

Salary Management System

By

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A course project (SWE 133: Software Development Capstone Project) Submitted in fulfillment of the requirement for the degree of Bachelor of Science in Software Engineering

Department of Software Engineering

DAFFODIL INTERNATIONAL UNIVERSITY

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DECLARATION

It hereby declared that this course project title on "Salary Management System" under the supervision of Dr. Md. Asraf Ali, Associate Professor, Department of Software Engineering, Daffodil International University. It is also declared that neither this project nor any part of this has been submitted elsewhere for award or any degree.

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ACKNOWLEDGEMENT

First of all, I am grateful to The Almighty God for giving me the ability to complete this project. Today I am felling proud for myself. Because, to be a student of Daffodil International University. And I am thankful to Daffodil International University for giving me a chance to give me a chance to prove myself by showing this project. I thank to our Department Head Dr. Touhid Bhuiyan. And I want to thank to our respected class teacher Dr. Md. Asraf Ali for supporting and given your guideline and valuable advices. Salary Management System is not a new system. Although in our country very few company has these kind of software. In another way I can say this is an advanced project for our country to use software for Salary Management System. In this software I have implemented many different feature for the advance level experience. And it is also very easy to use. This software will give you better experience. I hope every people who will use this system will be happy after completing their transaction. To build this software I have collected many types of information from different salary management lot sources. At last I also thank my parents for their unceasing encouragement and support. On record, my sense of gratitude to one and all who, directly or indirectly, have lent their helping hand in this project.

Thank You

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List of Abbreviation

SWE = Software Engineering

DIU = Daffodil International University

ABSTRUCT

This is a project documentation on "Salary Management System". During the making of this project I explored new ideas and functionality. This report reflects my steps taken at various levels of programming skills.

This Project is a management system for an existing Parking lot. This is a c Project which helps to manage a store. The user and admin have to log in with password. Without log in user or admin can't enter. Admin can manage the whole system. The main objectives of this project is to build a Software for making a Salary management easy and within short time. Manager can calculate as well as delete and also edit information. Manager can easily calculate total salary from previous information.

We can use this software for making easy of all management system of a store and there is

CHAPTER 1: INTRODUCTION

1.1 Background:

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In this 21th century, we are living in information era. Day by day information is increasing in all sectors, but ability to store them proper way and make proper use of that information does not growth. The **Salary Management System** deals with the financial aspects of employee's salary, allowances, deductions, gross pay, net pay etc. And generation of pay-slips for a specific period. The outstanding benefit of **Salary Management System** is its easy implementation.It is fast and can perform many operations of a company.

1.2 Motivation of the Project:

The motivation for designing this system because I was curious about whole management system of a Salary Management lot. I saw maximum Salary Management system wasn't computerized. That's why I explored some ideas and thought about how to make management system of Salary lot is computerized. Then I have learnt a lot of things of management system of Salary lot and implement this system.

1.3 Problem Statement:

Now in this busy world there are so many Salary Management lot. Company manager cannot keep their information in safe and many of them lose their Lot's information. When they need any kind of information about their System they cannot find information easily and there is a lots of waste of time to find the exact information. When they need to replace a Employee they have to waste space for that information.

1.4 Project Objective:

For solving company manager's issue I come in a decision to make a Salary management system where manager are relax about their all information of the company and they will easily give salary and give information into the system. I can confidently say that by using this system they are 100% safe and secure. They

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are not going to afraid of losing their information. They can easily find out an information what were they needed. I think this is the easiest system to store their all kind of information.

1.5 Project Organisation:

In first chapter I discussed background of my project. Here I also discuss motivation of the project, project description, problem statement and problem solution.

In Second chapter I will mainly discuss about its methodology that how it works with many things that I used to manage the program.

In Third chapter I will mainly discuss about its result and discussion or OUTCOME. With what to press to do what. All of this are done with screenshots of the project required part.

In last chapter I discussed about future plan or Recommendations. That what is my future plan with this software. What i want to add in this in future. And at present what can I do with this project.

2 CHAPTER 2: LITERATURE REVIEW

Salary Management System is a distributed application, developed to evaluate the performance of employees working in any organization. It maintains the information about a company, personal details of their employees, also the project details assigned to particular developer.

