

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi- 590 018



A

Mini Project Report

On

“Human Resource Database Management System”

Submitted in partial fulfillment for the award of the **Bachelor of Engineering** degree

In

Computer Science and Engineering

V Semester

15CSL58 – DBMS Laboratory with Mini Project

For the academic year 2018 – 2019

By

Aastha Gupta 1HK16CS003

Fathima Zohra 1HK16CS047

Under the guidance of

Mrs.Amreen Khanam &

Mrs. Manjula H.T

Assistant Professor, Department of Computer Science and Engineering

December 2018



Department of Computer Science & Engineering

HKBK COLLEGE of ENGINEERING

(Approved by AICTE & Affiliated to VTU)

22/1, Nagawara, Arabic College Post, Bangalore-45, Karnataka

Email: info@hkbk.edu.in URL: www.hkbk.edu.in

2018 - 2019



HKBK COLLEGE *of* ENGINEERING

Nagawara, Bangalore -5600 47

Approved by AICTE & Affiliated to VTU

Department of Computer Science and Engineering

Certificate

Certified that the Project Work entitled “**Human Resource Database Management System**”, carried out by **Aastha Gupta (1HK16CS003)** and **Fathima Zohra (1HK16CS047)** bonafide students of **HKBK COLLEGE of ENGINEERING**, in partial fulfillment for the award of **Bachelor of Engineering in Computer Science and Engineering** of the **Visvesvaraya Technological University**, Belgavi, during the year 2018–19. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of **15CSL58–DBMS Laboratory with Mini Project** prescribed for the said Degree.

Prof.Amreen Khanam

Prof.Manjula H T

Dr. Loganathan R

External Viva

Name of the Examiners

Signature with Date

1. _____

2. _____

.

ACKNOWLEDGEMENT

We are grateful to the Chairman, **Mr. C.M. Ibrahim** and the Director **Mr. Faiz Mohammed C.M.** for having provided us with excellent facilities in the college during our course.

We are indebted to the Principal, for facilitating a congenial academic environment in the college.

We are grateful to **Dr. Loganathan R, HOD, Dept of CSE** for his kind support, guidance and motivation during the course of this project work.

We would like to thank our guide, **Mrs. Amreen Khanam & Mrs. Manjula H.T** and all the staff members of **Computer Science and Engineering Department** and our friends who have directly or indirectly helped us with valuable suggestions in the successful completion of this project.

Aastha Gupta 1HK16CS003

Fathima Zohra 1HK16CS047

ABSTRACT

The System Human Resource Database Management System creates software that stores and manages all the data needed to describe the personal and their framework within an organization .It includes definition of various levels of hierarchy in an organization, the description of every department functioning in the organization and the overall employ database which integrates elements in all the afore mentioned. It has database administration that has access to the entire database, in regards with viewing and update of information. The exclusive right is implemented using authorized access. Also viewing all data and editing of personal data can be done by HR. The data can be accessed, manipulated and retrieved very easily. The interface has been made very friendly. The data is well protected for use and the data processing i,e result of query functions has been made very quick and efficient.

TABLE OF CONTENTS

Acknowledgment	i
Abstract	ii
CHAPTER 1. INTRODUCTION	
1.1 Introduction	1
1.2 Problem Statement	1
1.3 Proposed solution	1
1.4 Objectives	2
1.5 Outcomes of the Project	2
CHAPTER 2. REQUIREMENT ANALYSIS	
2.1 Initial Investigation	4
2.2 Information Gathering	4
2.3 Feasibility Study	4
2.4 Existing System	5
2.5 Proposed System	5
2.6 Advantages of proposed system	6
CHAPTER 3. SYSTEM REQUIREMENT SPECIFICATION	
3.1 Functional Requirements	7
3.2 Non-Functional Requirements	7
CHAPTER 4. SYSTEM DESIGN	
4.1 System Architecture	8
4.2 ER diagram	9
4.3 Schema diagram	10
4.4 Flow Chart	11
CHAPTER 5. IMPLEMENTATION	
5.1 Tools and Languages Used	14
5.2 Module	
5.2.1 Module 1 - login	14

5.2.2 Module 2 – main menu	16
5.2.3 Module 3 - insert	17
5.2.4 Module 4 – search	
5.2.5 Module 5 – delete	18
5.2.5 Module 6 - update	20

CHAPTER 6. TESTING

6.1 Test case 1: Home Page	22
6.2 Test case 2: Admin login	22
6.4 Test case 4: Admin login	22
6.5 Test case 5: Insert	23
6.6 Test case 6: Insert	23
6.7 Test case 7: Delete	23
6.8 Test case 8: Search	24
6.9 Test case 9: Edit	24

CHAPTER 7. SNAPSHOTS

7.1 Home Page	25
7.2 login	25
7.3 Main menu	26
7.4 Insert	26
7.5 Delete	28
7.6 Update	29
7.7 Search	30

CHAPTER 8. CONCLUSION AND FUTURE WORK

Conclusion and Future Work	31
----------------------------	----

References

CHAPTER 1

INTRODUCTION

CHAPTER 1

INTRODUCTION

1.1 Introduction

The Project has been developed keeping in view to develop a system that deals with the day to day requirement of an organization and also to enable the organization to come out with an easy to handle system of the Human Resource Management.

The Human Resource Database Management software is very friendly and appealing. The main objective of the system is to maintain and retrieve information about the entire personnel framework of the organizational system. This system is fairly simple in design and implementation. The proposed system is to design a hierarchical framework in terms of positions held. Thus depicting the organizational hierarchy. Update of the structure of the same as well as addition of new elements. We can search for all employees, departments, dependent information etc. is possible which can be department wise, level-wise and other parameter based search enabled. There is computerized payroll generation, manipulation and management. It is a easy management of databases of various sections covering key aspects.

1.2 Problem Statement

- Slow process of the organization's human resource. In the past recording keeping was done on paper and with spreadsheets.
- No proper security of the employee's information as well as the organization's information.
- Difficulty in monitoring their daily records.
- Slow retrieval of data.
- Poor data storage.
- Unsecured data.

1.3 Proposed Solution

The proposed system provides detail general information about the employee along with Educational, Certification, Skill and project details.

It enhances the HR management in adding, viewing and updating employees' details and generates various reports regarding employees' skill and experience. Improved manual system is another solution for the improvement of the system. Also it promises very less or no paper work and also provides help administrate and electronically. Information can be retrieved very easily.

1.4 Objectives.

Human Resource Information System is a systematic way of storing data and information for each individual for each individual employee to aid planning, decision making and submitting of returns and reports to the external agencies. It is an online solution for the data entry and tracking of a company's human resources department information, payroll, management and accounting. An effective HRS provides information on just about anything the company needs to track and analyze about employees, former employees and applicants.

Thus in a nutshell, an HRS serves the following functions:

- Storing information and data of each individual employee
- Providing a basis for planning, decision making, controlling and other human resource functions.
- Supplying data and submitting it the organization
- Retrieving data about individual employee.
- Modifying the information related to a particular employee .

1.5 Outcomes of the project.

- Contribute to the development, implementation, and evaluation of employee.
- Develop, implement, and evaluate organizational development strategies aimed at promoting organizational effectiveness.

- Conduct research, produce reports, and recommend changes in human resources practices.
- The organization can keep the track of the number of employees

Easy and effective maintenance job can be done without having any redundancy

CHAPTER 2

REQUIREMENT ANALYSIS

CHAPTER 2

REQUIREMENT ANALYSIS

2.1 Initial Investigation.

The need of a software that can maintain the details of the employees working in an organization and also to protect their information lead to the development of this system. Initially, there was only manual system for storing their information. As this is a tedious process an approach towards the computerized data storage lead to the development of this system.

2.2 Information Gathering.

There are a series of activities regarding to this section such as analyzing, tracking and utilizing data on project. With the help of google as search browser information was gathered. Need for training that is the administrator has to be well trained for the smooth running of the system

2.3 Feasibility study.

Once the problem is clearly understood, the next step is to conduct feasibility study, which is high high-level capsule version of the entered systems and design process. The objective is to determine whether or not the proposed system is feasible.

➤ Technical Feasibility

In technical Feasibility study, one has to test whether the proposed system can be developed using existing technology or not. It is planned to implement the proposed system using java technology. It is evident that the necessary hardware and software are available for development and implementation of the proposed system. Hence, the solution is technically feasible.

➤ **Economic Feasibility**

As part of this, the costs and benefits associated with the proposed system compared and the project is economically feasible only if tangible or intangible benefits outweigh costs. The system development costs will be significant. So the proposed system is economically feasible.

➤ **Operational Feasibility**

It is a standard that ensures interoperability without stifling competition and innovation among users, to the benefit of the public both in terms of cost and service quality. The proposed system is acceptable to users. So the proposed system is operationally feasible.

2.4 Existing system

A few drawbacks of the existing system are:

- Need of extra manual effort
- It used to take much time to find any employee
- Not very much accurate
- Danger of losing the files in some cases

2.5 Proposed System

The proposed system provides detail general information about the employee along with Education, Certification skill and project details. It enhances the HR management in adding, viewing and updating employees' details and generates various reports regarding employee's skill and experience. Suggestions and Grievances posted by the employees are update for taking care of the necessary steps in forwarding company's obligations.

2.6 Advantages of the Proposed System

- Very simple and easy to implement
- Security of data
- Ensure data accuracy
- Administrator discretion and control over the entire system

- Reduces the damages of machine
- Minimizes manual data entry
- Greater efficiency
- User friendly and interactive
- Less time consuming

CHAPTER 3

SYSTEM REQUIREMENTS

CHAPTER 3

SYSTEM REQUIREMENT SPECIFICATION

3.1 Functional Requirements

The Functional Requirements Specification documents the operations and activities that a system is able to perform .It is designed to be read by a general audience. Readers should understand the system, but no particular technical knowledge should be required. The Human Resource Management System provides following functionality for effective usage and maintenance of human resource information.

Administrator:

1. Add:-Adds the details of the Employee to the database.
2. Delete:-Delete the details of the any Employee to the database.
3. Update:-we can update the details of employee. Suppose, in case any employee is being hired for some top position for the company then details of that particular employee needs to be updated or if some employee address is changed recently, it needs to be updated.
4. Search:-The admin can use any SQL commands to retrieve any information concerning the database.

3.2 Non Functional Requirements

3.2.1 Safety Requirements

There are several user levels in Human Resource Management System. Access to the various subsystems will be protected by a user login, which requires a username and password. This gives different views and accessible functions of user levels through the system. Maintaining backups ensure the system database security.

3.2.2 Security Requirements

Admin will be able to login to the Human Resource Management Database System. Admin will have access to the management subsystem as well as the user account but he has the maximum privileges. Anyone who is not registered will not be able to access the database.

CHAPTER 4

SYSTEM DESIGN

CHAPTER 4

SYSTEM DESIGN

4.1 System Architecture

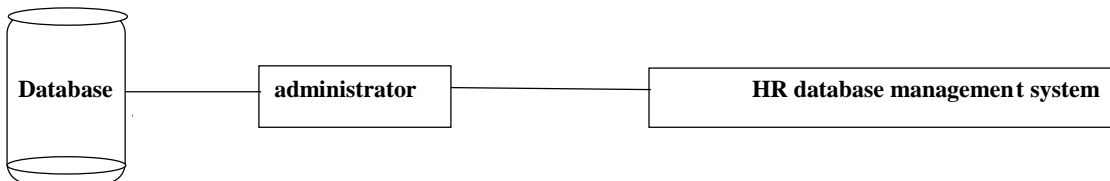


Fig 4.1 System Architecture

4.1.1 Administration module:

This module is protected by the username and password .Ordinary users will not be permitted to enter this area of the software. The administrator can modify the data that has been already entered and also can insert/add new data into the database and can also update and delete the database. The administrator plays an important role in this database system. The administrator has a username and the required password to have access to the main menu of the database.

4.1.2 Database:

Data are known facts that can be recorded and that have implicit meaning. Database management system is a collection of programs that enables users to create and maintain the database. It is a general-purpose software system that facilitates the processes of defining, constructing, manipulating, and sharing database among various users and applications.

