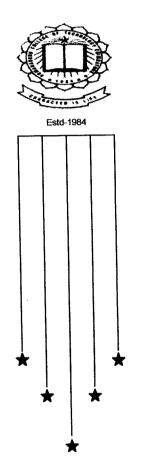
HUMAN RESOURCE MANAGEMENT



P-1038



ISO 9001:2000

PROJECT WORK

Submitted by

Abiramee.S Krishna Priya E,

Under the guidance of Mr.C.Rajan Krupa M.C.A



In partial fulfillment of the requirements for the award of degree of **Bachelor of Science Applied Science Computer Technology** of Bharathiyar University, Coimbatore:641 046.

DEPARTMENT OF COMPUTER TECHNOLOGY

KUMARAGURU COLLEGE OF TECHNOLOGY
COIMBATORE:641 006.

KUMARAGURU COLLEGE OF TECHNOLOGY





Department of Computer Technology Certificate



to certify that this project entitled

ISO 9001:2000 Certified

HUMAN RESOURCE MANAGEMENT

has been submitted by

Ms. E.Krishna Priya, S. Abiramee

In partial fulfillment of the requirements for the award of degree of Bachelor of Science Applied Science Computer Technology of Bharathiyar University, Coimbatore:641 046 during the academic year 2002-2003.

(Guide)

(Head of Department)

University Register Number 002800113

DO28 QD185

Stromas 1 25/3

Kelvaran

(Internal Examiner)

(External Examiner)



Phone:

Mobile: 98422 - 50564

ASHWINRAM ASSOCIATES

20th March 2003.

CERTIFICATE

This is to certify that the project entitled "HUMAN RESOURCE MANAGEMENT" bonafide work carried out by Ms.S. ABIRAMEE and Ms.E. KRISHNA PRIYA, students of Kumaraguru College of Technology, Coimbatore, during the period from December 2002 to March 2003 in our Organization under our guidance and supervision. This report is submitted to the Department of Computer Technology in partial fulfillment of the requirement for the award of B.Sc Computer Technology.

The candidates performance throughout the project was productive and satisfying to our Organization objective.

For Ashwinram Associates

Authdrickd Signatory.

ACKNOWLEDGEMENT

To add meaning to the perception, it, is our indebtedness to honor a few who had helped us in this endeavor, by placing them on record.

With profound gratitude, we are extremely thankful to Dr.K. K. Padmanaban B.Sc(Eng.), M.tech, Ph.d., Principal, Kumaraguru College of Technology, Coimbatore for providing us an opportunity to undergo the BSc [APPLIED SCIENCE-COMPUTER TECHNOLOGY] course and thereby this project work also.

We extend our heartfelt thanks to our CT Department head **Dr.V.Sundaram** for his kind advice and encouragement to complete this project successfully.

Its our privilege to express our deep sense of gratitude and profound thanks to Mrs.Suganthi (Managing Director) for having allowed us to do our project work in her esteemed team and for helping us in all means in successful completion of this project work.

Gratitude will find least meaning without thanking our guide Mr.C.Rajan Krupa M.C.A and course co-coordinator Mrs.Geetha M.C.A for the valuable guidance and support throughout our project.

Words are boundless for us to express our deep sense of gratitude and profound thanks to Mr.M.R.SenthilKumar MSc. CT, (Project Guide) and all our associates at Ashwin Ram Associates, for all their kind guidance and encouragement towards our project work.

Our gratitude is due to all staff members of CT department, our Parents, Our sister and brother and all our friends for their moral support and encouragement for successful completion of our project.

SYNOPSIS

The project entitled "HUMAN RESOURCE MANAGEMENT" keeps track of all information about an employee working in an organization. The Human Resource Development department's work involves recruiting various skilled professionals. The computerization includes fixing the pay structure, assigning designation and responsibilities for employees. Transfer of employees from one branch to another branch, revising their salaries, initiating and advising the account department for various matters about an employee like PF, ESI.

The People in ASWIN RAM ASSOCIATES are not using separate package for monitoring the data of the employees working in their organization.

The major aim of the project is to develop a centralized system for all the employees working in ASWIN RAM ASSOCIATES, and also to assist the Human Resource Department in decision making.

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1. INTRODUCTION

1.1 PROJECT OVERVIEW

As long as organization are small and have limited operational goals, manual information systems are satisfactory. Many aspects in the Development of industry and commerce have made computer based information system essential to run the organization efficiently.

It gives easy access and computer based processing enables the same data to be processed many ways, based on needs, there by allowing managers to look at the performance of an employee from different angle & various reports can be generated easily to fulfill the various requirements.

The organization is now divided into many branches therefore; it is necessary for integrating the branches with each other through network for information ex-change and for co-ordination between branches.

SALIENT FEATURES OF HUMAN RESOURCE MANAGEMENT

The following forms the salient features of Human Resource Management this system collect all necessary details from the employees in a uniform format. It also helps the Human resource Department in decision-making and the users to understand the information about the employees and day-to-day operations of the employees of the organization.

Hence an ordinary man also handles this system very easily as it has been developed using VB as front end to this system.

This project can be further expanded modifications and additions can also be made to each of the modules. It is expected modifications and additions can also be made to each of the modules. it is expected that this software would bring optimum benefit to the Human Resource Department as well as to the users providing desired information efficiently and also minimizing the manual work tremendously.

2.1 EXISTING SYSTEM

As of now the people in the ASWIN RAM ASSOCIATES are not using separate package for monitoring the data of the employees working in their organization.

They use software like FoxPro for storing the data. Since the data have to be used by many branches in ASWN RAM ASSOCIATES, each of them use different tables with the same data and used to create their own reports according to their needs.

This results in data redundancy and waste of man-hours as the same data is inputted into the different tables of the system.

2.2.PROPOSED SYSTEM:

The proposed system involves the conversion of the existing work into the computerized form. Queries regarding the system can be made; doing the work in the computerized form will generate accurate results. Instead of proceeding the work in FoxPro, performing the work in the computerized form will reduce the occurrence of errors as much as possible.

The proposed system saves a plenty of time. The main purpose of the proposed system is that the generation of the report is faster. This helps the management to keep track of happenings and to take management decisions.

3.PROGRAMMING ENVIRONMENT

3.1HARDWARE CONFIGURATION:

Processor : Pentium III

Monitor : 14 inches

Hard disk : 15 GB

RAM

: 64 MB

Keyboard : MS 104 keys

Mouse

: Logitech mouse

3.2 SOFTWARE CONFIGURATION:

Platform: Window 2000

Front end : Visual Basic 6.0

Back end : Oracle 8.0

TECHNOLOGIES- QUICK REFERENCES

4.1.INTRODUCTION TO VISUAL BASIC 6.0:

Visual Basic is an ideal programming language for developing sophisticated professional application for Microsoft windows. It makes use of graphical user interface for creating robust and powerful applications. The graphical user interface as the name suggests, uses illustration for text, which enable users to interact with an application. This features makes it easier to comprehend things in a quicker and easier way.

