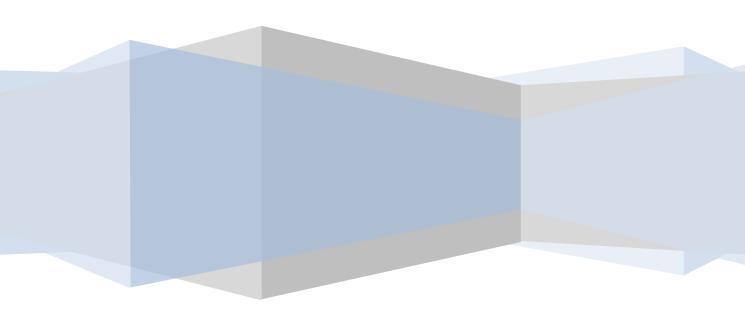
# **Chandana Apparels**



# **Payroll System**

**DCSD 12.2** 



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### **Preface**

A payroll system involves everything that has to be done with the payment of employees and filling of employee taxes and keeping tracks of hours, calculating wages, withholding taxes and other deductions, printing and delivering checks and paying employee taxes to the GVT and etc.

Considering all those above facts and the requirements of **Chandana Apparels**, we have successfully completed payroll software for their existing manual payroll system.

This is our DCSD 12.2 final group project for the Diploma in Computer System Designing at National Institute of Business Management Kurunegala. This project refers how we have done it step by step.

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# Acknowledgement

We have taken efforts in this project. However, it would not have been possible without the kind support and help of many individuals and the organization. I would like to extend my sincere thanks to all of them.

We are highly indebted to <u>Chandana Apparels</u> and for their guidance and constant supervision as well as for providing necessary information regarding the project & also for their support in completing the project & employees of Chandana <u>Apparels</u> for their kind co-operation and encouragement which help me in completion of this project. Special thanks go to Mr. Chandana Pathirana Kumara who is former manager of <u>Chandana Apparels</u>.

I would like to express my gratitude towards our course director of DCSD of NIBM Mr. Shafraz sir giving such a big opportunity to complete this project.

I would like to express my special gratitude and thanks to industry persons for giving me such attention and time including clerks, accountants, and employees too.

Our thanks and appreciations also go to my colleague in developing the project and people who have willingly helped me out with their abilities.

# Summary of the Project

This Project is about the payroll system of the <u>Chandana Apparels.</u> And first we have discussed about the existing manual payroll system by dividing it in to 4 main processes. There we try to emphasize its drawbacks and difficulties they would face and the importance of a computerized payroll system.

Including all the information of an employee which is taken through the HRM Department and considering other necessary entities we have drawn dataflow diagrams. By drawing these diagrams we got the general structure of the payroll system. We have included many data stores to keep data separately so any one can get the idea easily. (Dataflow diagrams designed by MS Visio 2010)

Reading the company's reports and bills etc, we have designed files and the interfaces. (Interfaces designed by Visual Studio 2010) After that according to the interfaces we wrote pseudo codes. Also we included real coding to some of our interfaces. And to get outputs we added a function to generate several reports as given below

- EPF and
- ETF Report
- OT Report
- No pay Report
- Pay Sheet
- Remittance Report

By considering these reports it is easy to find the needed details accurately and in efficient manner. Some of the reports have to send to central bank and also some are sent to the accountant and employee too. We successfully completed the project in this manner.

Finally we talked to the manager **Mr. Chandana Pathirana Kumara** and got his idea and we analyzed the benefits of the proposed system. And we included that one also

# **CONTENTS**

Title	
Preface	1
Acknowledgement	2
Summary of the Project	3
Introduction	
Terms of Reference	7
Feasibility Study	8
Methodology	9
Duration	10
Existing System	
History of the Organization	12
Existing System	13
Context Diagram for the existing system	14
Draw Backs	15
Proposed System	
Application Proposed	17
Security System	18

# Design of the proposed system

# Dataflow Diagram

Context Diagram for the Proposed System	22
Level 0 DFD for Proposed System	23
Level 1 DFD for the EPF, ETF, OT, No pay Process	24
Level 1 DFD for the Salary Calculation Process	25
Level 1 DFD for the Report Generation Process	26
File Design	
Files List	28
File Structures	29
Programs	
Programs List	47
Section Programs	48
Screens	
Screen List	88
Message Screen List	110
Reports	
Reports List	116
VB.net Codes	
Adding Data to Employee Master File	124
Modify Data from Employee Master File	127
Delete Data from Employee Master File	128

# **Cost and Advantages of the Proposed System**

Requirements	129
Cost Benefits of the System	130
Final Conclusion	132

# Chapter 1 Introduction

### **Terms of Reference**

We got the legal permission from the <u>Chandana Apparels</u>. Then we proposed a new computerized payroll system for the manual system of their garment by considering their needs. Our main aim was to give the best way to accomplish their requirements.

Efficiency and accuracy is highly improved by this system. Inserting, Updating, Deleting, Searching processes can be done correctly and quickly. To implement this project we need hardware and software too. And also a trained employee is needed to handle this because money transaction is directly done through this system.

Via internet we got lot of information to succeed this project from the sites below.

- http://en.wikipedia.org/wiki/Payroll
- http://www.ask.com/question/meaning-of-payroll-system
- <a href="http://www.sba.gov/content/10-steps-setting-payroll-system">http://www.sba.gov/content/10-steps-setting-payroll-system</a>
- https://itservices.uchicago.edu/services/payroll-system-payrollpersonnel-system
- <a href="http://www.bestprojectsidea.com/vb-6-0-synopsis/employee-and-payroll-system/">http://www.bestprojectsidea.com/vb-6-0-synopsis/employee-and-payroll-system/</a>

And also NIBM library was also very useful to use to gather data. Referring earlier projects and e-books we got the rough idea to make a good project. Here are the names of books we followed.

- Essentials of Payroll: Management and accounting by Steven M. Bragg John Wiley & Sons, Apr 21, 2003.
- Payroll and Accounting by Frank C. Giove.
- Payroll by Vicki M. Lambert, IOMA

Some PowerPoint presentations were also referred by us on account of gathering information

# **Feasibility Study**

We have categorized this into several fields as given below.

- Technical Feasibility
- Legal Feasibility
- Economic Feasibility
- Operational Feasibility

Feasibility study was done by various methods such as interviewing, observing, record reading, reviving past records and etc. That was the first step we took to start our project. We interviewed manager, accountant, clerks, peon, other employees and etc. We spent more than 2 weeks to collect them and study them well together. We took such a long time because it was very important to see what they are looking for. Also we wanted to determine whether the company has the technical expertise to handle the software.

Then we proposed a new computerized payroll system to the above garment. The facts we considered were mainly accuracy and efficiency, way to get reports etc. Actually we studied the history of the garment too.

We determined whether the proposed system conflicts with legal requirements and focused on the technical resources of the garment and also we got a rough idea about the cost for our software and what they hope from us. Then we moved in to our next step.

The main purpose of the economic feasibility assessment is to determine the positive economic benefits to the organization that the proposed system will provide. It includes quantification and identification of all the benefits expected. This assessment typically involves a cost/ benefits analysis.

Operational feasibility is a measure of how well a proposed system solves the problems, and takes advantage of the opportunities identified during scope definition and how it satisfies the requirements identified in the requirements analysis phase of system development

Under above fields we were able to cover the weaknesses in the existing system and got a good idea about their needed system.

# Methodology

We have described this briefly in the Summery of the Project also.

After the Feasibility study we followed the steps of the System Development Life Cycle (SDLC). They were.

- Project Planning.
- Project Analysis.
- System Designing.

Then we used the main analysis technique, data flow diagrams (DFD) to show the processes of the system. We hope to use Microsoft Access to connect the database which includes all the information of Employees.

And we are going to use vb.net and C# languages to implement this software in runtime environment.

Following are steps we followed to give the best performing software.

- 1. Study the current procedures in the system.
- 2. Point the weaknesses of the prevailing system.
- 3. Identify new needs of the employees.
- 4. Provide simple and best software to the garment.

Show the advantages of the proposed one.

# **Duration**

After we collected enough data we started our project in middle of August month. We drew a rough project plan and share our ideas with our group members. This is how we spent time on the project.

Data Collection : 2 weeks

Data Analysis : 3 weeks

System Designing and Report Writing : 2 months

# Chapter 2 Existing System

# **History of the Organization**

The wearing of clothing is exclusively a human characteristic and is a feature of most human societies. It is not known when humans began wearing clothes. <u>Anthropologists</u> believe that animal skins and vegetation were adapted into coverings as protection from cold, heat and rain, especially as humans migrated to new climates; alternatively, covering may have been invented first for other purposes, such as magic, decoration, cult, or prestige, and later found to be practical as well.

<u>Clothing</u> and <u>textiles</u> have been important in human history and reflects the <u>materials</u> available to a civilization as well as the technologies that it has mastered. The <u>social</u> significance of the finished product reflects their <u>culture</u>.

Textile industry is changing rapidly among people with the time. Nowadays people are looking for new fashionable clothing to act different and to keep their place in the society. Not like in early days, people have dozens of clothes and they offer may be half of their salary to shop keepers. This really has helped to widen this business in our country. And for that people have used many strategies to get the attention of people. This was the beginning of intercession of computerized systems in the industry to make them quick and accurate.

In 1999 Father of former manager at <u>Chandana Apparels</u> Mr. (name) started this garment at (place) with five workers and two sewing machines. But today this garment has provided more than 100 job opportunities. And they have uprooted their brand name somewhat too.

First this was started in a house and not so far away from the present location. But today it has spread over about 3 hectares with 5 sectors

- Cutting section
- Sawing section
- Stoking section
- Management section
- Security section

This garment provides many types of clothes such as baby, men, women and sport wearing to island wide shops. That the bit about the organization history.

# **Existing System**

#### **Basic Salary**

Salary is given to an employee according to their designation and qualifications.

#### **Gross Salary**

This is calculated from basic salary after making increments and deductions.

#### **Over Time**

This is calculated when an employee has worked more than normal hours.

- OT payment = (basic salary/250)\*No of OT Hours\*1.5
- OT payment = (basic salary/250)\*No of OT Hours\*2 (for Poyadays, mercantile holidays....etc.)

#### No pay

This is considered in two ways.

- If an employee has taken more than medical or annual leave than the limit. Then no payment is given.
- If an employee hasn't exceeded that limit then no pay amount is calculated as follows.

No Pay amount = (Basic Salary/25)\*(No Pay days)

#### Leave

- Annual Leave 14 days per a annum.
- Casual Leave 7 days per annum after a year of service.
- Medical Leave Maximum of 27 days per a annum and a illness should be supported by medical certificate from a registered medical practitioner.