4.2: ER-DIAGRAM

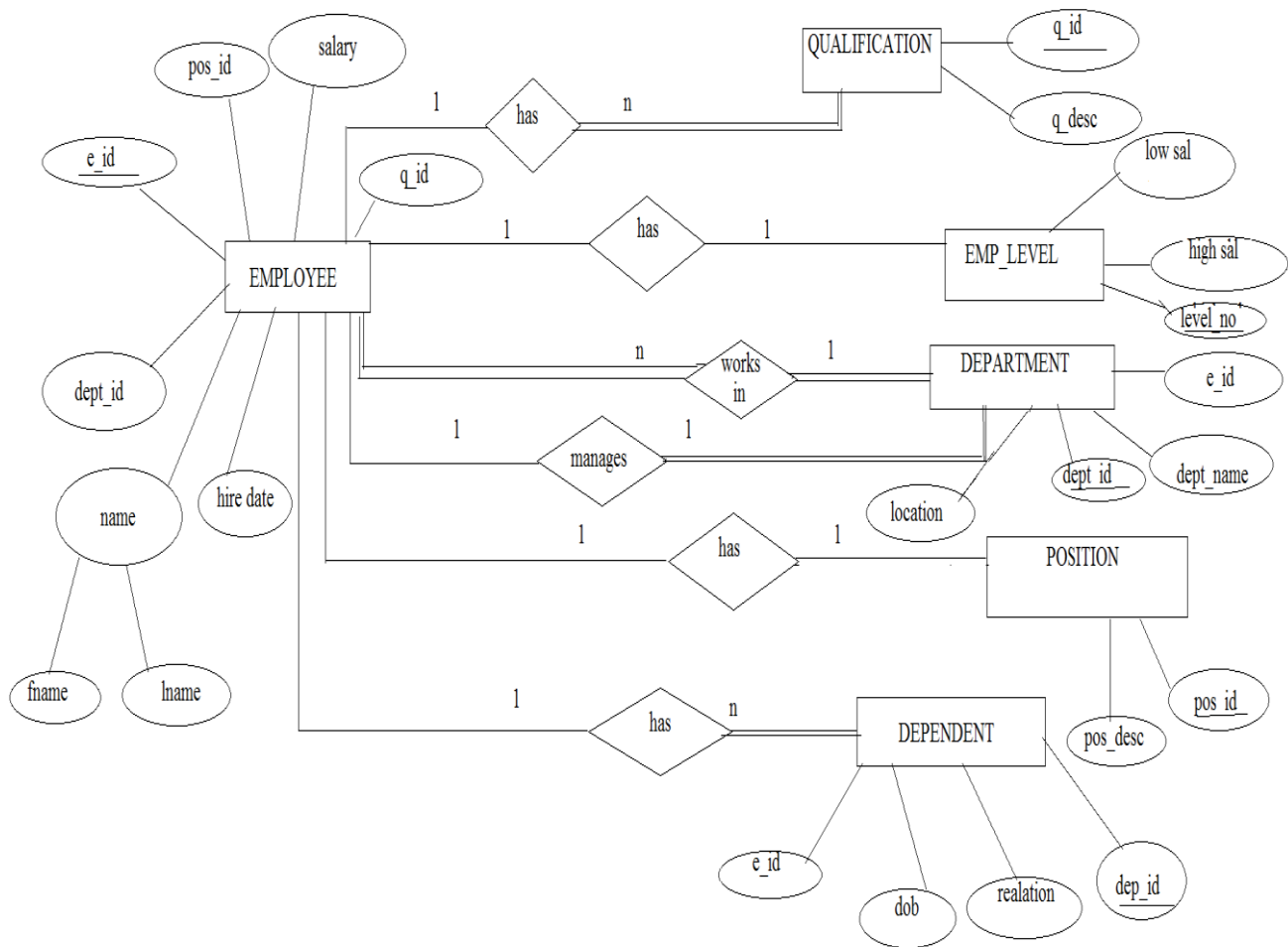


Fig 4.2 ER diagram

4.3 Schema Diagram

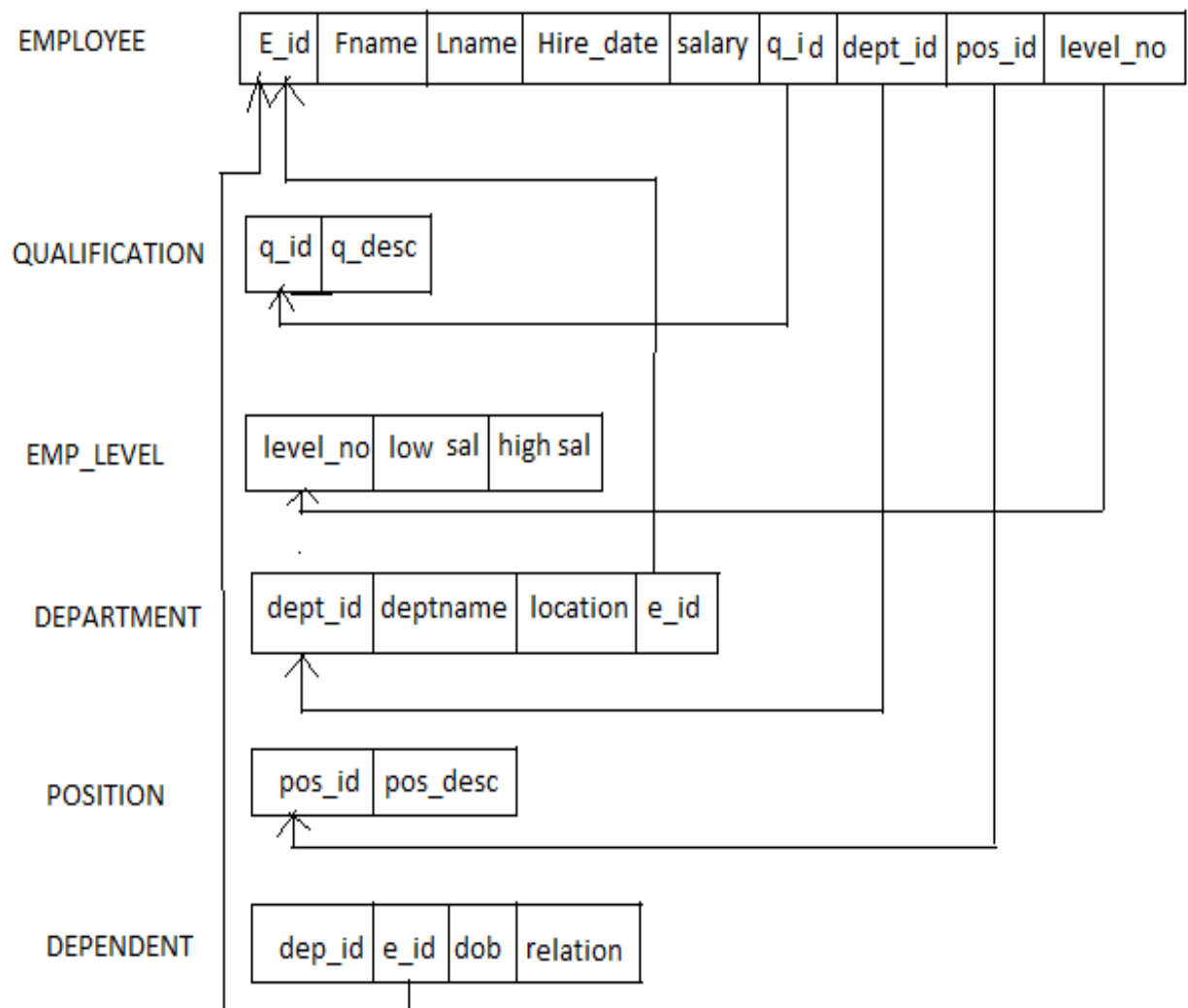


Fig 4.3 Schema Diagram

4.4 Flow charts or DFDs

➤ Login

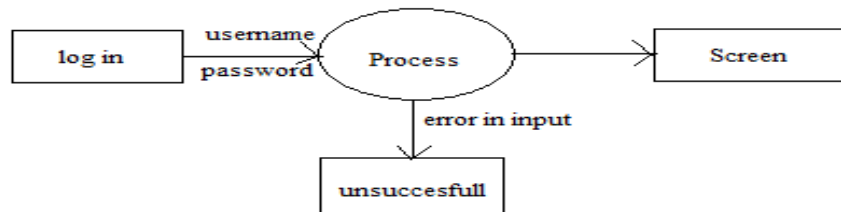


Fig 4.1 login

➤ Main menu

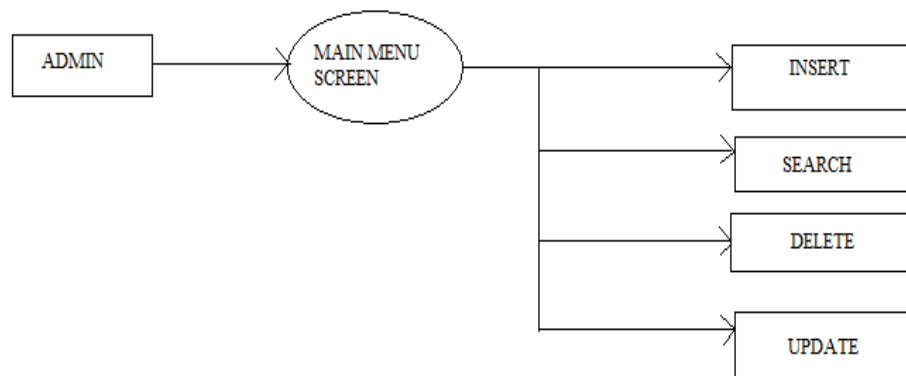


Fig 4.2 main menu

➤ Insert

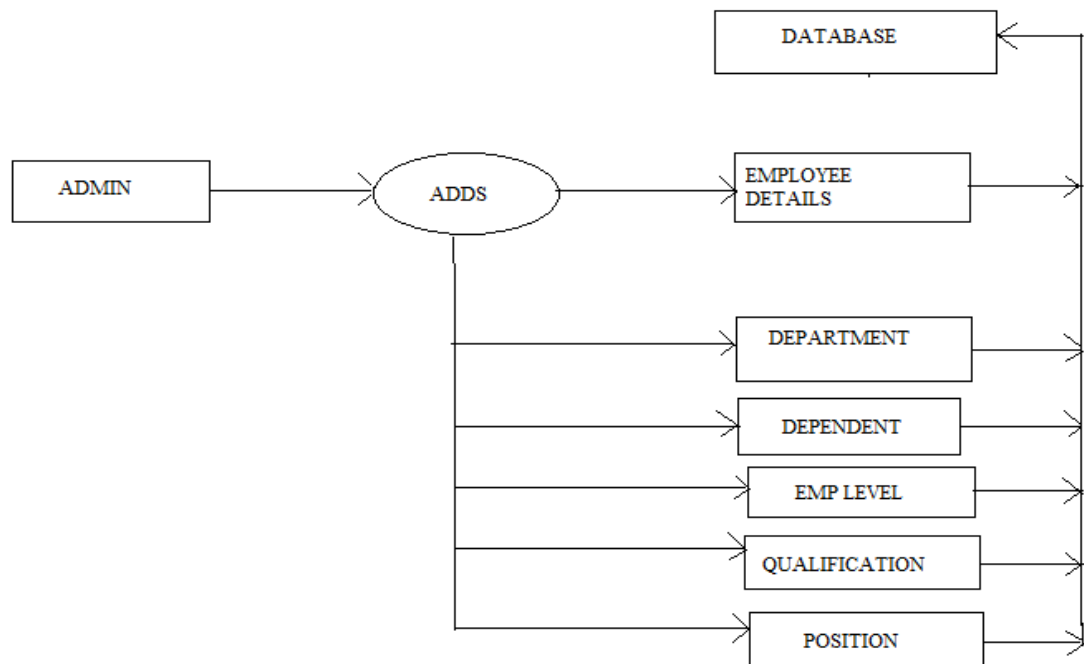


Fig 4.3 insert

➤ Delete

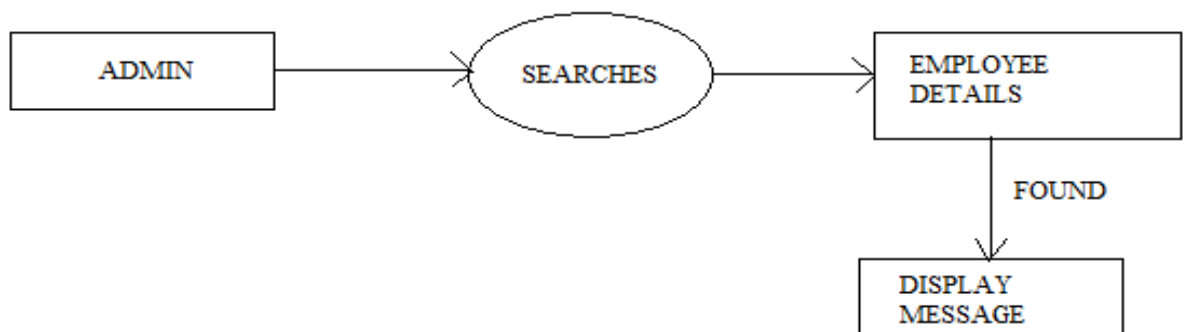


Fig 4.4 search

➤ Delete

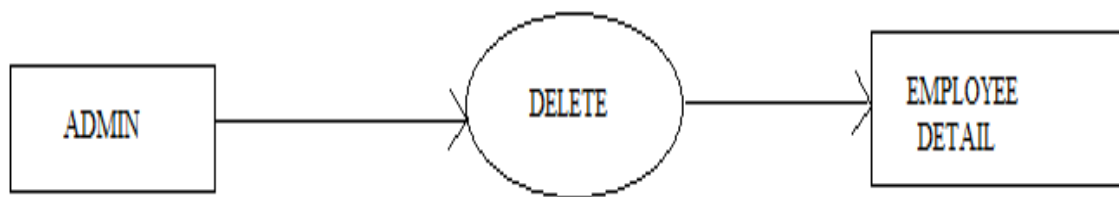


Fig 4.5 delete

➤ Update

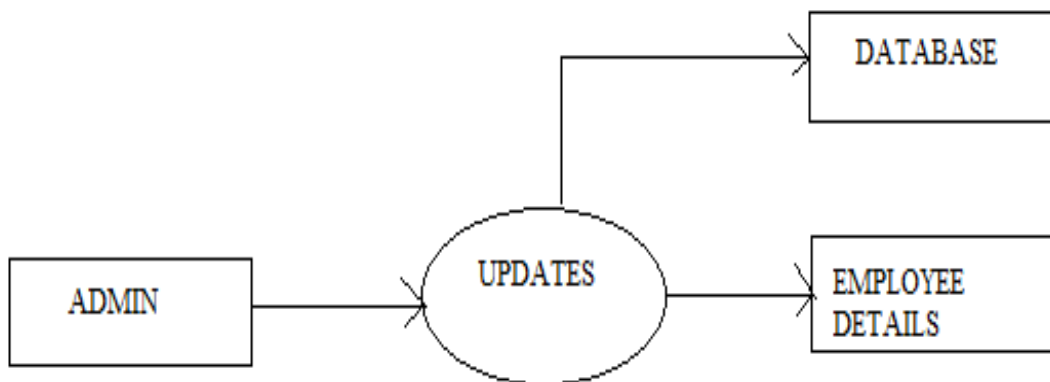


Fig 4.6 update

CHAPTER 5

IMPLEMENTATION

CHAPTER 5

IMPLEMENTATION

5.1 Tools and language used.

The tools used in this project are as follows:

➤ **Hardware Tools**

1. Processor: x86 compatible processor with 1.7 Ghz Clock Speed
2. RAM:-512 MB or greater
3. Hard Disk:-20GB or greater
4. Monitor: VGA/SVGA
5. Keyboard:-104 keys standard
6. Mouse:-2/3 button Optical/Mechanical

➤ **Software Tools**

1. Operating System: Windows 10.
2. Browser (Chrome/Firefox)
3. Front end: Java Net beans
4. Rear end: Oracle or MySQL

The Scripting language used in this project is JAVA

5.2 Modules.

5.2.1 Module 1 – login

This module lets the administrator to log in so that he/she can have an access to the information regarding to the employee. The log in module enables the administrator to get an access to the information of the employee by typing his/her username followed by the correct password for the respective username. Also this module has the stored procedure which is called for different administrators using the callable statement.

