

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY FACULTY OF ENGINEERING AND TECHNOLOGY

18CSS101J- PROGRAMMING FOR PROBLEM SOLVING MINI PROJECT REPORT

PROJECT TITTLE EMPLOYEE RECORD MANAGEMENT SYSTEM

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ABSTRACT

The project employee management system using C manages employee records using the file system. this help to register employee, display all list of an employee on the screen, search a particular employee record, modify and delete information of an employee. The best part of this project is it uses graphics to more look like real software designed in other higher-level programming languages.

PROBLEM STATEMENT

In this C Project we are going to cover create Employee Management System with C language. With this Employee Management System, we can manage the details of the employees working in a company or organization. Insert, Edit, and Delete file operations are used in this project, but the limitation of this project is that you can only list the data but cannot search for any data item in particular.

DESCRIPTION:

A Employee's Management System (EMS) is a software built to handle the primary housekeeping functions of a company. EMS help companies keep track of all the employees and their records. It is used to manage the company using computerized system.

Aim of Employee's Management System:

- **❖**Built The Employee Table.
- **❖**Insert New Entries.
- ❖ Delete The Entries.
- ❖ Search A Record.

OBJECTIVE:

The main objective of the system is to computerize the maintenance of the employee details and salary section in the company. Insert, Edit, and Delete file operations are used in this project, but the limitation of this project is that you can only list the data but cannot search for any data item in particular. You can include the searching techniques in c to modify this program if you have better knowledge.

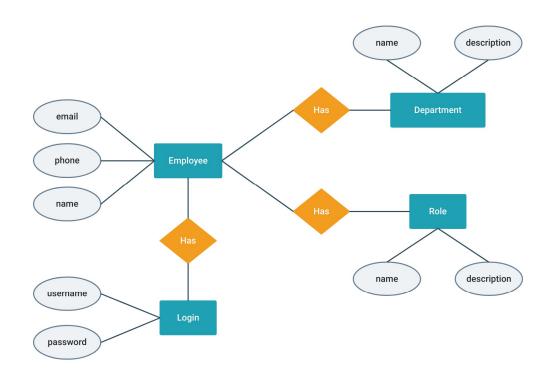
ALGORITHM:

For storing the data of the employee, create a user define datatype which will store the information regarding Employee.

For building the employee table the idea is to use the array of the above struct datatype which will use to store the information regarding employee.

Since we are using array to store the data, therefore to delete the data at any index shift all the data at that index by 1 and delete the last data of the array by decreasing the size of array by 1.

FLOWCHART:



CODE:

```
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <windows.h>
// Structure of the employee
struct emp {
   char name[50];
    float salary;
    int age;
    int id;
};
struct emp e;
// size of the structure
long int size = sizeof(e);
COORD cord = { 0, 0 };
// coordinates
void gotoxy(int x, int y)
    cord.X = x;
   cord.Y = y;
    SetConsoleCursorPosition(
        GetStdHandle(STD_OUTPUT_HANDLE),
        cord);
FILE *fp, *ft;
// Function to add the records
void addrecord()
    system("cls");
    fseek(fp, 0, SEEK_END);
    char another = 'y';
   while (another == 'y') {
        printf("\nEnter Name : ");
        scanf("%s", e.name);
        printf("\nEnter Age : ");
```

```
scanf("%d", &e.age);
        printf("\nEnter Salary : ");
        scanf("%f", &e.salary);
        printf("\nEnter EMP-ID : ");
        scanf("%d", &e.id);
        fwrite(&e, size, 1, fp);
        printf("\nWant to add another"
           " record (Y/N) : ");
        fflush(stdin);
        scanf("%c", &another);
// Function to delete the records
void deleterecord()
    system("cls");
    char empname[50];
    char another = 'y';
   while (another == 'y') {
        printf("\nEnter employee "
            "name to delete : ");
        scanf("%s", empname);
        ft = fopen("temp.txt", "wb");
        rewind(fp);
        while (fread(&e, size,
                    1, fp)
            == 1) {
            if (strcmp(e.name,
                    empname)
                fwrite(&e, size, 1, ft);
        fclose(fp);
        fclose(ft);
        remove("data.txt");
        rename("temp.txt", "data.txt");
        fp = fopen("data.txt", "rb+");
```