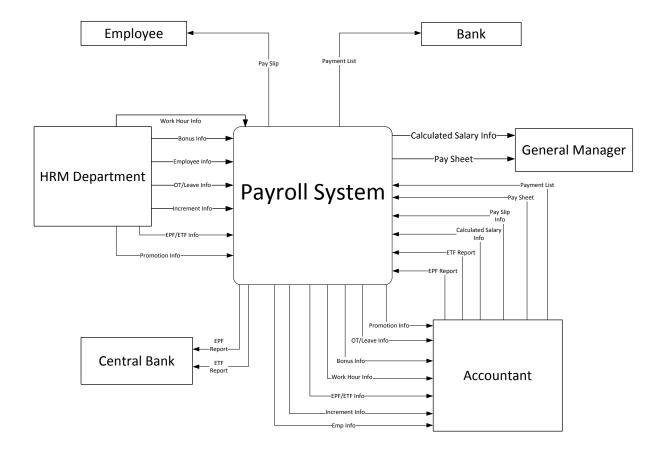
#### Employee Provident Fund (E.P.F)

This deduction is done for 10% of the basic salary. And company pays 5% of employees basic salary to his E.P.F.

#### Employee Trust Fund (E.T.F)

This Deduction IS 3% of the basic salary. This is completely paid by the employee.

# **Context Diagram of the Existing System**



### **Draw Backs**

The manual payroll system increases the risk of payroll errors. It is not efficient for larger payrolls because of manual processing. Even for a small payroll, the likelihood of errors exists, due to dependence on human calculations. To reduce errors, the payroll representative must check the payroll multiple times before issuing paychecks, which is time consuming. It also does not enable direct deposit—an electronic and convenient method of paying employees. Paper checks increase the likelihood of stolen and counterfeit checks.

The in-house computerized system requires the employer to buy payroll software and pay an on-site payroll staff, which can be expensive, especially for a large payroll staff. If the software is complex, the employer may have to pay for additional training to the staff.

.

Since the payroll service provider operates from an off-site location it may be difficult for the employer to get immediate help when needed. Furthermore, if the payroll service makes payroll tax errors, the employer gets penalized, not the payroll provider.

Draw Backs of the Existing System we have identified and categorized as follow for easy identification.

- More time consuming
- Low accuracy
- High Redundancy.
- Security Problems.
- Wastage of more papers.
- High error rate.

# Chapter 3 Proposed System

# **Application Proposed**

We have proposed a computerized payroll system for the existing system of <u>Chandana</u> Apparels to fulfill their requirements.

Our proposed system consists of 13 files. E use them to store employee details, leave info and data those are needed to make the calculation of salary. There must be a trained person to enter those details. Then the salary is calculated automatically by the system.

Once a payroll system is set up, the time taken to process a pay is less. You set up standard pays for people so that all allowances and deductions are processed without one thinking about it. Time is saved preparing pays and running the payroll so the employer saves money. All payroll records are held in one central place on a hard drive although it is still necessary to keep leave requests, printed pay summaries and copies of reports.

The most complicated area of payroll is working out the holiday pays (i.e. annual leave payments). Many get it wrong even using a computerized system Again, provided the set up is correct, processing holiday pays is a walk in the park compared to working them out manually. In Sri Lanka we are required to pay the higher of the average rate over the past 12 months or the normal (current) rate when an employee takes an annual leave day off. Imagine working this out manually.

And also it is easy to backup the payroll file for safe keeping. Paper based systems are not backed up, so if the pay book was lost or destroyed then the firm could face big problems.

This system is easy to use and also accuracy is very high when we compare with the existing manual system. And also we can generate reports quickly after entering those details. Human errors are also can be reduced by this software. And we have managed system to show error messages when we enter invalid data to the system. Therefore no invalid data can be entered. This is brief description about the proposed system.

# **Security System**

A payroll system needs security or controls so as to minimize or reduce the possibility of employees stealing and forging cheques. In addition, the system should have security so as to deny access to unauthorized persons.

Following were done when we designed the software.

Security measures can be implemented.

- Logging off the payroll system before leaving the computer
- Positioning the computer screen so that unauthorized persons cannot view the display
- Ensuring that confidential information cannot be viewed by unauthorized persons and is stored securely at the end of each day
- Not discussing the personal details of staff within hearing of unauthorized persons
- Ensuring that only authorized persons are given information regarding staff pay details
- Ensuring data is used only for the purposes for which it was intended.

We have used a login window in the beginning. Logged user can do these operations.

- Read
- Write
- Modify
- Delete

And also we have used an option to add new users and this can be only done by a logged user. Only administrator can accesses security system and this provides high security level for the system.

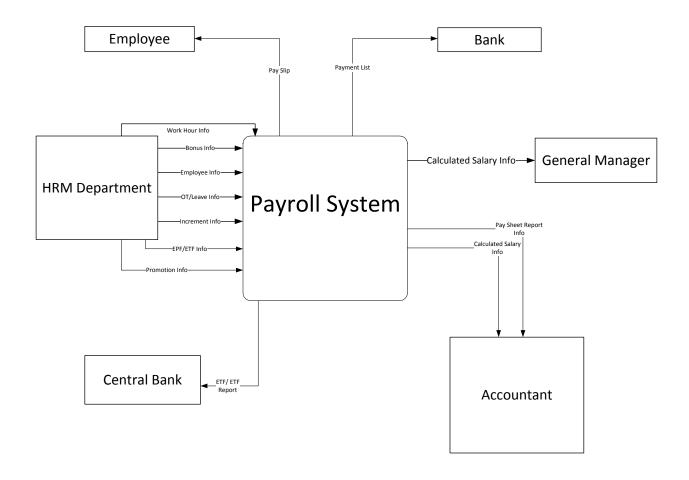
# Chapter 4 Design of the Proposed System

# Chapter 4

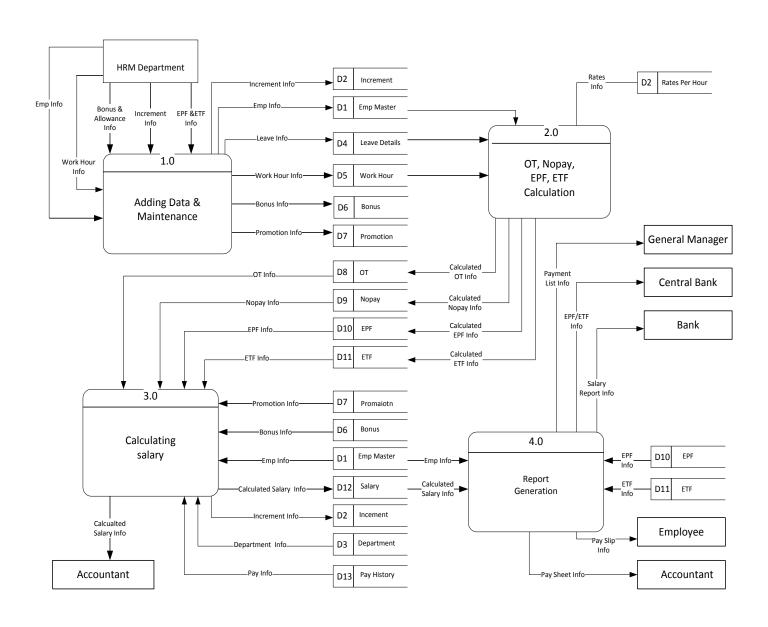
Design of the proposed system

Dataflow Diagram

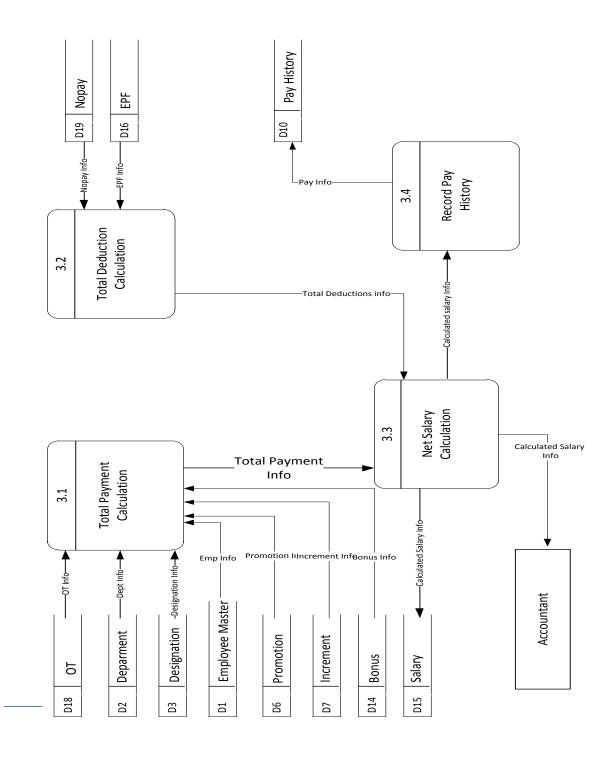
# **Context Diagram of the Proposed System**



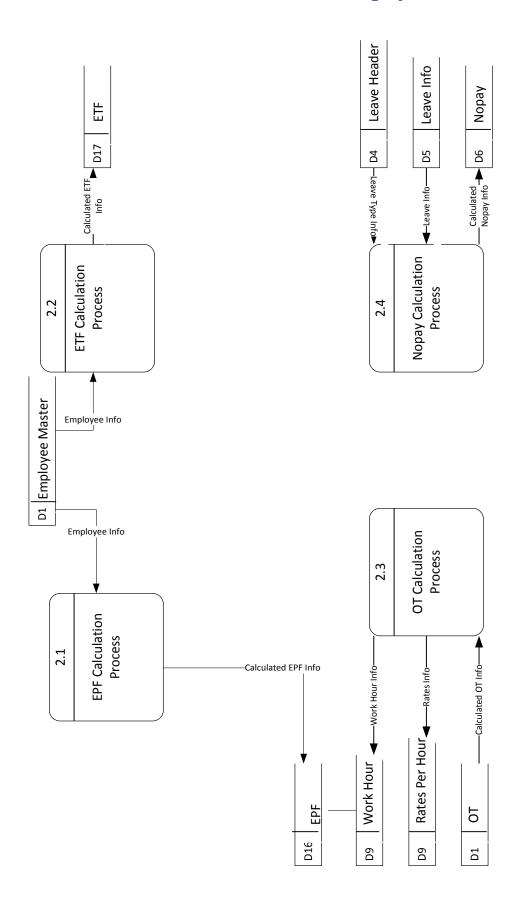
# **Level 0 DFD for Proposed System**



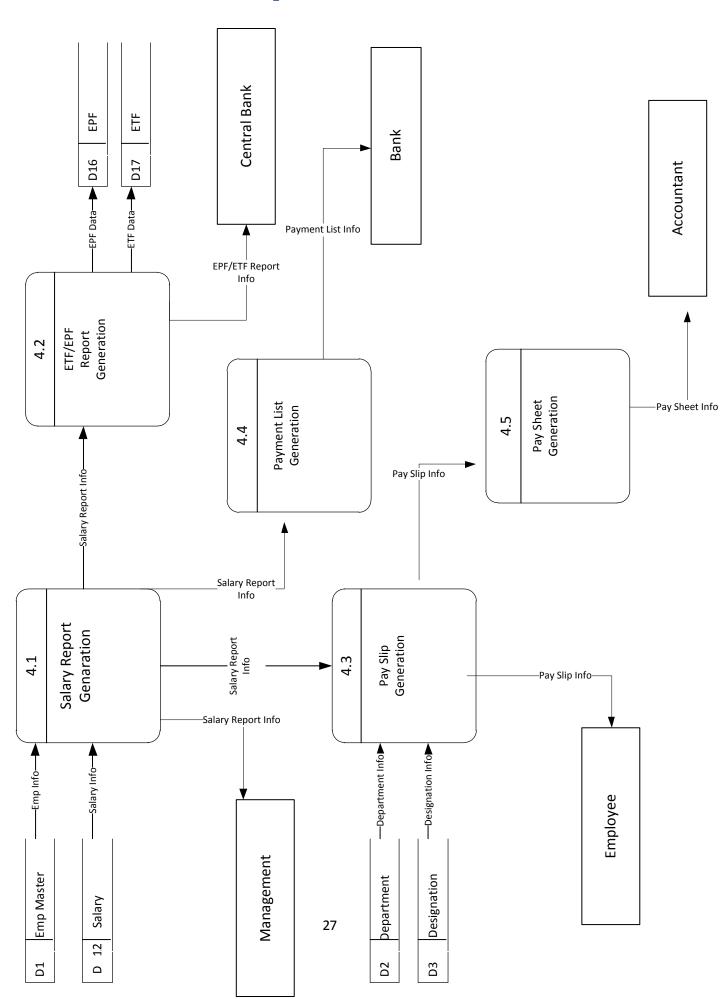
# **Level 1 DFD for the Salary Calculation Process**