In a GUI environment, coding is similar to programming methods and it is highly interactive and user-friendly. One of the interesting features of Visual Basic is the Integrated Development Environment (IDE). Another important feature of Visual Basic is that it has easy methods to allow user to control and access databases. Due to this property databases like MS Access, Oracle, etc. The front end can also be connected to the databases that are ODBC, JDBC, etc.

FEATURES OF VISUAL BASIC 6.0:

- Compile a VB project to native for faster execution.
- Open multiple projects in the same instance of VB.
- ActiveX document boost the Visual Basic applications to the intranet and Internet browser windows.
- Ability to do single, multiple or Microsoft <u>explorer</u> style document interface application.
- The new model allows us to programmatically extend the development environment and control project, events, and core visual events.
- Most control now support drag and from components specifically for employment of the web.
- The implements features allow your classes to support multiple interfaces.
- > Command line switches provide a way to control how VB executes.

- The recourses file allows you to collect all of the versions specify text and bitmaps for an application is one place.
- > VB provides built-in templates for creating an about dialog box, option dialog box or splash screen.

4.2 ORACLE:

Oracle Corporation was the first company to offer a true relational DBMS commercially, and has continually led innovation in the field of RDBMS. The oracle corporation strategy of offering an RDBMS that is portable, compatible and connectable results in a very powerful tool for users. You learn the basic concepts across various hardware and software platforms.

The collection of tools, utilities and applications that constitute the ORACLERDBMS let you manipulate an oracle database. Many of these product are fourth generation language tools; they let you interactive screens to create application programs.

The Oracle database was designed using the relational model and gives uses of many advantages, including the following.

- A database structure that is easy to visualize and understand.
- The ability to create any number of temporary relationships between the tables.
- Freedom from concern about to query the database to the use of SQL.
- > Tables are easy to visualize.
- Relation joints that provides temporary set of data from multiple tables in a model.

4.1 INPUT DESIGN:

Input design or form design consists of designing the screens for accepting the input. The user inputs are collected as screen entries. The screen has been designed in a way to provide GUI features to the user. The input screens are designed in a way as to control the amount of input required, avoid delay and keep processing simple.

The form layout is designed to be user friendly. Layout labels are made self-explanatory. Common sets of entries are grouped into a frame for easy identification. Drop down lists are provided in the case if item selection. The user can choose from the valid data from the list provided thus avoiding erroneous data. Activities that take place through the form command such as additions, deletions etc.

4.2 OUTPUT DESIGN:

Outputs from computer systems are required primarily to communicate the result of processing to users. The outcome of data processing will be a set of information in a neat layout, which used for analysis and decision making. Output design involves the designing of the format of processed data. The report should be in a simple format and should be able to convey the details clearly. Reports provide a hard copy of information, which has to be circulated through the organization.

The main reports designed for this system are,

BRANCH REPORT:

This report generates the branch details, the details of branches of the company.

DEPARTMENT REPORT:

This report generates the department details, the details regarding the different departments in the company.

DESIGNATION REPORT:

This report generates the designation details, the details regarding the different designations available to the employees working in the company.

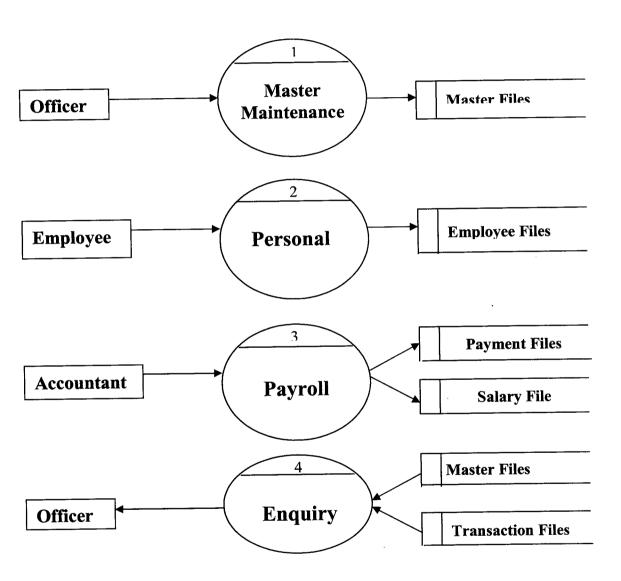
EMPLOYEE REPORT:

This report generates the employee details, such as employee personal details, employee academic details and employee salary details.

