A Micro Project Report On

EMPLOYEE MANAGEMENT SYSTEM

Submitted to the CMR Institute of Technology in partial fulfilment of the requirement of the award of the laboratory of

PROBLEM SOLVING WITH C PROGRAM

I-B.Tech. I Semester

DEPARTMENT OF FRESHMAN ENGINEERING

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CMR INSTITUTE OF TECHNOLOGY

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(Approved by AICTE, Affiliated to JNTU, Kukatpally, Hyderabad)

Kandlakoya, Medchal Road, Hyderabad.

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CERTIFICATE

This is to certify that a Micro Project entitled with

"EMPLOYEE MANAGEMENT SYSTEM"

submitted by

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In partial fulfillment of the requirement for the award of the laboratory of PROBLEM SOLVING WITH C PROGRAMMING of I-B.Tech. I Semester in CSE(DATA SCIENCE) towards a record of Bonafide work carried out under guidance and supervision.

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TABLE OF CONTENTS

S.NO	CONTENTS	PAGE NO.
1.	INTRODUCTION	5
2.	DESCRIPTION	6
3.	RELATIONSHIP DIAGRAM	7
4.	SOURCE CODE	8 - 27
5.	OUTPUT	28 - 32
6.	DATA BASES	33 -34
7.	FUNCTIONS USED	35- 36
8.	REFERENCE	37

INTRODUCTION

Project Description:

Employee management system is a program to automate or computerize all employee management operations

Generally every company has different department systems (for example, accountant/admin/human resource/technical/vendors etc). for our project, consider the following departments. Due to the limited time we will not be implementing the feature of vendor department.

Employee management system is open to admins, managers and regular employees. Among all the user only admins have all privileges to access all information of EMS. So they can add or remove the emoployees, manager generates reports where as other user have limited access.once the users login they need to perform few tasks specific to their role.

Reports in emolyeement management system are categorized into different types of based on their roles.

NOTE: To make concept simple, assume the way we are storing all the information in binary files.

DESCRIPTION

1) Objective/ Vision:

This project is aimed at developing Employee Management System that allows to automate or computerize all employee management operations

2) Users of the System:

- Admins
- Employees
- Managers

3) Functional requirements

• Create initial setup which includes:

Generating employee information (adding/deleting/view employee information) Generating unique employee ID for each employee

- User management
- Role-based user menus

4) Non-functional requirements

- Simple UI
- Generic Coding

5) User interface priorities:

console

6) Reports to be generated:

- Reports for Admins
- Reports for Employees
- Reports for Managers

7) Technologies to be used:

C, and binary Files for storing data

8) Tools to be Used:

Dev C++

9) Final Deliverable must include:

- Create initial setup mentioned as above
- User management
- Role-based user menus

RELATIONSHIP DIAGRAM

ADMIN	MANAGER	EMPLOYEE
1.Add or delete admin 1.Add admin 2.Delete admin	1.Add or delete employee 1.Add employee 2.Delete employee	1.Employee list
2. Add or delete manager 1. Add manager 2. Delete manager	2. Manager list	2.log out
3.Add or delete employee 1.Add employee 2.Delete employee	3. Employee list	
4. Admin list	4.log out	
5. Manager list		
6. Employee list		
7. log out		

