



**JAYPEE INSTITUTE OF
INFORMATION TECHNOLOGY
Sector-128**

**PROJECT REPORT ON
“EMPLOYEE MANAGEMENT SYSTEM”**

(PHASE-1)

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INDEX

S.No	Topic	Page No
1.	Abstract	1
2.	Introduction	2-4
3.	List of C constructs used	5-7
4.	Output of Program	8-16
5.	Conclusion	17

ABSTRACT

This project is aimed at building an “Employee management system” which is an application based system, this application is usually for the employers to do basic commands that basically gives them ease from the pen and paper work system that is traditionally followed for so many years.

Every organization whether government or private uses an information system to store data of their staff. However in India it is found that many small scale industries use pen and paper to keep a record. However there are many advanced technology systems available that can do this work but they cost a lot more than usual that it couldn't suit low level industries.

This report discusses making a system for solving problems for them at a cheaper cost. This system will take input of data of each employee and their salary at the time of joining the organization.

However power can be given to the employer to take charge of its organization by automating the whole process. It saves lots of time and has no error in record maintaining and data collection, hence preventing a clash between HR Team and employees. So that both employer and employee can focus on their work to develop their company.

EMPLOYEE MANAGEMENT SYSTEM

INTRODUCTION

An employee management system is intended to organize HR and other departments' work processes. It usually includes such features as organized employee databases, work time tracking , custom access levels and reporting.

It is important to find an employee management system that would meet the needs of your business. In any case, it should provide basic HR functions. The main benefit of this system is that it helps reduce the workload on HR departments and focus on other essential work. Automating recurring and administrative tasks spares much time that can be invested in growing your business.

The amount of time spent on accomplishing tasks might significantly differ among employees. So using an employee management system solution allows you to gain clarity on how to better organize their work processes.

Having an efficient employee management system at your disposal allows you to keep employee and customer databases and project data in a single source. A reliable program should also provide data security.

When you are working with lots of files, there is a chance that some documents will get lost. Using an effective employee management system lets you keep track of all your files in a centralized location. It significantly reduces the risk of data loss.

Employee management system is an application which is used to maintain the record of employees working in an organization.

It is used as an alternative to the manual employee management system.

It helps in maintaining and storing personal information regarding the employees of an organization.

Objective:

1. To simplify the task of maintaining huge chunks of records
2. To develop a database to store employees information.
3. To provide functional report to management of company.

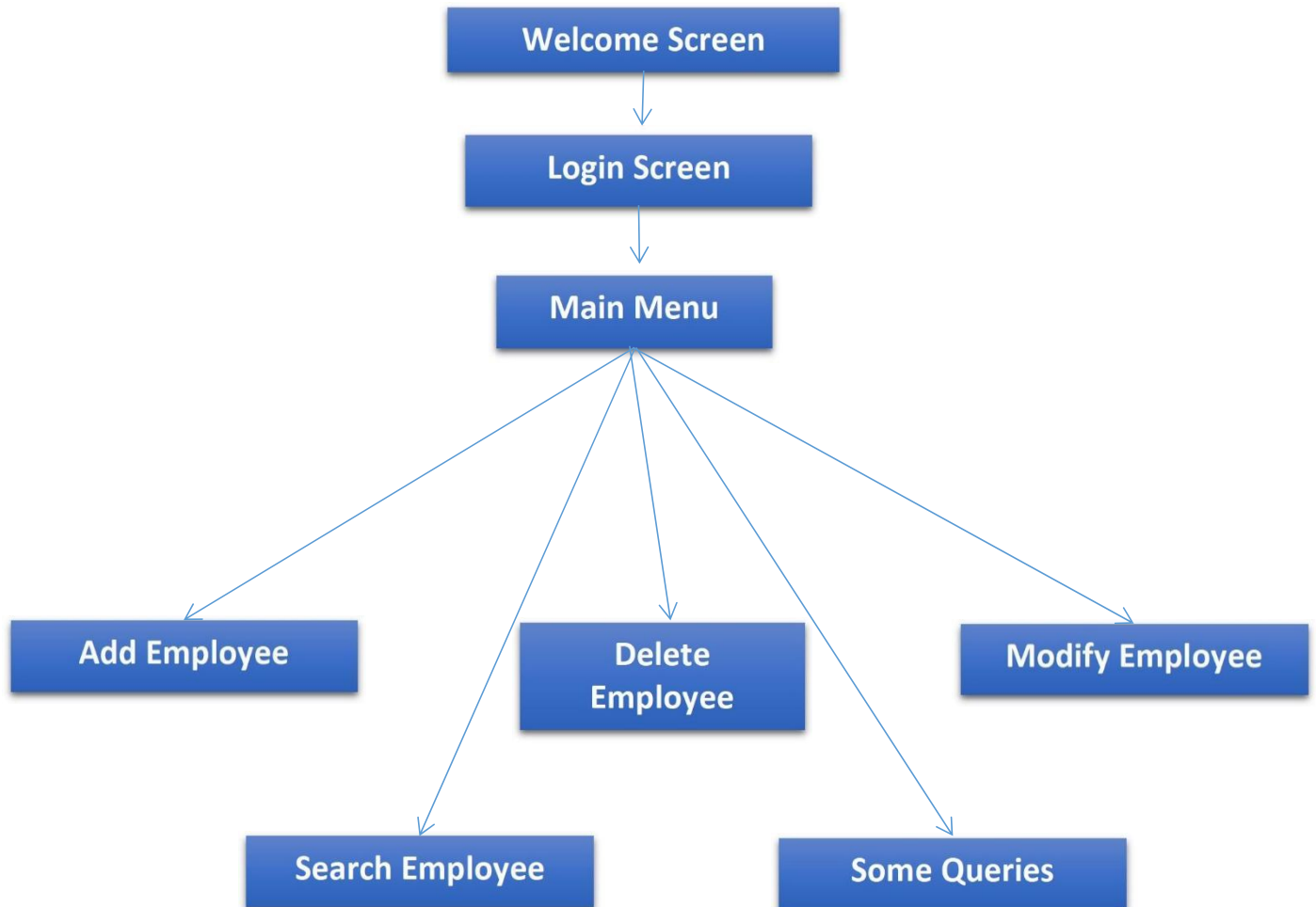
Features:

- Login Screen
- Password
- Easily add , delete,modify records
- File creation

Topics of SDF used:

1. Header Files
2. Data Types
3. Format Specifiers
4. If-else statements
5. Do While loop/For loop/while loop
6. Switch case
7. Functions
8. Get function
9. File Handling

FLOWCHART



C -CONSTRUCTS USED

<stdio.h>

The keyword stdio.h in C is a header file. The reason why we use stdio.h in C is that this header file imports different variables , macros and functions to perform input and output operations.To perform input and output operations in our C program, we need to import the stdio.h header file inn our program.

<string.h>

This header file basically imports all the string functions required to be performed inside the program , it also gives option to read and write strings in files.

<stdlib.h>

This header file consists of all the header information for memory allocation/Freeing functions.

<math.h>

This header file consists of all the math functions and libraries.

<conio.h>

This header file is for console input and output.It has many inbuilt functions which are used to perform many input and output operation.

Structures

Structures (also called structs) are a way to group several related variables into one place. Each variable in the structure is known as a **member** of the structure.Unlike an array, a structure can contain many different data types (int, float, char, etc.).

File Handling

File Handling in c refers to the method of storing data in the C program in the form of an output or input that might have been generated while running a c program in a data file, binary file or a text file for future analysis and reference in that very program.

fopen()

Used to open an existing file or a new file.

fprintf()

Writing data into an available file

fscanf()

Reading the data available in file.

fputc()

Writing any character into the program file.

fgetc()

Reading character from an available file.

fclose()

Used to close the program file.

fseek()

Used to set the file pointer to the intended file position.

fputw()

Writing an integer into an available file.

fgetw()

Used to read an integer from the given file.

ftell()

Used for reading the current position of a file.

rewind()

Sets an intended file pointer to the files beginning itself.

If-else statements

for , while loop

Switch(expression) / case

The switch case basically allows us to execute one code block among many alternatives.

fflush(stdin)

Typically used for output stream only. Its purpose is to clear or flush the output buffer and move the buffered data to console or disk.

system(pause)

Tells the OS to run the pause program. This program waits to be terminated and halts the execution of the parent c program.

system(cls)

Function to clear the console screen.

rewind(FILE *stream)

Sets the file position to the beginning of the file of the given stream.

sizeof()

It is a compile time unary operator which can be used to compute the size of of its operand. The result of sizeof is of unsigned integral type.

Jump statements

Break , continue , jump

getch()

The function does not take any parameters. Here getch() return the ASCII value of the character read from stdin. For example if we give the character '0' as input , it will return the ASCII value of '0' which is 48.