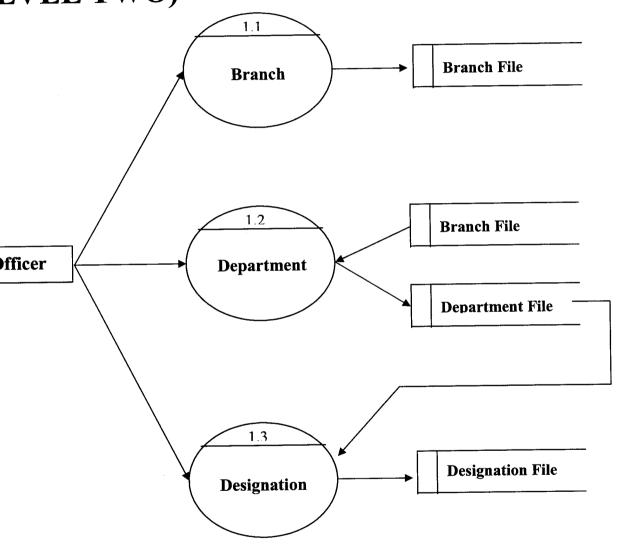
CONTEXT LEVEL DIAGRAM

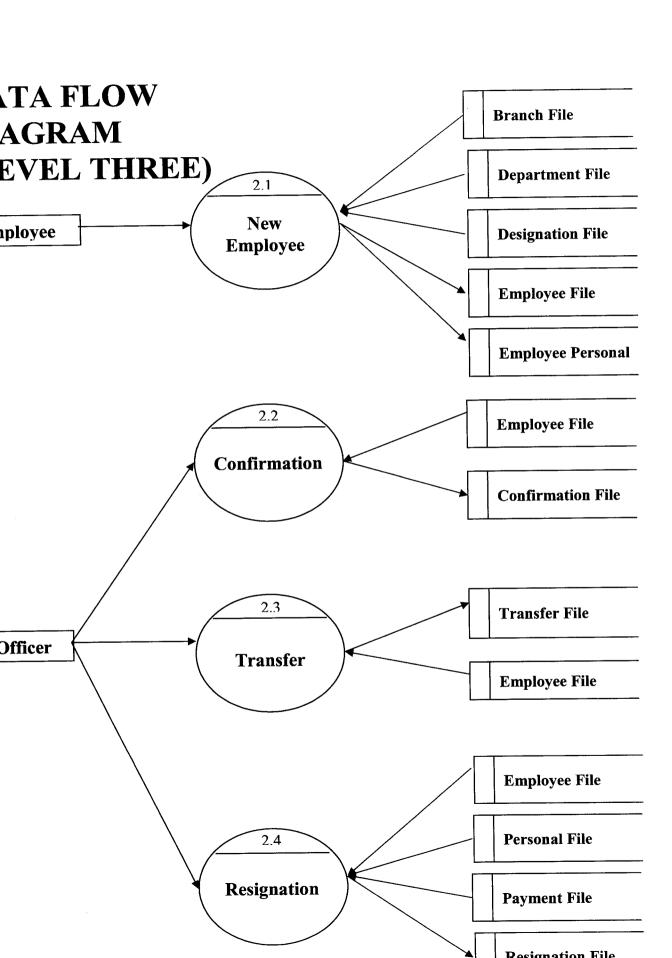


TA FLOW DIAGRAM (LEVEL ONE)

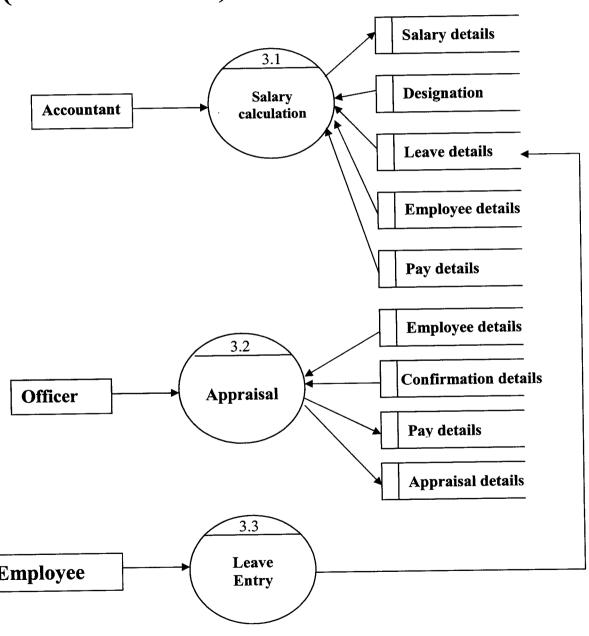


TA FLOW DIAGRAM EVEL TWO)





DATA FLOW DIAGRAM (LEVEL FOUR)



ATAFLOWDIAGRAM LEVEL FIVE)

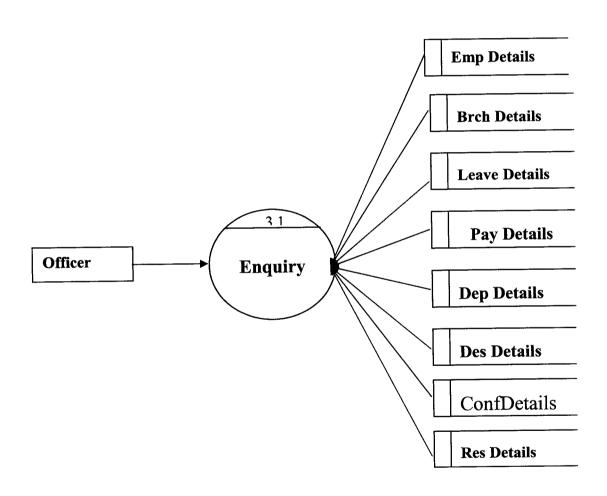


TABLE DESIGN(DATABASE DESIGN):

ranch Details

Field Description	Name	Туре	Width
Branch Code	BRID	Character	6
Branch Name	BRNAM	Character	15
Branch Address	BRADD	Character	30
Branch City	BRCTY	Character	10
Branch Pin code	BRPIN	Number	6
Branch Phone 1	BRPH1	Number	10
Branch Phone 2	BRPH2	Number	10
Branch Cell Phone	BRCL	Number	15,0
e-mail ID	EMAIL	Character	20
Manager	MGRNAM	Character	25
Fax	FAX	Number	20

partment Details

Field Description	Name	Type	Width
Department Code	DEPCOD	Character	6
Department Name	DPTNAM	Character	20

esignation Details

Field Description	Name	Type	Width
Designation Code	DESID	Character	6
Designation	DESIG	Character	15
Designation in short	DESHRT	Character	4

ployee Detail

ield Description	Name	Type	Width
mployee Code	EMPID	Character	6
mployee Name	EMPNAM	Character	25
mployee Address	EMPADDI	Character	30
ity	EMPCTY	Character	10
n code	EMPPIN	Number	7
hone No	EMPPHONE	Number	10
oin Date	DOJ	Date	10
iploma	DIP	Character	10
. G	UG	Character	4
.G	PG	Character	4
rofessional Skill	PROFQ	Character	4
kill Set	SKILL	Character	10
rade No	GRDNO	Number	2
ranch Code	BRNID	Character	6
esignation Code	DESID	Character	6

yment Details

eld Description	Name	Tvpe	Width
ployee Code	EMPID	Character	6
sic	BASIC	Number	6,2
arness Allowance	DA	Number	6,2
nch Allowance	LUNCHA	Number	6,2
y Compensatory Allowance	CCA	Number	6,2
ecial Allowance	SA	Number	6,2
nveyance	CONVEY	Number	6,2
RA	HRA	Number	6,2
'A	DPA	Number	6,2
	PPA	Number	6,2
ucational Allowance	EDUA	Number	6,2
chnical Journal	TECHJR	Number	6,2
nus	BONUS	Number	6,2
siness Attirement	BUSATR	Number	6,2
ave Travel Allowance	LTA	Number	6,2
ther Earning	OTHERN	Number	6,2
ovident Fund	PF	Number	6,2
SI	ESI	Number	6,2
ratuity	GRTY	Number	6,2
ofessional Tax	PTAX	Number	6,2
come Tax	ITAX	Number	6,2
iper Annulations	SAN	Number	6,2

ent Details (Contd.)

n	LOAN	Number	6,2
n Deduction Amount	LOANDA	Number	6,2
er Deduction	OTHERD	Number	6,2
formance Incentive	PERINC	Number	6,2
dical Reimbursement	MEDI	Number	6,2
oks Reimbursement	воок	Number	6,2
tertainment	ENTER	Number	6,2
ephone	TPONE	Number	6,2
use Related	HOUSE	Number	6,2
hicle Maintenance	VEHMAN	Number	6,2
edit Card	CREDIT	Number	6,2
ub Membership	CLUB	Number	6,2
sual Leave	CL	Number	2
k Leave	SL	Number	2
id Leave	PL	Number	2
ave Loss Of Pay	LLOP	Number	3
her Leave	OTHERL	Number	3

ve Details

eld Description	Name	Type	Width
nployee Code	EMPID	Character	6
om Date	FMDATE	Character	10
) Date	TODATE	Character	10
eave Category	LEVCAT	Character	3

TESTING AND IMPLEMENTATION

TESTING:

Software testing is an important element of software quality assurance and represents the ultimate review of specification, design and coding. In testing, the engineer creates a series of test cases that are intended to demolish the software that has been built.

