu Kingdom.

Offa Local government is delineated into five districts and twelve electoral wards, made of thirty villages.

Geographically, the local government secretariat is located along Olrunkuise road.

THE ORGANIZATIONAL CHART



1.2 MEANING AND IMPORTANCE OF PAYROLL SYSTEM

Payroll system can be described as a record that shows the wages and salaries earned by employees for a certain period and the various deductions for withholding tax, union fees and so on.

The following are the importance of a computerized payroll system compare to manual method of calculating wages and salaries.

1. It ensure that any required information on salaries are given accurately and timely

2. The system is less cumbersome, information of staffs is stored permanently in the master file.
3. High efficiency, no error prone unless error due to input
4. Accurate

1.3 TYPES OF PAYROLL SYSTEM

There are two types of payroll systems

- a. Manual payroll system
- b. Computerized payroll system

MANUAL PAYROLL SYSTEM: This is a process by which a selected staff of an organization calculates the payroll of each staff on paper at the end of every month. Taxes, insurance and any applicable deductions in addition to each employee's actual earnings will be calculated manually. In this case it is easy to make mistakes when processing the data.

COMPUTERIZED PAYROLL SYSTEM: This is a process by which computer is used to prepare the payroll of each employee of an organization. The data of each employee will be input into the computer and the data will be stored permanently for reference purpose.

1.4 ADVANTAGES AND DISADVANTAGES OF COMPUTERIZED SYSTEM

The design and implementation of payroll system has the following advantages.

1. **ACCURACY:** Computerized payroll system is very accurate in the sense that it brings out all the required information in a generalized form without errors
2. **SPEED:** Computer works at a very high speed, thousands of operations can be carried out by computer within seconds
3. **STORAGE:** Storage here refers to data bank, a computerized system provide storage for data which can be permanently stored or deleted when the need arise.
4. **AUTOMATIC CONTROL:** Once a job is initiated computer through the operating system carry out the next step in executing the job until the job is completed
5. **CONSISTENCY AND REPETITIVENESS:** Computerized system is very consistent in the sense that it could produce the same result when presented with the same set of data

The disadvantages of computerized payroll system include:

1. It require staff training
2. Its expensive

1.5 STATEMENT OF THE PROBLEMS

This project work is concerned specifically with the design and implementation of the payroll system of Offa local government, Kwara state.

The problem associated with the present system (manual method) whereby the payroll employee information like name, status, sex, date of birth etc are not stored permanently in the master file. Therefore routine jobs are created for salaries and tedious and involves too much clerical work without accurate result.

1.6 AIMS AND OBJECTIVES OF THE PROJECT

The aims and objectives of this project are:

1. To eliminate manual error prone calculation of wages and salaries
2. To produce a timely accurate payroll for the local government
3. To provide timely report on accounting issue

1.7 SCOPE AND LIMITATION OF THE STUDY

- INTERVIEW METHOD: This method of data collection was used to collect the necessary data and information in this case study. During this study, some employee were interviewed about the constraint in their payment and they think it could be solved.
- The system require backups, in case there is any problem with the computer system
- Also the system may need to be upgraded where there is no enough space for the database files.
Therefore, a great care is needed .

1.8 METHODOLOGY

The method or logical way to achieve the desire goals are as follows

- a. Study the existing procedure manual
- b. Consider the working population
- c. Interview method of collecting data

1.9 JUSTIFICATION OF THE STUDY

The design and implementation of payroll system in this case study (Offa Local Government) will ensure efficient working system in salaries and wages office compare with system being used presently, the following justification is made:

1. It will be faster, more accurate and capable of giving the desired result in good time
2. The efficiency of the system will be very high with no errors calculations and payment
3. The proposed system would be less cumbersome, information of the staffs are permanently stored in the master file.

1.10 DEFINITION OF TERMS/TERMINOLOGY

The following are the terms defined for the purpose of the case study viz.

ALLOWANCE: A certain amount given to a staff inform of non taxable income to the salary of a staff

NET PAY: It is the total amount after deduction

GROSS PAY: This is the basic salary of staff per month

PAYMENT VOUCHER: This is the document showing that the money had been paid or promised which can be exchange for money by staff

MAIN STAFF: Staffs categories in which deduction could be made from their salary

CASUAL STAFF: Staffs categories in which their basic salary and allowances are constant

CHAPTER TWO: ~~LITERATURE REVIEW~~

2.0 LITERATURE REVIEW

The design and implementation of payroll system is a 20-Years development to cost effectively and labor efficiently support the most valued asset of the business enterprises; its employee base. It was developed for the efficient manipulation of salary and wages section, in order to curb the error prone problems on check digits. Also to relief the staff clerical work when preparing the pay slip.

Payroll is one of the many accounting functions with direct benefit from these incredible changes in computer technology.

PAYKWIK cutting edge and innovative technology advances payroll into the millennium. Automation minimizes labor and cost and maximizes securities in the payroll process. The unique PAYKWIK user support technology was proven in a shared computer center that started with IBM 650 and now houses several of the largest computer in the world.

He bank invented payroll outsourcing in 1950's. it was phased out as being too expensive to be free for ever.

In-House payroll started on the new IBM computers. It was usually processed off-shift at night and each company bore the cost of software design, maintenance and technical support.

Commercial software followed to save the cost of maintaining and supporting their now old and well patched legacy software.

Consequently, vendor of information system products for payroll find there is a steep learning curve to understanding the information need of the clerical staff setting deliberate analysis of the information need and work flow will help developers design

information system that increase the efficiency and effectiveness of the salary preparation.

PAYKWIK recognizes that many payroll services are overpriced with limited and aging software. Its available without the typical up front license fee. It computes a service fee based on the number of checks printed by the user. It automatically invoices and direct deposit bills the user on a monthly basis for the perfect example and implementation of Microsoft S+S Hosting.

The payroll was designed to support every payroll need out-of-the-box. It supports unlimited companies, employees pay rates. It allows recalculation and check reprinting from late T&A corrections. Moreover, the operator is not burdened today with features and key strokes that are needed when the company grows or its mission changes tomorrow. The system automatically adds new record as the company and employee base expands to eliminate calls and the need for technical support.

The payroll include companion back office functions into an end –to-end process. After employee checks/direct deposit processing, the same or another operator (for security) can immediately process the third party employee payables of employee benefit insurance and child support, Garnishment, and state, federal and local taxes. For the CPA or independent payroll service, PAYKWIK will calculate their service fee invoice and print it on the check stub for the user with a paper check or direct deposit into their bank account.