# Level 1 DFD for the EPF, ETF, OT, No pay Process



# **Level 1 DFD for the Report Generation Process**



Chapter 4
Design of the proposed
system
File Design

# **Files List**

File No	File Name	Page No
SF1	Login	28
SF2	Signup	29
D1	Employee Master	30
D2	Department	31
D3	Leave Details	32
D4	Promotion	33
D5	Increment	34
D6	Work Hour	35
D7	Pay History	36
D8	Rates Per Hour	37
D9	Bonus	38
D10	Salary	39
D11	EPF	40
D12	ETF	41
D13	ОТ	42
D14	No pay	43

Chapter 4
Design of the proposed system
Section File Design

File Structures

# **Login File**

File No : SF1
File Name : Login File

Description : Username and password of the system

File Organization : Random
File Type : Reference File
Primary Key : UName

Foreign Key :

Record Size : 16 bytes

Field Name	Description	Туре	Size
UName	Username	Char	10
PWord	Password	Char	6

# **Signup File**

File No : SF2

File Name : Signup File

Description : Username and password create for the system

File Organization : Random
File Type : Reference File
Primary Key : UName

Foreign Key :

Record Size : 16 bytes

Field Name	Description	Туре	Size
UName	Username	Char	10
PWord	Password	Char	6

# **Employ Master File**

File No : D1

File Name : Employee Master

Description : Employee Personal File

File Organization : Indexed Sequential

File Type : Master File Primary Key : EmpNo

Foreign Key : DeptNo, DesigNo

Record Size : 144 bytes

Field Name	Description	Туре	Size
EmpNo	Employee Number	Numeric	5
FName	First Name	Char	15
LName	Last Name	Char	20
AddL1	Address Line 1	Char	15
AddL2	Address Line 2	Char	15
NIC	NIC Number	Char	10
Sex	Male/Female	Char	1
DOB	Date Of Birth	Date	8
MStatus	Marriage Status	Char	1
DesigNo	Designation Number	Char	10
DeptNo	Department Number	Numeric	4
BSal	Basic Salary	Currency	10
DJoin	Date Joined	Date	8
Status	Permanent/Casual	Char	1
TelNo	Home Telephone No	Numeric	10
DiffTP	Office T/P No	Numeric	10
BaAcNo	Bank Account No	Numeric	15

# **Department File**

File No : D2

File Name : Department File

Description : Department reference File

File Organization : Indexed Sequential File Type : Reference File

Primary Key : DeptNo

Foreign Key :

Record Size : 20 bytes

Field Name	Description	Туре	Size
DeptNo	Department No	Char	4
DeptName	Department Name	Char	16

# **Leave Detail File**

File No : D3

File Name : Leave detail File
Description : Leave Transaction File
File Organization : Indexed Sequential
File Type : Transaction File

Primary Key : Year
Foreign Key : EmpNo
Record Size : 16 bytes

Field Name	Description	Туре	Size
EmpNo	Employee Number	Numeric	5
Year	Year	Numeric	4
Month	Month	Numeric	2
NoLeaves	No of Leaves	Numeric	2
NoPay	No of no pay days	Numeric	3

# **Promotion File**

File No : D4

File Name : Promotion File

Description : Promotion Data Of Employee

File Organization : Indexed Sequential File Type : Transaction File Primary Key : PromoDate Foreign Key : EmpNo , DeptNo

Record Size : 37 bytes

Field Name	Description	Туре	Size
EmpNo	Employee Number	Numeric	5
DeptNo	Department Number	Char	4
PromoDate	Promoted Date	Date	8
Description	Remarks	Char	20

#### **Increment File**

File No : D5

File Name : Increment File

Description : Increment Data Of Employee

File Organization : Indexed Sequential File Type : Transaction File

Primary Key : DeptNo

Foreign Key : EmpNo , DeptNo, DesigNo

Record Size : 35 bytes

Field Name	Description	Type	Size
EmpNo	Employee Number	Numeric	5
DeptNo	Department Number	Char	4
IncreAmt	Increment Amount	Currency	8
BSal	Basic Salary	Currency	10
Incre Date	Increment Date	Date	8

#### **Work Hour File**

File No : D6

File Name : Work Hour File

Description : Details about worked hour of employees

File Organization : Random

File Type : Transaction File

Primary Key : Year
Foreign Key : EmpNo
Record Size : 21 bytes

Field Name	Description	Туре	Size
EmpNo	Employee Number	Numeric	5
Year	Year	Numeric	4
Month	Month	Numeric	2
Hours	No of extra hours	Numeric	10

# **Pay History File**

File No : D7

File Name : Pay History File

Description : Details about pay history of employees

File Organization : Random

File Type : Transaction File

Primary Key : Year
Foreign Key : EmpNo
Record Size : 41 bytes

Field Name	Description	Туре	Size
EmpNo	Employee Number	Numeric	5
Year	Year	Numeric	4
Month	Month	Numeric	2
NetPay	NetPay	Currency	10
TEarn	Total Earning	Currency	10
TDeduct	Total Deductions	Currency	10

# **Rates per Hour File**

File No : D8

File Name : Rates Per Hour File

Description : Rates paid per hour to the employee

File Organization : Random
File Type : Reference File

Primary Key : Rate
Foreign Key : Status
Record Size : 20 bytes

Field Name	Description	Туре	Size
Status	Post	Char	10
Rate	Rate per hour	Numeric	10

#### **Bonus File**

File No : D9

File Name : Bonus File

Description : Amount of bonus to the employee

File Organization : Random

File Type : Transaction File

Primary Key : Date
Foreign Key : EmpNo
Record Size : 22 bytes

Field Name	Description	Туре	Size
EmpNo	Employee Number	Numeric	4
Date	Date Paid	Date	8
Amt	Amount Paid	Numeric	10

# **Salary File**

File No : D10

File Name : Salary File

Description : Details of the salary paid to the employees

File Organization : Indexed Sequential File Type : Transaction File

Primary Key : Year

Foreign Key :

Record Size : 61 bytes

Field Name	Description	Туре	Size
EmpNo	Employee Number	Numeric	5
Year	Year	Numeric	4
Month	Month	Numeric	2
BSal	Basic Salary	Currency	10
TEarns	Total Earnings	Currency	10
GSal	Gross Salary	Currency	10
TDeduct	Total Deductions	Currency	10
NetSal	NetSalary	Currency	10

#### **EPF File**

File No : D11 File Name : EPF File

Description : Details of EPF Contribution of employees

File Organization : Indexed Sequential File Type : Transaction File

Primary Key : EPFNo Foreign Key : EmpNo Record Size : 21 bytes

Field Name	Description	Туре	Size
EmpNo	Employee Number	Numeric	5
EPFNo	Employee Provident	Numeric	4
	Fund Number		
Month	Month	Numeric	2
EMPIRate	Employer's Rate	Numeric	5
Emplyee Rate	Employees Rate	Numeric	5

#### **ETF File**

File No : D12 File Name : ETF File

Description : Details of ETF Contribution of employees

File Organization : Indexed Sequential File Type : Transaction File

Primary Key : ETFNo
Foreign Key : EmpNo
Record Size : 22 bytes

Field Name	Description	Туре	Size
EmpNo	Employee Number	Numeric	5
ETFNo	Employee Trust Fund	Numeric	4
	Number		
Month	Month	Date	8
EMPIRate	Employer's Rate	Numeric	5

#### **OT File**

File No : D13 File Name : OT File

Description : OT Details of employees
File Organization : Indexed Sequential
File Type : Transaction File

Primary Key : Year
Foreign Key : EmpNo
Record Size : 33 bytes

Field Name	Description	Туре	Size
EmpNo	Employee Number	Numeric	5
Year	Year	Numeric	4
Month	Month	Date	8
OT Hour	Number of OT Hour	Numeric	4
OT Rate	OT Rate Per Hour	Numeric	4
Amount	Amount	Numeric	8

# **No Pay File**

File No : D14

File Name : No Pay File

Description : No Pay Details of employees

File Organization : Indexed Sequential File Type : Transaction File

Primary Key : Year
Foreign Key : EmpNo
Record Size : 21 bytes

Field Name	Description	Туре	Size
EmpNo	Employee Number	Numeric	5
Year	Year	Numeric	4
Month	Month	Date	8
NPDays	No Pay Days	Numeric	4

# Chapter 4 Design of the proposed system Programs

# **Programs List**

Program No	Program Name	Page No
P1	Login	47
P2	Signup	48
P3	Main Form	49
P4	Search	50
P5	Maintenances	52
P6	Reports	54
P7	Tool	56
P8	Employee Master	57
P9	Department	59
P10	Pay History	61
P11	Rates Per Hour	63
P12	Bonus	65
P13	Salary	67
P14	EPF	69
P15	ETF	71
P16	ОТ	73
P17	No pay	75
P18	Leave Details	77
P19	Work Hour	79
P20	Increment	81
P21	Promotion	83

Chapter 4
Design of the proposed system
Section Programs

**Programs Structures** 

#### **Program 1 Login**

Program ID Description Login Check Screen Name Screen 1 Login File Input File Output File **Output Report** Begin program Display Screen (S1) Input username and password if log Button Clicked if any textboxes are empty then Display Message Screen (MS 1) else Open Login File seek Uname=File UName and PWord=File PWord If Username and Password Not Found then Display Error Message (MS 7) Else Display Screen (MS 9) End if End if Else If ClearButton Clicked Clear Textbox1 and Textbox2

#### Else if AddUserButton Clicked

Display Screen (S2)

End if

**End Program** 

# **Program 2 Signup**

Program ID : 02

Description : Signup Check

Screen Name : Screen 02

Input File : Signup File

Output File :