2.1 Existing Project:

There are not so many project about Salary Management System. I saw some of them but I wasn't full of satisfied. Some project has a little things to do. Lots of things can be added with that. Then it will be more user friendly and helpful to manage any Car Parking Lot.

I have tried to this project user friendly to the user. I added many things more than previous existing project. By using this system user may can be satisfied. I mainly focused on energy saving and how to avoid waste of time.

3 CHAPTER 3: METHODOLOGY

At first we need to be registered in with defined password. User is Employees and manager is admin. After successfully registration user will be logged in. Admin can do all the things of this system.

3.1 Log in:

In this option we matched the password. If it matches then the main operation starts. If it doesn't match then the program ask the user to log in again.

3.2 Main Menu

After entered to this system user can use all the option from main menu.

Main menu has following ten options:

For Employee:

- [1] Add Employees Personal Information [6] Main Menu
- [2] Display Employees Record [7] Exit
- [3] Search Employees Record
- [4] Salay Detail
- [5] Copyright

For Admin:

- [1] Manage Salary Rank [4] Main Menu
- [2] Search Employees Record [5] Copyright
- [3] Delete Record [6] Exit

■ Add Employees Personal Information

In this function we have assigned employee's personal information. Here Store Employee's necessary Personal Information like Name, Id, Age, Rank and work days.

■ Display Employees Record

In this Option programme will show Employee's all information with salary.

■ Search Employees Record

Any user can search any employee's information with ID or Name.

Salary Detail

Here programme will show the salary ranking detail.

■ Delete Record

Only Admin can Use this option for delete any employees with his id or name.

■ Manage Salary Rank (salary)

User can modify salary by reference of Employees Grade

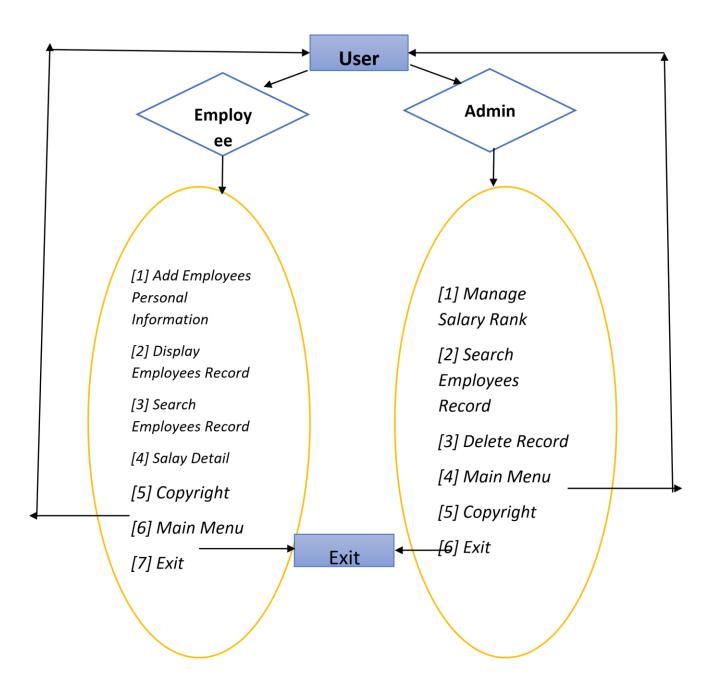
Copyright

This is just a preference page that show my name and varsity id.

Exit

This page is for user if need to stop the system.

3.3 Use case:



3.4 Functional requirement:

- 1. Log in;
- 2. Rank
- 3. Id
- 4. Details
- 5. Delete
- 6. Search
- 7. Exit

3.5 Non - functional:

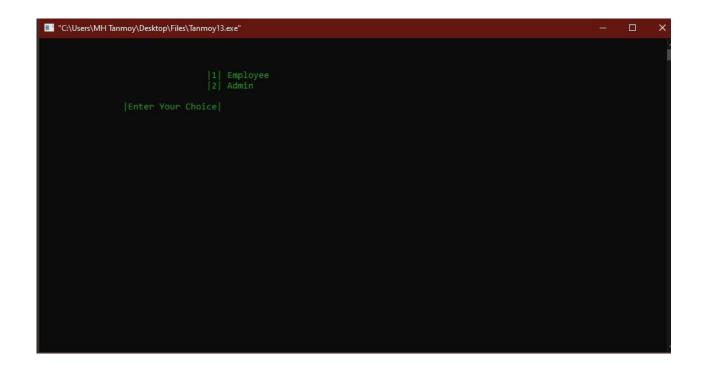
- 1. Security
- 2. Usability;
- 3. Maintainability
- 4. Performance