package hr;

```
import java.swing.JOptionPane;

import java.sql.CallableStatement;

import java.sql.DriverManager;

import java.util.logging.Logger;

private void jButtonActionPerformed(java.awt.event.ActionEvent evt)

{

try{

Connection con=DriverManager.getConnection('jdbc:mysql://localhost/employee','root',' ');

String query ="{CALL ADMINLOGIN(? ? ?)}";

CallableStatement cs=con.preparedCall(query);

cs.setString(1,Username);

cs.setString(1,password);

cs.registerOutParameter(3,Types.INTEGER);

cs.execute( );

int count =cs.getInt(3);

if(count==1)

{

JOptionPane.showMessageDialog(null,"login successful!!!"+"\\n"+"welcome admin");

menuif nm=new menuif( );

this.getParent().add(nm);

nm.setVisible(true);

}

else{
```

```
JOptionPane.showMessageDialog(null,"unsuccessful");
}}
```

5.2.2 Module 2 – main menu

The main menu lets the administrator to select the various operations such as insert, delete, search and update depending upon the operation to be performed. The main menu has the options insert, delete, search and update which lets the administrator to insert the employee, qualification, department, dependent etc , delete the employee, update the employee's information and search any employee that exists in the organization.

```
package hr;
import java.awt.Color;
import java.sql.*;
import javax.swing.*;
public class menuif extends javax.swing.JInternalFrame {
    public menuif() {
        initComponents();
        getContentPane().setBackground(Color.MAGENTA);
    }
    private void jMenuItem1ActionPerformed(java.awt.event.ActionEvent evt) {
        addemployee a=new addemployee();
        dp2.add(a);
        a.setVisible(true);
    }
    private void jMenuItem2ActionPerformed(java.awt.event.ActionEvent evt) {
        deptdb d=new deptdb();
        dp2.add(d);
        d.setVisible(true);
    }
    deleteemp de=new deleteemp();
        dp2.add(de);
        de.setVisible(true);
    }
```

```

    }
    private void jMenuItem13ActionPerformed(java.awt.event.ActionEvent evt) {
        editemp ee=new editemp();
        dp2.add(ee);
        ee.setVisible(true);
    }
    private void jMenuItem7ActionPerformed(java.awt.event.ActionEvent evt) {
        searchemp se=new searchemp();
        dp2.add(se);
        se.setVisible(true); }

```

5.2.3 Module 3 – insert.

This module enables the administrator to insert the details of new employees, qualification department, dependent, employee level and position.

- Insertion of new employee.

```

package hr;
import java.awt.Color;
import java.sql.*;
import javax.swing.*;
public class addemployee extends javax.swing.JInternalFrame {

    public addemployee() {
        initComponents();
        getContentPane().setBackground(Color.ORANGE);
    }
    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

```

```

try{
    stmt.execute("INSERT                                INTO                                addemployee
(NAME,BIRTHDAY,BIRTHMONTH,BIRTHYEAR,ID,ADDRESS,SEX,SALARY,DEPART
MENTID,POSITIONID,QUALIFICATIONID,MOBILE,HIREDAY,HIREMONTH,HIREYEA
R)VALUES('"+NameText.getText()+"','"+ BirthDay.getSelectedItem()+"','"+
                                +                                BirthMonth.getSelectedItem()+"','"+
BirthYear.getSelectedItem()+"','"+                                id.getText()+"','"+                                address.getText()+"','"+
sex.getSelectedItem()+"','"+
    + salary.getText()+"','"+ department.getSelectedItem()+"','"+ pos.getSelectedItem()+"','"+
qualification.getSelectedItem()+"','"+ mobile.getText()+"','"+ HireDay.getSelectedItem()+"','"+
HireMonth.getSelectedItem()+"','"+ HireYear.getSelectedItem()+"");

    catch(SQLException ex)
    {
        JOptionPane.showMessageDialog(null,ex.toString());
    }
}

```

➤ Insertion of department.

```

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    try{
        stmt.execute("INSERT                                INTO
deptdb(DEPARTMENTID,DEPARTMENTNAME,LOCATION,MANAGEMENTID)VALUES
('"+DepartmentId.getText()+"','"+ DeptName.getText().toString()+"','"+
                                + location.getText().toString()+"','"+ managementid.getText()+"");
        JOptionPane.showMessageDialog(null,"Employee addedto database"); }

```

➤ Insertion of dependent.

```

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    try{

```

```

        stmt.execute("INSERT INTO
depdb(EMPLOYEEID,DEPENDENTID,DEPENDENTDOB,RELATION)VALUES('"+empid.g
etText()+"','"+ denid.getText()+"','"+
        + dendob.getText()+"','"+rel.getText()+"");
JOptionPane.showMessageDialog(null,"Employee addedto database");

```

➤ Insertion of employee level

```

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

    try{
        stmt.execute("INSERT INTO empldb
(LEVELNO,LOWSALARY,HIGHSALARY)VALUES('"+levelno.getText()+"','"+
lowsal.getText()+"','"+
        + highsals.getText()+"");
JOptionPane.showMessageDialog(null,"Employee addedto database");

    }

```

➤ Insertion of qualification

```

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

    try{
        stmt.execute("INSERT INTO
qualdb(QUALIFICATIONID,QUALIFICATIONDESCRIPTION)VALUES('"+qualid.getText()
+"','"+ Desc.getText()+"");
JOptionPane.showMessageDialog(null,"Employee addedto database");

```

➤ Insertion of position

```

private void addbtnActionPerformed(java.awt.event.ActionEvent evt) {

    try{
        stmt.execute("INSERT INTO posdb
(POSITIONID,POSITIONDESCRIPTION)VALUES('"+posid.getText()+"','"+
posd.getText()+"");
JOptionPane.showMessageDialog(null,"Employee addedto database");

```

```
}
```

5.2.4 Module 4 – Search

The administrator or the HR can easily search any employee of the organization. This module allows the HR to search the information of any employee easily without any complications. If the employee's information exists in the database then a message that the record is found will be displayed

```
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    int result= List1.getNextMatch(SearchText.getText(),0, Position.Bias.Forward);
    List1.setSelectedIndex(result);
}
```

5.2.4 Module 5 – delete

This module allows the administrator to delete the records of an employee who has left the organization due to relevant reasons or has been removed by the organization. In this the HR can keep the track of all the employees that are currently present in the organization without having any problems. By just entering the employee id the entire information related to that employee will be deleted from the database.

```
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    try{
        String Query="delete from addemployee where '"+eid.getText()+"'=id";
        stmt.execute(Query);
        JOptionPane.showMessageDialog(null,"Employee is deleted from database");
    }
}
```

5.2.5 Module 6 – Update.

This module allows the Administrator to update the information of the existing employees. The administrator can simply edit the information regarding to that particular employee. After editing the information the changes made will be displayed at the left side of the frame. Thus eases the job of the administrator in updating.

```
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {  
    try{  
        String Query="delete from addemployee where '"+eid.getText()+"=id";  
  
        int result= List1.getNextMatch(UpdateText.getText(),0, Position.Bias.Forward);  
        List1.setSelectedIndex(result);  
    }  
}
```


CHAPTER 6

TESTING

CHAPTER 6

TESTING

6.1 TEST CASE – 1: HOME PAGE

Test Description	What action take place when clicking on the login tab.
Sample Input	Click on login tab.
Expected Output	Redirect to login page.
Actual Output	Redirect to login page.
Remark	Pass

6.2 TEST CASE – 2: ADMIN LOGIN

Test Description	What action take place when clicking on SUBMIT button with valid username (which is stored) and password.
Sample Input	Click on SUBMIT button with valid username and password.
Expected Output	Redirect to main menu.
Actual Output	Redirect to main menu.
Remark	Pass

6.3 TEST CASE – 3: ADMIN LOGIN

Test Description	What action take place when clicking on SUBMIT button with username (which is not stored) and password.
Sample Input	Click on SUBMIT button with username and password.
Expected Output	Redirect to home page.
Actual Output	Error message displaying as unsuccessful
Remark	Pass

6.4 TEST CASE – 4: INSERT

Test Description	What action take place when clicking on insert in main menu page.
Sample Input	Click on insert.
Expected Output	Clicking on insert will display the list of insert options.
Actual Output	Clicking on insert will display the list of insert options.
Remark	Pass

6.5 TEST CASE – 5: INSERT

Test Description	What action takes place when on any of the option from the insert list is clicked
Sample Input	Click on any of the option.
Expected Output	Clicking on any of the option will redirect to that respective option page.
Actual Output	Clicking on any of the option will redirect to that respective option page.
Remark	Pass.

6.6 TEST CASE – 6: DELETE

Test Description	What action take place when clicking on the employee tab under delete.
Sample Input	Click on employee tab.
Expected Output	Clicking on employee will redirect to the delete page.
Actual Output	Clicking on employee will redirect to the delete page.
Remark	Pass.

6.7 TEST CASE – 7: SEARCH

Test Description	What action take place when we click on the search button.
Sample Input	Click on search button.
Expected Output	Clicking on search button will redirect to search page where we can search for employee.
Actual Output	Clicking on search button will redirect to search page where we can search for employee.
Remark	Pass.

6.8 TEST CASE – 8: EDIT

Test Description	What action take place when we click on the edit button.
Sample Input	Click on edit button
Expected Output	Clicking on the edit button will redirect to edit page where we can edit the information of the employee
Actual Output	Clicking on the edit button will redirect to edit page where we can edit the information of the employee.
Remark	Pass.

CHAPTER 7

SNAPSHOTS

CHAPTER 7

SNAPSHOTS

7.1 Home Page.



Fig 7.1 main frame

7.1 Login.

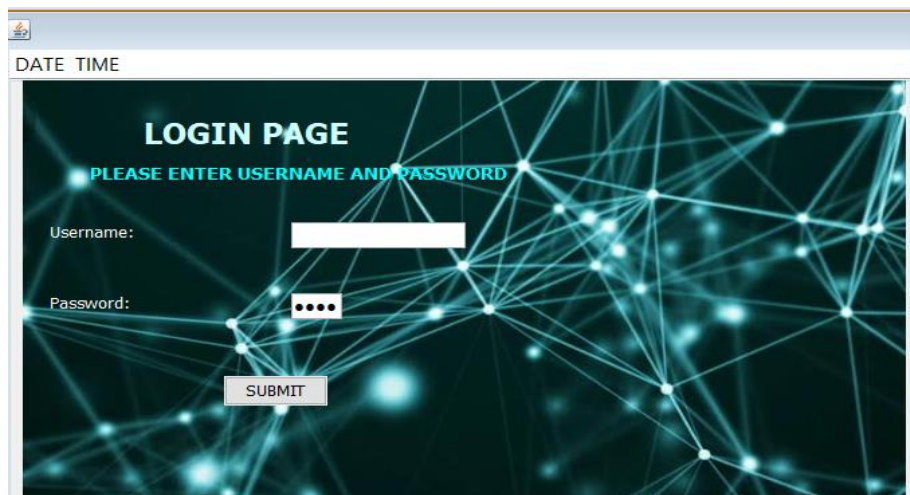


Fig 7.2 login page

7.1 Mainmenu

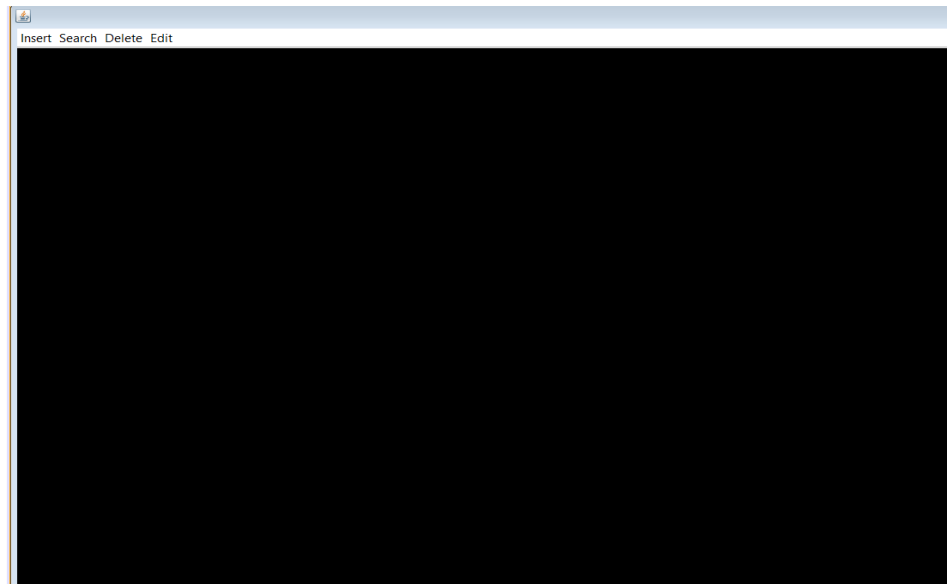


Fig 7.3 main menu

7.1 Insert

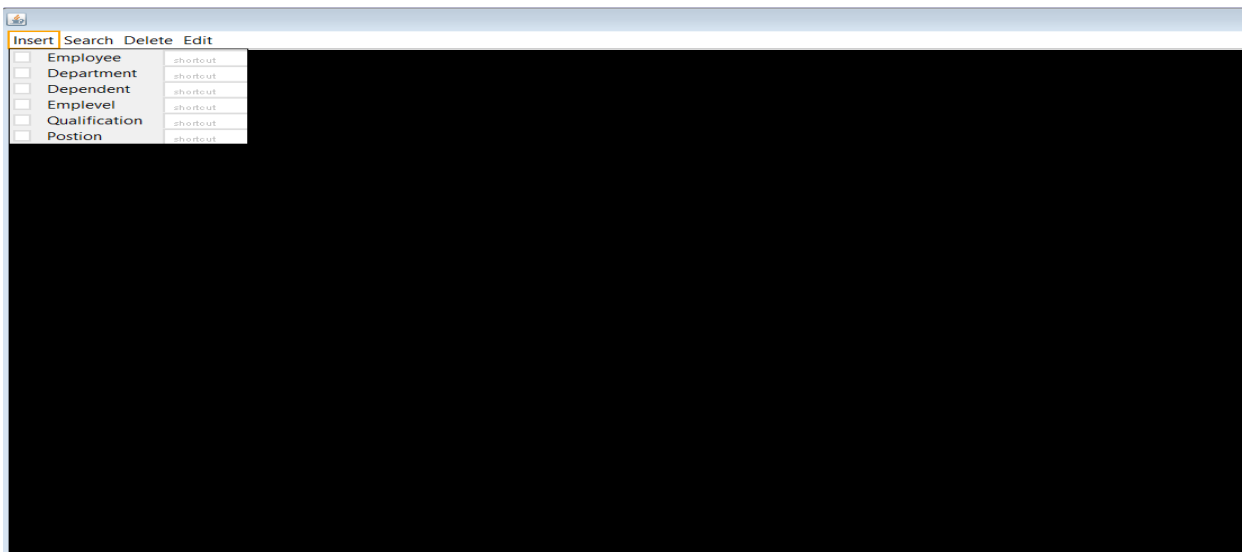


Fig 7.4 selecting insert

7.1.Insertion of employee details

The screenshot shows a web application window titled 'login' with a menu bar containing 'Insert', 'Search', 'Delete', and 'Edit'. The main content area is yellow and titled 'DETAILS OF EMPLOYEE' with the instruction 'PLEASE INSERT DETAILS OF EMPLOYEE BELOW'. The form contains the following fields and values:

- NAME:- pinky
- BIRTHDAY:- 05 / 05 / 19...
- ID:- 3456
- ADDRESS:- hcl
- SEX:- ...
- SALARY:- 120000
- DEPARTMENT ID :- 3
- POSITIONID:- ...
- QUALIFICATION ID :- ...
- MOBILE:- 55667788
- HIRE DATE:- ... / ... / 1999

An 'ADD EMPLOYEE' button is at the bottom. A message box on the right says 'Employee added to database' with an 'OK' button.