Output Report :

Begin program

Display Screen (S1)

Input username and password

If Sign up Button Clicked

if any textboxes are empty then

Display Message Screen (MS 1)

Else

Open Signup File

Find Uname and PWord=File UName,PWord

If Username and Password Not Found then

Display Error Message (MS 7)

Else

Display Screen (S 3)

#### End if

#### End if

Else If Clear Button Clicked

Clear Textbox1 and Textbox2

End if

**End Program** 

## **Program 3 Main Form**

Program ID : 03

Description : Main Form

Screen Name : Screen 03

Input File :

Output File :

Output Report :

Begin program

Display Screen (S 3)

Input username and password

if Search Button Clicked

Display Screen(S 4)

Else If Maintenance Button Clicked

Display Screen(S 8)

Else If Report Button Clicked

Display Screen(S 6)

Else If Tools Button Clicked

Display Screen(S 7)

Else If Back Button Clicked

Display Screen(S 1)

Else If Exit Button Clicked

**End Program** 

#### **Program 4 Search**

Program ID : 04

Description : Search

Screen Name : Screen 04

Input File : Employee Master File

Output File :

Output Report :

Begin program

Display Screen (S 4)

Input Emp\_No

if Search Button Clicked

if EMp\_No Text box Empty then

Display Message Screen (MS 1)

Else

Open Employee Master File

Seek Emp\_No=File Emp\_No

if Found then

Get Information into Grid View

Display Grid View

Else

Display Message Screen (MS 6)

End if

End if

If Grid view Row Double Clicked then

Get all Information from Selected row

Send to Employee master textboxes

End if

# **Program 5 Maintenances**

Program ID : 05

Description : Maintenance Menu

Screen Name : Screen 5

Input File :

Output File :

Output Report :

Begin program

If Employee Master Button Clicked

Display Screen(S 8)

Else if Work hour Button dicked

Display Screen(S 18)

Else If EPF Details Button Clicked

Display Screen(S 14)

Else If ETF Details Button Clicked

Display Screen(S 15)

Else If Department Details Button Clicked

Display Screen(S 9)

Else If Pay history Button Clicked

Display Screen(S 10)

Else If OT Details Button Clicked

Display Screen(S 16)

Else If Leave Details Button Clicked

Display Screen(S 19)

Else If EPF Rates per hour Button Clicked

Display Screen(S 11)

Else If No pay Details Button Clicked

Display Screen(S 17)

Else If Promotion Details Button Clicked

Display Screen(S 21)

Else If Salary Details Button Clicked

Display Screen(S 13)

Else If Bonus Details Button Clicked

Display Screen(S 12)

Else If Increment Details Button Clicked

Display Screen(S 20)

Else If ETF Details Button Clicked

Display Screen(S 15)

Else If Back Button Clicked

Display Screen(S 1)

Else If Exit Button Clicked

**End Program** 

End if

#### **End Program**

#### **Program 6 Report**

Program ID : 06

Description : Report Menu

Screen Name : Screen 6

Input File :

Output File :

Output Report :

Begin program

If ETF Report Button Clicked

Display Screen(S 22)

Else if Payment List Button clicked

Display Screen(S 23)

Else If EPF Report Button Clicked

Display Screen(S 24)

Else If ETF Report Button Clicked

Display Screen(S 25)

Else If OT Report Button Clicked

Display Screen(S 26)

Else If Day Report Button Clicked

Display Screen(S 27)

Else If No Pay Report Button Clicked

Display Screen(S 28)

Else If Back Button Clicked

Display Screen(S 1)

Else If Exit Button Clicked

End Program

End if

End Program

# **Program 6 Tools**

Program ID : 06

Description : Tools

Screen Name : Screen 6

Input File :

Output File :

Output Report :

Begin program

If about Button Clicked

**Display About** 

Else if Help Button clicked

Display Help

Else If Change Password Button Clicked

If any textboxes are empty then

Display Message Screen (MS 1)

Else

Open signup File

Seek UName=current user name textbox

PWord= current password textbox

Update record to file

End if

End if

End program

## **Program 8 Maintenance** > **Employee Master**

Program ID : 08

Description : Employee master

Screen Name : Screen 08

Input File : Employee Master File

Output File :

Output Report :

Begin program

Open Employee master file

Display Screen (S 8)

Input all textboxes data

if Add Button Clicked

if any textboxes are empty then

Display Message Screen (MS 1)

Else if already exist data found then Display Message Screen (MS 2) Else Write record to file Display Message Screen (MS 3) End if Else If Modify Button Clicked if any textboxes are empty then Display Message Screen (MS 1) Else if already Exist data found then Display Message Screen (MS 2) Else Update record to file Display Message Screen (MS 4) End if Else if Delete Button Clicked Seek record from file if Emp\_No= File Emp\_No Delete record from file Display Message Screen (MS 5) End if Else if Find Button Clicked then Display Screen (S 4) End if

**End Program** 

## **Program 9 Maintenance** > **Department**

Program ID : Program 09

Description : Department

Screen Name : Screen 9

Input File : Department File

Output File :

Output Report :

Begin program

Open Department file

Display Screen (S 9)

Input Dept\_code and Dept\_name

if Add Button Clicked

if any textboxes are empty then

Display Message Screen (MS 1) Else if already exist data found then Display Message Screen (MS 2) Else Write record to file Display Message Screen (MS 3) End if Else If Modify Button Clicked if any textboxes are empty then Display Message Screen (MS 1) Else if already Exist data found then Display Message Screen (MS 2) Else Update record to file Display Message Screen (MS 4) End if Else if Delete Button Clicked Seek record from file if Emp\_No= File Emp\_No Delete record from file Display Message Screen (MS 5) End if Else if Find Button Clicked then Display Screen (S 4)

End if

#### **End Program**

## **Program 10 Maintenance** > Pay History

Program ID : Program 10

Description : Pay History

Screen Name : Screen 10

Input File : Pay History File

Output File :

Output Report :

Begin program

Display Screen (S 10)

Open Pay history File

Input all textboxes Data

if Add Button Clicked

if any textboxes are empty then

Display Message Screen (MS 1) Else if already exist data found then Display Message Screen (MS 2) Else Write record to file Display Message Screen (MS 3) End if Else If Modify Button Clicked if any textboxes are empty then Display Message Screen (MS 1) Else if already Exist data found then Display Message Screen (MS 2) Else Update record to file Display Message Screen (MS 4) End if Else if Delete Button Clicked Seek record from file if Emp\_No= File >Emp\_No Delete record from file Display Message Screen (MS 5) End if Else if Find Button Clicked then Display Screen (S 4)

End if

#### **End Program**

## **Program 11 Maintenance** > Rates per hour

Program ID : Program 11

Description : Rates per hour

Screen Name : Screen 11

Input File : Rates Per Hour Detail File

Output File :

Output Report :

Begin program

Display Screen (S 11)

Open Rates per hour File

Input all textboxes Data

if Add Button Clicked

if any textboxes are empty then

Display Message Screen (MS 1)

Else if already exist data found then

Display Message Screen (MS 2)

Else

Write record to file

Display Message Screen (MS 3)

End if

Else If Modify Button Clicked

if any textboxes are empty then

Display Message Screen (MS 1)

Else if already Exist data found then

Display Message Screen (MS 2)

Else

Update record to file

Display Message Screen (MS 4)

End if

Else if Delete Button Clicked

Seek record from file

if Emp\_No= File >Emp\_No

Delete record from file

Display Message Screen (MS 5)

End if

Else if Find Button Clicked then

Display Screen (S 4)

End if

**End Program** 

## **Program 12 Maintenance** > **Bonus**

Program ID : Program 12

Description : Bonus

Screen Name : Screen 12

Input File : Bonus Detail File

Output File :

Output Report :

Begin program

Display Screen (S 12)

Open Bonus File

Input all textboxes Data

if Add Button Clicked

if any textboxes are empty then Display Message Screen (MS 1) Else if already exist data found then Display Message Screen (MS 2) Else Write record to file Display Message Screen (MS 3) End if Else If Modify Button Clicked if any textboxes are empty then Display Message Screen (MS 1) Else if already Exist data found then Display Message Screen (MS 2) Else Update record to file Display Message Screen (MS 4) End if

Else if Delete Button Clicked

Seek record from file

if Emp\_No= File >Emp\_No

Delete record from file

Display Message Screen (MS 5)

End if

Else if Find Button Clicked then

Display Screen (S 4)

End if

**End Program** 

## Program 13 Maintenance > Salary

Program ID : Program 13

Description : Salary Details

Screen Name : Screen 13

Input File : Salary File

Output File :

Output Report :

Begin program

Display Screen (S 13)

Open Salary File

Input all textboxes Data

if Add Button Clicked

```
if any textboxes are empty then

Display Message Screen (MS 1)
```

Else if already exist data found then

Display Message Screen (MS 2)

Else

Write record to file

Display Message Screen (MS 3)

End if

Else If Modify Button Clicked

if any textboxes are empty then

Display Message Screen (MS 1)

Else if already Exist data found then

Display Message Screen (MS 2)

Else

Update record to file

Display Message Screen (MS 4)

End if

Else if Delete Button Clicked

Seek record from file

if Emp\_No= File >Emp\_No

Delete record from file

Display Message Screen (MS 5)

End if

Else if Find Button Clicked then

Display Screen (S 4)

End if

**End Program** 

## Program 14 Maintenance > EPF

Program ID : Program 14

Description : EPF

Screen Name : Screen 14

Input File : EPF Detail File

Output File :

Output Report :

Begin program

Display Screen (S 14)

Open EPF File

Input all textboxes Data

if Add Button Clicked

if any textboxes are empty then

Display Message Screen (MS 1)

Else if already exist data found then

,

Display Message Screen (MS 2)

Else

Write record to file

Display Message Screen (MS 3)

End if

Else If Modify Button Clicked

if any textboxes are empty then

Display Message Screen (MS 1)

Else if already Exist data found then

Display Message Screen (MS 2)

Else

Update record to file

Display Message Screen (MS 4)

End if

Else if Delete Button Clicked

Seek record from file

if Emp\_No= File >Emp\_No

Delete record from file

Display Message Screen (MS 5)

End if

Else if Find Button Clicked then

Display Screen (S 4)

**End Program** 

## Program 15 Maintenance >

Program ID : Program 15

Description : ETF

Screen Name : Screen 15

Input File : ETF Detail File

Output File :

Output Report :

Begin program

Display Screen (S 15)

Open ETF File

Input all textboxes Data

if Add Button Clicked

**ETF** 

if any textboxes are empty then Display Message Screen (MS 1) Else if already exist data found then Display Message Screen (MS 2) Else Write record to file Display Message Screen (MS 3) End if Else If Modify Button Clicked if any textboxes are empty then Display Message Screen (MS 1) Else if already Exist data found then Display Message Screen (MS 2) Else Update record to file Display Message Screen (MS 4)

End if

Seek record from file

if Emp\_No= File >Emp\_No

Delete record from file

Display Message Screen (MS 5)