OBJECTIVES OF TESTING

The rules that serve for testing are,

- Testing is a process of executing a program with the intent of finding an
- error.

 A good test is the one that has the high probability of finding undiscovered errors.
- A successful test is the one that uncovers an undiscovered error.

If testing is conducted successfully according to the above objectives, it will uncover the errors in the software.

UNIT TESTING:

Unit testing focuses the verification effect on the smallest unit of the software design i.e. module. In unit testing we use the control structures of the procedural design to derive test cases.

The local data structures are examined to ensure that data stored temporarily maintains its integrity during all steps in the algorithm execution.

Boundary conditions are tested to ensure that the module operates properly at boundaries established to limit or restrict the processing. All independent paths through the control structures are exercised to ensure that the all statements in the module have been executed at least once.

The module interface is tested to ensure that information properly flows into and out of the program unit under test. Finally, all error-handling paths are tested.

NTEGRATION TESTING:

Program Integration testing addresses the issues associated with the dual problems of verification and program construction. Integration testing is a systematic technique for constructing the program structure while at the same time conducting tests to uncover the errors associated with the interfacing. The objective is to take unit tested modules and build a structure that has been dictated by design. The integration testing can be either top-down integration or bottom-up integration. In top-down integration, modules are integrated by moving downwards through the control hierarchy. The modules sub-ordinates to the main program module are incorporated into the structure either depth first or breadth first manner.

In bottom-up integration the construction and testing begins at the lowest level in the program structure. Since the modules are integrated from the bottom-up, processing required modules sub=ordinates to given level is always available and the need for the stubs is eliminated.

VALIDATION TESTING:

Validation testing provides the final assurance that the software meets all functional behavior and performance requirements the software once validated must be combined with other system elements.

After each validation test cases has been conducted, on eof the two possible conditions exist. They are:

- The function from specification characteristics confirms to specification and is accepted.
- A deviation from specification is uncovered and a deficiency list is created.
- The deviation or error discovered at this stage in a project can rarely be corrected prior to scheduled completion. It is necessary to negotiate with the customer to establish a method for resolving deficiencies.

IMPLEMENTATION:

Implementation is the stage where theoretical design is converted into working system it consist of

- Testing.
- Error Corrections.
- Training the user personnel.
- Change over.

The change over is another important aspect of the implementation process and had to be handled carefully. This system is implemented using parallel change over processing current data of the old system and new system to checking. It allows the results of new system before implemented by the user, there by promoting user control.

REFERNCE:

*** VISUAL BASIC**

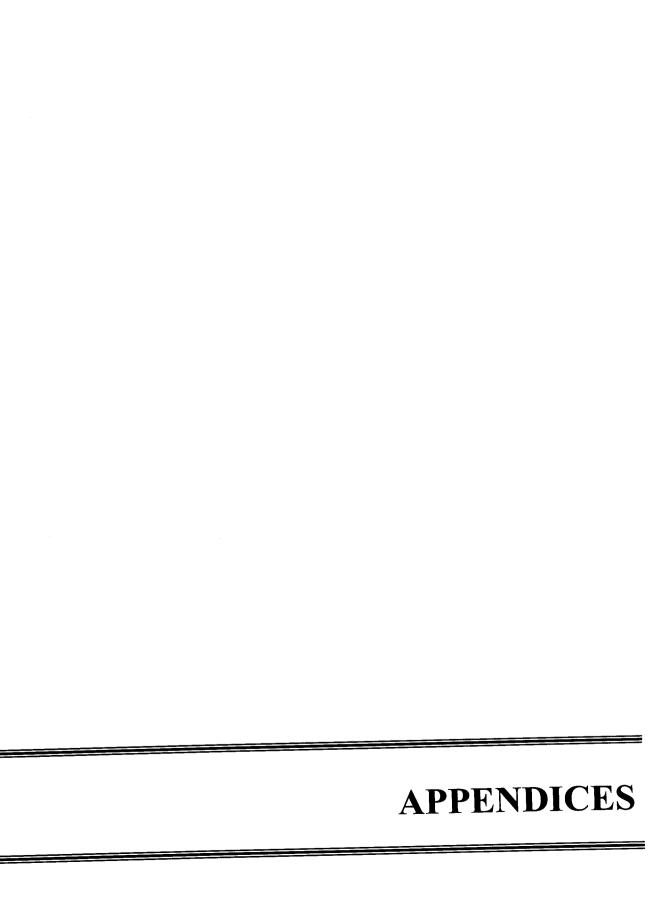
- > Gary cornell, "Visual basic 6.0 from Ground Up", Tata Mc Graw Hill Publishing Company Limited, 1998.
- > Jeffery.P.McManus, "Database Access with VB 6.0", comdex publishing, 1998.
- > Greg Perry, "Visual Basic 6.0 Night school", QUE Publishing House, Second Edition, 1997.
- ➤ Michael Smith, "Visual Basic 5.0 Super Bible Volume-1", Prentice Hall of India private Limited, Third Edition, 2001

*** ORACLE**

- > Oracle 8I, user manual oracle corporation, press 2000.
- > Oracle 8I, a beginner's guide abbey, michael oracle press, year 2002.
- Oracle development guide, P.S.Deshpande.
- > http:// www.otn.oracle.com/

CONCLUSION:

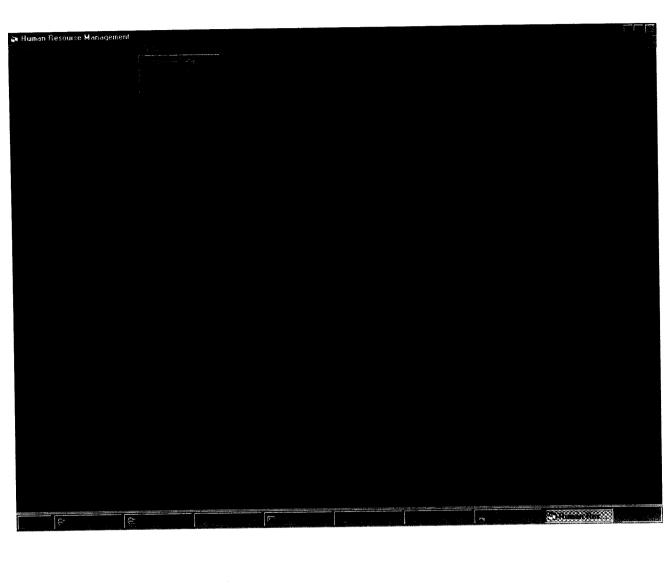
Developing software that is easy to use is hard to achieve, as such so many complex HRMS activities in oracle has been automated by using this software. With the launching of this tool the job allocation is not a tedious task and it is useful for the upcoming graduates for their future.