SOURCE CODE

```
#include <stdio.h >
#include < string.h>
#include < stdbool.h>
#include <stdlib.h>
#include <conio.h>
int p = 0, z = 0;
void admin();
void manager();
void employee();
void ainterface();
void minterface();
void einterface();
void A_D_admin();
void A_D_manager();
void A_D_employee();
void admin_list();
void manager_list();
void employee_list();
void main()
  int c;
  char w;
menu:
  clrscr();
  printf("\t\t********MENU*******\n");
  printf("\t1.ADMIN\n\t12.MANAGER\n\t13.EMPLOYEE\n");
  printf("\t\tEnter your choice: ");
  scanf("%d", &c);
  switch (c)
  case 1:
    admin();
    break;
  case 2:
    manager();
    break;
  case 3:
    employee();
    break:
  default:
    scanf("%c", &w);
```

```
printf("\t\tinvalid character\n\n ");
     printf("\t\tpress enter for 'try again' ");
    scanf("%c", &w);
     goto menu;
  }
void admin()
  FILE *admin_p;
  int i, c = 0, k = 1, n;
  char pw[6], pwi[6], id[6], ch[6], w;
  admin_p = fopen("/storage/emulated/0/EMS/admin.txt", "r");
  clrscr();
  if (admin_p == NULL)
     scanf("%c", &w);
     printf("\t\tAdmin list not found");
     scanf("%c", &w);
     main();
  }
  else
  admin:
     clrscr();
     printf("\t\t ADMIN LOGIN\n\n");
     printf("\t\tEnter admin id : ");
    scanf("%s", id);
     printf("\n");
     bool read_file = true;
     int c, line = 1;
     do
       fgets(ch, 6, admin_p);
       if (feof(admin_p))
          read_file = false;
}
       else
          c = 0:
          for (i = 0; i < 5; i++)
            if (ch[i] == id[i])
               c++;
```

```
if (line \% 3 == 0)
     k++;
  if (c == 5)
     break;
  line++;
} while (read_file);
rewind(admin_p);
if (c == 5)
pws:
  printf("\t\tEnter password [5 char] : ");
     scanf("%s", pw);
  bool read_file = true;
  line = 1;
  do
     fgets(ch, 6, admin_p);
     if (feof(admin_p))
       read_file = false;
     else
       c = 0;
       for (i = 0; i < 5; i++)
          if (ch[i] == id[i])
             c++;
     if (c == 5)
       fgets(pwi, 6, admin_p);
  } while (read_file);
  if (strcmp(pw, pwi) == 0)
```

```
scanf("%c", &w);
         printf("\n\t\tLogin successfull\n\n");
         printf("\t\tpress enter for admin interface");
          scanf("%c", &w);
          ainterface();
       }
       else
         printf("\t\tIncorrect Password\n\n");
          goto pws;
       }
     else
       scanf("%c", &w);
       printf("\t\tadmin not found\n\n");
       printf("\t\tpress enter for 'try again' ");
       scanf("%c", &w);
       goto admin;
  }
 fclose(admin_p);
void manager()
  FILE *manager_p;
  int i, c = 0;
  char pw[6], pwi[6], id[6], ch[6], w;
  manager_p = fopen("/storage/emulated/0/EMS/manager.txt", "r");
  system("cls");
  if (manager_p == NULL)
     printf("\t\tmanager list not found");
  else
  manager:
     system("cls");
     printf("\t\t MANAGER LOGIN\n\n");
     printf("\t\tEnter manager id : ");
     scanf("%s", id);
    printf("\n");
     bool read_file = true;
     int c, line = 1;
```

```
do
  fgets(ch, 6, manager_p);
  if (feof(manager_p))
    read_file = false;
  else
     c = 0;
     for (i = 0; i < 5; i++)
       if (ch[i] == id[i])
          c++;
  if (line \% 3 == 0)
     int k;
     k++;
  if (c == 5)
     break;
  line++;
} while (read_file);
rewind(manager_p);
if (c == 5)
pws:
  printf("\t\tEnter password [5 char]: ");
     scanf("%s", pw);
  bool read_file = true;
  line = 1;
  do
     fgets(ch, 6, manager_p);
     if (feof(manager_p))
       read_file = false;
```

```
else
            c = 0;