End if

Else if Find Button Clicked then

Display Screen (S 4)

**End Program** 

## **Program 16 Maintenance** > **OT**

Program ID : Program 16

Description : OT

Screen Name : Screen 16

Input File : OT File

Output File :

Output Report :

Begin program

Display Screen (S 13)

Open OT File

Input all textboxes Data

if Add Button Clicked

if any textboxes are empty then Display Message Screen (MS 1) Else if already exist data found then Display Message Screen (MS 2) Else Write record to file Display Message Screen (MS 3) End if Else If Modify Button Clicked if any textboxes are empty then Display Message Screen (MS 1) Else if already Exist data found then Display Message Screen (MS 2) Else Update record to file Display Message Screen (MS 4) End if Else if Delete Button Clicked Seek record from file if Emp\_No= File Emp\_No

Delete record from file

Display Message Screen (MS 5)

End if

Else if Find Button Clicked then

Display Screen (S 4)

**End Program** 

## Program 17 Maintenance Employee > No pay

Program ID : Program 17

Description : No Pay

Screen Name : Screen 17

Input File : No Pay Detail File

Output File :

Output Report :

Begin program

Display Screen (S 17)

Open No pay File

Input all textboxes Data

if Add Button Clicked

if any textboxes are empty then Display Message Screen (MS 1) Else if already exist data found then Display Message Screen (MS 2) Else Write record to file Display Message Screen (MS 3) End if Else If Modify Button Clicked if any textboxes are empty then Display Message Screen (MS 1) Else if already Exist data found then Display Message Screen (MS 2) Else Update record to file Display Message Screen (MS 4) End if

Else if Delete Button Clicked

Seek record from file

if Emp\_No= File >Emp\_No

Delete record from file

Display Message Screen (MS 5)

End if

Else if Find Button Clicked then

Display Screen (S 4)

**End Program** 

## **Program 18 Maintenance** > Leave Details

Program ID : Program 18

Description : Leave Details

Screen Name : Screen 18

Input File : Leave Details File

Output File :

Output Report :

Begin program

Display Screen (S 18)

Open Leave details File

Input all textboxes Data

if Add Button Clicked

if any textboxes are empty then Display Message Screen (MS 1) Else if already exist data found then Display Message Screen (MS 2) Else Write record to file Display Message Screen (MS 3) End if Else If Modify Button Clicked if any textboxes are empty then Display Message Screen (MS 1) Else if already Exist data found then Display Message Screen (MS 2) Else Update record to file Display Message Screen (MS 4) End if Else if Delete Button Clicked Seek record from file if Emp\_No= File >Emp\_No Delete record from file Display Message Screen (MS 5) End if

Else if Find Button Clicked then

Display Screen (S 4)

81

**End Program** 

## **Program 19 Maintenance** > Work Hour

Program ID : Program 19

Description : Wok hour

Screen Name : Screen 19

Input File : Work Hour Detail File

Output File :

Output Report :

Begin program

Display Screen (S 19)

Open Work hour File

Input all textboxes Data

if Add Button Clicked

if any textboxes are empty then Display Message Screen (MS 1) Else if already exist data found then Display Message Screen (MS 2) Else Write record to file Display Message Screen (MS 3) End if Else If Modify Button Clicked if any textboxes are empty then Display Message Screen (MS 1) Else if already Exist data found then Display Message Screen (MS 2) Else Update record to file Display Message Screen (MS 4) End if Else if Delete Button Clicked Seek record from file if Emp\_No= File >Emp\_No Delete record from file Display Message Screen (MS 5) End if

Else if Find Button Clicked then

Display Screen (S 4)

83

**End Program** 

## **Program 20 Maintenance** > **Increment**

Program ID : Program 20

Description : Increment

Screen Name : Screen 20

Input File : Increment File

Output File :

Output Report :

Begin program

Display Screen (S 20)

Open Increment File

Input all textboxes Data

if Add Button Clicked

if any textboxes are empty then Display Message Screen (MS 1) Else if already exist data found then Display Message Screen (MS 2) Else Write record to file Display Message Screen (MS 3) End if Else If Modify Button Clicked if any textboxes are empty then Display Message Screen (MS 1) Else if already Exist data found then Display Message Screen (MS 2) Else Update record to file Display Message Screen (MS 4) End if Else if Delete Button Clicked Seek record from file if Emp\_No= File Emp\_No Delete record from file Display Message Screen (MS 5) End if Else if Find Button Clicked then

Display Screen (S 4)

**End Program** 

# **Program 21 Maintenance** > **Promotion**

Program ID : Program 21

Description : Promotion

Screen Name : Screen 21

Input File : Department File

Output Fie :

Output Report :

Begin program

Display Screen (S 21)

Open Promotion File

Input all textboxes Data

if Add Button Clicked

if any textboxes are empty then

Display Message Screen (MS 1)

Else if already exist data found then

Display Message Screen (MS 2)

Else

Write record to file

Display Message Screen (MS 3)

End if

Else If Modify Button Clicked

if any textboxes are empty then

Display Message Screen (MS 1)

Else if already Exist data found then

Display Message Screen (MS 2)

Else

Update record to file

Display Message Screen (MS 4)

End if

Else if Delete Button Clicked

Seek record from file

if Emp\_No= File >Emp\_No

Delete record from file

Display Message Screen (MS 5)

End if

Else if Find Button Clicked then

Display Screen (S 4)

**End Program** 

# Chapter 4 Design of the proposed system

Screens

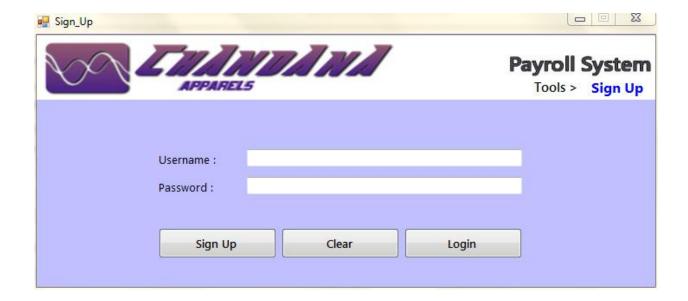
## **Screen List**

Screen No	Screen Name	Page No
S1	Login	87
S2	Signup	88
S3	Main Form	89
S4	Search	90
S5	Maintenances	91
S6	Reports	92
S7	Tools	93
S8	Employee Master	94
S9	Department	95
S10	Pay History	96
S11	Rates Per Hour	97
S12	Bonus	98
S13	Salary	99
S14	EPF	100
S15	ETF	101
S16	ОТ	102
S17	No pay	103
S18	Work Hour	104
S19	Leave Details	105
S20	Increment	106
S21	Promotion	107
S22	Report Viewer	108