4 CHAPTER 4: RESULTS AND DISCUSSION

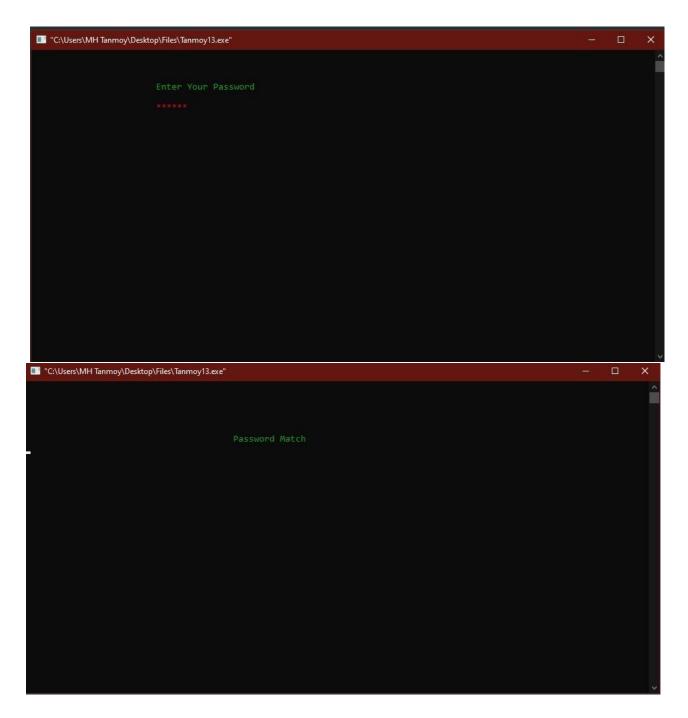
This chapter focuses on analysis and description of every options of this system. This project user is who manage Salary management system.

4.1 welcome Page:

4.2 User Menu:



4.3 Password Menu:



4.3.1 Admin Menu:

When we choose admin option, program understands that user entering in the admin menu.

```
Total Search Employees Record

[1] Manage Salary Rank
[2] Search Employees Record
[3] Delete Record
[4] Main Menu
[5] Copyright
[6] Exit

|Enter Your Choice|
```

4.3.2 Employee Menu:

When we choose Employee option, program understands that user entering in the employee menu.

```
**C\User\MH Tanmoy\Desktop\Files\Tanmoy13.exe**

- X

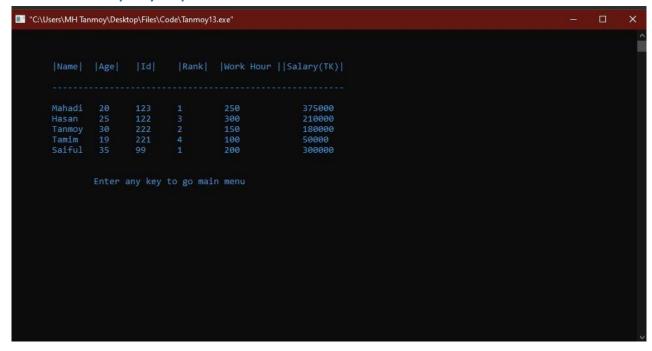
[1] Add Employees Personal Information
[2] Display Employees Salary
[3] Search Employees Record
[4] Salary Detail
[5] Copyright
[6] Main Menu
[7] Exit

|Enter Your Choice|
```

4.4 Employee's Information Option:

If user want to insert an employee information into the system.

