



Green University of Bangladesh
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Lab Project Name: Employee Management System

Student Details

	Name	ID
1.	Gazi Faria	213902067

Submission Date: 15-05-2022

Course Teacher's Name: Md. Sultanul Islam Ovi

[For Teachers use only: **Don't Write Anything inside this box**]

Lab Project Status

Marks:

Signature:

Comments:

Date:

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Chapter 1

Introduction

1.1 Introduction

Today almost every activity in the world is controlled by computer powered software programs. This trend has been dominated by engineering applications in the past. But as life becomes more complex, each field of human interaction is attacked by different Software systems, such as real time, business, simulation, embedded, web-based, personal and Most recently, artificial intelligence software and so on.

According to the above information, efficient software can now be used to control and maintain the records of an employee. This project focuses on designing efficient and reliable software which controls the transactions of an employee's records

1.2 Goals/Objective

Employee records management system is a web application that automates all kinds of activities in employee records. And this software is based on C programming language. The purpose of this software is to manage all employee data.

Typically, this includes data processing, employee management, and accounting Management. I'm trying to develop this software to keep track of employee information, name, salary, age, address of the employee. This means a process that has a type system that provides benefits provide information to all employees without any complications.

Design OF Employee Management System

- 1. Add Employees Records**
- 2. List Employees Records**
- 3. Modify Employees Records**
- 4. Delete Employees Records**
- 5. Exit Button**

Chapter 2

Implementation of the Project

2.1 Implementation

//Employee Record Management

//Gazi Faria,213902067

```
#include <stdio.h>
#include <stdlib.h>
#include <conio.h>
#include <windows.h>
#include <string.h>
int main()
{
    int i=0;
    FILE *fp, *ft;
    char another, choice;

    struct emp
    {
        char name[40];
        int age;
        char address[20];
        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");

        printf(" \n :::::::::::::::::::: |EMPLOYEES RECORD MANAGEMENT| :::::::::::::::::::: \n");
        printf("1. Add Employee's Records \n");
        printf("2. List Employee's Records \n");
        printf("3. Modify Employee's Records \n");
        printf("4. Delete Employee's Records \n");
        printf("5. Exit System \n");
        printf(" \n \n Your Choice: ");
        fflush(stdin);
        choice = getche();
        switch(choice)

        {
            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 Address:");
                    scanf("%s",e.address);
                    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");
    printf("EMPLOYEE's RECORD LIST (name, age, address, salary)");
    rewind(fp);
    while(fread(&e,recsize,1,fp)==1)
    {

        printf("\n\n%s \t\t%d \t%s \t%.2f",e.name,e.age,e.address,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,address and bs: ");
                scanf("%s%d%s%f",e.name,&e.age,&e.address,&e.bs);
                fseek(fp,-recsize,SEEK_CUR);
                fwrite(&e,recsize,1,fp);
                break;
            }
        }
        printf("\nModify another record(y/n)");
        fflush(stdin);
        another = getche();
    }
}

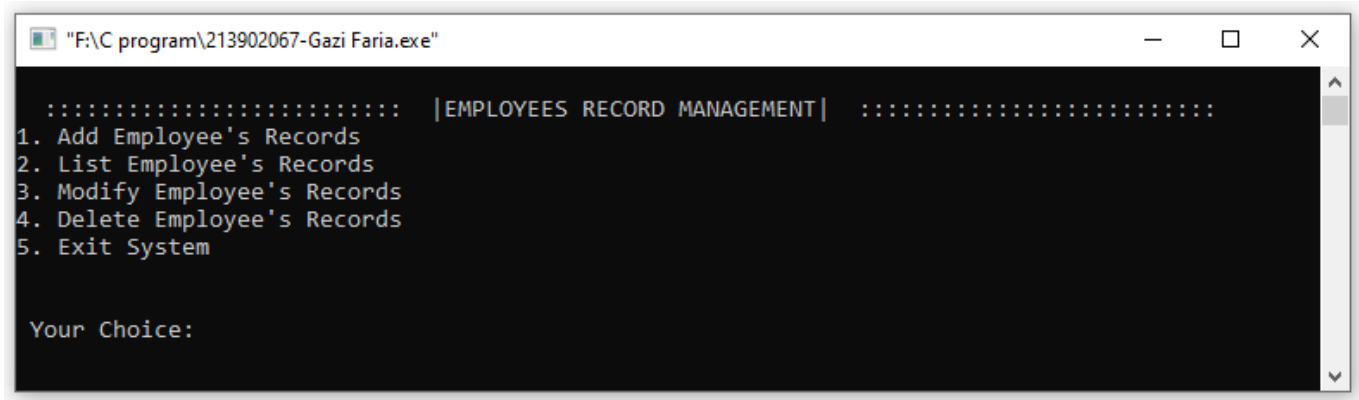
```

```

    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;
}