# **Screen 01 Logging**



# Screen 02 Signup



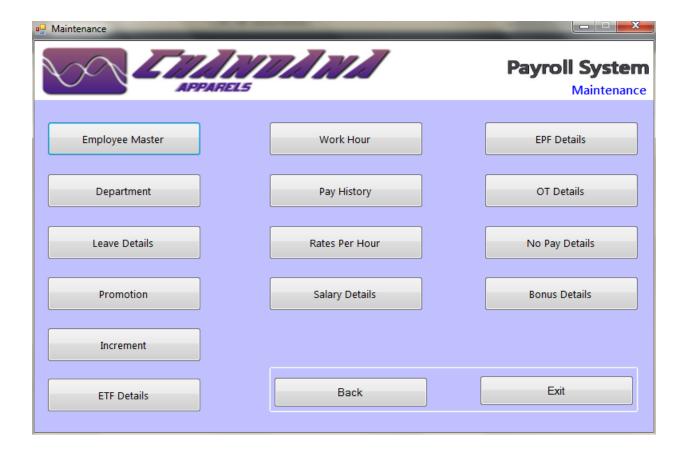
#### **Screen 03 Main Form**



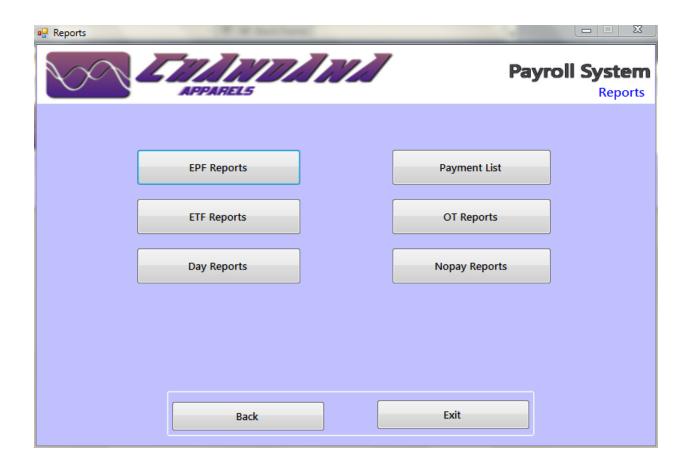
#### **Screen 04 Search**



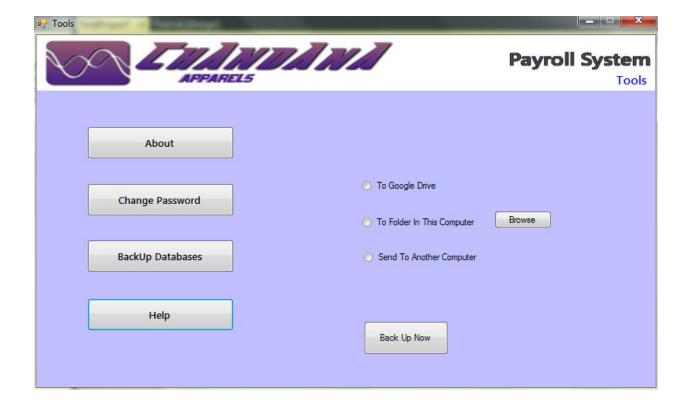
### **Screen 05 Maintenances**



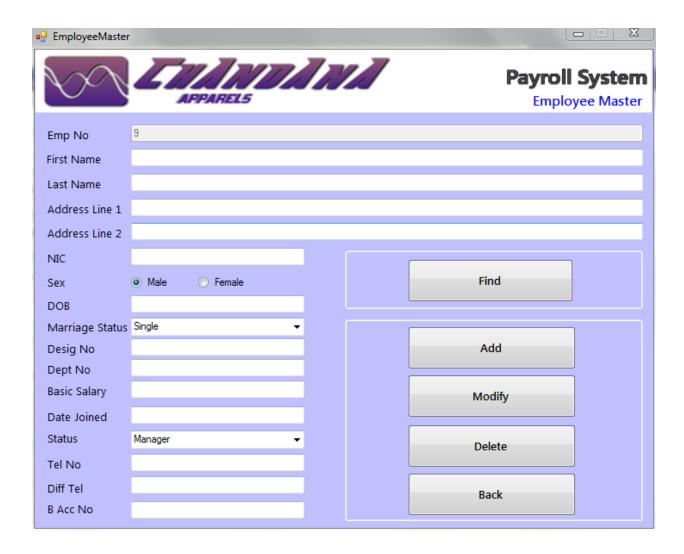
# **Screen 06 Reports**



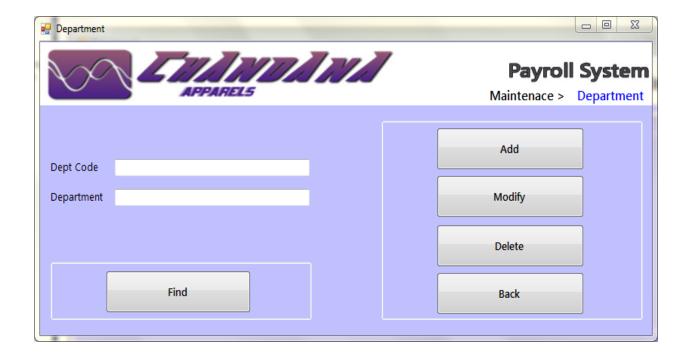
#### **Screen 07 Tools**



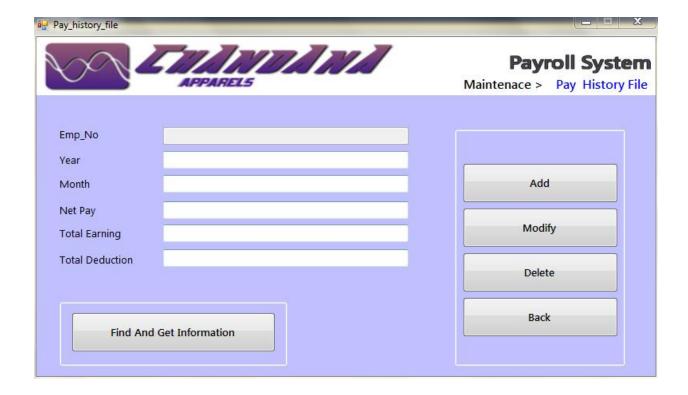
## **Screen 08 Employee Master**



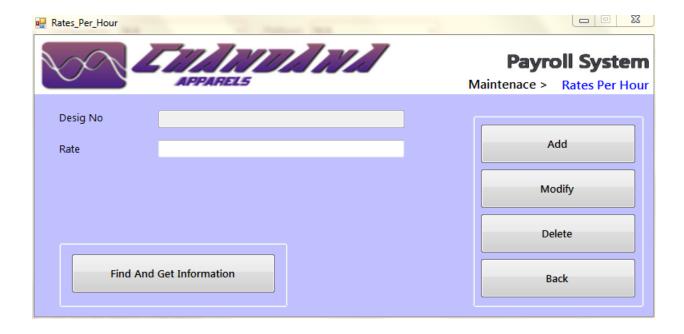
# **Seen 09 Department**



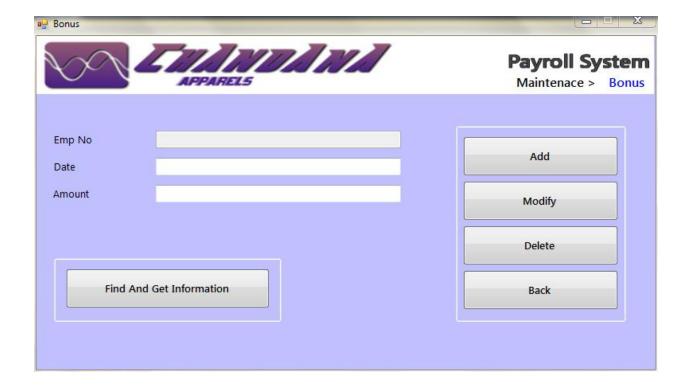
# **Screen 10 Pay history**



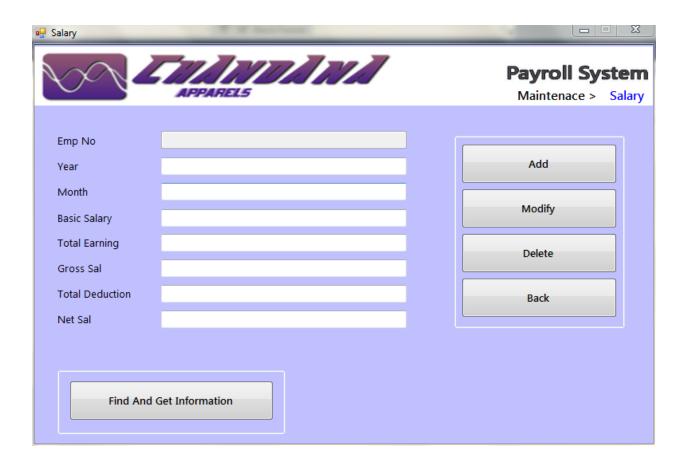
# Screen 02 Rates per hour



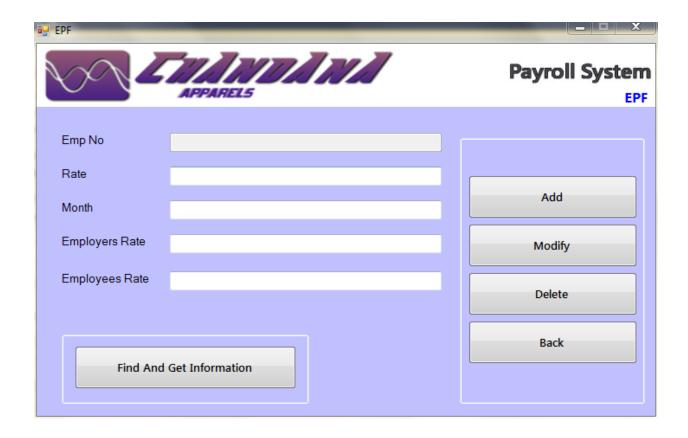
#### **Screen 12 Bonus**



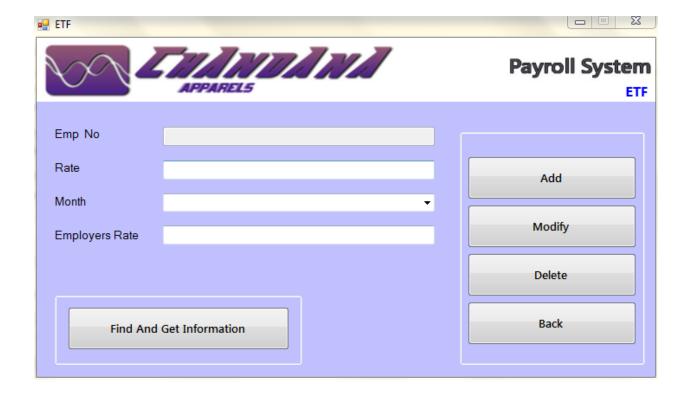
## **Screen 13 Salary**



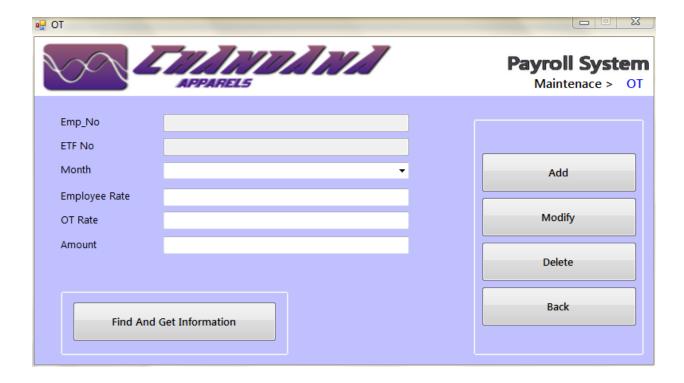
#### **Screen 14 EPF**



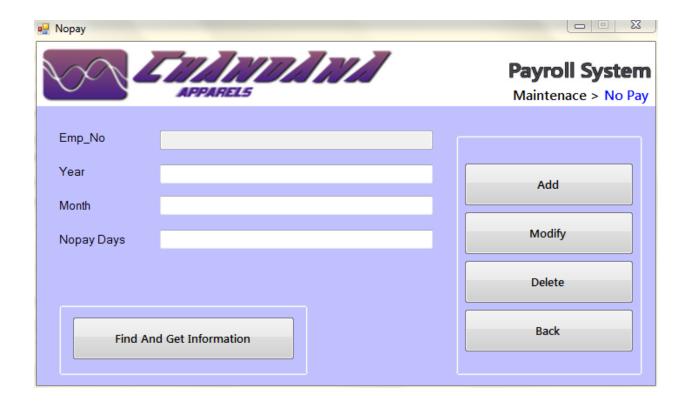
#### **Screen 15 ETF**



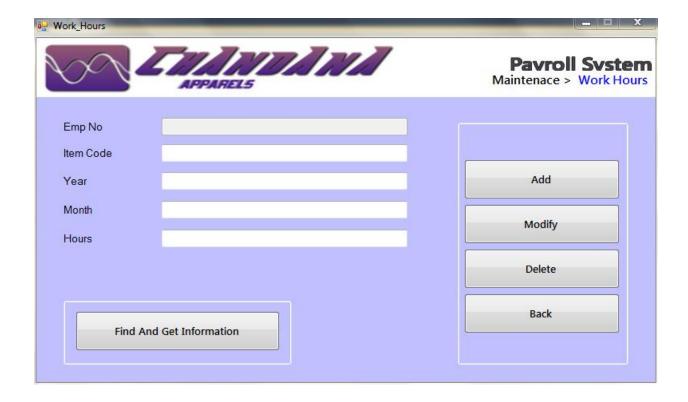
#### Screen 16 OT



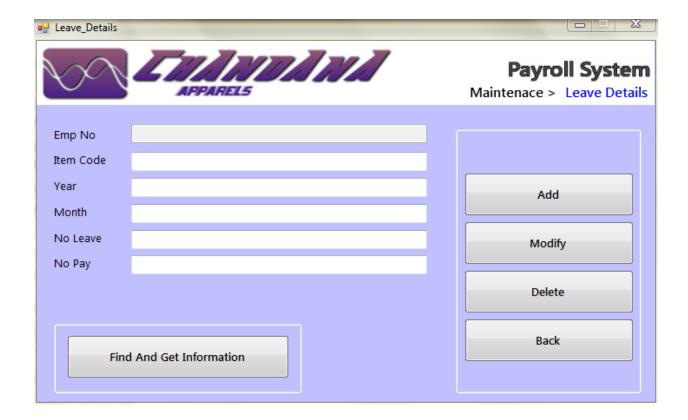
# **Screen 17 No pay**



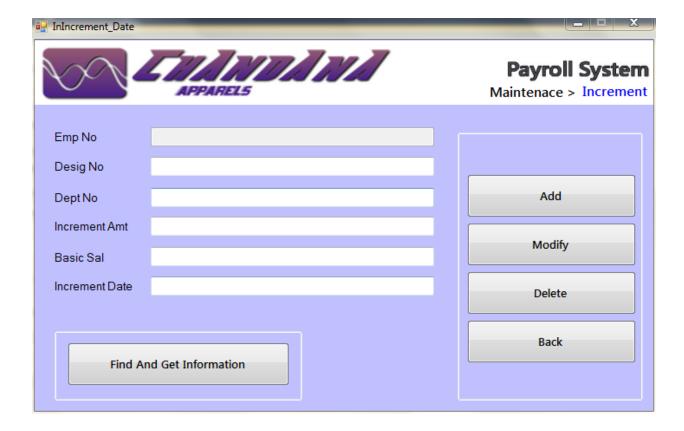
#### Screen 18 Work hour



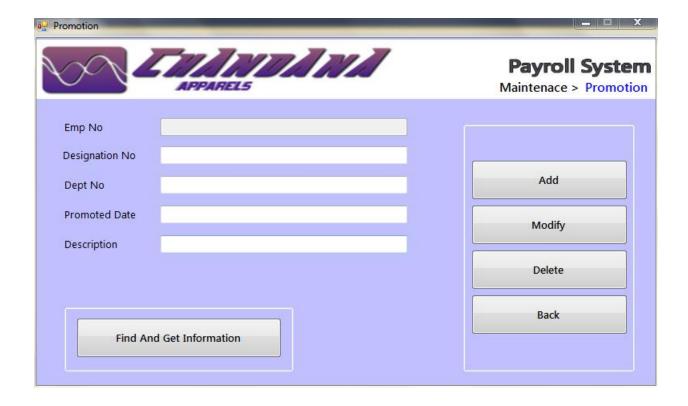
#### **Screen 19 Leave Details**



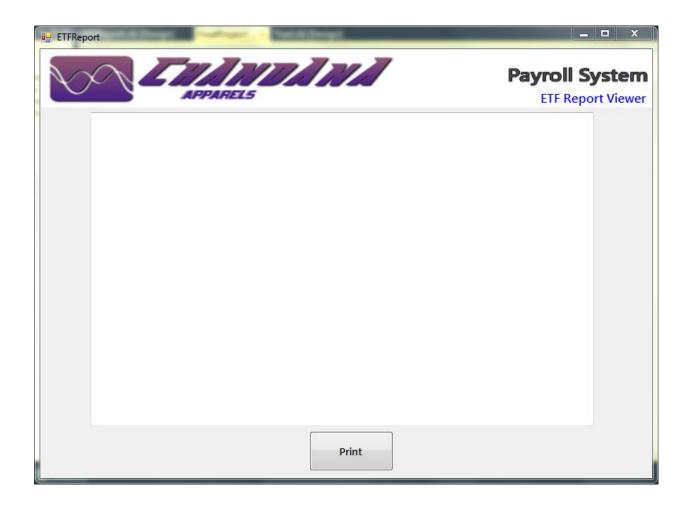
#### **Screen 20 Increment**



### **Screen 21 Promotion**



# **Screen 22 Report Viewer**



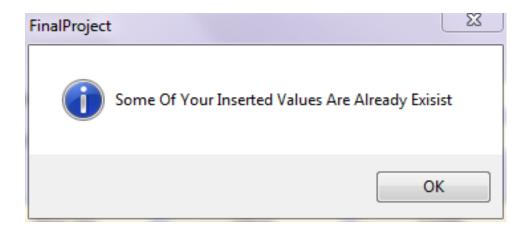
# **Message Screen List**

Screen No	Screen Name	Page No
MS1	No Input	109
MS2	Already Exist	110
MS3	Record Added Successfully	111
MS4	Record Update Successfully	112
MS5	Record Delete Successfully	113
MS6	Invalid Input	114
MS7	Authentication Failure	115
MS8	Signup Successes	116
MS9	Login Successes	117

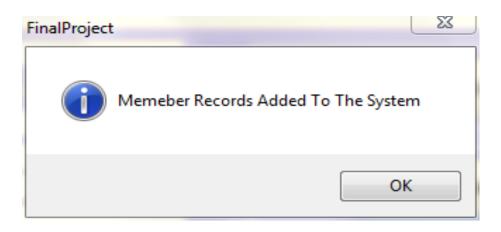
### **Message Screen 1 No Input**



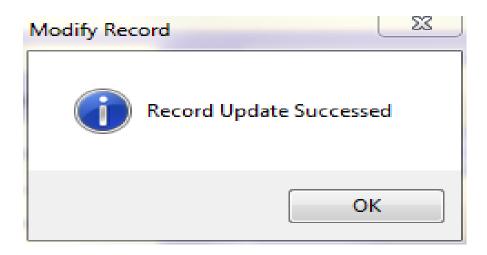
# **Message Screen 2 Already Exist**



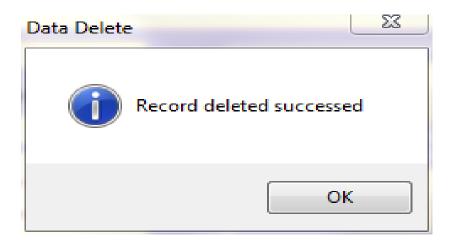
### **Message Screen 3 Record Added Successfully**



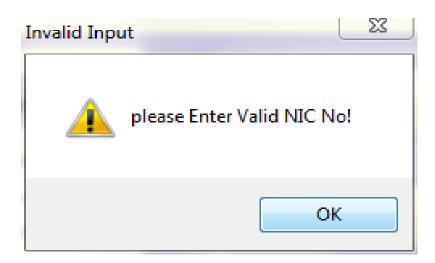
# **Message Screen 4 Record Update Successfully**



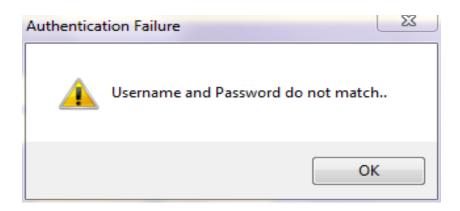
### **Message Screen 4 Record Delete Successfully**



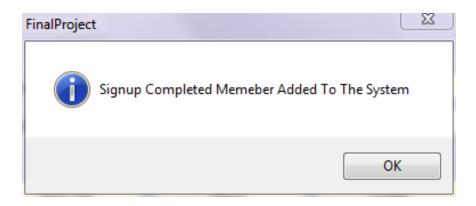
# **Message Screen 4 Invalid Input**



### **Message Screen 4 Authentication Failed**



# **Message Screen 4 Signup Complete**



Chapter 4
Design of the proposed
system