4.5 Display Option:



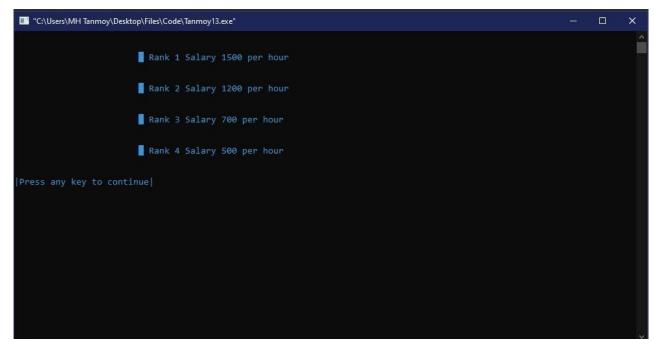
4.6 Search Menu:

User can search by name-

Search by id-

4.7 Salary Rank System:

Here all details about salary rank in this programme.



4.8 Managing Salary Ranking System:

Only admin can manage ranking system of salary.

```
CAUSers\MH Tanmoy\Desktop\Files\Code\Tanmoy13.exe*

[1] Manage Salary Rank
[2] Search Employees Record
[3] Delete Record
[4] Main Menu
[5] Copyright
[6] Exit

[Enter Your Choice| 1

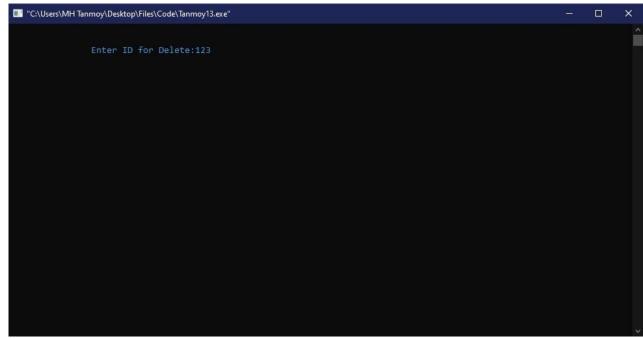
Rank 1 Salary 1500 per hour
Rank 2 Salary 1200 per hour
Rank 2 Salary 1200 per hour
Rank 4 Salary 500 per hour
Rank 4 Salary 700 per hour
Enter (1/2/3/4) For change Rank Salary 1
Enter New Rank 1 Salary Per hour2000
Enter Any Key For continue Or Enter 1 for Main menu

V
```

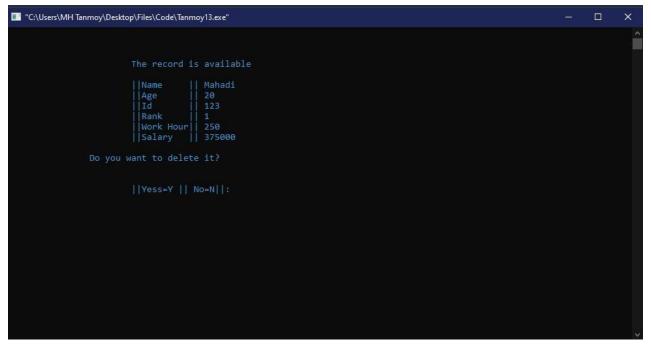
4.9 Delete Option:

Only Admin can delete any employee's information from the system.

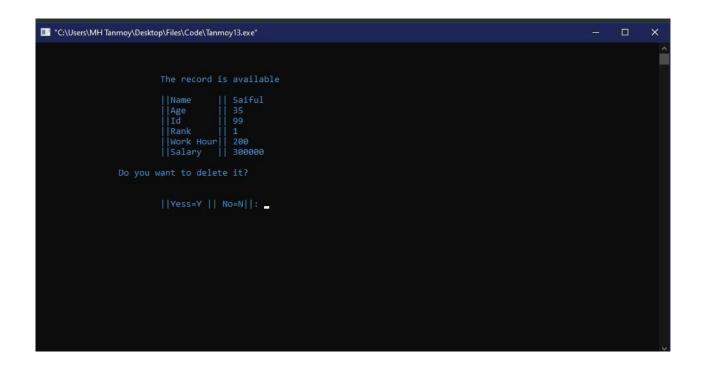
Deletion using id.