2.1 K12 AND HIGHER EDUCATION BUSINESS SYSTEM – HR/PAYROLL

APECS HR and payroll systems are the system of choice for school districts, colleges and universities. The system is currently in use by educational institutions with its straightforward design, ease implementation and absolutely dependable operating

record, APECS HR/Payroll simplifies data entry and provides real –time information to the people.

Its features include:

- Seamless data flow designed for separate office functions with minimal data redundancy.
- An employee may be paid for many contract and non-contract positions or assignments.
- Full calculation of statutory withholding
- System can accommodate a large number of voluntary withholdings
- Allows for future dating of payments and voluntary deductions and benefits
- Simultaneous processing for multiple fiscal and calendar year
- Supports remote data entry without sacrificing security and control

The APECS system employ a single integrated database for HR and payroll operations, with separate functions protected by locally configured security features. Employee data is entered just once and information is not duplicated within the system. Types of information which may be captured include:

- Certification
- Education
- Residential
- Medical/Emergency
- Employment History

2.2 SAGE ABRA PAYROLL

Seamless integration with Abra HR saves you time, eliminate duplicate data entry, simplifies reporting and automatically links benefit plans in Abra HR to deductions in payroll. Abra payroll also interfaces with most major accounting packages and clock systems.

This comprehensive, easy-to-use solution includes all the payroll software functionality needed by mid sized organization to process payroll accurately and quickly every time. Produce pay checks on demand, run trial reports and make last minute changes with no hassle. Flexible features include:

SIMPLIFIED PAY PROCESSING: Run accurate payrolls on time from setup to year-end closing. Customizable “actions” screens walk you step-by-step through the payroll process and allow you to customize the system to meet users needs. Run an unlimited number of trial payrolls and gross-t-net calculation reports to ensure accuracy.

COMPREHENSIVE REPORTING: Easy access to complete payroll re[porting and analysis with over 100 built in reports Abra payroll software comes bundled with the crystal report . Answer adhoc questions easily with the Abra secure query report writer.

CHECK PRINTING: Preview and print standard and customized checks and direct deposit advices for selected groups with a few clicks of a mouse. Include flexible choices and offers time savers such as the laser signature and MICR option.

TAX MANAGEMENT: Get automatic quarterly updates of tax and electronic media reporting. Abra payroll supports more than 2,000 local taxes jurisdictions, federal and state income, unemployment taxes, disability taxes, worker compensation and more. An optional tax filing service is also available for use with Abra payroll software.

EARNINGS AND DEDUCTIONS: Set up unlimited earnings and deductions codes with guided interviews, Abra payroll supports a wide range of earning types , including base pay earnings, premium pay earnings and tax only earnings. Manage earnings with allocation and accrual rules and define any number of deductions for each employee with rules, such as withholding frequencies and employer matching.

INTEGRATION: save time, eliminate duplicate data entry, simplify reporting, and automatically link benefit plans in Abra payroll software also interfaces with most major accounting packages.

2.3 TABLE DRIVEN SOFTWARE

The hard coded calculations in programs of yesterday required expensive changes in the program "Table Driven" software eliminates the expenses of programming the ever increasing state and federal changes. Boolean logic "Truth Table" allows a California T&A record to make a employee SDI active and another table to specify the proper tax for the on-the-fly calculation.

Paymate administration software makes maintenance of tax file and software updates for the provider a mouse click for update.

2.4 EMPLOYEE RECORD OVERVIEW

The transition to the computer-based record has only begun in spite of the grossly unmanageable state of the proper employee record. It remains the repository for the overwhelming majority of actual employee data. These data are kept in the "record room" are infact the sources which are used.

Employee records contain all the information of workers. This records contains the historical background of the worker. The date employed, the qualification of a particular employee, the grade level of the worker etc. this is recorded to aid the calculation of wages and salary at a later time.

2.5 CONTENTS OF EMPLOYEE RECORD

From the above explanations one must have had knowledge on an employee record. However,

an employee record is a file which contains every information about an employee. The outer page of the cover bears the name of the employee "confidential", the employee ID which is unique, the employee surname and other names.

Inside part consist of the document that contains surname, first name, other names, home address, age, marital status, sex, state of origin, religion, date employed, confirmation etc.

CHAPTER THREE: METHODOLOGY

3.0 PROGRAM DESIGN

The design of the program was based on the information collected. The categories of workers in the case study are:

1. Main staffs
2. Casual

MAIN STAFF: The main staff section consist of staffs that have access to loans and other forms of deductions.

CASUAL STAFF: Are those that have specific basic salary without loan any form of deduction e.g cleaners, gateman etc.

Also staffs records and payment slip can be viewed and printed out when the need arise.

3.1 ANALYSIS OF THE SYSTEM

System Analysis can be refers to as investigation analysis design and implementation of a system. Alternatively, it can be refers to as the application of system approach to the study and solution of problem using computer based solution system.

The main work of this program is to calculate payments i.e the computation of Basic pay, Allowances, Gross pay, and Net pay as the final output.

The employee data is entered in the main form and saved . the basic salary and other forms of deduction is processed through the information stored, while the output is produced as well.

3.2 DATABASE DESIGN

This is a phase that involves the develop and preparation of a logical and physical design for the proposed system that meet the system requirements for the purpose of this study.

The database design is based on Microsoft access application. The records are stored and could be called by the program whenever the need arise. The database consist of series of tables linked with the program.

3.3 INPUT DESIGN

The input record unit consist of the following fields, Employee's name, Identification number, Department, sex, Marital Status, Date of Birth etc.

The identification number field was taken as the record key. Also, the allowances e.g Transport Allowance, House Allowance, Medical Allowance,, Furniture Allowances were entered from the input design so as to calculate the take home pay of the employees.

3.4 PROGRAMMING LANGUAGE USED

The choice of programming language used in the program is Visual Basic 6.0 version

It is the most widely and extensively used programming language in commercial and administrative data processing.

Visual Basic is ideally suited to work with file inputs, storage and printing facilities.

It also give room for file linking and embedding which make it suite for this kind of project work.

3.5 HARDWARE AND SOFTWARE REQUIREMENT

HARDWARE REQUIREMENT

This refers to the physical system components needed to make the system function adequately and satisfactorily.