Fig 7.6 inserting employee details

7.1.Insertion of department

The screenshot shows a web application window titled 'login' with a menu bar containing 'Insert', 'Search', 'Delete', and 'Edit'. The main content area is yellow and titled 'DEPARTMENT FOR WHICH EMPLOYEE WORKS'. The form contains the following fields and values:

- DEPARTMENT ID:- 1234
- DEPARTMENT NAME:- cse
- LOCATION:- kalyan nagar
- MANAGEMENT ID:- 4567

'INSERT' and 'CANCEL' buttons are at the bottom. A message box on the right says 'Employee added to database' with an 'OK' button.

Fig 7.7 inserting department

7.2 Delete

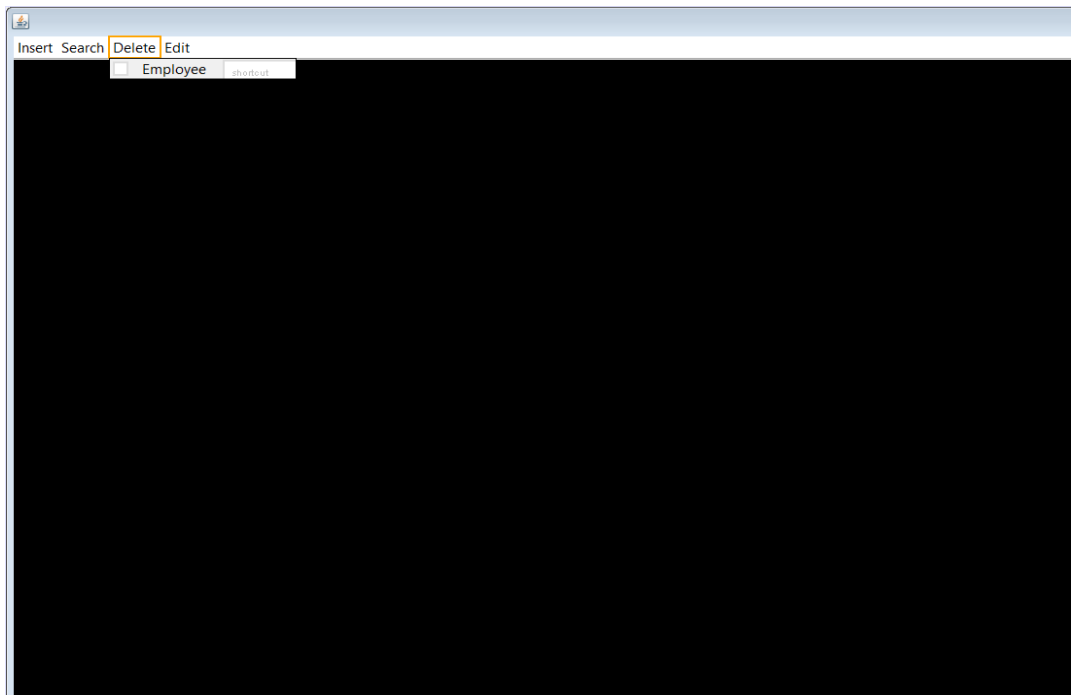


Fig 7.8 selecting delete

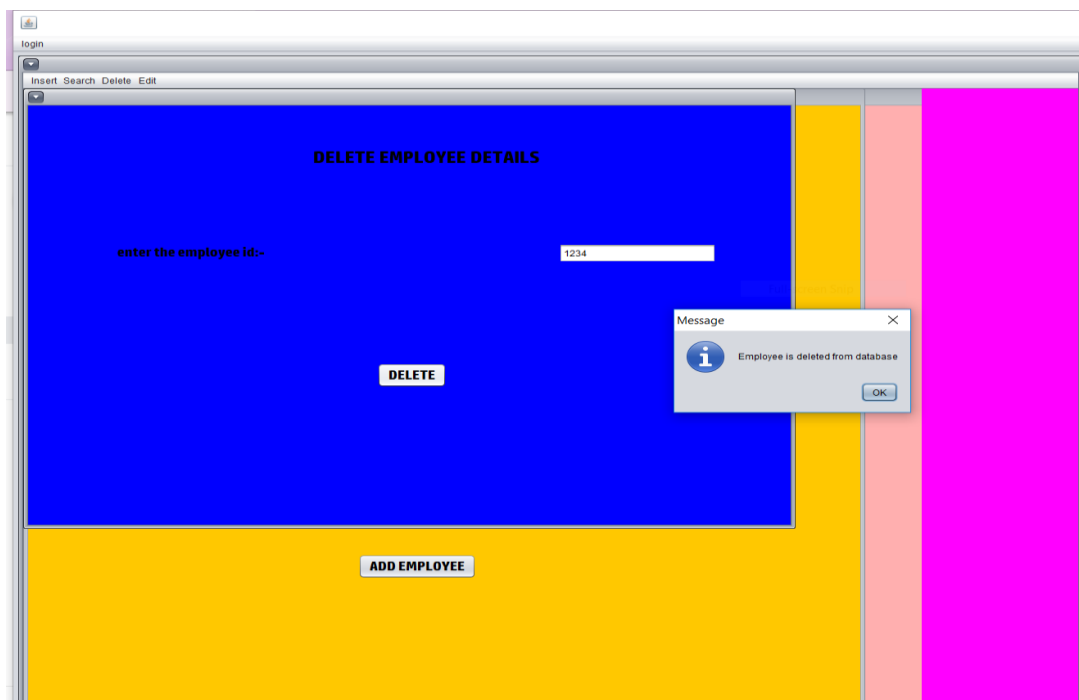


Fig 7.9 deleting of employee details

7.4 Update

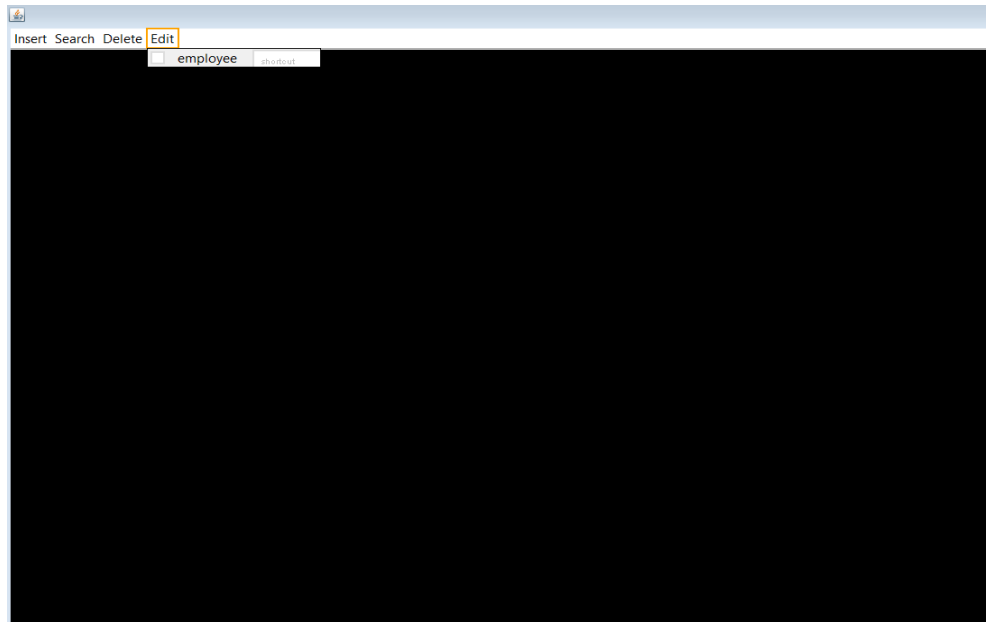


Fig 7.10 selecting update

The screenshot shows the 'UPDATE EMPLOYEE DETAILS' form. The form has a pink background and a white sidebar on the left containing a list of employee names: 'cde'd', 'abc', and 'pinky'. The main form area contains the following fields and controls:

- NAME:-** A text input field containing 'cde'd'.
- BIRTHDAY:-** Three dropdown menus for day, month, and year, with values '05', '07', and '19' respectively.
- ID:-** A text input field containing 'null'.
- ADDRESS:-** A text input field containing 'silk board'.
- SEX:-** A dropdown menu with the value 'M'.
- SALARY:-** A text input field containing '300000'.
- DEPARTMENT ID :-** A dropdown menu with the value '3'.
- POSITIONID:-** A text input field containing '1'.
- QUALIFICATION ID :-** A text input field containing '1'.
- MOBILE:-** A text input field containing '1'.
- HIRE DATE:-** Two dropdown menus for day and month, with values '19' and '07' respectively.
- UPDATE** button: A button located at the bottom center of the form.

A 'Message' dialog box is displayed in the center of the form, containing the text 'employee info successfully updated in database' and an 'OK' button. The dialog box has a blue information icon and a close button (X).

Fig 7.11 updating the employee information

7.5 Search

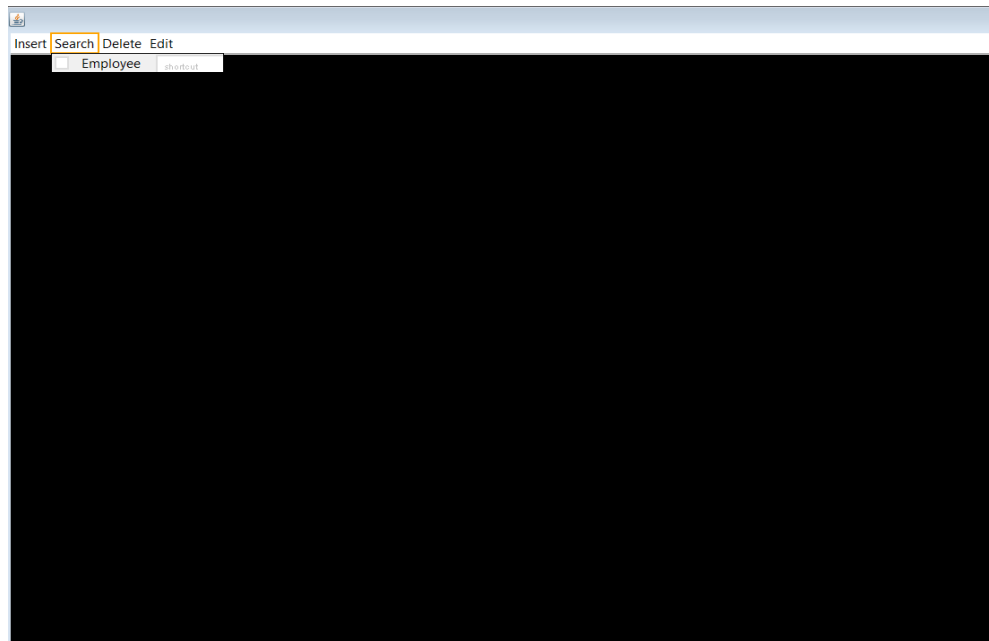


Fig 7.12 selecting search

The screenshot shows the 'SEARCH EMPLOYEE DETAILS' form. The form has a blue background and a pink sidebar on the right. The form contains the following fields and controls:

- enter the employee id:** A text input field containing '9988'.
- SEARCH**: A button to initiate the search.
- SEARCH EMPLOYEE DETAILS**: The title of the search section.
- PLEASE ENTER EMPLOYEE ID TO SEARCH ITS DETAILS**: A message prompt.
- NAME:-** A text input field containing 'abc'.
- SALARY:-** A text input field containing '500000'.
- BIRTHDAY:-** Three dropdown menus for day, month, and year, with values '05', '04', and '19...' respectively.
- DEPARTMENT ID:-** A dropdown menu with the value '3'.
- ID:-** A text input field containing '9988'.
- ADDRESS:-** A text input field containing 'kalayan nagar'.
- SEX:-** A dropdown menu with the value 'M'.
- MOBILE:-** A text input field containing '1'.
- HIRE DATE:-** Three dropdown menus for day, month, and year, with values '...', '...', and '19...' respectively.

A search result is displayed on the left side of the form, showing a list of employee IDs: 'null' and '9988'. A message box titled 'Message' is overlaid on the form, displaying the text 'employee info successfully found in database' and an 'OK' button.

Fig 7.13 reteiving details after search

CHAPTER 8

CONCLUSION AND FUTURE WORK

CHAPTER 8

CONCLUSION AND FUTURE WORK

Conclusion.

The project helps the HR of an organization to keep a track about the employee's information. Most of the requirements have been fulfilled up to the mark. This project ensures that the system is accurate enough to store the data of the organization. The system also helps in the well maintenance of the organization which in turn benefits the organization's reputation. Also the other requirements can be fulfilled with a short extension.