Showing Found record for deleting:



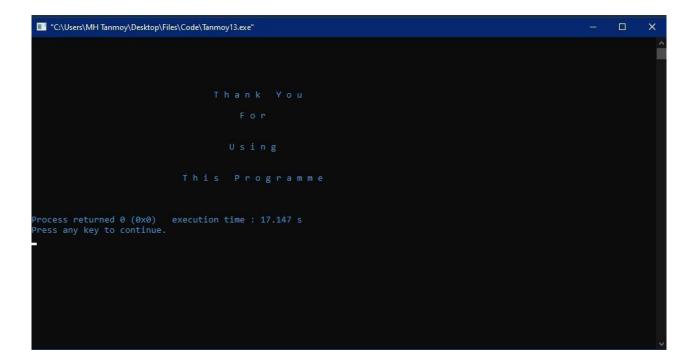
Deletion Using name:



4.10 Copyright:

4.11 Exit:

If user want to leave this system he can close window. Or can also by selecting Exit option.



5 CHAPTER 5: CONCLUSIONS AND RECOMMENDATIONS:

With the theoretical inclination of our syllabus it becomes very essential to take the utmost advantage of any opportunity of gaining practical experience that comes along. The construction of this Project **SALARY MANAGEMENT SYSTEM** was one of these opportunities. It gave us the requisite practical knowledge to supplement the already taught theoretical concepts thus making us more competent as a software engineer.

The project from a personal point of view also helped us in understanding the following aspects of project development:

- The planning that goes into implementing a project.
- The importance of proper planning and an organized methodology.

Reference

sources:

- 1. https://www.youtube.com/playlist?list=PLgH5QX0i9K3pCMBZcul1fta6UivHDbXvz
- 2. https://www.youtube.com/watch?v=e9Eds2Rc_x8

CODE

//Main Function and All User Defined Function & Structure Declaration:

```
#include<stdio.h>
#include<string.h>
#include<conio.h>
#include<stdlib.h>
#include<time.h> #include<windows.h> int
j;
int m=0; int
rank1=1500; int
rank2=1200; int
rank3=700; int
rank4=500; void
del(); void
password(); void
welcome(); int user();
void ext(); void
addd(); void display();
void rankk(); void
searchh(); int
tan(void); FILE *ff,
*ft; struct
information
  char name[50];
int age; int id;
int rank; int
work_hour; int
salary; } inf;
//Password void password()
```

```
system("cls"); char pass[30],pass1[]="Tanmoy",ch;
int I,pos=0; again: printf("\n\n\t\tEnter Your
Password\n\t\t\t';
 while(1)
 {
    ch=getch();
                  if(ch==13)
pass[pos]='\0';
break;
    }
    else if(ch==8)
           if(pos>0)
      {
               pos--;
pass[pos]='\0';
                     printf("\b
\b");
     }
else
                                    printf("\033[0;31m*\033[0m");
      pass[pos]=ch;
                        pos++;
   }
 }
 l=strcmp(pass1,pass);
if(l==0)
    system("cls");
                    printf("\033[0;32m\n\n\n\t\t\t\t\t\t\Password Match\033[m\n");
                                                                                      Sleep(1000);
    system("cls");
 }
else
 {
                    printf("\033[0;31m\n\n\n\t\t\t]);
    system("cls");
          goto again;
pos=0;
 }
}
//Welcome void welcome()
 system("cls");
                   system("COLOR 3");
int wlc=0,wlc2=0,wlc3=0,wlc4=0;
                                 char
```

```
wel[50]="Welcome";
                       char wel2[50]="
To"; char wel3[50]="Salary"; char
wel4[50]="
              Management System";
                                             ");
printf("\n\n\n\n\t\t\t\t
while(wlc<strlen(wel))
  {
    printf(" %c",wel[wlc]);
                             Sleep(100);
wlc++;
  }
  printf("\n\t\t\t\");
while(wlc2<strlen(wel2))
  {
    printf(" %c",wel2[wlc2]);
    Sleep(100); wlc2++;
  }
  printf("\n\n\t\t\t\t");
while( wlc3<strlen(wel3))
  {
    printf(" %c",wel3[wlc3]);
                                Sleep(100);
wlc3++;
  }
  printf("\n\n\t\t\t\t"); while(
wlc4<strlen(wel4))
    printf(" %c",wel4[wlc4]);
                                Sleep(100);
wlc4++;
  }
  Sleep(2000); system("cls");
int user()
{ int count;
system("cls");
system("COLOR 2"); again:
  printf("\n\n\t\t\t\t"); printf("|1| Employee");
printf("\n\t\t\t\2|
Admin"); printf("\n\n\t\t|Enter Your Choice|
"); scanf("%d",&count); switch(count)
```