Reports

# **Reports List**

Report No	Report Name	Page No
R1	EPF Report	115
R2	ETF Report	116
R3	OT Report	117
R4	Remittance Report	118
R5	No pay Report	119
R6	Payment Report	120

# **Report 1 EPF Report**

Report ID: 01

Report Name: EPF report
Report Description: EPF details

# **Chandana Apparel (pvt) Ltd.**

Ganewatta Road, Kurunegala.

# EPF Report

EPF Report for the month of	 year

Employee No	EPF No	Basic Salary	Employers	Employees	Total					
			Contribution	Contribution	Contribution					
			To EPF	To EPF	To EPF					

••••					 
	HRN	/I Mar	าลge	r	

### **Report 2 ETF Report**

Report ID: 02

Report Name: ETF report
Report Description: ETF details

# **Chandana Apparel (pvt) Ltd.**

Ganewatta Road, Kurunegala.

### ETF Report

ETF Report for the mont	th of	year

Employee No	ETF No	Basic Salary	Employers	rs Employees Tota				
			Contribution	Contribution	Contribution			
			To ETF	To ETF	To ETF			

 ••••		•••	• • •		••		• •	•	•		•	•	• •		•	•	•			•	•	•	• •	 	•	• •	
	H	41	٦I	V	1		١	/	ā	3	r	1	a	١ş	3	e	9	r									

# **Report 3 OT Report**

**HRM Manager** 

**Report ID:** 03 **Report Name: OT** report **Report Description: OT details Chandana Apparel (pvt) Ltd.** Ganewatta Road, Kurunegala. **OT Report** OT Report for the month of ......year.....year.... Employee No **OT Amount** 

### **Report 4 Remittance Report**

Report ID: 04

**HRM Manager** 

Report Name: Remittance list
Report Description: Sent salary info

# **Chandana Apparel (pvt) Ltd.**

Ganewatta Road, Kurunegala.

### Remittance Report

Remittance list for the month of ...... year...... year.....

Emp No	Account Number	Amount

Report 4 N	Report 4 No Pay Report										
Report ID:	04										
Report Name:	No pay report										
Report Description:	No pay details of the emplo	yee									
	Chandana Apparel (pvt) Ltd.  Ganewatta Road, Kurunegala.										
	No Pay	Report									
No Pay Report f	or the month of	year									
Emplo	oyee Number	No Pay Report									

HRM Manager

### **Report 5 Payment Report**

Report ID: 05

Report Name: Payment report
Report Description: Payment details

# **Chandana Apparel (pvt) Ltd.**

Ganewatta Road, Kurunegala.

# Payment sheet

Pay sheet Report for the month of	yearyear
-----------------------------------	----------

Emp	Name	ОТ	No Pay	Basic	OT	Gross	EPF	No Pay	Net
No		Hours	Days	Sal	Amount	Salary	Contribution	Amount	Salary

