



# SRM

INSTITUTE OF SCIENCE & TECHNOLOGY

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## EMPLOYEE RECORD SYSTEM

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LET'S GET STARTED-

## ABSTRACT:

### Features of Employee Record System:

The main features of this project include basic file handling operations; you will learn how to add, list, modify and delete data to/from file. The source code is relatively short, so thoroughly go through the mini project, and try to analyze how things such as functions, pointers, files, and arrays are implemented.

Currently, listed below are the only features that make up this project, but you can add new features as you like to make this project a better one!

- Add record
- List record
- Modify record
- Delete record

The functions used in this project are simple and they basically manipulate file handling and data structures. So, I will only describe the **gotoxy** function used in this project. Try to understand how this functions works as you may want to use it or find it used in many other C mini projects.

```
COORD coord = {0, 0}; // sets coordinates to (0,0) as global variables

void gotoxy (int x, int y)

{

    coord.X = x; coord.Y = y; // X and Y are the coordinates

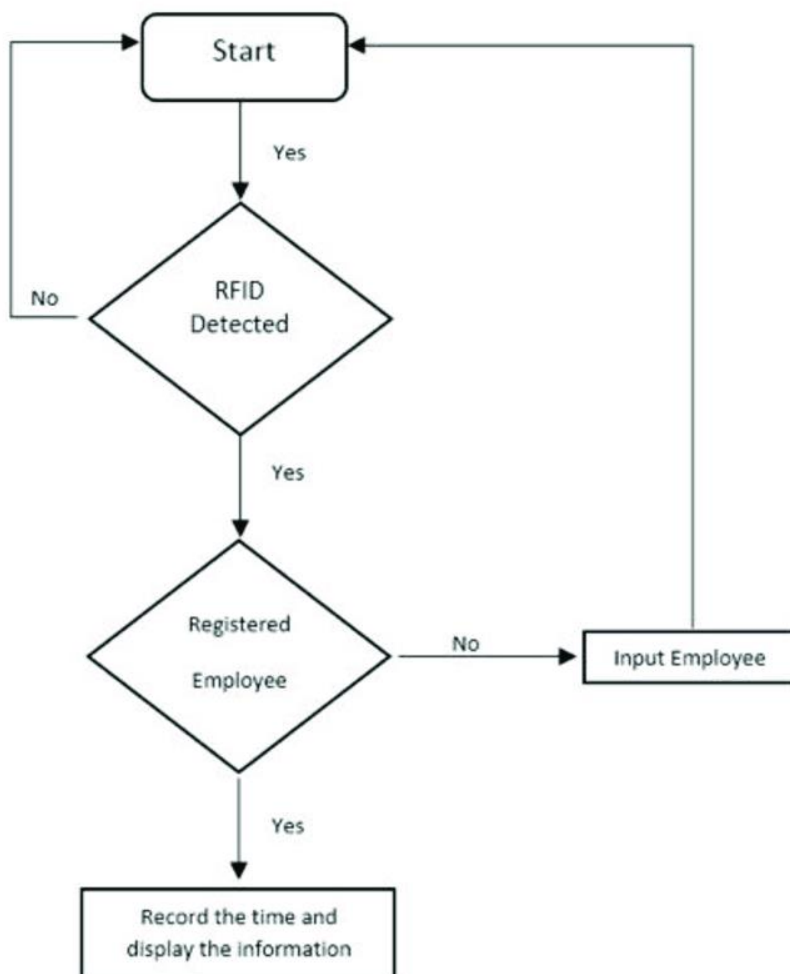
    SetConsoleCursorPosition(GetStdHandle(STD_OUTPUT_HANDLE), coord);

}
```

Employee Record System is software built to handle the primary housekeeping functions of a company. ERS helps companies keep track of all the employees and their records. It is used to manage the company using a computerized system. This software built to handle the records of employees of any company. It will help companies to keep track of all the employees' records in a file.

The opening frame consists of the name of the application and the developer: It is created using some printf statements and a predefined function called system(). The [system\(\) function](#) is a part of the [C/C++ standard library](#). It is used to pass the commands that can be executed in the command processor or the terminal of the [operating system](#) and finally returns the command after it has been completed. system("Color 3F") will change the color of the console i.e. background (3) and the text on the console i.e. foreground (F). system("pause") will pause the screen, so the user will get a message: Press any key to continue . . . gotoxy() function: It will help to set the coordinates of the displayed data. Switch Case: The required function under the switch cases will be executed as per the input of the user. Simple [file handling](#) concepts like opening a file, closing a file, writing in a file, and reading the file, etc. are used to develop the code.