30 | Page

```
{ case 1:
return 1; case
2:
      return 2;
default:
system("cls"); printf("\nTry
    Again! \n");
    goto again;
 }
}
//Exit void ext()
  system("cls"); system("COLOR
3");
                                      int
wlc=0,wlc2=0,wlc3=0,wlc4=0; char wel[50]="Thank
You"; char wel2[50]=" For"; char wel3[50]="
Using"; char wel4[50]=" This Programme";
printf("\n\n\n\n\t\t\t
                                      ");
while(wlc<strlen(wel))
 {
    printf(" %c",wel[wlc]);
                              Sleep(100);
wlc++;
  }
  printf("\n\n\t\t\t\"); while(wlc2<strlen(wel2))</pre>
    printf(" %c",wel2[wlc2]);
                              Sleep(100);
wlc2++;
  printf("\n\n\t\t\t\"); while(
wlc3<strlen(wel3))
    printf(" %c",wel3[wlc3]);
Sleep(100);
               wlc3++;
  }
  printf("\n\n\t\t\");
  while( wlc4<strlen(wel4))
  {
```

```
printf(" %c",wel4[wlc4]);
                              Sleep(100);
wlc4++;
  }
  printf("\n\n");
return 0;
}
//Add Employee Information void addd()
  system("cls"); int f; int a=0;
ff=fopen("project.dat","ab+"); printf("\n\n\t\t\t\xDB
Enter Employee Information \xDB"); printf("\n\n\t\t\xB2
       : "); scanf("%s",&inf.name); printf("\t\t\xB2
Name
       :"); scanf("%d",&inf.age); printf("\t\t\xB2 Id
Age
:"); scanf("%d",&inf.id); printf("\t\t\xB2 Rank(1-4):");
scanf("%d",&inf.rank); printf("\t\t\xB2 Work Hour : ");
scanf("%d",&inf.work_hour); if(inf.rank==1)
  {
    inf.salary=rank1*(inf.work_hour);
  else if(inf.rank==2)
    inf.salary=rank2*(inf.work_hour);
  }
  else if(inf.rank==3)
    inf.salary=rank3*(inf.work_hour);
  else if(inf.rank==4)
    inf.salary=rank4*(inf.work hour);
  }
else
  {
    printf("\n\t\tEnter Again! Rank Must(1-4) \n");
printf("\n\n\tPress any key to continue");
                                            getch();
addd();
           return;
  }
  fseek(ff,0,SEEK_END);
fwrite(&inf,sizeof(inf),1,ff); m++;
fclose(ff);
```

```
printf("Do you want to add another?(Yes=1 | No=any integer key )");
scanf("%d",&a); system("cls"); if(a==1)
  {
addd();
return;
  }
  j=m;
return;
//Display void display()
{ int cnt,f; system("cls");
printf("\n\n");
int i=0;
printf("\t|Name|");
  printf("\t|Age|"); printf("\t|Id|");
  printf("\t|Rank|");
  printf("\t|Work Hour |");
  printf("|Salary(TK)|\n");
  printf("\n\t-----
  -----\n\n");
   int k; char info[100][100];
ff=fopen("project.dat","rb");
while(fread(&inf,sizeof(inf),1,ff)==1)
    printf("\t");
                    printf("%s\t",
inf.name);
               printf(" %d\t", inf.age);
printf("%d\t", inf.id);
printf("%d\t", inf.rank);
                           printf("
%d\t\t", inf.work_hour);
printf("%d\t", inf.salary);
printf("\n");
 }
  fclose(ff);
             printf("\n\n\t\tEnter any key to go
main menu"); getch();
}
void rankk()
{ int iii,jjj;
while(1)
  {
    printf("Rank 1 Salary %d per hour\n",rank1);
printf("Rank 2 Salary %d per hour\n",rank2);
```

```
printf("Rank 3 Salary %d per hour\n",rank3);
printf("Rank 4 Salary %d per hour\n",rank4);
printf("Enter (1/2/3/4) For change Rank Salary");
scanf("%d",&iii);
                    if(iii==1)
    {
      printf("Enter New Rank 1 Salary Per hour");
                                                        scanf("%d",&rank1);
    }
    else if(iii==2)
      printf("Enter New Rank 2 Salary Per hour");
                                                        scanf("%d",&rank2);
    }
    else if(iii==3)
                                                        scanf("%d",&rank3);
      printf("Enter New Rank 3 Salary Per hour");
    }
    else if(iii==4)
      printf("Enter New Rank 4 Salary Per hour");
                                                        scanf("%d",&rank4);
    }
          else
system("cls");