Pointers

A pointer is nothing but a variable that stores the address of another variable on a memory location and gives the desired output when we call it by referencing to the address which it stores. The size of the pointer depends on the architecture

Functions

OUTPUT OF PROGRAM

Welcome Screen

```
=====
===== [EMPLOYEE] [MANAGEMENT] [SYSTEM] =====
=====
```

Login Screen
Enter Your Credentials

Username: admin

Password: ****

Main Menu

```
=====
===== [EMPLOYEE] [MANAGEMENT] [SYSTEM] =====
=====
```

Main Menu

1. Add Employee
2. Delete Employee
3. Modify Employee Details
4. Display Employee List
5. Search Record
6. Display Basic Information
7. Display Basic Contact Information
8. List of Male Employee
9. List of Female Employee
10. Employee list (Except from Delhi)
11. Employee list of Main Branch
12. Employee list of Other Branch
0. EXIT

Enter your choice in number format:-->

Add Employee

```
=====
===== [EMPLOYEE] [MANAGEMENT] [SYSTEM] =====
=====
```

Add Employee

ID number: 1003

Name of Employee: Ansh Bansal

Designation: Employee

Gender: Male

Branch: CSC

Salary: 40000

Present Address: Delhi

Permanant Address: Delhi

Phone: 9999147689

E-mail: ansh@gmail.com

Want to enter another employee information (Y/N)

☐

Delete Employee

```
=====
===== [EMPLOYEE] [MANAGEMENT] [SYSTEM] =====
=====
```

Delete Employee

Enter ID of employee to delete the record

ID No : 1003

Record deleted for

Ansh Bansal

CSC

1003

Press any key to continue . . . ☐

Modify Employee Details

```
===== [EMPLOYEE] [MANAGEMENT] [SYSTEM] =====  
=====  
                Modify Employee Details
```

Enter ID of Employee to modify the record : 1005

Record Found

Enter new data for the record

Enter ID : 1005

Enter Full Name of employee: Adarsh

Enter Designation: Finance Manager

Enter Gender: Female

Enter Branch: csc

Enter Salary: 50000

Enter Present Address: Noida

Enter Permanant Address: Gurugram

Phone number: 7654345723

Data modified

```
=====
```

ID :	1005
NAME :	Adarsh
DESIGNATION :	Finance Manager
GENDER :	Female
BRANCH :	csc
SALARY :	50000.00
PRESENT ADDRESS :	Noida
PERMANANT ADDRESS :	Gurugram
PHONE :	7654345723
E-MAIL :	adrash@gmail.com

```
=====
```

List of employees

=====

===== [EMPLOYEE] [MANAGEMENT] [SYSTEM] =====

=====

List of employees

ID : 1001

NAME : Rahul Yadav

DESIGNATION : Manager

GENDER : Male

BRANCH : CSC

SALARY : 20000.00

PRESENT ADDRESS : Noida

PERMANANT ADDRESS : Varanasi

PHONE : 928282822

E-MAIL : rahul123@gmail.com

=====

ID : 1002

NAME : Anand Panda

DESIGNATION : Head

GENDER : Male

=====

ID : 1002

NAME : Anand Panda

DESIGNATION : Head

GENDER : Male

BRANCH : CSC

SALARY : 30000.00

PRESENT ADDRESS : Delhi

PERMANANT ADDRESS : Delhi

PHONE : 9898982724

E-MAIL : anand@gmail.com

=====

ID : 1004

NAME : Adarsh Sharma

DESIGNATION : Sr.Manager

GENDER : Male

BRANCH : Finance

Search Employee

```
=====
===== [EMPLOYEE] [MANAGEMENT] [SYSTEM] =====
=====
Search Employee
```

Enter ID of employee to search the record : 1006

NAME : Monika

ID : 1006

DESIGNATION : Employee

BRANCH : Administration

SALARY: 23000.00

PRESENT ADDRESS : Noida

PERMANANT ADDRESS : Delhi

PHONE : 9812345674

E-MAIL : monika@gmail.com

```
=====
```

Want to enter another search (Y/N) ☐

Display Basic Information

```
=====
===== [EMPLOYEE] [MANAGEMENT] [SYSTEM] =====
=====
Display Basic Information
```

ID : 1001

NAME : Rahul Yadav

DESIGNATION : Manager

GENDER : Male

BRANCH : CSC

PHONE : 928282822

E-MAIL : rahul123@gmail.com

```
=====
```

ID : 1002

NAME : Anand Panda

DESIGNATION : Head

GENDER : Male

BRANCH : CSC

PHONE : 9898982724

E-MAIL : anand@gmail.com

Basic Contact Information

=====[EMPLOYEE] [MANAGEMENT] [SYSTEM]=====
=====

Basic Contact Information

ID : 1001
NAME : Rahul Yadav
DESIGNATION : Manager
PHONE : 928282822
E-MAIL : rahul123@gmail.com