```


2.2 Output

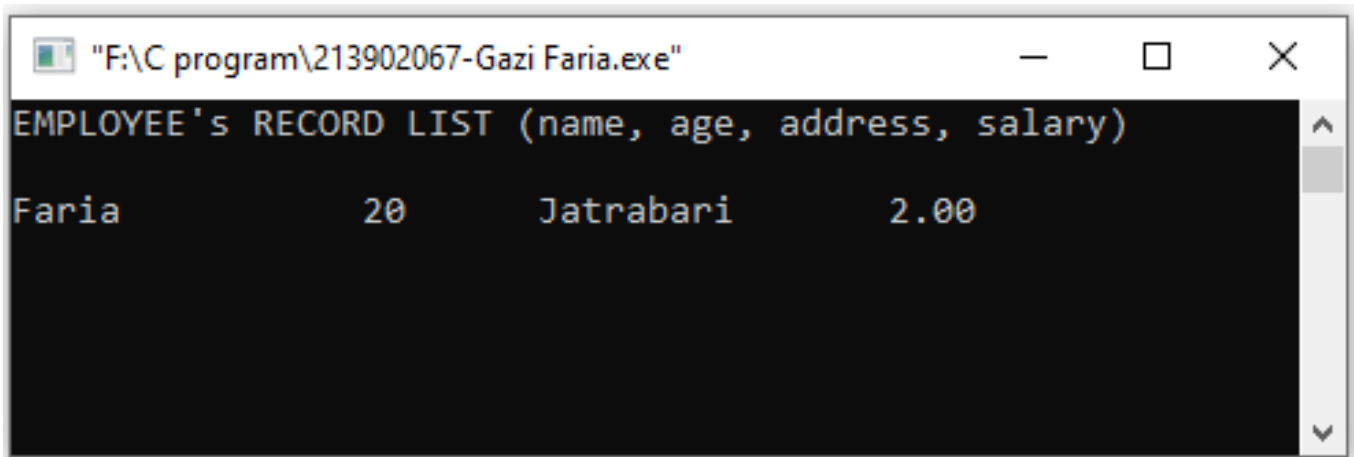


```
"F:\C program\213902067-Gazi Faria.exe"

::: |EMPLOYEES RECORD MANAGEMENT| :::
1. Add Employee's Records
2. List Employee's Records
3. Modify Employee's Records
4. Delete Employee's Records
5. Exit System

Your Choice:
```

Figure 01:: Main Menu interface



```
"F:\C program\213902067-Gazi Faria.exe"

EMPLOYEE's RECORD LIST (name, age, address, salary)

Faria          20      Jatrabari      2.00
```

Figure 01:: Option 2 Interface

Chapter 4

Conclusion

3.1 Learning Outcome

By completing this project, I will be able to understand and visualize the inner workings. The computer system and the architecture and overall concept that drives this C language my project programming. As a programming language, C allows me to write more complex and comprehensive program. I am now able to define and to solve this project manage data structures based on problem domains. Ability to work with text, data, letters and strings. Ability to work with arrays of complex objects. Understanding an idea of object thinking within the framework of a functional model.

3.2 Scope of Future Work

This is an attempt to make the employee information system current inefficient and time consuming the process of finding and storing quality reading material. Currently, clients have to go through a time consuming process to perform aforementioned tasks which cause waste of labor and firm resources. We provide an easy way of searching, finding to employee details. User data are validated and checked for authenticity with the data stored in the system database. All newly created processes will address time consuming, inefficient and inefficient fields existing systems that are wasting the resources of many organizations, such as labor, electricity, equipment, products and services, the management of the company suffers.

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