printf("Wrong Key! Try again\n");
    }
    printf("Enter Any Key For continue Or Enter 1 for Main
menu");
            scanf("%d",&jjj);
                                  if(jjj==1)
                                                 break;
 }
}
//Search void searchh()
{ int a,d,cc; char find,nama[40]; system("cls");
printf("\n\n\t\l|1|
Search By ID "); printf("\n\t\2|
Search By Name ");
  scanf("%d",&cc); if(cc==1)
    printf("\n\n\t\tEnter Search ID: ");
                                          scanf("%d",&d);
ff=fopen("project.dat","rb+");
rewind(ff);
while(fread(&inf,sizeof(inf),1,ff)==1)
    {
            if(inf.id==d)
```

```
{
        system("cls");
                               printf("\n\n\t\t\-\sim The\ record
is available~~");
                         printf("\n\n\t\t||Name ||
%s\n",inf.name);
                         printf("\t\t\t||Age ||
                        printf("\t\t\t||Id
                                            || %d\n",inf.id);
%d\n",inf.age);
printf("\t\t||Rank
                                                               %d\n",inf.rank);
                                                       Ш
printf("\t\t\t||Work Hour|| %d\n",inf.work_hour);
printf("\t\t||Salary || %d\n",inf.salary);
                                                   find='t';
printf("\n\n\tPress any key to continue");
getch();
      }
    }
  }
  else if(cc==2)
  {
    printf("\n\n\t\tEnter Search Name: ");
scanf("%s",&nama);
ff=fopen("project.dat","rb+");
                                  rewind(ff);
    while(fread(&inf,sizeof(inf),1,ff)==1)
    {
      if(strcmp(inf.name,nama)==0)
                               printf("\n\n\t\t\t^\sim The
        system("cls");
record is available~~");
                               printf("\n\n\t\t||Name
|| %s\n",inf.name);
                            printf("\t\t||Age
                        printf("\t\t\)|Id
%d\n",inf.age);
%d\n",inf.id);
```

```
printf("\t\t||Rank || %d\n",inf.rank);
printf("\t\t||Work Hour|| %d\n",inf.work_hour);
printf("\t\t\t||Salary
                      || %d\n",inf.salary);
find='t';
        printf("\n\n\tPress any key to continue");
getch();
      }
    }
  }
else
  {
    printf("\n\t\t\t Wrong
Choice!");
              searchh();
return;
 }
if(find!='t')
    printf("\n\n\t\xDB No Id Found!!\xDB");
  }
  printf("Do you want to search another?(Yes=1 | No=any integer key
)"); scanf("%d",&a); system("cls"); if(a==1)
searchh();
return;
 }
//Copyright
int tan(void)
{ time_t t;
time(&t);
system("cls"); system("COLOR
2");
  printf("\n\n\t\t\tName : Mahadi Hasan Thanmay\n");
printf("\t\t\tId
              Cumilla\n");
35
  printf("\t\tE-mail
                                    Mahadi.std@gmail.com\n\n");
printf("\t\t\copyright by Mahadi\n"); printf("\t\tAll rights reserved\n\n");
                                    printf("\t\tDay|Mon|Date| Time
```

```
Page
                        © DaffodilInternationalUniversity
          |Year|\n\t\t\s\n",ctime(&t)); printf("\n\n\t|Press any key to
                                                   continue | "); getch();
}
//Deletion
void del()
{ char find;
system("cls"); int d;
char another='y';
while(another=='y')
  {
    system("cls");
    printf("\n\n\t\tEnter ID for Delete:");
scanf("%d",&d);
                    ff=fopen("project.dat","rb+");
rewind(ff);
while(fread(&inf,sizeof(inf),1,ff)==1)
if(inf.id==d)
      {
        system("cls");
                               printf("\n\n\n\t\t\tThe
record is available");
                             printf("\n\n\t\t\t||Name ||
%s\n",inf.name);
                         printf("\t\t||Age ||
                        printf("\t\t| Id || %d\n",inf.id);
%d\n",inf.age);
printf("\t\t\t||Rank
                                printf("\t\t||Work Hour||