Future work.

The project made here is just to ensure that this product could be valid in today's real challenging world. Here all the facilities are made and tested. Currently the system works for limited number of administrators to work. In the near future it will be extended for many types of insurance policies so that efficiency can be improved.

REFERENCES

- 1 ."The Complete Reference Java" Tata McGraw-Hill publishing Company Limited. By Herbert Schildt .
- 2."Software Engineering, A practitioner's approach" Tata McGraw-Hill Publishing Company Limited .By Roger S. Pressman
- 3."PL/SQL" by Ivan Bayross

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi- 590 018



A

Mini Project Report

On

“Human Resource Database Management System”

Submitted in partial fulfillment for the award of the Bachelor of Engineering degree

In

Computer Science and Engineering

V Semester

15CSL58 – DBMS Laboratory with Mini Project

For the academic year 2018 – 2019

By

Aastha Gupta 1HK16CS003

Fathima Zohra 1hk16CS047

Under the guidance of

Mrs.Amreen Manjula &

Mrs. Manjula H.T

Assistant Professor, Department of Computer Science and Engineering

December 2018



Department of Computer Science & Engineering

HKBK COLLEGE of ENGINEERING

(Approved by AICTE & Affiliated to VTU)

22/1, Nagawara, Arabic College Post, Bangalore-45, Karnataka

Email: info@hkbk.edu.in URL: www.hkbk.edu.in

2018 - 2019



HKBK COLLEGE *of* ENGINEERING

Nagawara, Bangalore -5600 47

Approved by AICTE & Affiliated to VTU

Department of Computer Science and Engineering

Certificate

Certified that the Project Work entitled “**Human Resource Database Management System**”, carried out by **Aastha Gupta (1HK16CS003)** and **Fathima Zohra (1HK16CS047)** bonafide students of **HKBK COLLEGE of ENGINEERING**, in partial fulfillment for the award of **Bachelor of Engineering** in **Computer Science and Engineering** of the **Visvesvaraya Technological University**, Belgavi, during the year 2018–19. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of **15CSL58–DBMS Laboratory with Mini Project** prescribed for the said Degree.

ABSTRACT

The System Human Resource Database Management System creates software that stores and manages all the data needed to describe the personal and their framework within an organization .It includes definition of various levels of hierarchy in an organization, the description of every department functioning in the organization and the overall employ database which integrates elements in all the afore mentioned. It has database administration that has access to the entire database, in regards with viewing and update of information. The exclusive right is implemented using authorized access. Also viewing all data and editing of personal data can be done by HR. The data can be accessed, manipulated and retrieved very easily. The interface has been made very friendly. The data is well protected for use and the data processing i,e result of query functions has been made very quick and efficient.

TABLE OF CONTENTS

Acknowledgment	i
Abstract	ii
CHAPTER 1. INTRODUCTION	
1.1 Introduction	1
1.2 Problem Statement	1
1.3 Proposed solution	1
1.4 Objectives	2
1.5 Outcomes of the Project	2
CHAPTER 2. REQUIREMENT ANALYSIS	
2.1 Initial Investigation	3
2.2 Information Gathering	3
2.3 Feasibility Study	3
2.4 Existing System	4
2.5 Proposed System	4
2.6 Advantages of proposed system	5
CHAPTER 3. SYSTEM REQUIREMENT SPECIFICATION	
3.1 Functional Requirements	6
3.2 Non-Functional Requirements	6
CHAPTER 4. SYSTEM DESIGN	
4.1 System Architecture	7
4.2 ER diagram	8
4.3 Schema diagram	9
4.4 Flow Chart	10
CHAPTER 5. IMPLEMENTATION	
5.1 Tools and Languages Used	13
5.2 Module	

5.2.1 Module 1 - login	13
5.2.2 Module 2 – main menu	15
5.2.3 Module 3 - insert	16
5.2.4 Module 4 – search	
5.2.5 Module 5 – delete	19
5.2.5 Module 6 - update	20

CHAPTER 6. TESTING

6.1 Test case 1: Home Page	21
6.2 Test case 2: Admin login	21
6.4 Test case 4: Admin login	21
6.5 Test case 5: Insert	22
6.6 Test case 6: Insert	22
6.7 Test case 7: Delete	22
6.8 Test case 8: Search	23
6.9 Test case 9: Edit	23

CHAPTER 7. SNAPSHOTS

7.1 Home Page	24
7.2 login	24
7.3 Main menu	25
7.4 Insert	25
7.5 Delete	27
7.6 Update	28
7.7 Search	29

CHAPTER 8. CONCLUSION AND FUTURE WORK

Conclusion and Future Work	30
----------------------------	----

References

CHAPTER 1

INTRODUCTION

CHAPTER 1

INTRODUCTION

1.1 Introduction

The Project has been developed keeping in view to develop a system that deals with the day to day requirement of an organization and also to enable the organization to come out with an easy to handle system of the Human Resource Management.

The Human Resource Database Management software is very friendly and appealing. The main objective of the system is to maintain and retrieve information about the entire personnel framework of the organizational system. This system is fairly simple in design and implementation. The proposed system is to design a hierarchical framework in terms of positions held. Thus depicting the organizational hierarchy. Update of the structure of the same as well as addition of new elements. We can search for all employees, departments, dependent information etc. is possible which can be department wise, level-wise and other parameter based search enabled. There is computerized payroll generation, manipulation and management. It is a easy management of databases of various sections covering key aspects.

1.2 Problem Statement

- Slow process of the organization's human resource. In the past recording keeping was done on paper and with spreadsheets.
- No proper security of the employee's information as well as the organization's information.
- Difficulty in monitoring their daily records.
- Slow retrieval of data.
- Poor data storage.
- Unsecured data.

1.3 Proposed Solution

The proposed system provides detail general information about the employee along with Educational, Certification, Skill and project details.

It enhances the HR management in adding, viewing and updating employees' details and generates various reports regarding employees' skill and experience. Improved manual system is another solution for the improvement of the system. Also it promises very less or no paper work and also provides help administrate and electronically. Information can be retrieved very easily.

1.4 Objectives.

Human Resource Information System is a systematic way of storing data and information for each individual for each individual employee to aid planning, decision making and submitting of returns and reports to the external agencies. It is an online solution for the data entry and tracking of a company's human resources department information, payroll, management and accounting. An effective HRS provides information on just about anything the company needs to track and analyze about employees, former employees and applicants.

Thus in a nutshell, an HRS serves the following functions:

- Storing information and data of each individual employee
- Providing a basis for planning, decision making, controlling and other human resource functions.
- Supplying data and submitting it the organization
- Retrieving data about individual employee.
- Modifying the information related to a particular employee .

1.5 Outcomes of the project.

- Contribute to the development, implementation, and evaluation of employee.
- Develop, implement, and evaluate organizational development strategies aimed at promoting organizational effectiveness.

- Conduct research, produce reports, and recommend changes in human resources practices.
- The organization can keep the track of the number of employees

Easy and effective maintenance job can be done without having any redundancy

CHAPTER 2

REQUIREMENT ANALYSIS

CHAPTER 2

REQUIREMENT ANALYSIS

2.1 Initial Investigation.

The need of a software that can maintain the details of the employees working in an organization and also to protect their information lead to the development of this system. Initially, there was only manual system for storing their information. As this is a tedious process an approach towards the computerized data storage lead to the development of this system.

2.2 Information Gathering.

There are a series of activities regarding to this section such as analyzing, tracking and utilizing data on project. With the help of google as search browser information was gathered. Need for training that is the administrator has to be well trained for the smooth running of the system

2.3 Feasibility study.

Once the problem is clearly understood, the next step is to conduct feasibility study, which is high high-level capsule version of the entered systems and design process. The objective is to determine whether or not the proposed system is feasible.

➤ Technical Feasibility

In technical Feasibility study, one has to test whether the proposed system can be developed using existing technology or not. It is planned to implement the proposed system using java technology. It is evident that the necessary hardware and software are available for development and implementation of the proposed system. Hence, the solution is technically feasible.

➤ **Economic Feasibility**

As part of this, the costs and benefits associated with the proposed system compared and the project is economically feasible only if tangible or intangible benefits outweigh costs. The system development costs will be significant. So the proposed system is economically feasible.

➤ **Operational Feasibility**

It is a standard that ensures interoperability without stifling competition and innovation among users, to the benefit of the public both in terms of cost and service quality. The proposed system is acceptable to users. So the proposed system is operationally feasible.

2.4 Existing system

A few drawbacks of the existing system are:

- Need of extra manual effort
- It used to take much time to find any employee
- Not very much accurate
- Danger of losing the files in some cases

2.5 Proposed System

The proposed system provides detail general information about the employee along with Education, Certification skill and project details. It enhances the HR management in adding, viewing and updating employees' details and generates various reports regarding employee's skill and experience. Suggestions and Grievances posted by the employees are update for taking care of the necessary steps in forwarding company's obligations.

2.6 Advantages of the Proposed System

- Very simple and easy to implement
- Security of data
- Ensure data accuracy
- Administrator discretion and control over the entire system

- Reduces the damages of machine
- Minimizes manual data entry
- Greater efficiency
- User friendly and interactive
- Less time consuming

CHAPTER 3

SYSTEM REQUIREMENTS

CHAPTER 3

SYSTEM REQUIREMENT SPECIFICATION

3.1 Functional Requirements

The Functional Requirements Specification documents the operations and activities that a system is able to perform .It is designed to be read by a general audience. Readers should understand the system, but no particular technical knowledge should be required. The Human Resource Management System provides following functionality for effective usage and maintenance of human resource information.

Administrator:

1. Add:-Adds the details of the Employee to the database.
2. Delete:-Delete the details of the any Employee to the database.
3. Update:-we can update the details of employee. Suppose, in case any employee is being hired for some top position for the company then details of that particular employee needs to be updated or if some employee address is changed recently, it needs to be updated.
4. Search:-The admin can use any SQL commands to retrieve any information concerning the database.

3.2 Non Functional Requirements

3.2.1 Safety Requirements

There are several user levels in Human Resource Management System. Access to the various subsystems will be protected by a user login, which requires a username and password. This gives different views and accessible functions of user levels through the system. Maintaining backups ensure the system database security.

3.2.2 Security Requirements

Admin will be able to login to the Human Resource Management Database System. Admin will have access to the management subsystem as well as the user account but he has the maximum privileges. Anyone who is not registered will not be able to access the database.

CHAPTER 4

SYSTEM DESIGN

CHAPTER 4

SYSTEM DESIGN

4.1 System Architecture

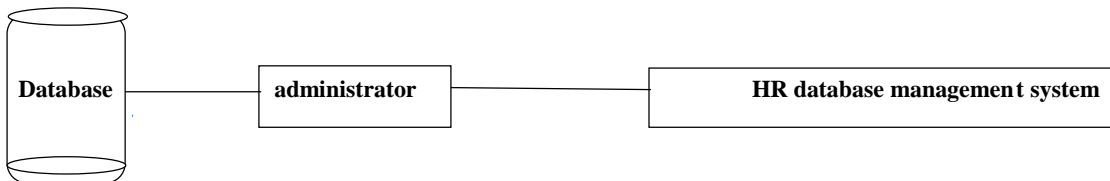


Fig 4.1 System Architecture

4.1.1 Administration module:

This module is protected by the username and password. Ordinary users will not be permitted to enter this area of the software. The administrator can modify the data that has been already entered and also can insert/add new data into the database and can also update and delete the database. The administrator plays an important role in this database system. The administrator has a username and the required password to have access to the main menu of the database.

4.1.2 Database:

Data are known facts that can be recorded and that have implicit meaning. Database management system is a collection of programs that enables users to create and maintain the database. It is a general-purpose software system that facilitates the processes of defining, constructing, manipulating, and sharing database among various users and applications.