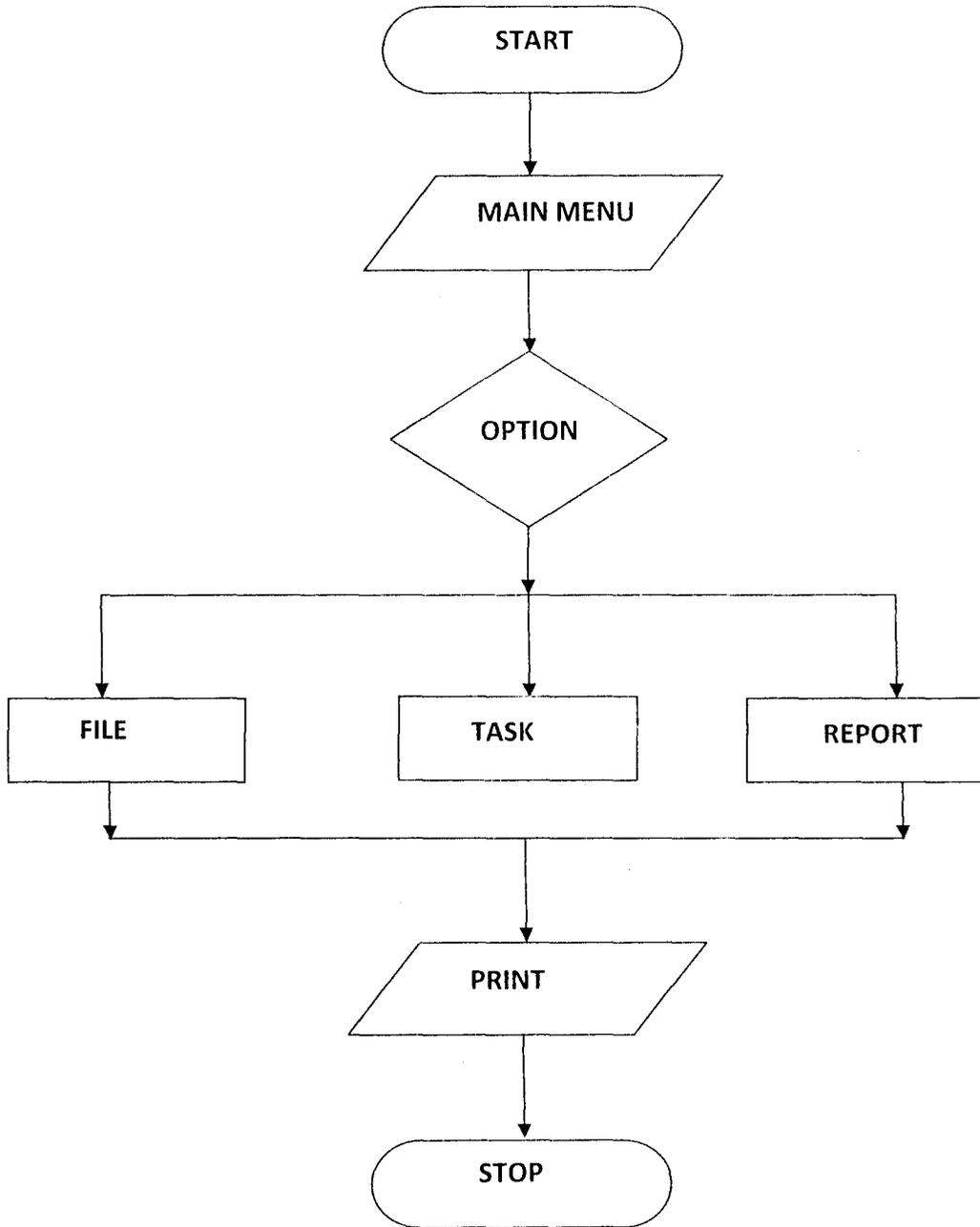
The following are the hardware requirement for implementation of the new system

- Pentium IV
- Minimum of 40 GB HDD
- Laser jet printer
- CD or DVD RAM
- SVGA Color Monitor

SOFTWARE REQUIREMENT

The program will run under 32 bit operating system (Window XP or Vista). Microsoft Visual Basic 6.0 Version is the key software.

PROGRAM FLOWCHART



**APPLICATION OF VISUAL BASIC IN
DESIGN AND IMPLEMENTATION OF
PAYROLL SYSTEM**

(A Case Study of Offa LGA)

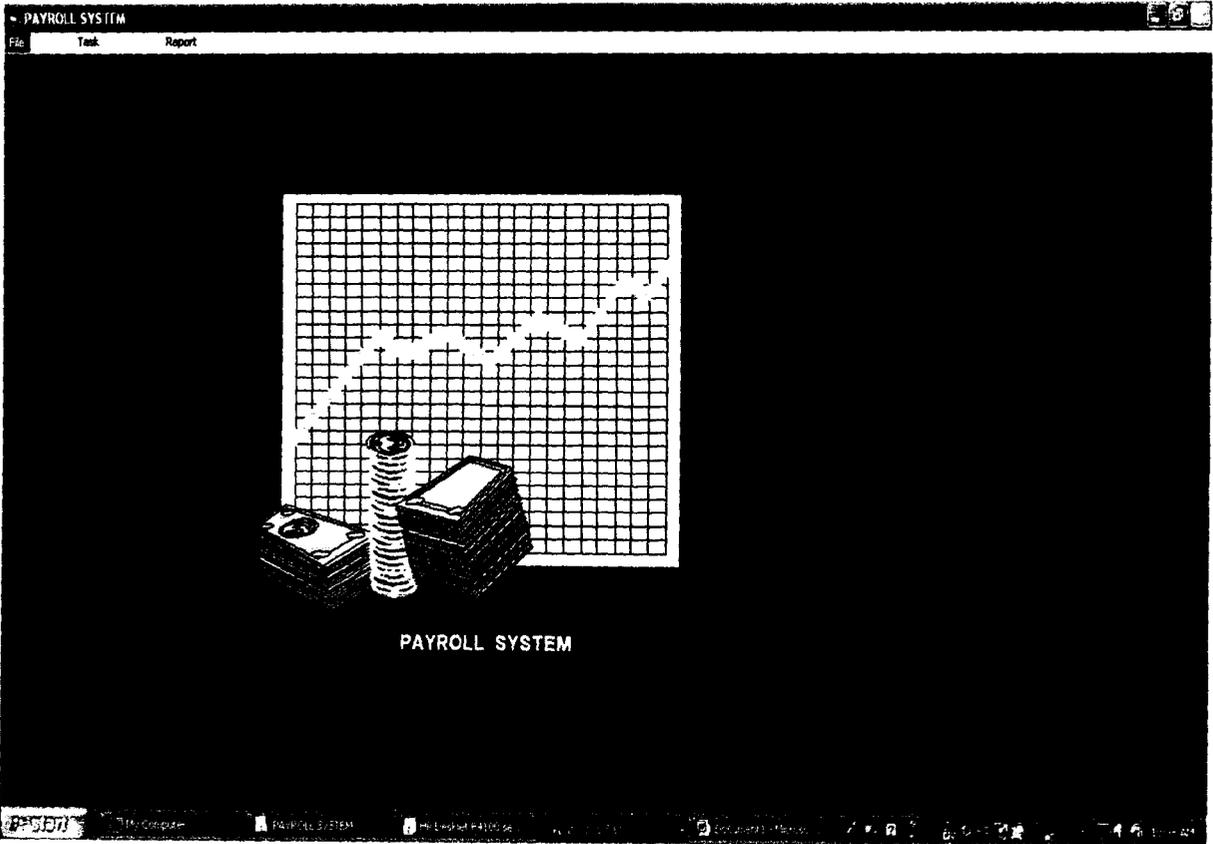
Designed By:

SAKARIYAU NIYI SHERIF

Supervised By:

MR IDRIS ONOTU





Basic Salary

Staff Id

Staff Name

Grade Level

Post

T.Pract/Ind.Sup

Travel All'ce

Leave All'ce

Transport All'ce

Call Duty All'ce

Security All'ce

Inducement All'ce

Gratuity All'ce

Arrears

Research All'ce

Furniture All'ce

Medical Educatn. All'ce

Medical All'ce

Basic Allowance

Other Allowance

Process

Save

d

name

Department

Place of Origin

Govt

Date of Birth 12/31/1975

Nationality

Name:

Surname

Address

Postfield

Qualification

Date Employed 2/28/2009

Marital Status --

GradeLevel --

No. of Children

Account Number:

Save More

Close

Search Update

Personal Data

ID **Surname** **Othername**

Department **Marital Status**

Address **No. of Children**

Level **Step** **Date:**

Business

Salary: **Total Deduction** **Total Allowance**

Housing Allowance **Medical Allowance** **Journal Allowance**

Transport Allowance **Transport Allowance** **Other Allowance**

Exam Allowance **Exam Sup. Allowance**

Gross pay

Netpay

Save

Search

Calculate

Show Details

Print Slip

SUMMARY OF PAYROLL REPORT

OFFA LOCAL GOVERNMENT STAFF INFORMATION:

STAFF INFORMATION:		ALLOWANCE	DEDUCTION
FF ID	KW-OF-5226		
FF FULNAME	ABAH HELEN A.		
ARTMENT	ADMIN		
SEX	Female		
POST	SNR STAFF		
BASIC SALARY	18800		
STEP	3		
MEDICAL ALLOWANCE		700	
HOUSE ALLOWANCE		564	
HOUSE ALLOWANCE		0	
TRANSPORT ALLOWANCE		564	
FURNITURE ALLOWANCE		376	
RENT ALLOWANCE		752	
TOTAL ALLOWANCE		2956	1676
BASIC SALARY:	18800	NET PAY:	20080
			GROSS PAY 21756

OFF ID.:	STAFF NAME.	DEPARTMENT	SEX:	POST:	BASIC SALARY:	STEP:	TOTAL DI
OF-5226	ABAH HELEN A.	ADMIN	Female	SNR STAFF	18800	3	1676
OF-2553	MURTALA TUNJI	AGRIC	Male	SNR STAFF	20800	3	416
OF-4488	AKEEM OLAWALE	ADMIN	Male	SNR STAFF	16600	2	2832
OF-6256	ADEBAYO MARIAM	AGRIC	Female	SNR STAFF	30000	4	600
OF-5233	SUBUOLA KAREEM	WORKS	Female	ENGR	16900	4	2338
OF-4557	TAJUDEEN IGE	AMIN	Male	JNR STAFF	10900	4	918
OF-2574	STEPHEN JUDGE	FINANCE	Male	CLERK	14800	3	2596
OF-2251	MUSTAPHA KOLA	EDU	Male	JNR STAFF	11000	5	220
OF-7475	RAHEEM SIKIRU	WORKS	Male	ENGR	21,100	6	1000
OF-6477	DEBORAH AJIBUA	AGRIC	Female	SNR STAFF	20200	6	404
OF-7621	ADEMOLA TAWA	ADMIN	Female	TYPIST	16800	3	591
OF-7252	OLADITI REMI	ADMIN	Female	SECRETARY	15200	7	1304
OF-3676	BAMBE OLAGUNJU	FINANCE	Male	SECRETARY	19000	5	1170
OF-3681	KUNLE BADMUS	WORKS	Male	CHIEF ENGR	25000	5	1100
OF-4252	OGUNDELE FEMI	ADMIN	Male	SNR STAFF	20900	4	418
OF-7622	FALANA GBENGA	WORKS	Male	ENGR	26700	2	2034
OF-2525	IKUBOLAJE TOSIN	HEALTH	Female	SUPERVISOR	19200	7	1684
OF-3224	GARBA SOFIAT	ADMIN	Male	SNR STAFF	26700	3	1884
OF-1225	MUHAMMED SANUSI	HEALTH	Male	JNR STAFF	12700	2	254
OF-1772	TAIWO ADEBISI	ADMIN	Male	JNR STAFF	13100	6	262
OF-8743	JAMIU OLAJUWON	AGRIC	Male	HOD	26800	3	536
OF-2833	ABDULSALAM TAJU	ADMIN	Male	SNR STAFF	18900	4	378
OF-4332	ADEMOLA LUKMAN	FINANCE	Male	ACCOUNTANT	24800	3	496
OF-5852	SIMEON STEPHEN	ADMIN	Male	SNR STAFF	20500	7	2410
OF-8321	AUDU ISA	AGRIC	Male	SNR STAFF	22700	2	454
OF-7472	SULEIMAN FATIMA	ADMIN	Female	JNR STAA	12500	4	250
OF-6434	BUKOYE OLAITAN	WORKS	Female	HOS	26800	3	536
OF-2475	IKUDOJA USMAN	WORKS	Male	SNR STAFF	19000	5	380
OF-4681	OLAITAN SHOLA	ADMIN	Female	CLERK	20900	4	418
OF-5715	IBRAHIM AISHA	HEALTH	Female	SNR STAFF	23100	6	462
OF-5177	ABUBAKAR UTHMAN	FINANCE	Male	ACCOUNTANT	20900	4	418
OF-2771	SULEIMAN GARBA	WORKS	Male	SNR STAFF	19200	7	384
OF-7315	ONUH DAVID	WORKS	Male	ENGR	27000	5	1740
OF-2252	SAKINAH SUDAT	ADMIN	Female	SNR STAFF	20000	4	400