       %d\n",inf.rank);
       %d\n",inf.work_hour);
printf("\t\t||Salary || %d\n",inf.salary);
                                                  find='t';
      }
    }
if(find!='t')
{
      printf("\n\n\t\xDB No Id
Found!!\xDB");
                     getch();
                                    break;
if(find=='t' )
    {
```

```
printf("\n\t\tDo you want to delete it? \n\n\t\t\t||Yess=Y ||
No=N||:
");
         if(getch()=='y')
      {
         ft=fopen("test.dat","wb+");
rewind(ff);
while(fread(&inf,sizeof(inf),1,ff)==1)
if(inf.id!=d)
fseek(ft,0,SEEK_CUR);
fwrite(&inf,sizeof(inf),1,ft);
                               fclose(ft);
fclose(ff);
                   remove("project.dat");
rename("test.dat","project.dat");
ff=fopen("project.dat","rb+");
                                       if(find=='t')
           printf("The record is sucessfully deleted");
printf("Delete another record?\n\n\t\t\t||Yess=Y || No=N||");
else
        {
display();
                  break;
fflush(stdin);
another=getch();
    }
  }
//Main Menu main()
{ int use;
welcome(); bck:
  use=user();
if(use==1)
ii;
while(1)
    {
                         system("cls");
                                              system("COLOR 3");
      password();
printf("\n\n\t\t[1] Add Employees Personal Information\n");
printf("\t\t[2] Display Employees Salary\n");
                                                    printf("\t\t[3]
```

```
Search Employees Record\n");
                                     printf("\t\t[4] Salary Detail\n");
printf("\t\t[5] Copyright\n");
                                    printf("\t\t[6] Main Menu\n");
printf("\t\t[7] Exit\n");
                              printf("\n\n\t\t|Enter Your Choice| ");
scanf("%d",&ii);
                       switch(ii)
      {
case 1:
addd();
break;
             case
2:
display();
break; case 3:
         searchh();
             case 4:
break;
         system("cls");
                                printf("\n\n\t\t\xDB Rank 1 Salary %d
per hour\n",rank1);
                             printf("\n\n\t\t\xDB Rank 2 Salary %d per
hour\n",rank2);
                         printf("\n\n\t\t\xDB Rank 3 Salary %d per
hour\n",rank3);
                         printf("\n\n\t\t\xDB Rank 4 Salary %d per
                              printf("|Press any key to continue|");
hour\n\n', rank4);
getch();
                 break;
                              case 5:
                                               tan();
                                                              break;
case 6:
         goto bck;
case 7:
ext();
              return
         default:
0;
         system("cls");
printf("\nTry Again! \n");
                                  Sleep(500);
break;
      }
    }
  }
  else if(use==2)
    password();
    int jj;
while(1)
    {
```

```
system("cls");
system("COLOR 3");
      printf("\n\n\t\t[1] Manage Salary Rank\n");
printf("\t\t[2]
                  Search Employees Record\n");
printf("\t\t[3] Delete Record\n");
                                       printf("\t\t[4]
Main Menu\n");
                       printf("\t\t[5] Copyright\n");
                              printf("\n\n\t\Enter
printf("\t\t[6] Exit\n");
Your Choice | ");
                     scanf("%d",&jj);
                                           switch(jj)
case 1:
rankk();
break;
             case
2:
searchh();
break;
             case
3:
             del();
break;
              case
4:
              goto
bck;
           case 5:
tan();
break;
             case
6:
           ext();
return 0;
                default:
         system("cls");
printf("\nTry Again! \n");
                                  Sleep(500);
break;
      }
    }
  }
}
```

Thank You