## FLOW CHART



## PROGRAM :

```
#include <stdio.h>
#include <stdlib.h>
#include <conio.h>
#include <windows.h>
#include <string.h>
```

```
COORD coord = {0,0};
```

```
function : gotoxy
@param input: x and y coordinates
@param output: moves the cursor in specified position of console
```

```
void gotoxy(int x,int y)
{
    coord.X = x;
    coord.Y = y;
    SetConsoleCursorPosition(GetStdHandle(STD_OUTPUT_HANDLE), coord);
}
```

```

int main()
{
    FILE *fp, *ft;
    char another, choice;

    struct emp
    {
        char name[40];
        int age;
        float bs;
    };

    struct emp e;

    char empname[40];

    long int recsize;

    fp = fopen("EMP.DAT", "rb+");
    if(fp == NULL)
    {
        fp = fopen("EMP.DAT", "wb+");
        if(fp == NULL)
        {
            printf("Connot open file");
            exit(1);
        }
    }

    recsize = sizeof(e);

    while(1)
    {
        system("cls");
        gotoxy(30,10);
        printf("1. Add Record");
        gotoxy(30,12);
        printf("2. List Records");
        gotoxy(30,14);
        printf("3. Modify Records");
        gotoxy(30,16);
        printf("4. Delete Records");
        gotoxy(30,18);
        printf("5. Exit");
        gotoxy(30,20);
        printf("Your Choice: ");
        fflush(stdin);
        choice = getch();

        {
            case '1':
                system("cls");
                fseek(fp,0,SEEK_END);

                another = 'y';
                while(another == 'y')
                {
                    printf("\nEnter name: ");
                    scanf("%s",e.name);

```

```

        printf("\nEnter age: ");
        scanf("%d", &e.age);
        printf("\nEnter basic salary: ");
        scanf("%f", &e.bs);

        fwrite(&e, recsize, 1, fp);

        printf("\nAdd another record(y/n) ");
        fflush(stdin);
        another = getche();
    }
    break;
case '2':
    system("cls");
    rewind(fp);
    while(fread(&e, recsize, 1, fp) == 1)
    {
        printf("\n%s %d %.2f", e.name, e.age, e.bs);
    }
    getch();
    break;

case '3':
    system("cls");
    another = 'y';
    while(another == 'y')
    {
        printf("Enter the employee name to modify: ");
        scanf("%s", empname);
        rewind(fp);
        while(fread(&e, recsize, 1, fp) == 1)
        {
            if(strcmp(e.name, empname) == 0)
            {
                printf("\nEnter new name, age and bs: ");
                scanf("%s%d%f", e.name, &e.age, &e.bs);
                fseek(fp, -recsize, SEEK_CUR);
                fwrite(&e, recsize, 1, fp);
                break;
            }
        }
        printf("\nModify another record(y/n)");
        fflush(stdin);
        another = getche();
    }
    break;
case '4':
    system("cls");
    another = 'y';
    while(another == 'y')
    {
        printf("\nEnter name of employee to delete: ");
        scanf("%s", empname);
        ft = fopen("Temp.dat", "wb");
        rewind(fp);
        while(fread(&e, recsize, 1, fp) == 1)
        {
            if(strcmp(e.name, empname) != 0)
            {
                fwrite(&e, recsize, 1, ft);
            }
        }
        fclose(fp);
        fclose(ft);
    }

```

```
        remove("EMP.DAT");
        rename("Temp.dat", "EMP.DAT");
        fp = fopen("EMP.DAT", "rb+");
        printf("Delete another record(y/n)");
        fflush(stdin);
        another = getche();
    }
    break;
case '5':
    fclose(fp);
    exit(0);
}
}
return 0;
}
```

OUTPUT:

1. Add Record
2. List Records
3. Modify Records
4. Delete Records
5. Exit

Your Choice:

[codewithc.com](https://codewithc.com)

```
Enter name: Hari
Enter age: 42
Enter basic salary: 12000
Add another record(y/n) y
Enter name: Sam
Enter age: 32
Enter basic salary: 15000
Add another record(y/n)
```

[codewithc.com](https://codewithc.com)

DECLARATION :



It is a simple and easy program on Employee Record System.

#### REFERENCES :

- [codewithc.com](https://www.codewithc.com)
- [online\\_c\\_compiler](https://www.online-c.com)