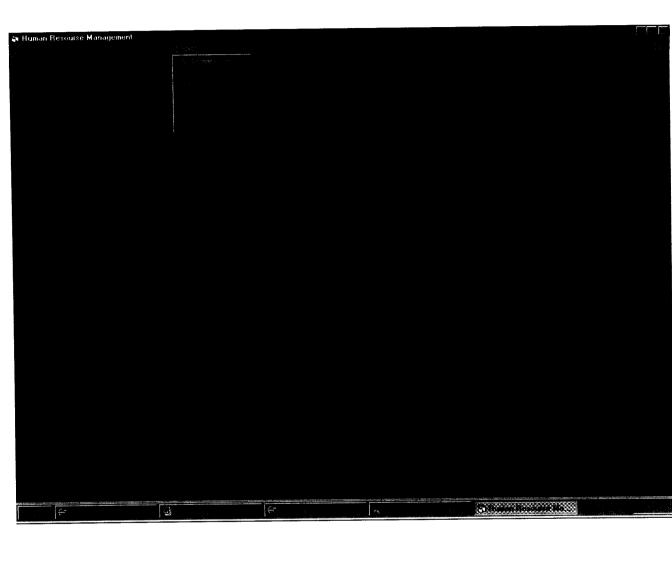










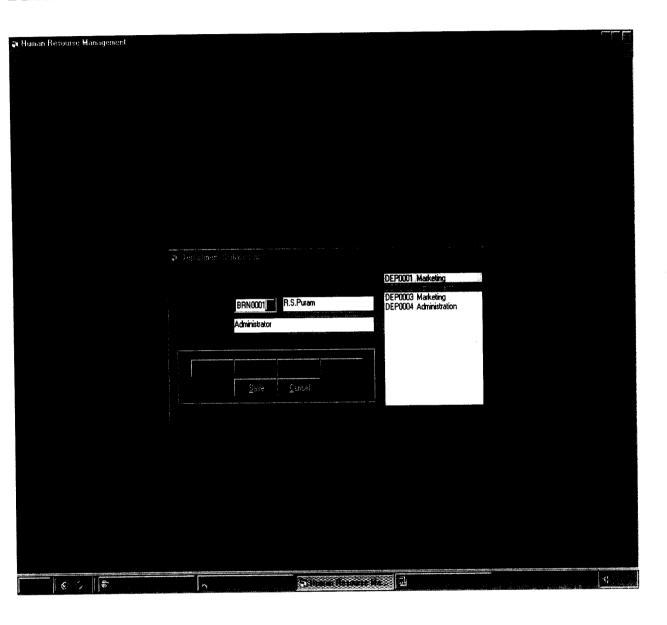


BRANCH DETAILS

¥ Human Resourse Management						
e out nouse.						
	R.S.Puram			BR	N0002 Gandhi Puram	
	D.B. Road					
	R.S.Puram					
	Coimabtore		641001			
	91 422	2550564	2550565			
	9894155056					
	pentasoft@vsnl.net Prasanna	angua (maganaran na magana 1977) Marangan mahanan andaran magana 1977	And American College Control of the College Co			
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	33330					
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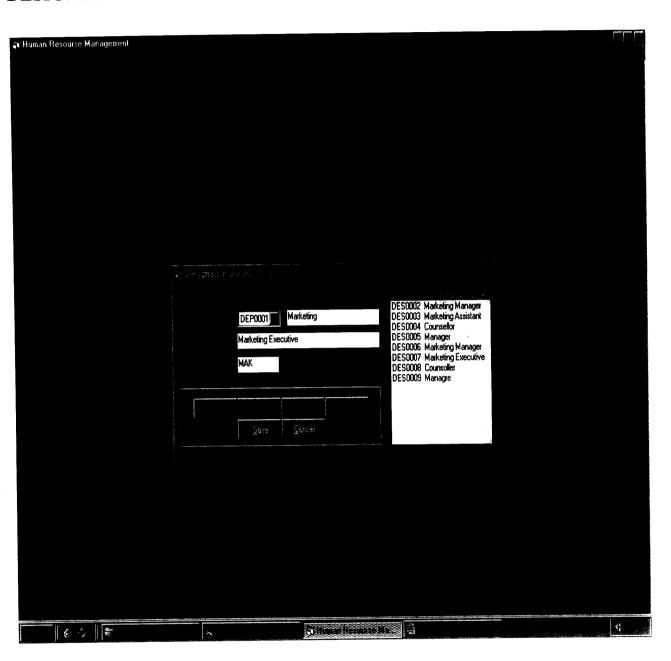
In the branch details form we have fields like branch name, address, city, phonenumber, ellnumber, eMail-id, manager, faxnumber. In the branch details we use the transaction buttons ke New, Modify and Delete. The new button is to add new branch. The modify button is to addify the branch details. The save button is to save the detail in the branch form, and cancel atton is to cancel the entered details. The next transaction is the delete command in which the ecords can be deleted. In this the list box will display all the record available in the branch form.

DEPARTMENT DETAILS:



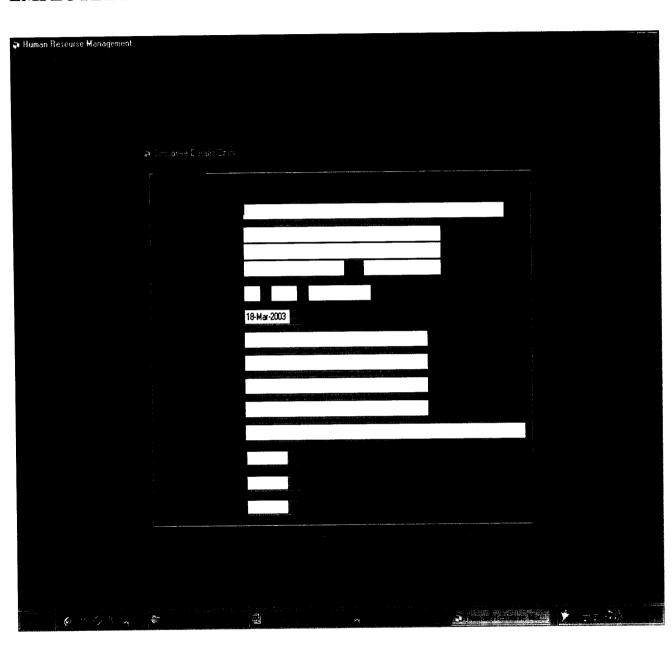
In the department details we have department code, branch name. the transaction keys are New, Modify ,Delete and Exit. In the New button, new department details are added. In the Modify button, the records in the department form will be changed. The Delete button in the department will delete the record in the department form. The save button will save the changes made through the transaction button and the cancel button will cancel the detail if it is not needed.