4.2: ER-DIAGRAM

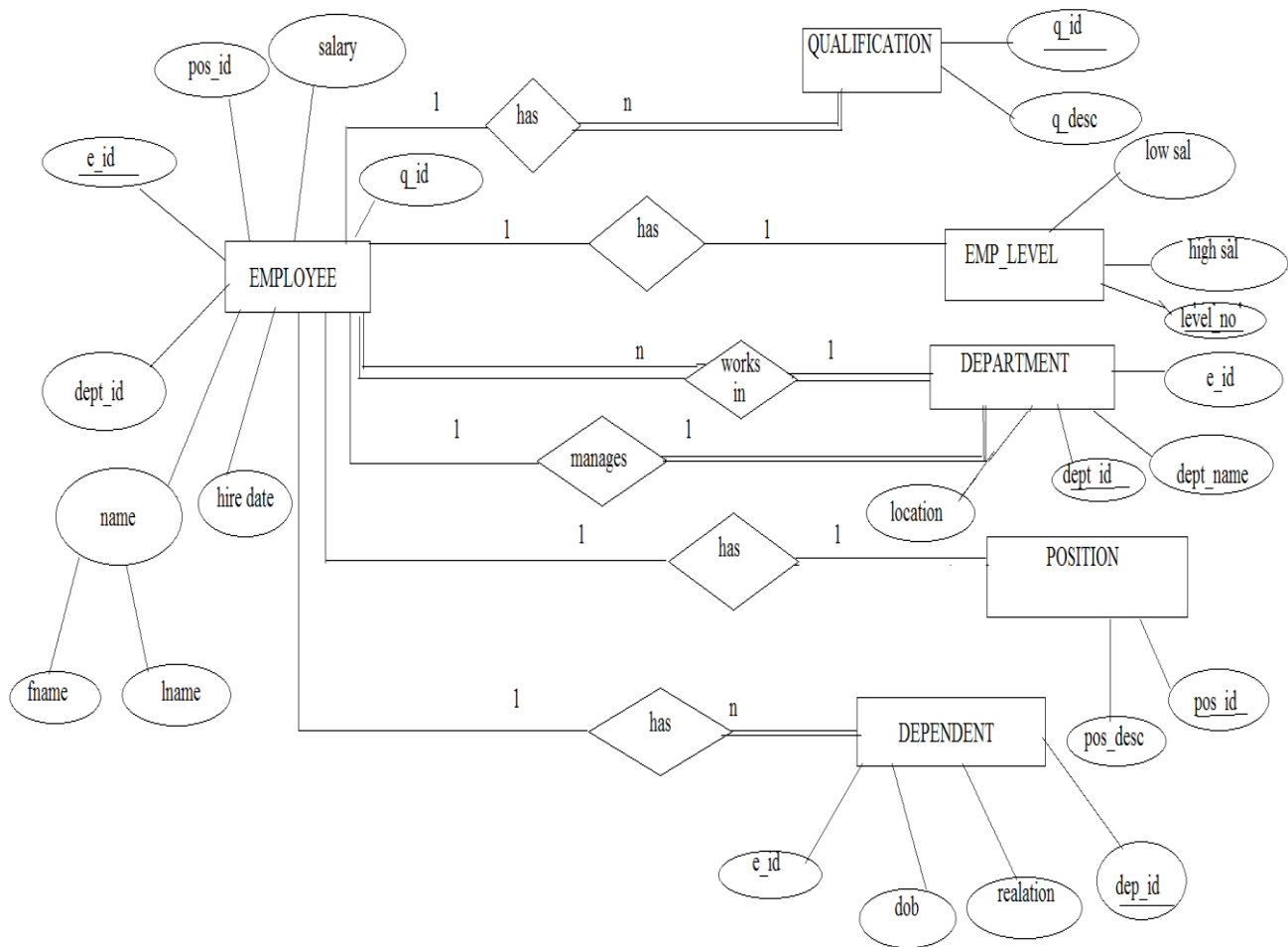


Fig 4.2 ER diagram

4.3 Schema Diagram

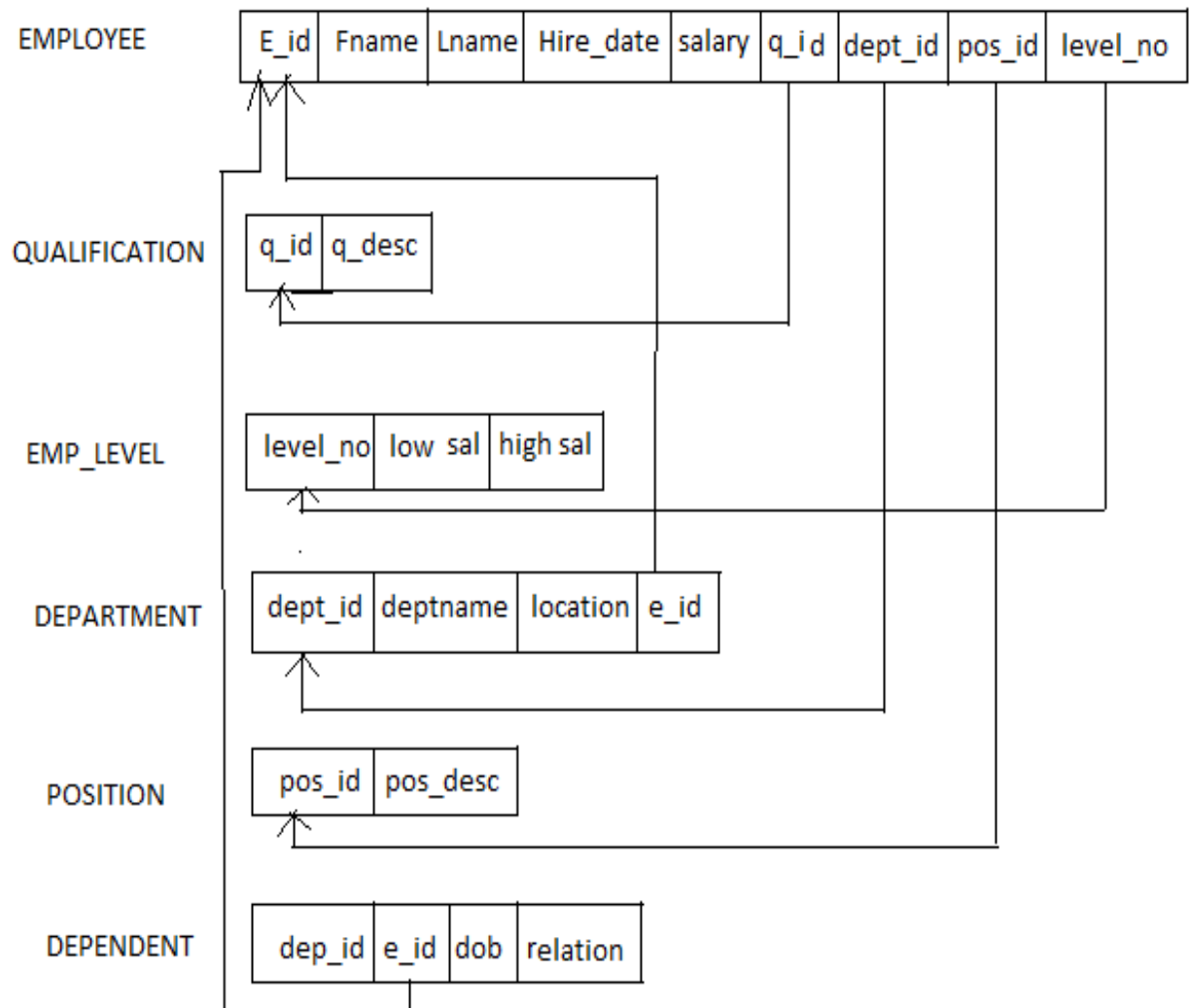


Fig 4.3 Schema Diagram

4.4 Flow charts or DFDs

➤ Login

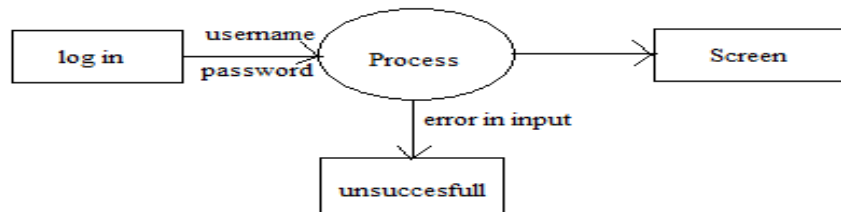


Fig 4.1 login

➤ Main menu

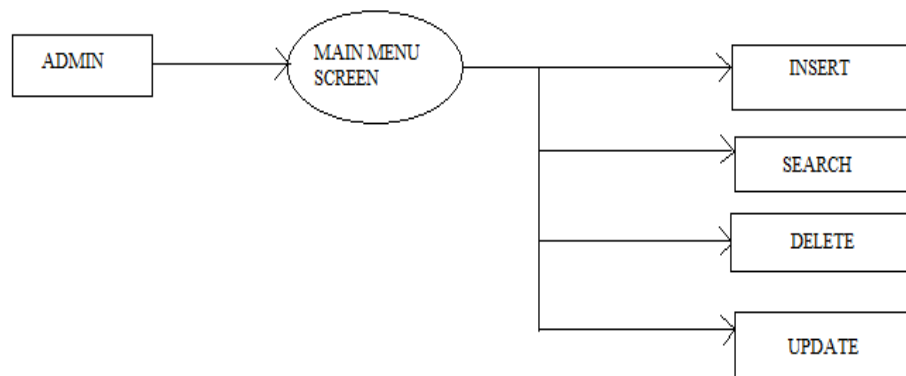


Fig 4.2 main menu

➤ Insert

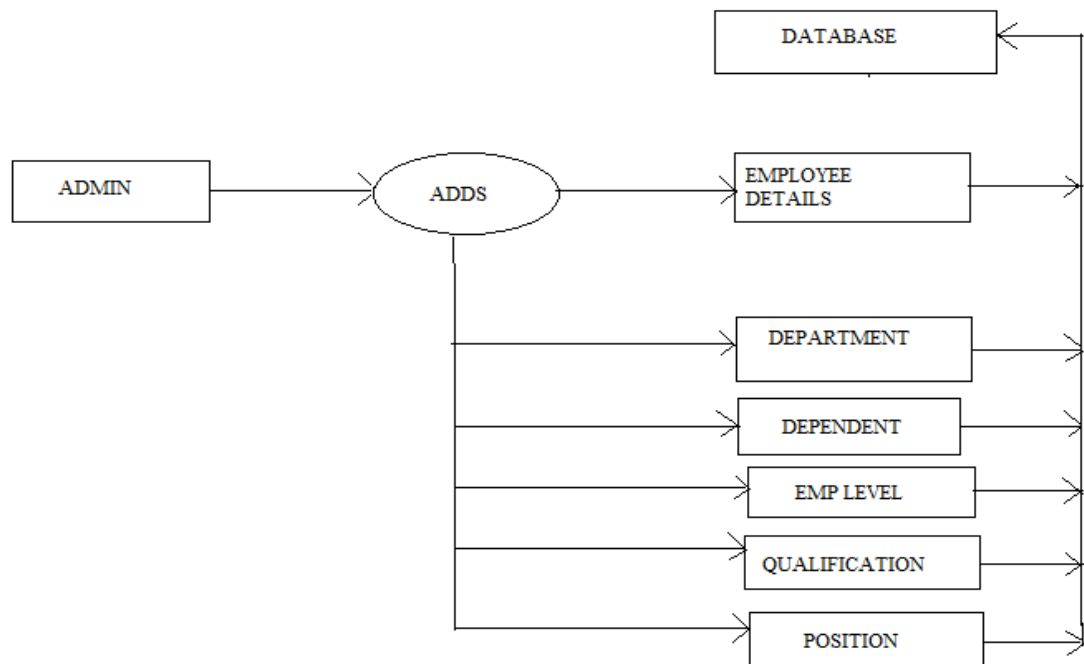


Fig 4.3 insert

➤ Delete

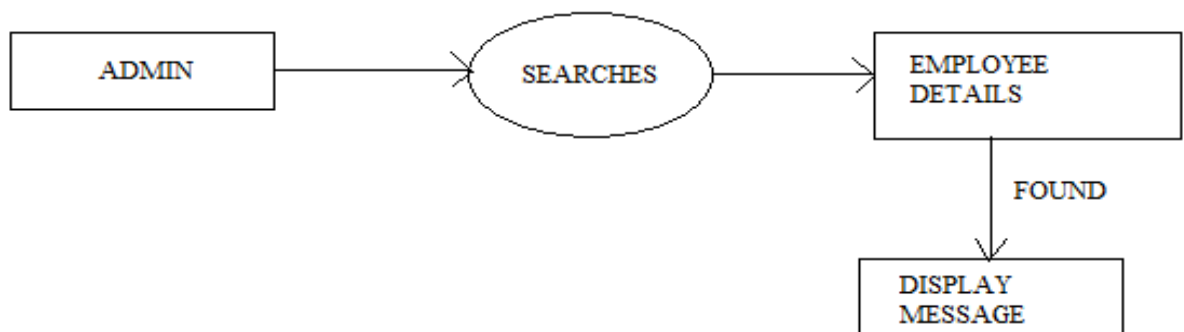


Fig 4.4 search

➤ Delete

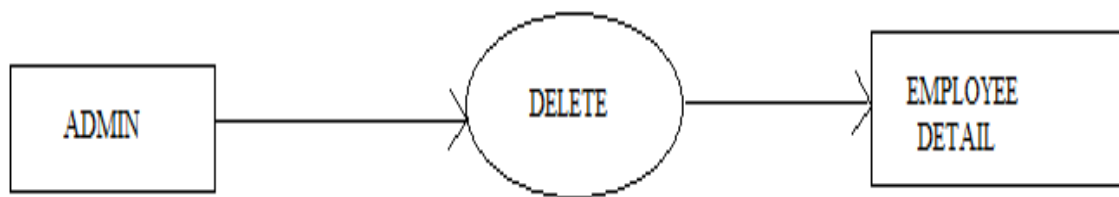


Fig 4.5 delete

➤ Update

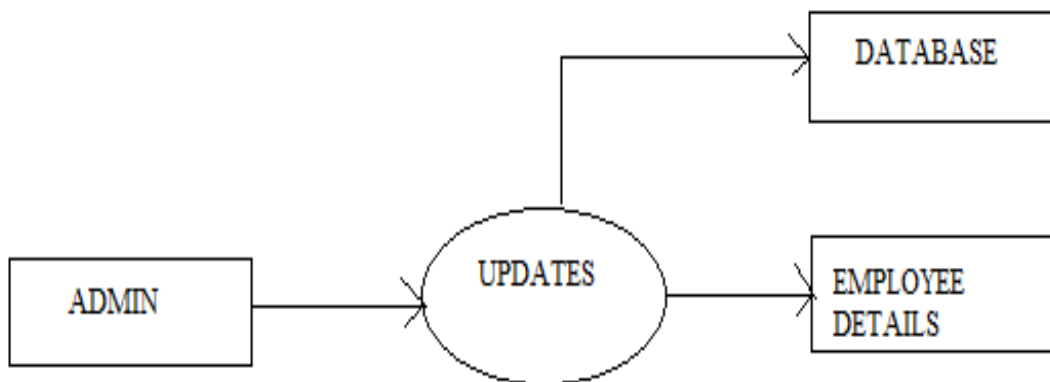


Fig 4.6 update

CHAPTER 5

IMPLEMENTATION

CHAPTER 5

IMPLEMENTATION

5.1 Tools and language used.

The tools used in this project are as follows:

➤ **Hardware Tools**

1. Processor: x86 compatible processor with 1.7 Ghz Clock Speed
2. RAM:-512 MB or greater
3. Hard Disk:-20GB or greater
4. Monitor: VGA/SVGA
5. Keyboard:-104 keys standard
6. Mouse:-2/3 button Optical/Mechanical

➤ **Software Tools**

1. Operating System: Windows 10.
2. Browser (Chrome/Firefox)
3. Front end: Java Net beans
4. Rear end: Oracle or MySQL

The Scripting language used in this project is JAVA

5.2 Modules.

5.2.1 Module 1 – login

This module lets the administrator to log in so that he/she can have an access to the information regarding to the employee. The log in module enables the administrator to get an access to the information of the employee by typing his/her username followed by the correct password for the respective username. Also this module has the stored procedure which is called for different administrators using the callable statement.

package hr;

```
import java.swing.JOptionPane;

import java.sql.CallableStatement;

import java.sql.DriverManager;

import java.util.logging.Logger;

private void jButtonActionPerformed(java.awt.event.ActionEvent evt)

{

    try{

        Connection con=DriverManager.getConnection('jdbc:mysql://localhost/employee','root',' ');

        String query ="{CALL ADMINLOGIN(? ? ?)}";

        CallableStatement cs=con.preparedCall(query);

        cs.setString(1,Username);

        cs.setString(1,password);

        cs.registerOutParameter(3,Types.INTEGER);

        cs.execute( );

        int count =cs.getInt(3);

        if(count==1)

        {

            JOptionPane.showMessageDialog(null,"login successful!!!"+"\\n"+"welcome admin");

            menuif nm=new menuif( );

            this.getParent().add(nm);

            nm.setVisible(true);

        }

        else{
```



```
JOptionPane.showMessageDialog(null,"unsuccessful");

}}
```

5.2.2 Module 2 – main menu

The main menu lets the administrator to select the various operations such as insert, delete, search and update depending upon the operation to be performed. The main menu has the options insert, delete, search and update which lets the administrator to insert the employee, qualification, department, dependent etc , delete the employee, update the employee's information and search any employee that exists in the organization.

```
package hr;
import java.awt.Color;
import java.sql.*;
import javax.swing.*;

public class menuif extends javax.swing.JInternalFrame {
    public menuif() {
        initComponents();
        getContentPane().setBackground(Color.MAGENTA);
    }

    private void jMenuItem1ActionPerformed(java.awt.event.ActionEvent evt) {
        addemployee a=new addemployee();
        dp2.add(a);
        a.setVisible(true);
    }

    private void jMenuItem2ActionPerformed(java.awt.event.ActionEvent evt) {
        deptdb d=new deptdb();
        dp2.add(d);
        d.setVisible(true);
    }

    deleteemp de=new deleteemp();
        dp2.add(de);
        de.setVisible(true);
    }
```

```

    }
    private void jMenuItem13ActionPerformed(java.awt.event.ActionEvent evt) {
        editemp ee=new editemp();
        dp2.add(ee);
        ee.setVisible(true);
    }
    private void jMenuItem7ActionPerformed(java.awt.event.ActionEvent evt) {
        searchemp se=new searchemp();
        dp2.add(se);
        se.setVisible(true); }

```

5.2.3 Module 3 – insert.

This module enables the administrator to insert the details of new employees, qualification department, dependent, employee level and position.