Surname	Staffid	Other	Dept	Address	Sex	Marital	Salary
IBRAHIM	KW-OF-5715	AISHA	HEALTH	ADELEKE OFFA	Female	Married	23100
ABUBAKAR	KW-OF-5177	UTHMAN	FINANCE	43 YIDI OFFA	Male	Single	20900
SULEIMAN	KW-OF-2771	GARBA	WORKS	15 IPEE RD IPEE	Male	Married	19200
ONUH	KW-OF-7315	DAVID	WORKS	OBA'S WAY IJAGBO	Male	Married	27000
SAKIRU	KW-OF-3256	SURAJ	ADMIN	OLOMI AREA OFFA	Male	Married	20900
IBUOWO	KW-OF-3216	ADEOLA	WORKS	OLALOMO AREA OFFA	Female	Married	20800
ABIOLA	KW-OF-7747	WAKEEL	AGRIC	CONEL TOKI OFFA	Male	Single	24900
BAMIDELE	KW-OF-8232	SUPOOLA	HEALTH	IGINSOGBA OFFA	Female	Married	22700
OLABANJI	KW-OF-3164	IREWOLE	FINANCE	23 ITAFA AREA OFFA	Male	Married	26900
IDRIS	KW-OF-4437	ABDULKADIR	ADMIN	23 ABATA OFFA	Male	Married	20900
SALIS	KW-OF-2538	GAMBARI	FINANCE	5 ELERIN WAY ERIN ILE	Male	Married	18800
FOLASAHADE	KW-OF-2627	AZEEZ	ADMIN	34 SEC RD OFFA	Female	Single	18800
ABDULLAHI	KW-OF-1236	FASILAT	ADMIN	12 AMUYO OFFA	Female	Married	21200
SALMAN	KW-OF-1853	GARBA	FINANCE	POPO RD OFFA	Male	Married	18800
BADMUS	KW-OF-7566	IFE	ADMIN	IJAKADI OFFA	Female	Single	21200
TAJUDEEN	KW-OF-3526	OLA	WORKS	OPPOSIT TOTAL OFFA	Male	Single	10900
ILIAS	KW-OF-7768	BATUNDE	FINANCE	IDIOGUN AREA OFFA	Male	Married	24700
SALMAN	KW-OF-7582	RAJI	ADMIN	ABATA AREA OFFA	Male	Single	18900
SALAWA	KW-OF-8775	GAMBO	WORKS	IGINSOGBA OFFA	Female	Married	23100
FOLA	KW-OF-6666	IDIAT	ADMIN	ODIWO CMPD OFFA	Female	Married	22500
BADMUS	KW-OF-5332	BILKIS	FINANCE	OMOOWO AREA OFFA	Female	Married	18700

Net	Gross	TotalAllow	Leave	Exam	Journal	House	Transport	Furniture
26803	27265	4165	693	0	462	693	693	693
23272	23690	2790	627	0	418	627	418	418
22204	22588	3388	576	0	384	576	384	384
29740	31480	4480	810	0	540	810	540	540
24108	24526	3626	627	0	418	627	418	418
23996	24412	3612	624	0	416	624	416	416
27592	28090	3190	747	0	498	747	498	498
26124	26578	3878	681	0	454	681	454	454
30828	31366	4466	807	0	538	807	538	538
22108	24526	3626	627	0	418	627	418	418
20556	22132	3332	564	0	376	564	376	376
21004	21380	2580	564	0	376	564	376	376
24444	24863	3668	636	0	424	636	424	424
21756	22132	3332	564	0	376	564	376	376
23032	24656	3456	636	0	424	636	424	424
12572	12690	1790	327	0	218	327	218	218
28364	28858	4158	741	0	494	741	494	494
21112	21490	2590	567	0	378	567	378	378
26572	27034	3934	693	0	462	693	462	462
25900	26350	3850	675	0	450	675	450	450
21644	22018	3318	561	0	374	561	374	374

Medical	OtherAll	Deduction	Grade	Step	Date	Post
700	924	462	11	6	2/3/2002	SNR STAFF
700	0	418	10	4	5/28/2000	ACCOUNTANT
700	768	384	9	7	2/2/2005	SNR STAFF
700	1080	1740	13	5	2/28/2001	ENGR
700	836	418	10	4	12/2/2001	SNR STAFF
700	832	416	10	3	2/4/2000	ENGR
700	0	498	12	4	12/26/2006	SNR STAFF
700	908	454	11	2	2/28/2009	SNR STAFF
700	1076	538	13	4	2/28/1997	SNT STAFF
700	836	2418	10	4	2/28/1996	ACCOUNTANT
700	752	1576	9	3	2/28/2002	SNR STAFF
700	0	376	9	3	2/28/2005	SNR STAFF
700	848	424	10	7	2/28/2005	SNR STAFF
700	752	376	9	3	2/26/2004	JNR STAFF
700	636	1624	10	7	2/28/2004	SNR STAFF
700	0	118	5	4	12/28/2007	JNR STAFF
700	988	494	12	2	12/26/2004	SNR STAFF
700	0	378	9	3	2/28/2004	SNR STAFF
700	924	462	11	6	11/28/2002	ENGR
700	900	450	11	5	2/28/2002	SNR STAFF
700	748	374	9	2	3/26/2006	SNR STAFF