DESIGNATION DETAILS:



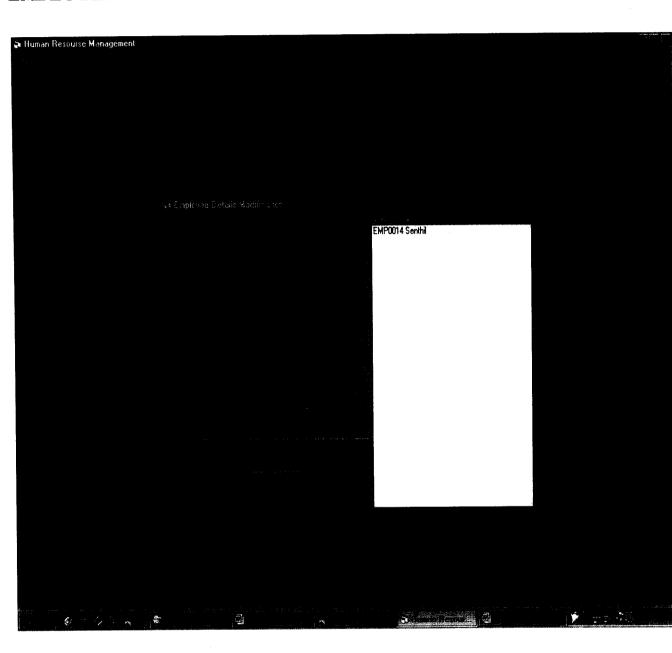
In the designation details we have designation code, department code, name and acronym. They have buttons like New, Modify, Delete for transaction. The save button is to save the record and the cancel button is to cancel the record which is not needed. The list box will list all the records. In the designation form the department code will act as a foreign key since it is taken from department details.

EMPLOYEE DETAILS



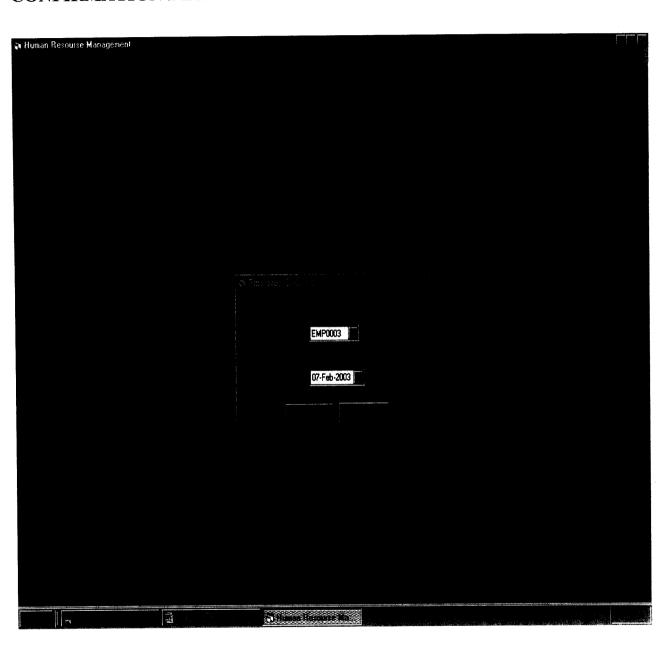
In employee details, we have employee name, employee code, address, and academic qualification. The employee code has to be specified under the desired branch, department and designation code. The employee personal details consist of all the personal entities of an employee. The employee payment details consist of the payment established for an employee.

EMPLOYEE MODIFICATION DETAILS



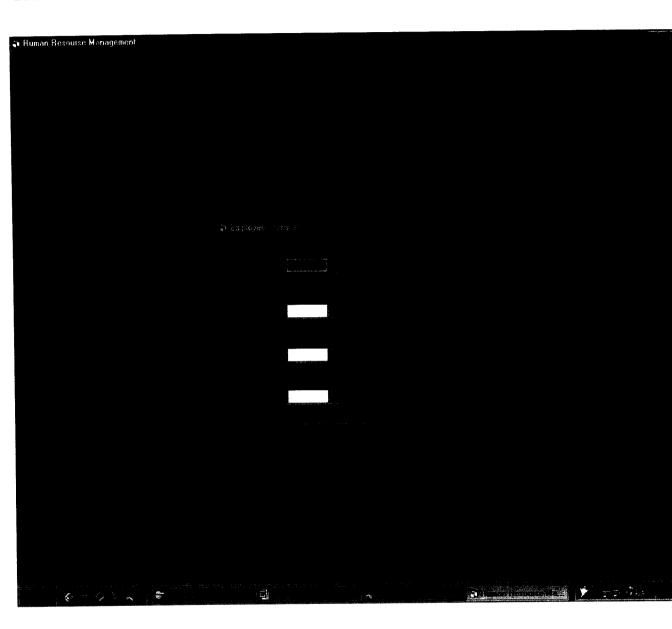
In employee modification form, the existing employee details can be modified, in case any changes have to be accomplished. Employee modification details consists of employee details, employee personal details and employee payment details. Any one of these can be selected and displayed in case any changes have to be made.

CONFIRMATION DETAILS



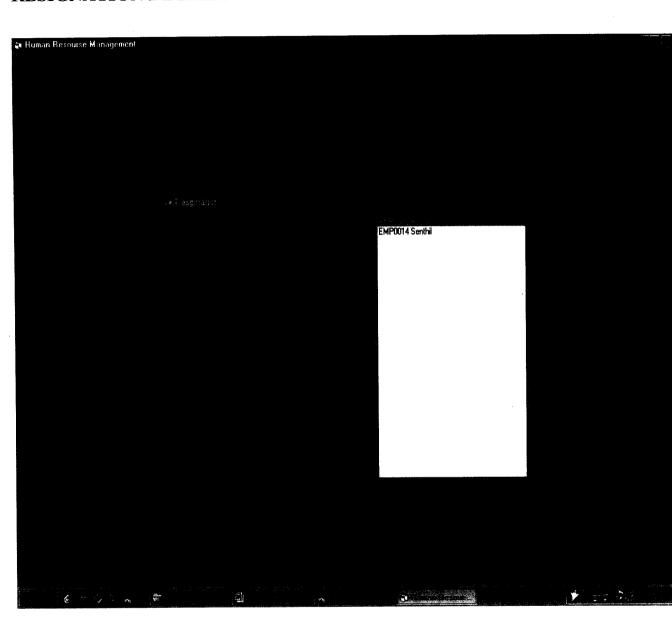
In confirmation details, we have confirmation code, Employee code, Employee name and confirmation date. By pressing the confirm button, an employee is confirmed in case the employee has worked for the company more than six months from his join date. The confirm date has to be provided at the confirmation time.