- Insertion of new employee.

```

package hr;
import java.awt.Color;
import java.sql.*;
import javax.swing.*;
public class addemployee extends javax.swing.JInternalFrame {

    public addemployee() {
        initComponents();
        getContentPane().setBackground(Color.ORANGE);
    }
    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

```

```

try{
    stmt.execute("INSERT                                INTO                                addemployee
(NAME,BIRTHDAY,BIRTHMONTH,BIRTHYEAR,ID,ADDRESS,SEX,SALARY,DEPART
MENTID,POSITIONID,QUALIFICATIONID,MOBILE,HIREDAY,HIREMONTH,HIREYEA
R)VALUES('"+NameText.getText()+"','"+ BirthDay.getSelectedItem()+"','"+
                                +                                BirthMonth.getSelectedItem()+"','"+
BirthYear.getSelectedItem()+"','"+                                id.getText()+"','"+                                address.getText()+"','"+
sex.getSelectedItem()+"','"+
    + salary.getText()+"','"+ department.getSelectedItem()+"','"+ pos.getSelectedItem()+"','"+
qualification.getSelectedItem()+"','"+ mobile.getText()+"','"+ HireDay.getSelectedItem()+"','"+
HireMonth.getSelectedItem()+"','"+ HireYear.getSelectedItem()+"");

    catch(SQLException ex)
    {
        JOptionPane.showMessageDialog(null,ex.toString());
    }
}

```

➤ Insertion of department.

```

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    try{
        stmt.execute("INSERT                                INTO
deptdb(DEPARTMENTID,DEPARTMENTNAME,LOCATION,MANAGEMENTID)VALUES
('"+DepartmentId.getText()+"','"+ DeptName.getText().toString()+"','"+
                                + location.getText().toString()+"','"+ managementid.getText()+"");
        JOptionPane.showMessageDialog(null,"Employee addedto database"); }

```

➤ Insertion of dependent.

```

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    try{

```

```

        stmt.execute("INSERT INTO
depdb(EMPLOYEEID,DEPENDENTID,DEPENDENTDOB,RELATION)VALUES('"+empid.g
etText()+"','"+ denid.getText()+"','"+
        + dendob.getText()+"','"+rel.getText()+"");
JOptionPane.showMessageDialog(null,"Employee addedto database");

```

➤ Insertion of employee level

```

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

    try{
        stmt.execute("INSERT INTO empldb
(LEVELNO,LOWSALARY,HIGHSALARY)VALUES('"+levelno.getText()+"','"+
lowsal.getText()+"','"+
        + highsals.getText()+"");
JOptionPane.showMessageDialog(null,"Employee addedto database");

    }

```

➤ Insertion of qualification

```

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

    try{
        stmt.execute("INSERT INTO
qualdb(QUALIFICATIONID,QUALIFICATIONDESCRIPTION)VALUES('"+qualid.getText()
+"','"+ Desc.getText()+"");
JOptionPane.showMessageDialog(null,"Employee addedto database");

```

➤ Insertion of position

```

private void addbtnActionPerformed(java.awt.event.ActionEvent evt) {

    try{
        stmt.execute("INSERT INTO posdb
(POSITIONID,POSITIONDESCRIPTION)VALUES('"+posid.getText()+"','"+
posd.getText()+"");
JOptionPane.showMessageDialog(null,"Employee addedto database");

```

```
}
```

5.2.4 Module 4 – Search

The administrator or the HR can easily search any employee of the organization. This module allows the HR to search the information of any employee easily without any complications. If the employee's information exists in the database then a message that the record is found will be displayed

```
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    int result= List1.getNextMatch(SearchText.getText(),0, Position.Bias.Forward);
    List1.setSelectedIndex(result);
}
```

5.2.4 Module 5 – delete

This module allows the administrator to delete the records of an employee who has left the organization due to relevant reasons or has been removed by the organization. In this the HR can keep the track of all the employees that are currently present in the organization without having any problems. By just entering the employee id the entire information related to that employee will be deleted from the database.

```
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    try{
        String Query="delete from addemployee where '"+eid.getText()+"'=id";
        stmt.execute(Query);
        JOptionPane.showMessageDialog(null,"Employee is deleted from database");
    }
}
```

5.2.5 Module 6 – Update.

This module allows the Administrator to update the information of the existing employees. The administrator can simply edit the information regarding to that particular employee. After editing the information the changes made will be displayed at the left side of the frame. Thus eases the job of the administrator in updating.

```
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {  
    try{  
        String Query="delete from addemployee where '"+eid.getText()+"=id";  
  
        int result= List1.getNextMatch(UpdateText.getText(),0, Position.Bias.Forward);  
        List1.setSelectedIndex(result);  
    }  
}
```

CHAPTER 6

TESTING

CHAPTER 6

TESTING

6.1 TEST CASE – 1: HOME PAGE

Test Description	What action take place when clicking on the login tab.
Sample Input	Click on login tab.
Expected Output	Redirect to login page.
Actual Output	Redirect to login page.
Remark	Pass

6.2 TEST CASE – 2: ADMIN LOGIN

Test Description	What action take place when clicking on SUBMIT button with valid username (which is stored) and password.
Sample Input	Click on SUBMIT button with valid username and password.
Expected Output	Redirect to main menu.
Actual Output	Redirect to main menu.
Remark	Pass

6.3 TEST CASE – 3: ADMIN LOGIN

Test Description	What action take place when clicking on SUBMIT button with username (which is not stored) and password.
Sample Input	Click on SUBMIT button with username and password.
Expected Output	Redirect to home page.
Actual Output	Error message displaying as unsuccessful
Remark	Pass

6.4 TEST CASE – 4: INSERT

Test Description	What action take place when clicking on insert in main menu page.
Sample Input	Click on insert.
Expected Output	Clicking on insert will display the list of insert options.
Actual Output	Clicking on insert will display the list of insert options.
Remark	Pass

6.5 TEST CASE – 5: INSERT

Test Description	What action takes place when on any of the option from the insert list is clicked
Sample Input	Click on any of the option.
Expected Output	Clicking on any of the option will redirect to that respective option page.
Actual Output	Clicking on any of the option will redirect to that respective option page.
Remark	Pass.

6.6 TEST CASE – 6: DELETE

Test Description	What action take place when clicking on the employee tab under delete.
Sample Input	Click on employee tab.
Expected Output	Clicking on employee will redirect to the delete page.
Actual Output	Clicking on employee will redirect to the delete page.
Remark	Pass.

6.7 TEST CASE – 7: SEARCH

Test Description	What action take place when we click on the search button.
Sample Input	Click on search button.
Expected Output	Clicking on search button will redirect to search page where we can search for employee.
Actual Output	Clicking on search button will redirect to search page where we can search for employee.
Remark	Pass.

6.8 TEST CASE – 8: EDIT

Test Description	What action take place when we click on the edit button.
Sample Input	Click on edit button
Expected Output	Clicking on the edit button will redirect to edit page where we can edit the information of the employee
Actual Output	Clicking on the edit button will redirect to edit page where we can edit the information of the employee.
Remark	Pass.

CHAPTER 7

SNAPSHOTS

CHAPTER 7

SNAPSHOTS

7.1 Home Page.



Fig 7.1 main frame

7.1 Login.

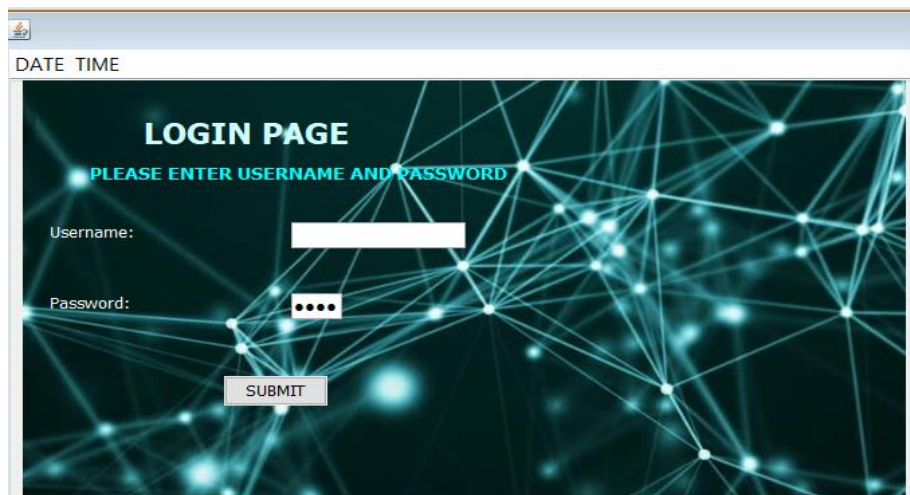


Fig 7.2 login page

7.1 Mainmenu

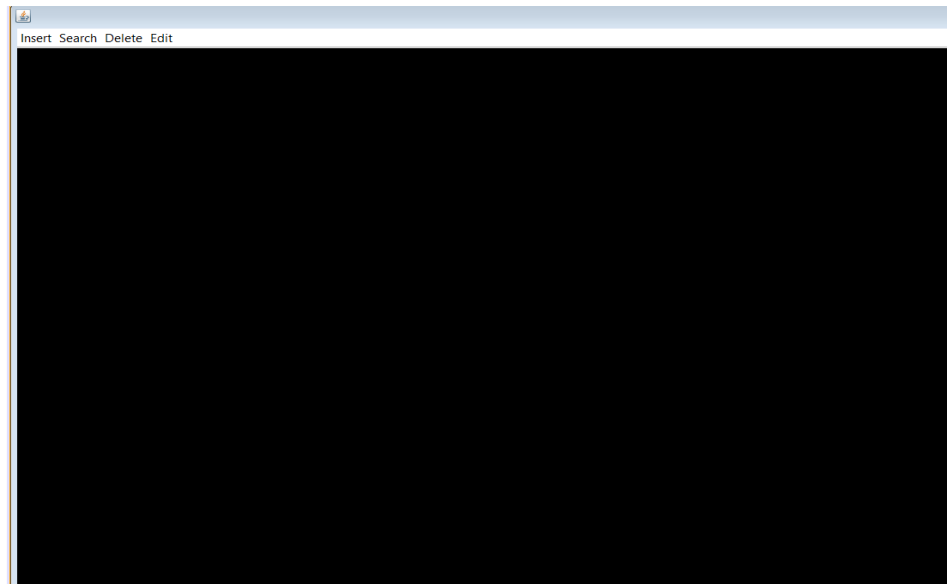


Fig 7.3 main menu

7.1 Insert

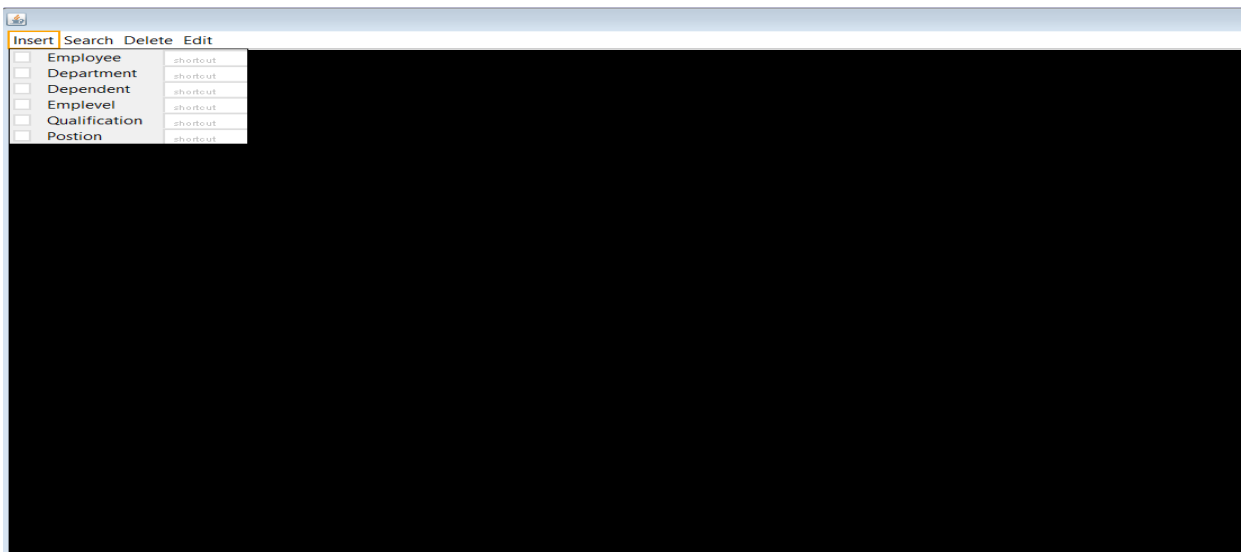


Fig 7.4 selecting insert

7.1.Insertion of employee details

The screenshot shows a web application window titled 'login' with a menu bar containing 'Insert', 'Search', 'Delete', and 'Edit'. The main content area is yellow and titled 'DETAILS OF EMPLOYEE' with the instruction 'PLEASE INSERT DETAILS OF EMPLOYEE BELOW'. The form contains the following fields and values:

- NAME:- pinky
- BIRTHDAY:- 05 / 05 / 19...
- ID:- 3456
- ADDRESS:- hcl
- SEX:- ...
- SALARY:- 120000
- DEPARTMENT ID :- 3
- POSITIONID:- ...
- QUALIFICATION ID :- ...
- MOBILE:- 55667788
- HIRE DATE:- ... / ... / 1999

An 'ADD EMPLOYEE' button is at the bottom. A message box on the right says 'Message' with an information icon and the text 'Employee added to database', with an 'OK' button.