Surname	Staffid	Other	Dept	Address	Sex	Marital	Salary
ABAH	KW-OF-5226	HELEN A.	ADMIN	12 OLAFI WAY OFFA	Female	Married	18800
MURTALA	KW-OF-2553	TUNJI	AGRIC	22 OLAFI WAY OFFA	Male	Single	20800
AKEEM	KW-OF-4488	OLAWALE	ADMIN	2 IJAKADI ST OFFA	Male	Single	16600
ADEBAYO	KW-OF-6256	MARIAM	AGRIC	C5 OWOODE MARKET	Female	Married	24700
SUBUOLA	KW-OF-5233	KAREEM	WORKS	IGINSOGBA OFFA	Female	Single	16900
TAJUDEEN	KW-OF-4557	IGE	AMIN	ERINLE RD ERIN	Male	Married	10900
STEPHEN	KW-OF-2574	JUDGE	FINANCE	ADELEKE RD OFFA	Male	Single	14800
MUSTAPHA	KW-OF-2251	KOLA	EDU	2 IDIORO IJAGBO	Male	Married	11000
RAHEEM	KW-OF-7475	SIKIRU	WORKS	AGBA DAM ILORIN	Male	Married	21,100
DEBORAH	KW-OF-6477	AJIBUA	AGRIC	32 IPEE RD IPEE	Female	Married	19100
ADEMOLA	KW-OF-7621	TAWA	ADMIN	IJAKADI OFFA	Female	Married	16800
OLADITI	KW-OF-7252	REMI	ADMIN	23 OLUAWO COMPD	Female	Single	15200
BAMBE	KW-OF-3676	OLAGUNJU	FINANCE	OABNIMOMO AREA	Male	Married	19000
KUNLE	KW-OF-3681	BADMUS	WORKS	14 POPO RD OFFA	Male	Married	25000
OGUNDELE	KW-OF-4252	FEMI	ADMIN	55 AUD ERIN ILE	Male	Married	20900
FALANA	KW-OF-7622	GBENGA	WORKS	IDIMU IKOTUN	Male	Single	26700
IKUBOLAJE	KW-OF-2525	TOSIN	HEALTH	OLOUNKUISE OFFA	Female	Married	19200
GARBA	KW-OF-3224	SOFIAT	ADMIN	OLALOMI STREET OFFA	Male	Married	26700
MUHAMMED	KW-OF-1225	SANUSI	HEALTH	12 IGINSOGBA OFFA	Male	Married	12700
TAIWO	KW-OF-1772	ADEBISI	ADMIN	23 MOKOLA IBADAN	Male	Single	13100
JAMIU	KW-OF-8743	OLAJUWON	AGRIC	ALEGE PLAZA IJAGBO	Male	Single	26800
ABDUSALAM	KW-OF-2833	TAJU	ADMIN	OLOWO COMPD ILORIN	Male	Married	18900
ADEMOLA	KW-OF-4332	LUKMAN	FINANCE	3 OLOFA WAY OFFA	Male	Single	24800
SIMEON	KW-OF-5852	STEPHEN	ADMIN	IGINSOGBA OFFA	Male	Married	20500
AUDU	KW-OF-8321	ISA	AGRIC	2 ARGUNGU RD KADUNA	Male	Single	22700
SULEIMAN	KW-OF-7472	FATIMA	ADMIN	34 ELERIN WAY	Female	Married	12500
BUKOYE	KW-OF-6434	OLAITAN	WORKS	2 OGDIRI OFFA	Female	Married	26800
IKUDOJA	KW-OF-2475	USMAN	WORKS	24 OLOMI IBADAN	Male	Married	19000
OLAITAN	KW-OF-4681	SHOLA	ADMIN	65 MUU RD OFFA	Female	Married	20900

Net	Gross	TotalAllow	Leave	Exam	Journal	House	Transport	Furniture
20080	21756	2956	564	0	0	0	564	376
23580	23996	3196	624	0	0	0	624	416
16460	19292	2692	498	0	0	0	498	332
26430	26924	2224	381	0	0	0	381	254
17797	20135	3235	507	0	507	0	507	338
12317	13235	2335	327	0	327	0	327	218
12904	15500	700	0	0	0	0	0	0
11480	11700	700	0	0	0	0	0	0
2675	3675	3654	633	0	422	0	633	422
22283	22665	3565	573	0	573	0	573	382
19261	19852	3052	504	0	336	0	504	336
21284	22588	7388	456	0	304	0	5016	304
21190	22360	3360	570	0	380	0	570	380
28100	29200	4200	750	0	500	0	750	500
24108	24526	3626	627	0	418	0	627	418
28036	30070	3370	801	0	534	0	801	534
20904	22588	3388	576	0	384	0	576	384
29254	31138	4438	801	0	534	0	801	534
14924	15178	2478	381	0	254	0	381	254
14848	15110	2010	393	0	262	0	393	262
29644	30180	3380	804	0	536	0	804	536
21868	22246	3346	567	0	378	0	567	378
27484	27980	3180	744	0	496	0	744	496
21045	23455	2955	0	0	410	0	615	410
25216	25670	2970	681	0	454	0	681	454
14700	14950	2450	375	0	250	0	375	250
30716	31252	4452	804	0	536	0	804	536
21980	22360	3360	570	0	380	0	570	380
24108	24526	3626	627	0	418	0	627	418

Medical	OtherAll	Deduction	Grade	Step	Date	Post
700	752	1676	9	3	2/28/2005	SNR STAFF
700	832	416	10	3	5/28/2005	SNR STAFF
700	664	2832	8	2	2/24/2004	SNR STAFF
700	508	494	12	4	5/25/2003	SNR STAFF
700	676	2338	8	4	6/26/2005	ENGR
700	436	918	5	4	11/26/2005	JNR STAFF
700	0	2596	7	3	2/3/2004	CLERK
700	0	220	5	5	2/28/2009	JNR STAFF
700	844	1000	10	6	2/28/2008	ENGR
700	764	382	9	6	2/28/2006	SNR STAFF
700	672	591	8	3	2/28/2003	TYPIST
700	608	1304	7	7	6/25/2002	SECRETARY
700	760	1170	9	5	2/28/2009	SECRETARY
700	1000	1100	12	5	2/28/2004	CHIEF ENGR
700	836	418		4	2/28/1995	SNR STAFF
700	0	2034	13	2	2/28/2005	ENGR
700	768	1684	9	7	2/28/2003	SUPERVISOR
700	1068	1884	13	3	2/10/2004	SNR STAFF
700	508	254	6	2	2/5/2001	JNR STAFF
700	0	262	5	6	2/4/2004	JNR STAFF
700	0	536	13	3	2/28/2009	HOD
700	756	378	9	4	2/28/2002	SNR STAFF
700	0	496	12	3	6/28/2003	ACCOUNTANT
700	820	2410	10	7	2/26/2004	SNR STAFF
700	0	454	11	2	2/28/2003	SNR STAFF
700	500	250	6	4	2/28/1999	JNR STAA
700	1072	536	13	3	2/28/1997	HOS
700	760	380	9	5	2/26/2004	SNR STAFF
700	836	418	10	4	12/28/2000	CLERK

CHAPTER FOUR: IMPLEMENTATION

4.0 PROGRAM DOCUMENTATION

Program documentation generally comprises of the statement of the function of the individual program that makes up the entire system.

The design of the new system in the previous chapters stated the major or development of this package. The system development phase is generally the largest and most complex segment in the process of designing a new system.

The program is documented such that:

1. It enable the programmer to keep track of where he is up to in the development of the program.
2. It ensure the continuity of the development even if there is a change in the program design of the system.
3. It ensure that program maintenance is conveniently and efficiently carried out by the users.
4. It give room for future amendment
5. User friendly

4.1 SYSTEM TESTING

The best way to determine the efficiency of program is by subject ting it to series of test.

There are basically two types of testing. These are:

1. By dry-running of the program randomizing data
2. By testing upon the live-data actually collected from the organization.

The installation of the new computerized system is prepared for live testing. This is done so that the system can stimulate the manual operations before is installed in order to detect errors. The testing go a long way to improve the integrity of data by implementing routine checking for the selection of errors before the data is submitted for processing.

4.2 SYSTEM MAINTENANCE

As they always saying “prevention is better than cure” it is necessary for the system to be maintained in order to prevent breakdown.

The computer system should not be subjected to any form of heat, the system should be below normal room temperature and also the disks for backups should not be expose to any form of danger.