TRANSFER DETAILS



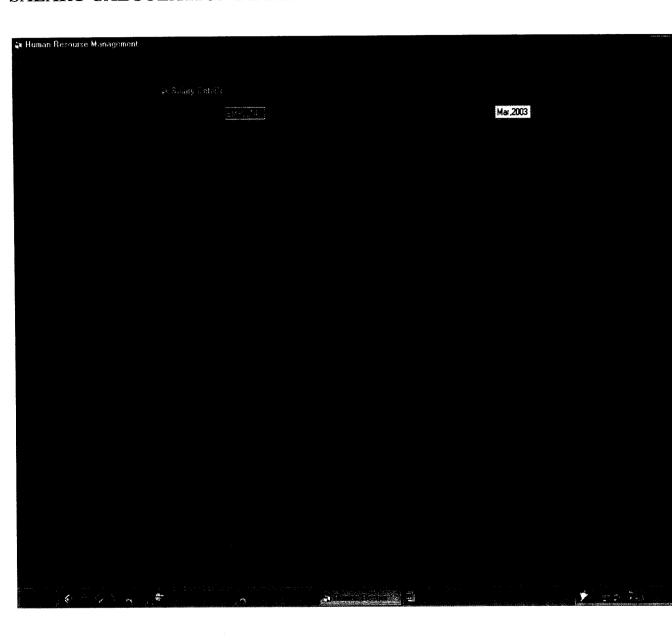
n transfer details; we have the employee code, the employee name, branch code, department code lesignation code is automatically generated when the employee code is selected. When an employee has be transferred his new branch code, department code, designation code should be selected. By saving the transferred details the employee is transferred to desired branch or department or designation.

RESIGNATION DETAILS



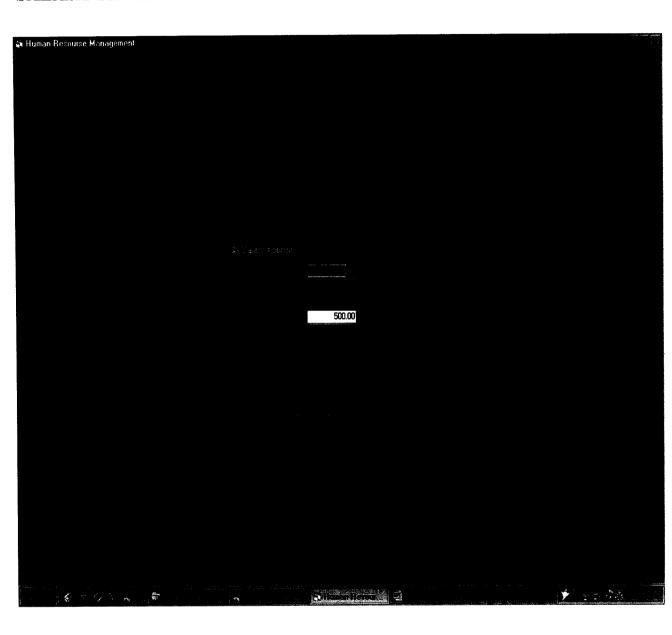
In resignation details, the employee code should be selected primarily and then by pressing the resign button, the employee will be resigned from the company. These resigned employees' details will be stored in a separate table designed for resignation. This will be accomplished as soon as the resign button is clicked.

SALARY CALCULATION DETAILS



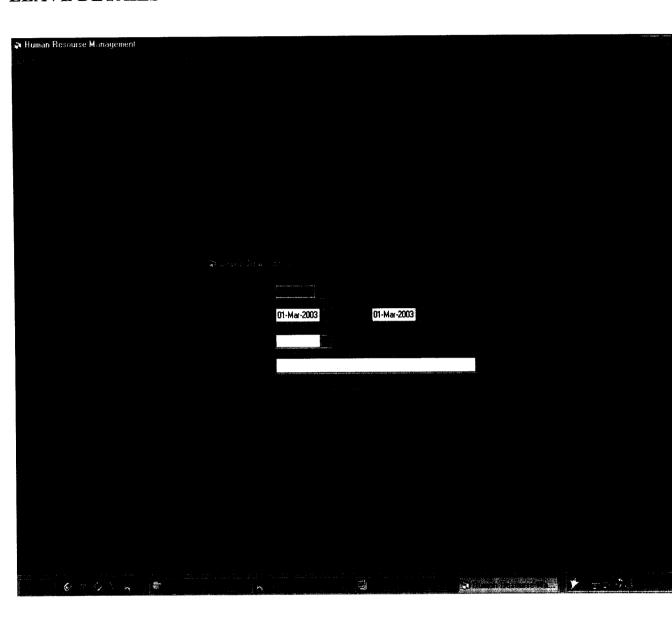
n salary calculation details, the employee code should be selected for which the salary has to be alculated. The salary has to be calculated by subtracting the deductions from the gross pay. The gross pay is the sum of basic salary and all allowances. The leave details are also implemented while calculating the salary for an employee.

SALARY REVISION DETAILS



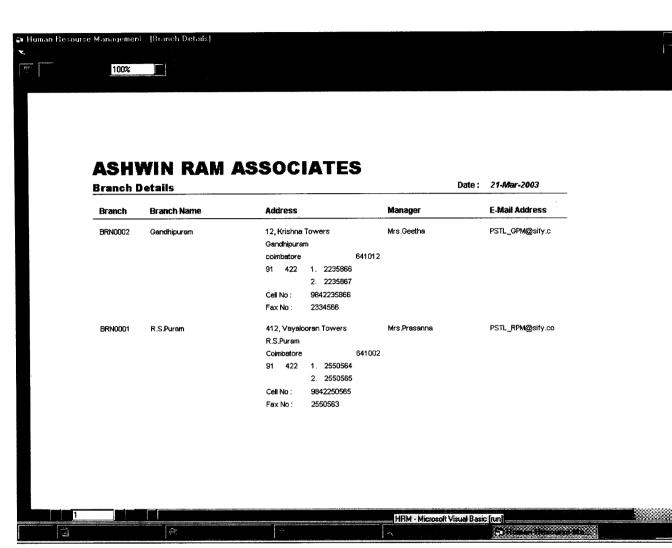
In salary revision details, if any increment is made in the employee's salary then the new salary details is prepared. This is accomplished by calculating the incremented basic salary with allowances, deductions and leave details.