=====

ID : 1002
NAME : Anand Panda
DESIGNATION : Head
PHONE : 9898982724
E-MAIL : anand@gmail.com

=====

ID : 1004
NAME : Adarsh Sharma
DESIGNATION : Sr.Manager

List of Male Employees

=====[EMPLOYEE] [MANAGEMENT] [SYSTEM]=====
=====

List of Male Employee

ID : 1001
NAME : Rahul Yadav
DESIGNATION : Manager
PHONE : 928282822

ID : 1002
NAME : Anand Panda
DESIGNATION : Head
PHONE : 9898982724

ID : 1004
NAME : Adarsh Sharma
DESIGNATION : Sr.Manager
PHONE : 8756453443

List of Female Employees

```
=====
===== [EMPLOYEE] [MANAGEMENT] [SYSTEM] =====
=====
```

List of Female Employee

ID : 1005

NAME : Adarsh

DESIGNATION : Finance Manager

PHONE : 7654345723

ID : 1006

NAME : Monika

DESIGNATION : Employee

PHONE : 9812345674

List of Employee except from Delhi

```
=====
===== [EMPLOYEE] [MANAGEMENT] [SYSTEM] =====
=====
```

List of Employee (Except from Delhi)

ID : 1001

NAME : Rahul Yadav

DESIGNATION : Manager

PHONE : 928282822

E-MAIL : rahul123@gmail.com

=====
ID : 1004

NAME : Adarsh Sharma

DESIGNATION : Sr.Manager

PHONE : 8756453443

E-MAIL : adarsh@gmail.com

=====
ID : 1005

NAME : Adarsh

DESIGNATION : Finance Manager

PHONE : 7654345723

E-MAIL : adrash@gmail.com

List of Employee of Main Branch

```
=====
===== [EMPLOYEE] [MANAGEMENT] [SYSTEM] =====
=====
```

List of Employee of Main Branch

ID : 1007

NAME : Singham

DESIGNATION : Testing Agent

PHONE : 7856435212

E-MAIL : singham@gmail.com

```
=====
```

Press any key to continue . . . ☐

List of Employee of other branch

```
===== [EMPLOYEE] [MANAGEMENT] [SYSTEM] =====
=====
```

List of Employee of Other Branch

ID : 1001

NAME : Rahul Yadav

DESIGNATION : Manager

PHONE : 928282822

E-MAIL : rahul123@gmail.com

```
=====
```

ID : 1002

NAME : Anand Panda

DESIGNATION : Head

PHONE : 9898982724

E-MAIL : anand@gmail.com

```
=====
```

ID : 1004

NAME : Adarsh Sharma

DESIGNATION : Sr.Manager

=====

ID : 1005

NAME : Adarsh

DESIGNATION : Finance Manager

PHONE : 7654345723

E-MAIL : adrash@gmail.com

=====

ID : 1006

NAME : Monika

DESIGNATION : Employee

PHONE : 9812345674

E-MAIL : monika@gmail.com

=====

CONCLUSION

Overall learning from this project has been massive as it not only developed all the knowledge of all the group members but also helped us to know what working on a project really means.

It helped us to decide the roles which suits or fits the capabilities of each individual in the group. Making this project on Employee Management System made us to go deep down the list of tutorials on YouTube to learn about file-handling concepts which were advanced from what were being taught in the class.

We managed to somehow pull over this project within a time period of two week. It gave us the very important learning to manage our time and while maintaining the readability of code we learned how important it is to be organized when working on a project in real world scenario as one mistake or here and there work can mess up a big clients expectation.

Some of the concepts that are being used in this project are taken or inspired from YouTube channels as we knew it wouldn't have been possible without it.

As everything comes with some pros and cons this project is not different it requires massive amount of update in terms of its features which are listed below. These are also the limitations of the project which we would surely try to fill in as we get better in knowledge in near future.

1. Salary Calculation with tax on monthly basis
2. Holidays track record form employee
3. Attendance marking program
4. Better UI/UX design for more user friendly interface
5. Report generation on end of a month
6. Bonus Distribution system
7. Dynamic Analysis of data entered

Above mentioned limitations are part of each and every project which makes it original and are then filled in or completed by someone else with more knowledge and better approach to solve a problem with a unique technique that saves the precious time of humanity so we could work on solving other problems of people.