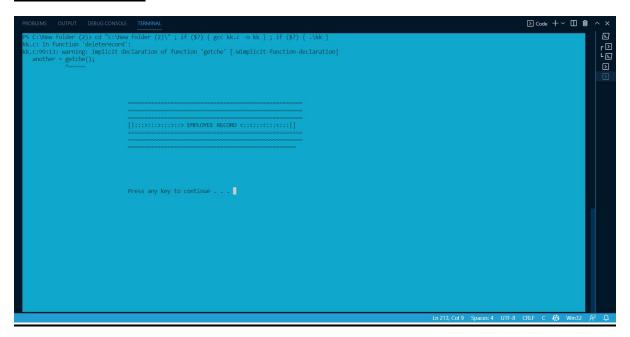
```
printf("\nWant to delete another"
           " record (Y/N) :");
       fflush(stdin);
       another = getche();
// Function to display the record
void displayrecord()
   system("cls");
   // sets pointer to start
   // of the file
   rewind(fp);
    printf("\n========="
       "=====");
    printf("\nNAME\t\tAGE\t\tSALARY\t\t"
       "\tID\n",
       e.name, e.age,
       e.salary, e.id);
    printf("========="
       "====\n");
   while (fread(&e, size, 1, fp) == 1)
       printf("\n%s\t\t%d\t\t%.2f\t%10d",
           e.name, e.age, e.salary, e.id);
    printf("\n\n\t");
    system("pause");
// Function to modify the record
void modifyrecord()
    system("cls");
   char empname[50];
    char another = 'y';
   while (another == 'y') {
       printf("\nEnter employee name"
           " to modify : ");
       scanf("%s", empname);
       rewind(fp);
```

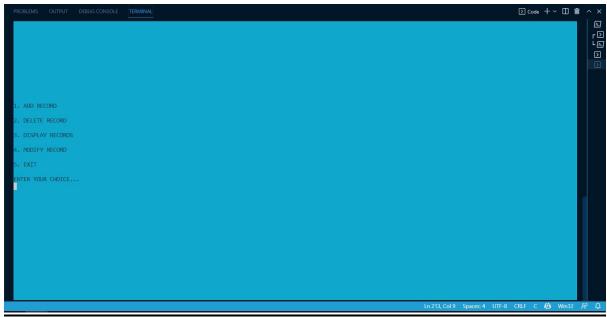
```
// While File is open
        while (fread(&e, size, 1, fp) == 1) {
            // Compare the employee name
            if (strcmp(e.name, empname) == 0) {
                printf("\nEnter new name:");
                scanf("%s", e.name);
                printf("\nEnter new age :");
                scanf("%d", &e.age);
                printf("\nEnter new salary :");
                scanf("%f", &e.salary);
                printf("\nEnter new EMP-ID :");
                scanf("%d", &e.id);
                fseek(fp, -size, SEEK CUR);
                fwrite(&e, size, 1, fp);
                break;
        // Ask for modifying another record
        printf("\nWant to modify another"
            " record (Y/N) :");
        fflush(stdin);
        scanf("%c", &another);
// Driver code
int main()
    int choice;
   // opening the file
    fp = fopen("data.txt", "rb+");
    // showing error if file is
    // unable to open.
    if (fp == NULL) {
        fp = fopen("data.txt", "wb+");
        if (fp == NULL) {
            printf("\nCannot open file...");
            exit(1);
        }
    system("Color 3F");
```

```
printf("\n\n\n\t\t\t\t======="
   "======");
printf("\n\t\t\t\t~~~~"
printf("\n\t\t\t========"
   "=====");
printf("\n\t\t\t[|:::>:::>::> "
   "EMPLOYEE RECORD <::<:::"
   "<:::|]\t");
printf("\n\t\t\t========="
   "=====");
printf("\n\t\t\t\t~~~~~"
   "~");
"==========================\n");
printf("\n\n\t\t\t\t\t\t\t\t\t\t\t"
   "\n\n\t\t\t\t");
system("pause");
while (1) {
   // Clearing console and asking the
   system("cls");
   gotoxy(30, 10);
   printf("\n1. ADD RECORD\n");
   gotoxy(30, 12);
   printf("\n2. DELETE RECORD\n");
   gotoxy(30, 14);
   printf("\n3. DISPLAY RECORDS\n");
   gotoxy(30, 16);
   printf("\n4. MODIFY RECORD\n");
   gotoxy(30, 18);
   printf("\n5. EXIT\n");
   gotoxy(30, 20);
   printf("\nENTER YOUR CHOICE...\n");
   fflush(stdin);
   scanf("%d", &choice);
   // Switch Case
   switch (choice) {
   case 1:
```

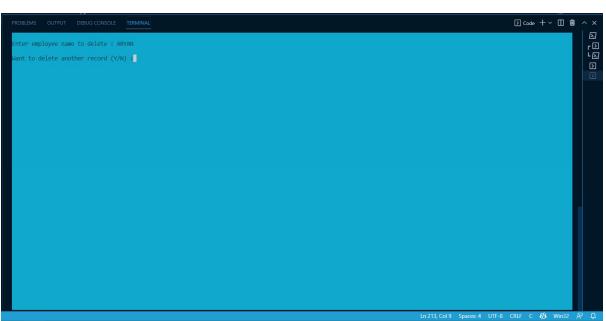
```
addrecord();
        break;
    case 2:
        deleterecord();
        break;
    case 3:
        displayrecord();
        break;
    case 4:
        modifyrecord();
        break;
    case 5:
        fclose(fp);
        exit(0);
        break;
    default:
        printf("\nINVALID CHOICE...\n");
return 0;
```

OUTPUT:











RESULT:

Employee Management system (EMS) is successfully evaluated.

CONCLUSION:

In this C Projects source code series, we create employee Management system (EMS). We can manage the details of the employees working in a company or organization.