LEAVE DETAILS

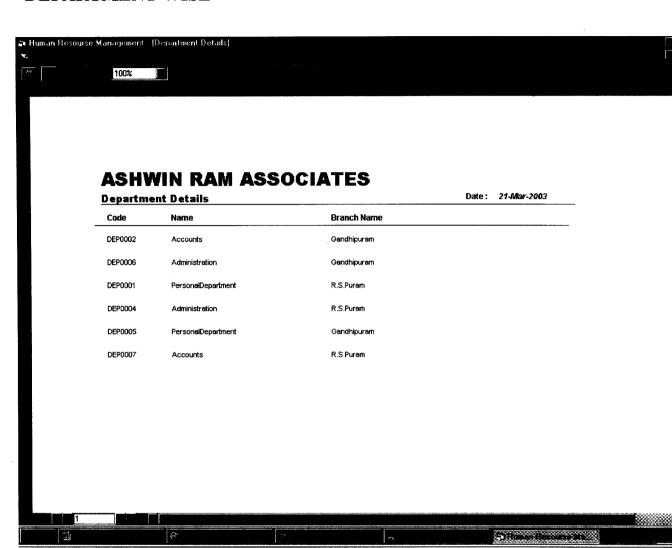


In leave details; we have employee code for selecting the specified one for leave. The employee name will be generated automatically when an employee code is selected. The from date and to date combo box are used for specifying the period of leave. The leave category consists of casual leave, paid leave, sick leave and other leave. The leave reason has to be specified.

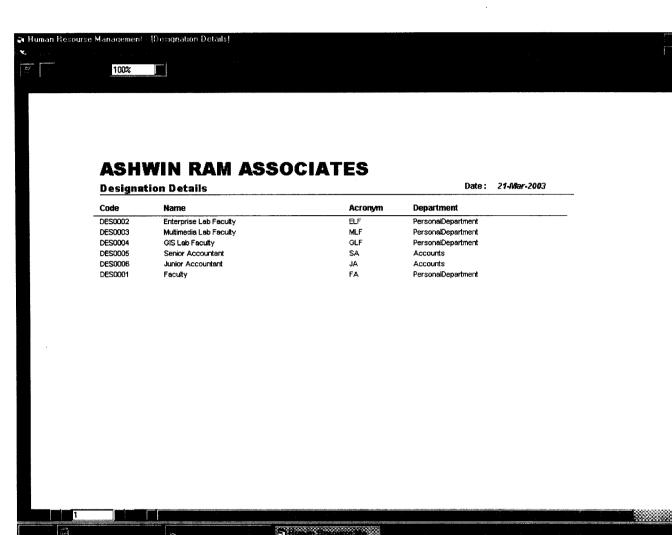
BRANCH WISE



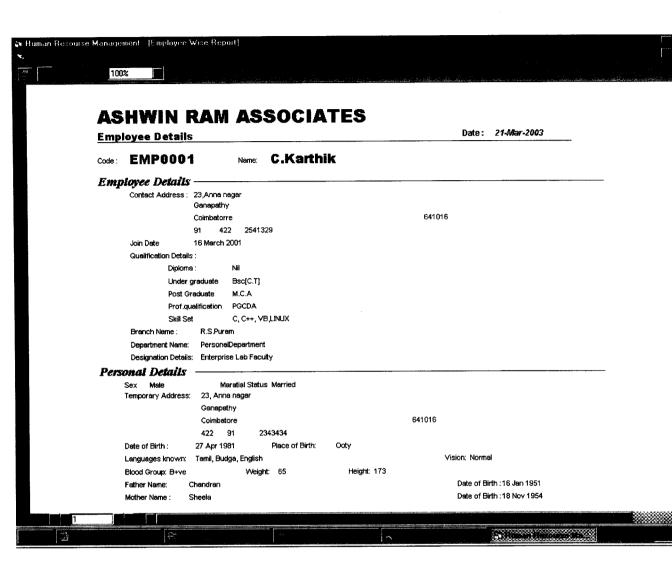
DEPARTMENT WISE



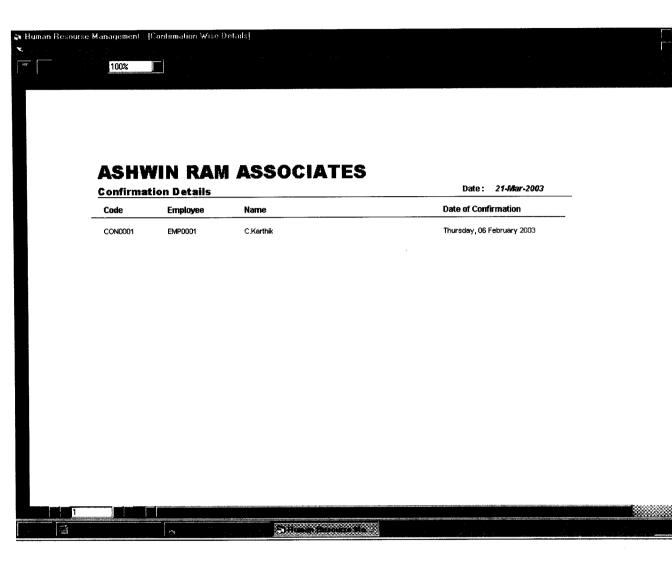
DESIGNATION WISE



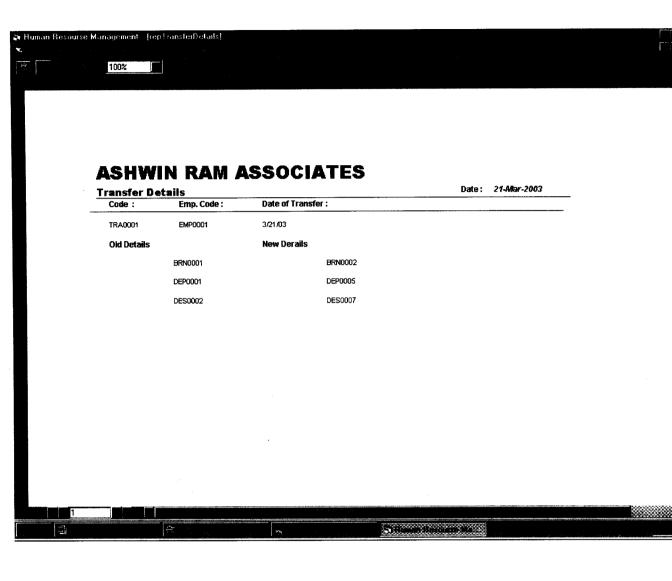
EMPLOYEE WISE



CONFIRMATION WISE



TRANSFER WISE



LEAVE WISE