Fig 7.6 inserting employee details

7.1.Insertion of department

The screenshot shows a web application window titled 'login' with a menu bar containing 'Insert', 'Search', 'Delete', and 'Edit'. The main content area is yellow and titled 'DEPARTMENT FOR WHICH EMPLOYEE WORKS'. The form contains the following fields and values:

- DEPARTMENT ID:- 1234
- DEPARTMENT NAME:- cse
- LOCATION:- kalyan nagar
- MANAGEMENT ID:- 4567

'INSERT' and 'CANCEL' buttons are at the bottom. A message box on the right says 'Message' with an information icon and the text 'Employee added to database', with an 'OK' button.

Fig 7.7 inserting department

7.2 Delete

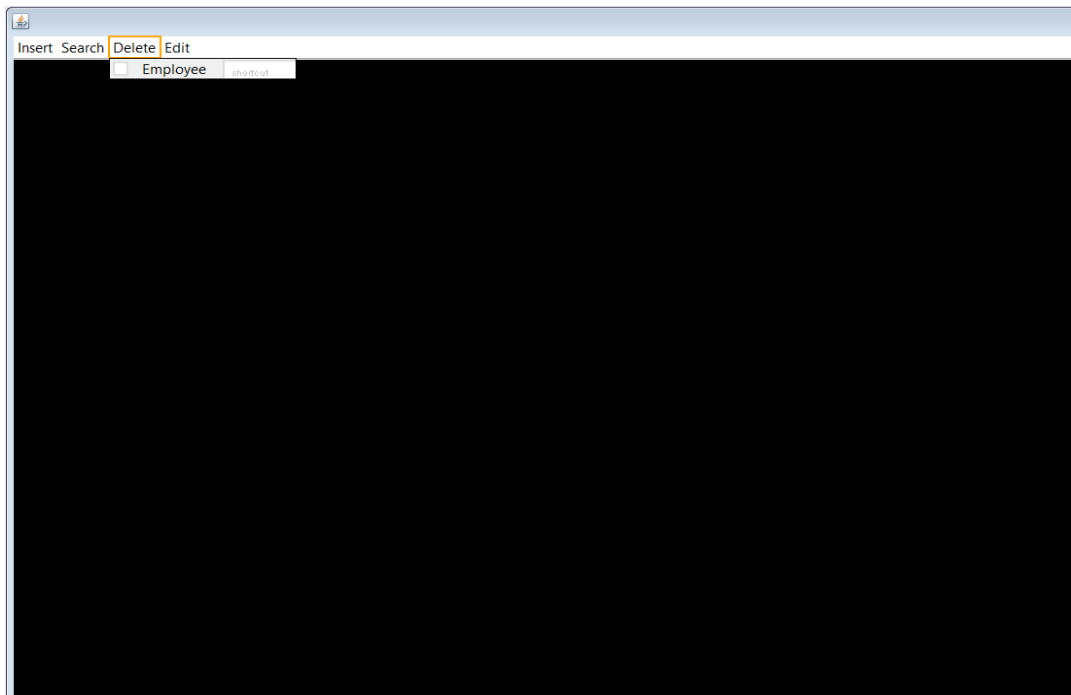


Fig 7.8 selecting delete

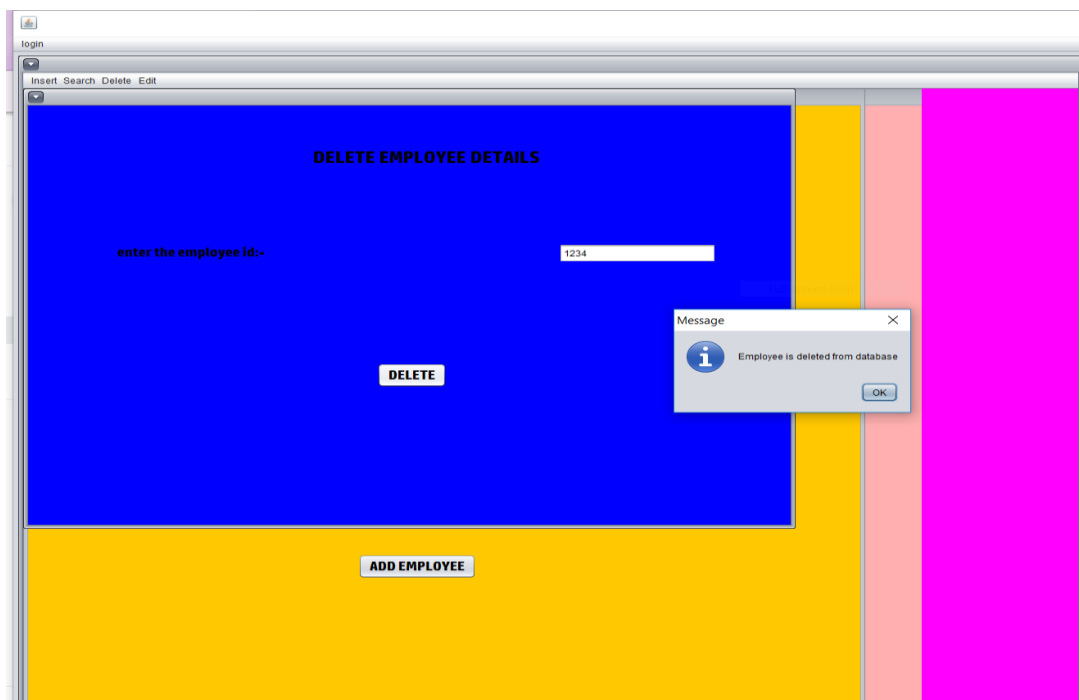


Fig 7.9 deleting of employee details

7.4 Update

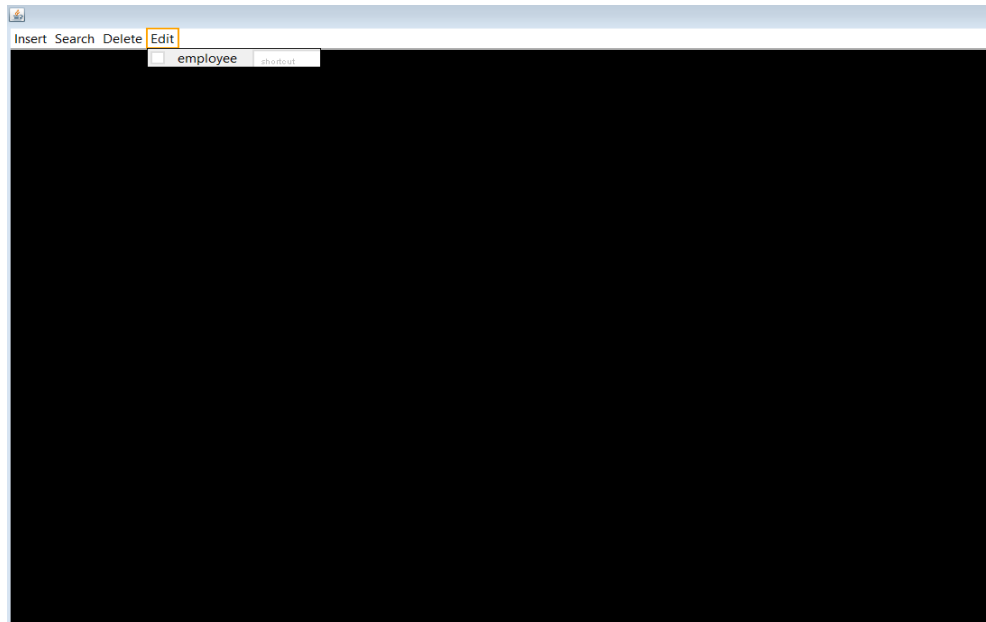


Fig 7.10 selecting update

The screenshot shows the 'UPDATE EMPLOYEE DETAILS' form. The form has a pink background and a white sidebar on the left containing a list of employee names: 'cde'd', 'abc', and 'pinky'. The main form area contains the following fields and controls:

- NAME:-** A text input field containing 'cde'd'.
- BIRTHDAY:-** Three dropdown menus for day, month, and year, with values '05', '07', and '19...' respectively.
- ID:-** A text input field containing 'null'.
- ADDRESS:-** A text input field containing 'silk board'.
- SEX:-** A dropdown menu with the value 'M'.
- SALARY:-** A text input field containing '300000'.
- DEPARTMENT ID :-** A dropdown menu with the value '3'.
- POSITIONID:-** A text input field containing '1'.
- QUALIFICATION ID :-** A text input field containing '1'.
- MOBILE:-** A text input field containing '1'.
- HIRE DATE:-** Two dropdown menus for day and month, with values '19' and '...' respectively.
- UPDATE** button.

A success message dialog box is displayed in the center of the form, with the text: 'employee info successfully updated in database'. The dialog box has an 'OK' button.

Fig 7.11 updating the employee information

7.5 Search

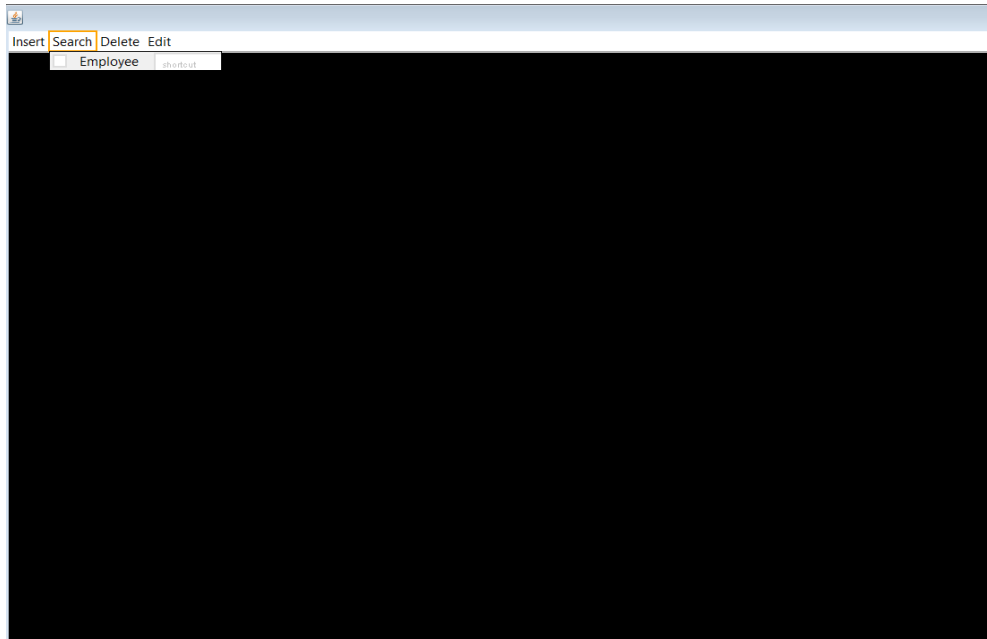


Fig 7.12 selecting search

The screenshot shows the 'SEARCH EMPLOYEE DETAILS' form. The form has a blue background and a pink sidebar on the right. The form contains the following fields and controls:

- enter the employee id:** A text input field with the value '9988'.
- SEARCH**: A button to initiate the search.
- NAME:-** A text input field with the value 'abc'.
- BIRTHDAY:-** Three dropdown menus for day, month, and year, with values '05', '04', and '19...' respectively.
- ID:-** A text input field with the value '9988'.
- ADDRESS:-** A text input field with the value 'kalayan nagar'.
- SEX:-** A dropdown menu with the value 'M'.
- SALARY:-** A text input field with the value '500000'.
- DEPARTMENT ID:-** A dropdown menu with the value '3'.
- MOBILE:-** A text input field with the value '1'.
- HIRE DATE:-** Three dropdown menus for day, month, and year, with values '...', '...', and '19...' respectively.

A message dialog box is displayed in the center of the form, titled 'Message', with an information icon and the text 'employee info successfully found in database'. The dialog box has an 'OK' button.

Fig 7.13 reteiving details after search

CHAPTER 8

CONCLUSION AND FUTURE WORK

CHAPTER 8

CONCLUSION AND FUTURE WORK

Conclusion.

The project helps the HR of an organization to keep a track about the employee's information. Most of the requirements have been fulfilled up to the mark. This project ensures that the system is accurate enough to store the data of the organization. The system also helps in the well maintenance of the organization which in turn benefits the organization's reputation. Also, the other requirements can be fulfilled with a short extension.

Future work.

The project made here is just to ensure that this product could be valid in today's real challenging world. Here all the facilities are made and tested. Currently, the system works for a limited number of administrators to work. In the near future, it will be extended for many types of insurance policies so that efficiency can be improved.

REFERENCES

- 1 ."The Complete Reference Java" Tata McGraw-Hill publishing Company Limited. By Herbert Schildt .
- 2."Software Engineering, A practitioner's approach" Tata McGraw-Hill Publishing Company Limited .By Roger S. Pressman
- 3."PL/SQL" by Ivan Bayross