However, maintenance can either be preventive or corrective.

4.3 SYSTEM IMPLEMENTATION / ANALYSIS

The implementation stage is very crucial and important stage of system development, though this stage is less creative than the design stage, in the sense that it involve the utilization of already made and organized system. However, it is a very crucial stage.

Once a new system is developed, it has to be implemented. This is primarily concerned with users training. The user must be trained on how to input the necessary data and give instruction for processing the data supplied, giving output and hard copy of the processes.

The new work structure has to be established in such a way that it will meet user's expectation and value such that a set of social, technical and administrative relationship is developed.

CHAPTER FIVE

5.0 SUMMARY

The design and implementation of payroll system of Offa local Government was developed based on the user need and requirement for the efficient manipulation of salary and wages. This is done In order to curb the error prone problems. Also to relief the staff clerical work when preparing the payroll sheet.

5.1 CONCLUSION

In conclusion, we can see that this project work has achieved its aims. This is made possible because of the capability of the program to successfully handle and store all necessary input data, computing the employee payments.

5.2 RECOMMENDATION

Having undergone the system implementation of the proposed system (Application of Visual Basic I the design and implementation of payroll system).

This payroll system is strongly recommended for Offa local Government in order to alleviate the delay and in accuracy in the manual payroll system.

Having considered the cost and benefits of the system, the manual payroll should be replaced with the new system

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JAMES L. PETERSON , ABRAHAM SILBER SCHATZ (1987): OPERATING SYSTEM

[HTTP://knol.google.com/k/don-neumann/payroll development/](http://knol.google.com/k/don-neumann/payroll%20development/)

[HTTP://www.mhhe.com/cit/program/brandley6](http://www.mhhe.com/cit/program/brandley6)

APPENDIX

```
Option Explicit
Public LoginSucceeded As Boolean
Dim db As Database
Dim Rec As Recordset
Dim str As String
Dim icount As Integer

Private Sub Form_Activate()
Iblattend.Visible = False
Iblani.Visible = False
Timer1.Enabled = False
End Sub

Private Sub Form_KeyPress(KeyAscii As Integer)
If KeyAscii = 13 Then
Unload Me
Me.Show
End If
'-----
If KeyAscii = &H1B Then
Unload Me
End If

End Sub

Private Sub Form_Load()
Set db = OpenDatabase(App.Path & "\Security.Mdb", 1)
Set Rec = db.OpenRecordset("Login", 2)

End Sub
Private Sub Timer1_Timer()
If icount = 0 Then
Iblani.Visible = True
icount = 1

Elseif icount = 1 Then
Iblani.Visible = False
icount = 0
End If

End Sub

Private Sub txtPassword_KeyPress(KeyAscii As Integer)
'----Start-----
If KeyAscii = &H1B Then
```

```
Grade.AddItem g
Next g
'-----
cboSex.AddItem "Male"
cboSex.AddItem "Female"
cboStatus.AddItem "Single"
cboStatus.AddItem "Married"
cboStatus.AddItem "Divorced"
Randomize
```

```
Alp = "KW-OF-"
For S1 = 0 To 7 * Rnd
For S2 = 0 To 7 * Rnd
For S3 = 0 To 7 * Rnd
For S4 = 0 To 7 * Rnd
Next S4
Next S3
Next S2
Next S1
txtId = Alp & S1 & S2 & S3 & S4
```

```
End Sub
```

```
Private Sub Grade_Click()
Select Case Grade
Case "11"
```

```
step.clear
For i = 1 To 11
step.AddItem i
Next i
```

```
Case "12"
step.clear
For i = 1 To 9
step.AddItem i
Next i
```

```
Case "13"
```

```
step.clear
For i = 1 To 9
step.AddItem i
Next i
```

```
Case "14"
```

```
step.clear
```

```
If KeyAscii = 13 Then

With Rec
.FindFirst "Security=" & txtPassword & ""
If .NoMatch = False Then
    FrmLoad.Show
    LoginSucceeded = True
    Unload Me
    FrmLoad.Show
Else
    LoginSucceeded = False
    lblattend.Visible = True
    lbl1.Visible = False
    txtPassword.Visible = False
    ' lblani.Visible = True
Timer1.Enabled = True
    End If
End With
End If
'-----Test End-----

End Sub
```

```
Private Sub Form_Load()
    Timer1.Interval = 500
    Timer1.Enabled = True
End Sub
```

```
Private Sub hj_Click()
End
```

```
End Sub
```

```
Private Sub mnuAcademic_Click()
frmAca.Show
End Sub
```

```
Private Sub mnuacapay_Click()
frmmediRep.Refresh
frmmediRep.Show
End Sub
```

```
Private Sub mnuExit_Click()
End
End Sub
```

```
Private Sub mnuinfor_Click()
```

```
Dim Alp As String
Dim S1 As Integer
Dim S2 As Integer
Dim S3 As Integer
Dim S4 As Integer
Dim S5 As Integer
Dim S6 As Integer
Dim S7 As Integer
```

```
Private Sub cmdAdd_Click()
Unload Me
Me.Refresh
Me.Show
End Sub
```

```
Private Sub cmdClose_Click()
Unload Me
frmMenu.Refresh
End Sub
```

```
Private Sub cmdSave_Click()
If BirthDate = txttemp Then
MsgBox "Error in Date Supply, Reset Your Date"
Exit Sub
End If
```

```
If txtSur = "" Then
MsgBox "Enter the Surname", vbInformation
txtSur.SetFocus
Exit Sub
End If
```

```
If txtId = "" Then
MsgBox "Enter the StaffId", vbInformation
txtId.SetFocus
Exit Sub
End If
```

```
If txtOther = "" Then
MsgBox "Enter the Othername", vbInformation
txtOther.SetFocus
Exit Sub
End If
```

```
If txtAdd = "" Then
MsgBox "Enter the Address", vbInformation
txtAdd.SetFocus
Exit Sub
```