 			•••	••••	• • • •	 •••	
HRM	Mar	nag	er				

Chapter 4
Design of the proposed
system
VB.net Codes

#### **Adding Data to Employee Master File**

```
Try
            If (mycon.State = ConnectionState.Open) Then
                mycon.Close()
            Else
                Dim value As Integer
                countcal()
                mycon.Open()
                'TextBox2.Text = count
                If (String.IsNullOrWhiteSpace(TextBox3.Text)) Then
                    MessageBox.Show("Please Enter First Name Field ", "No Input",
MessageBoxButtons.OK, MessageBoxIcon.Warning)
                ElseIf (String.IsNullOrWhiteSpace(TextBox4.Text)) Then
                    MessageBox.Show("Please Enter Last Name Field ", "No Input",
MessageBoxButtons.OK, MessageBoxIcon.Warning)
                ElseIf (String.IsNullOrWhiteSpace(TextBox5.Text)) Then
                    MessageBox.Show("Please Enter Address 1 Field ", "No Input",
MessageBoxButtons.OK, MessageBoxIcon.Warning)
                ElseIf (String.IsNullOrWhiteSpace(TextBox6.Text)) Then
                    MessageBox.Show("Please Enter Address 2 Field ", "No Input",
MessageBoxButtons.OK, MessageBoxIcon.Warning)
                ElseIf (String.IsNullOrWhiteSpace(TextBox7.Text)) Then
                    MessageBox.Show("Please Enter NIC Field ", "No Input",
MessageBoxButtons.OK, MessageBoxIcon.Warning)
                ElseIf (String.IsNullOrWhiteSpace(TextBox9.Text)) Then
                    MessageBox.Show("Please Enter Date Of Birth Field ", "No Input",
MessageBoxButtons.OK, MessageBoxIcon.Warning)
                ElseIf (String.IsNullOrWhiteSpace(TextBox11.Text)) Then
                    MessageBox.Show("Please Enter Designation Field ", "No Input",
MessageBoxButtons.OK, MessageBoxIcon.Warning)
                ElseIf (String.IsNullOrWhiteSpace(TextBox12.Text)) Then
                    MessageBox.Show("Please Enter Department Field ", "No Input",
MessageBoxButtons.OK, MessageBoxIcon.Warning)
                ElseIf (String.IsNullOrWhiteSpace(TextBox13.Text)) Then
                    MessageBox.Show("Please Enter Basic Salry Field ", "No Input",
MessageBoxButtons.OK, MessageBoxIcon.Warning)
                ElseIf (String.IsNullOrWhiteSpace(TextBox14.Text)) Then
                    MessageBox.Show("Please Enter Date Joined Field ", "No Input",
MessageBoxButtons.OK, MessageBoxIcon.Warning)
                ElseIf (String.IsNullOrWhiteSpace(TextBox15.Text)) Then
                    MessageBox.Show("Please Enter Telephone ", "No Input",
MessageBoxButtons.OK, MessageBoxIcon.Warning)
                ElseIf (String.IsNullOrWhiteSpace(TextBox15.Text)) Then
                    MessageBox.Show("Please Enter Different Telephone ", "No Input",
MessageBoxButtons.OK, MessageBoxIcon.Warning)
                ElseIf (String.IsNullOrWhiteSpace(TextBox1.Text)) Then
                    MessageBox.Show("Please Enter Bank Account No", "No Input",
MessageBoxButtons.OK, MessageBoxIcon.Warning)
```

```
ElseIf (Not IsNumeric(TextBox7.Text)) Then
                    If value > 0 AndAlso value < 10 Then
                        value = value
                    Else
                        MessageBox.Show("please Enter Valid NIC No!", "Invalid Input",
MessageBoxButtons.OK, MessageBoxIcon.Warning)
                    End If
                ElseIf (Not IsNumeric(TextBox11.Text)) Then
                    If value > 0 AndAlso value < 1000 Then
                        value = value
                        MessageBox.Show("please Enter Number For Designation No Field!",
"Invalid Input", MessageBoxButtons.OK, MessageBoxIcon.Warning)
                    End If
                ElseIf (Not IsNumeric(TextBox12.Text)) Then
                    If value > 0 AndAlso value < 5 Then</pre>
                        value = value
                    Else
                        MessageBox.Show("please Enter Number For Department No Field!",
"Invalid Input", MessageBoxButtons.OK, MessageBoxIcon.Warning)
                    End If
                ElseIf (Not IsNumeric(TextBox13.Text)) Then
                    If value > 0 AndAlso value < 400000 Then
                        value = value
                    Else
                        MessageBox.Show("please Enter Number For Basic Salary Field!",
"Invalid Input", MessageBoxButtons.OK, MessageBoxIcon.Warning)
                ElseIf (Not IsNumeric(TextBox14.Text)) Then
                    If value > 0 AndAlso value < 8 Then</pre>
                        value = value
                    Else
                        MessageBox.Show("please Enter Number For Date Joined Field!",
"Invalid Input", MessageBoxButtons.OK, MessageBoxIcon.Warning)
                    End If
                ElseIf (Not IsNumeric(TextBox15.Text)) Then
                    If value > 0 AndAlso value < 10 Then
                        value = value
                    Else
                        MessageBox.Show("please Enter Number For Telephone No Field!",
"Invalid Input", MessageBoxButtons.OK, MessageBoxIcon.Warning)
                    End If
                ElseIf (Not IsNumeric(TextBox16.Text)) Then
                    If value > 0 AndAlso value < 10 Then
                        value = value
                    Else
                        MessageBox.Show("please Enter Number For Different Telephone No
Field!", "Invalid Input", MessageBoxButtons.OK, MessageBoxIcon.Warning)
                    End If
                ElseIf (Not IsNumeric(TextBox1.Text)) Then
                    If value > 0 AndAlso value < 1000 Then
                        value = value
                    F1se
                        MessageBox.Show("please Enter Number For Valid Bank Account No
Field!", "Invalid Input", MessageBoxButtons.OK, MessageBoxIcon.Warning)
                    End If
                Else
```

```
If (RadioButton1.Checked) Then
                                                                           sex = "Male"
                                                              End If
                                                              If (RadioButton2.Checked) Then
                                                                          sex = "Female"
                                                              End If
                                                              Dim com1 As String
                                                              Dim com2 As String
                                                              com1 = ComboBox1.SelectedItem.ToString
                                                               com2 = ComboBox2.SelectedItem.ToString
                                                              Try
                                                                          cmdinsert.CommandText = "INSERT INTO employee VALUES('" &
TextBox2.Text & "','" & TextBox3.Text & "','" & TextBox4.Text & "','" & TextBox5.Text &
"','" & TextBox6.Text & "','" & TextBox7.Text & "','" & sex & "','" & TextBox9.Text & "','" & TextBox11.Text & "','" & TextBox13.Text & "','" & TextBox14.Text & "','" & TextBox16.Text & "','" & TextBox15.Text & "','" & TextBox11.Text & "','" & TextBox16.Text & "','" & TextBox15.Text & "','" & TextBox11.Text & "','" & TextBox16.Text & "','" & TextBox15.Text & "','" & TextBox15.Text & "','" & TextBox1.Text & "','" & TextBox15.Text & "','" & Tex
                                                                          cmdinsert.CommandType = CommandType.Text
                                                                           cmdinsert.Connection = mycon
                                                                           cmdinsert.ExecuteNonQuery()
                                                                          MsgBox("Memeber Records Added To The System",
MsgBoxStyle.Information)
                                                                           mycon.Close()
                                                                           countcal()
                                                                           defaulter()
                                                              Catch ex As Exception
                                                                          MsgBox("Some Of Your Inserted Values Are Already Exisist",
MsgBoxStyle.Information)
                                                                          MsgBox(ex.Message, MsgBoxStyle.Information)
                                                                           mycon.Close()
                                                               End Try
                                                  End If
                                     End If
                         Catch ec As Exception
                                     MsgBox("Database Connection Error Occured ", MsgBoxStyle.Information)
                         End Try
                         mycon.Close()
```

### **Modify Data from Employee Master File**

```
If (mycon.State = ConnectionState.Open) Then
              mycon.Close()
         Else
              mycon.Open()
              countcal()
              Dim com1 As String
              Dim com2 As String
              com1 = ComboBox1.SelectedItem.ToString
              com2 = ComboBox2.SelectedItem.ToString
                   mycon.Open()
                   Dim up As New OleDbCommand
                   up.CommandText = "UPDATE employee SET First Name='" & TextBox3.Text &
"',Last_Name='" & TextBox4.Text & "',Address_1='" & TextBox5.Text & "',Address_2='" &
TextBox6.Text & "',NIC='" & TextBox7.Text & "',Sex='" & sex & "',Date_Of_Birth='" & TextBox9.Text & "',Marriage='" & com1 & "',Designation='" & TextBox11.Text &
"',Department='" & TextBox12.Text & "',Basic_Salary='" & TextBox13.Text & "',Joined='" &
TextBox14.Text & "',Status='" & com2 & "',Tel_1='" & TextBox16.Text & "',Tel_2='" & TextBox15.Text & "',Bank_Acc='" & TextBox1.Text & "' WHERE Emp_No=" & TextBox2.Text & "'
                   up.CommandType = CommandType.Text
                   up.Connection = mycon
                   up.ExecuteNonQuery()
                   MsgBox("Record Update Successed", MsgBoxStyle.Information, "Modify
Record")
                   countcal()
                   defaulter()
              Catch er As Exception
                   MsgBox(er.Message)
              End Try
         End If
```

### **Delete Data from Employee Master File**

```
If (mycon.State = ConnectionState.Open) Then
            mycon.Close()
        Else
            mycon.Open()
            countcal()
            TextBox2.Text = count
            Dim up As New OleDbCommand
            Dim co As Integer
            Try
                mycon.Open()
                co = TextBox2.Text
                up.CommandText = "DELETE FROM employee WHERE emp_No=" & co & ""
                up.CommandType = CommandType.Text
                up.Connection = mycon
                up.ExecuteNonQuery()
                MsgBox("Record deleted successed", MsgBoxStyle.Information, "Data
Delete")
                countcal()
                defaulter()
            Catch rt As Exception
                MsgBox(rt.Message)
            End Try
            mycon.Close()
        End If
```

# Requirements

#### **Hardware**

Intel Pentium III Higher Processor

**256 MB RAM** 

40 GB HDD

#### **Software**

Microsoft Access 2007

Microsoft .net Framework 4.0

#### Live ware

System Administrator

Database Administrator

#### **Environment**

Microsoft .net Framework 4.0

### **Cost Benefits of the System**

Money is needed to buy software we need as mentioned in requirements and we should trained an employee to handle this software in a good manner if not whole system will give errors. Approximately we need LKR. 50000 amount of money to implement this software.

#### Here are some benefits of this computerized system

#### 1) Time Saving

If a company invests in <u>payroll software</u> it can reduce the amount of man hours spent on this particular area – because the system is automated. This means that once a clerk inputs the initial data it will work out individual employee tax deductions automatically, until the original information is altered.

#### 2) Recordkeeping

For firms that adopt this <u>small business software</u> it also means that they can keep on top of employee sick leave, holidays and personal time very efficiently. Furthermore, it means that those working in the accounts department can make reports with extremely accurate data rather than sifting through hand-written ledgers, allowing them to do their job more effectively.

#### 3) Planning and reporting

This in turn means that company owners and managers are provided with the best data about their organization's funds. It also means that they can forecast labor costs that interact with budgeting and accounting programmers that allows them to make more calculated decisions on where to take the business in the future.

#### 4) Saving money

Sometimes it's important to save the best till last, and this is one of those instances. By adopting payroll software small firms can reduce the amount of positions needed in payroll as the system is automated – but because the technology is so efficient it means that money isn't lost through paying the incorrect amount of tax or not paying staff on time.

#### 5) Easy calculations

Efficiency in payroll calculation is important in every company. It requires accuracy to pay employees the right amount of money they have earned. To avoid the hassles of calculating payroll manually, you can use software to automate the process. The process is productive and effective in saving time and money. Your accounting department can create reports and financial documentation easily.

#### 6) Forecasting

When you have payroll software, it allows you to see and monitor all payroll expenses instantly. This helps you graph financial data to help you create a forecast. If you have an idea of your business performance, it will be easier to decide when you need to hire new staff for the company. You can make adjustments and calculate salary increases to help you make an assessment on how it will affect your money. It is easier to know whether your decision is good for the business.

#### 7) Reliable backup

As a business, keeping large amounts of data for payroll can be challenging. You can't store piles of papers and data manually. But when you are using payroll software, it is convenient to save records in various databases available online. In case your computer or system is destroyed, you should still have a backup to get all your records back.

#### **Final Conclusion**

The system study that we have carried out in this report is based on the manual system of Chandana Apparel Pay roll System. Through the introduced computerized system organization's requirements are met to the requested level, providing efficient and effective functionality, security actions, and up-to-date reports to review the functionality of the organization as some of the major improvements.

As results of this introduced computerized system have given the organization much more efficient and effective system compared to their manual system.

The main aim of this project was to how to develop pay roll system and we were able to finish that successfully.

# Thank You