End If

```
If cboSex = "--" Then
MsgBox "Enter the Sex", vbInformation
cboSex.SetFocus
Exit Sub
End If
```

```
If txtDept = "" Then
MsgBox "Enter the Department", vbInformation
txtDept.SetFocus
Exit Sub
End If
```

```
If cboStatus = "--" Then
MsgBox "Enter the Marital Status", vbInformation
cboStatus.SetFocus
Exit Sub
End If
```

```
If txtLoc = "" Then
MsgBox "Enter the Local Govt", vbInformation
txtLoc.SetFocus
Exit Sub
End If
```

```
If txtOr = "" Then
MsgBox "Enter the State origin", vbInformation
txtOr.SetFocus
Exit Sub
End If
```

```
If txtQual = "" Then
MsgBox "Enter the Qualification", vbInformation
txtQual.SetFocus
Exit Sub
End If
```

```
If txtpost = "" Then
MsgBox "Enter the Postheld", vbInformation
txtpost.SetFocus
Exit Sub
End If
```

```
If txtemp = BirthDate Then
```

```

mAllowance - 1

m db As Database
m rs As Recordset

Private Sub cmbid_Click()
    Select Case cmbid
    Case cmbid.Text
        With rs
            FindFirst "Staffid='" & cmbid.Text & "'"
            If .NoMatch = False Then
                txtstaff = .Fields("Surname")
                txtgrade = .Fields("Grade")
                txtstep = .Fields("Post")
                frmAllowance.txtsalle = frmVaca.txtsalary
            End If
        End With

    End Select
End Sub

Private Sub Command1_Click()
    txtbasic = Val(t2.Text) + Val(t3.Text) + Val(t8.Text) + Val(T15.Text) + Val(T19.Text) + Val(T
0.Text)
    txtotherall = Val(t5.Text) + Val(t6.Text) + Val(t7.Text) + Val(T14.Text) + Val(T16.Text) + Val
T18.Text) + Val(T22.Text)

    frmAllowance.txtbasic = frmdeduction.txttotal

End Sub

Private Sub Command2_Click()
    frmVaca.txtFood = Val(T19) / 100 * Val(txtsalle)
    frmVaca.txtexam = Val(t8) / 100 * Val(txtsalle)
    frmVaca.txtHouse = Val(t2) / 100 * Val(txtsalle)
    frmVaca.txtjournal = Val(t6) / 100 * Val(txtsalle)
    frmVaca.txtleave = Val(T15) / 100 * Val(txtsalle)
    frmVaca.txtMed = 700
    frmVaca.txtTrans = Val(t3) / 100 * Val(txtsalle)
    frmVaca.txtAll = Val(txtotherall) / 100 * Val(txtsalle)

    frmVaca.txtDeduce = Val(txtbasic)
    MsgBox "Deduction Process Complete", vbInformation, "Deduction Process"

Inload Me
frmVaca.Refresh
frmVaca.cmdCalc = True
frmVaca.Show
End Sub

Private Sub Form_Load()
    txtsalle = frmVaca.txtsalary
    Set db = OpenDatabase(App.Path + "\Pay.mdb")
    Set rs = db.OpenRecordset("Academic", 2)
    With rs
        While Not .EOF
            cmbid.AddItem !staffid
            cmbgrade.AddItem !Grade
            .MoveNext
        Wend
    End With
End Sub

```

frmMenu - 1

```
Private Sub Form_Load()  
    Timer1.Interval = 500  
    Timer1.Enabled = True  
End Sub
```

```
Private Sub hj_Click()  
End
```

```
End Sub
```

```
Private Sub mnuAcademic_Click()  
frmAca.Show  
End Sub
```

```
Private Sub mnuacapay_Click()  
frmmediRep.Refresh  
frmmediRep.Show  
End Sub
```

```
Private Sub mnuExit_Click()  
End  
End Sub
```

```
Private Sub mnuinfor_Click()  
acarep.Show  
End Sub
```

```
Private Sub mnuNonAca_Click()  
frmNon.Show  
End Sub
```

```
Private Sub mnunonacademi_Click()  
frmnonmedi.Refresh  
frmnonmedi.Show  
End Sub
```

```
Private Sub mnuNonReport_Click()  
'payslip.Show  
End Sub
```

```
Private Sub mnuPesion_Click()  
frmPension.Show  
End Sub
```

```
Private Sub mnunostaffinfro_Click()  
NonRecord.Show  
End Sub
```

```
Private Sub mnuslip_Click()  
frmmeislip.Refresh  
frmmeislip.Show  
End Sub
```

```
Private Sub mnuVaca_Click()  
frmVaca.Show  
End Sub
```

```
Private Sub mnuVnon_Click()  
frmVnon.Show  
End Sub
```

```
Private Sub Timer1_Timer()  
Dim i As Integer  
For i = 0 To 15  
    lblCompanyProduct.ForeColor = QBColor(i) * Rnd  
Next i  
End Sub
```

```
s'  
O  
d  
F
```

Splash - 1

```
Private Sub Form_KeyPress(KeyAscii As Integer)
    If KeyAscii = 32 Then
        While pb.Max > pb.Value
            pb.Value = pb.Value + 1
        DoEvents
        Loop
    End If
    Me.Login.Show
    MsgBox "Invalid Key Press, Please press Space Bar to login Properly", vbInformation, "Payroll System"
End Sub
```

```

mVaca - 1

m db As Database
m rs As Recordset
ivate Sub cmdCalc_Click()
tallowance = Val(txtHouse) + Val(txtFood) + Val(txtMed) + Val(txtLeave) + Val(txtTrans) + Va
txtexam) + Val(txtJournal) + Val(txtAll)

tgross = Val(txtsalary) + Val(txtallowance)
tNet = Val(txtgross) - Val(txtDeduce)
xtsalary = Format(txtsalary, "###,###.00")
xtFood = Format(txtFood, "###,###.00")
xtMed = Format(txtMed, "###,###.00")
xtTrans = Format(txtTrans, "###,###.00")
xtleave = Format(txtleave, "###,###.00")
xtHouse = Format(txtHouse, "###,###.00")
xtJournal = Format(txtJournal, "###,###.00")
xtAll = Format(txtAll, "###,###.00")
xtexam = Format(txtexam, "###,###.00")
xtgross = Format(txtgross, "###,###.00")
xtNet = Format(txtNet, "###,###.00")
xtDeduce = Format(txtDeduce, "###,###.00")
xtallowance = Format(txtallowance, "###,###.00")
dCalc.Enabled = False
dSave.Enabled = True
d Sub

ivate Sub cmdGen_Click()
mVaca.Refresh
load Me
ml.Show
d Sub

b clear()
tId = ""
tSur = ""
tOther = ""
tDept = ""
tAdd = ""
tSex = ""
tMar = ""
tMed = ""
tHouse = ""
tFood = ""
tTrans = ""
tsal = ""
tgross = ""
tNet = ""
tDeduce = ""
tUnion = ""
tUtility = ""
tIncome = ""
d Sub
ivate Sub cmdSave_Click()
f txtsalary = "" Then
sgBox "Please Supply Staff Salary", vbInformation
xit Sub: End If

ith rs
FindFirst "StaffId =" & txtId & ""
f .NoMatch = False Then
sgBox "This Record is Already Exist"
xit Sub
nd If

AddNew
staffid = txtId
surname = txtSur
other = txtOther
dept = txtDept
Address = txtAdd
Grade = txtgrade
step = txtstep

```