            for (i = 0; i < 5; i++)
               if (ch[i] == id[i])
                 c++;
          if (c == 5)
            fgets(pwi, 6, manager_p);
       } while (read_file);
       if (strcmp(pw, pwi) == 0)
          scanf("%c", &w);
          printf("\n\t\tLogin successfull\n\n");
          printf("\t\tpress enter for manager interfacr");
          scanf("%c", &w);
          minterface();
       else
          printf("\t\tIncorrect Password\n\n");
          goto pws;
     else
       scanf("%c", &w);
       printf("\t\manager not found\n\n");
       printf("\t\tpress enter for 'try again' ");
       scanf("%c", &w);
       goto manager;
  fclose(manager_p);
void employee()
  FILE *employee_p;
  int i, c = 0;
```

```
char pw[6], pwi[6], id[6], ch[6], w;
employee_p = fopen("/storage/emulated/0/EMS/employee.txt", "r");
system("cls");
if (employee_p == NULL)
  printf("\t\temployee list not found");
else
employee:
  system("cls");
  printf("\t\t EMPLOYEE LOGIN\n\n");
  printf("\t\tEnter employer id : ");
scanf("%s", id);
  printf("\n");
  bool read_file = true;
  int c, line = 1;
  do
     fgets(ch, 6, employee_p);
     if (feof(employee_p))
       read_file = false;
     else
       for (i = 0; i < 5; i++)
          if (ch[i] == id[i])
            c++;
     if (line \% 3 == 0)
       int k;
       k++;
     if (c == 5)
       break;
     line++;
  } while (read_file);
```

```
rewind(employee_p);
if (c == 5)
pws:
  printf("\t\tEnter password [5 char] : ");
     scanf("%s", pw);
  bool read_file = true;
  line = 1;
  do
     fgets(ch, 6, employee_p);
    if (feof(employee_p))
       read_file = false;
     else
       c = 0;
       for (i = 0; i < 5; i++)
          if (ch[i] == id[i])
            c++;
     if (c == 5)
       fgets(pwi, 6, employee_p);
  } while (read_file);
  if (strcmp(pw, pwi) == 0)
     scanf("%c", &w);
     printf("\n\t\tLogin successfull\n\n");
     printf("\t\tpress enter for employee menu");
     scanf("%c", &w);
     einterface();
  }
  else
     printf("\t\tIncorrect Password\n\n");
     goto pws;
```

```
else
       scanf("%c", &w);
       printf("\temployee not found\n'n");
       printf("\t\tpress enter for 'try again' ");
       scanf("%c", &w);
       goto employee;
  }
  fclose(employee_p);
void ainterface()
  int c, w;
ad_admin:
  clrscr();
  printf("\t\t*** ADMIN MENU ***\n\n");
  printf("\t\t1.Add or Delete Admin\n");
  printf("\t\t2.Add or Delete Manager\n");
  printf("\t\t3.Add or Delete Employee\n");
  printf("\t\t4.Admin list\n");
  printf("\t\t5.Manager list\n");
  printf("\t\t6.Employee list\n");
  printf("\t1.Log out\n");
  printf("\t\tEnter your choice : ");
  scanf("%d", &c);
  switch (c)
  case 1:
     A_D_admin();
    break;
  case 2:
     A_D_manager();
    break;
  case 3:
     p = 1;
     A_D_employee();
     break;
  case 4:
     admin_list();
     break;
  case 5:
     z = 1;
     manager_list();
     break;
```

```
case 6:
     z = 1;
     employee_list();
     break;
  case 7:
     main();
     break:
  default:
     printf("\t\tinvalid character\n\n");
    printf("\t\tpress 1 for try again");
    scanf("%d", &w);
     goto ad_admin;
void minterface()
  int c, w;
ad_manager:
  clrscr();
  printf("\t\t*** MANAGER MENU ***\n\n");
  printf("\t\t1.Add or Delete Employee\n");
  printf("\t\t2.Manager List\n");
  printf("\t\t3.Employee List\n");
  printf("\t4.Log out\n");
  printf("\t\tenter your choice : ");
  scanf("%d", &c);
  switch (c)
  case 1:
    p = 2;
     A_D_employee();
    break:
  case 2:
     z = 2;
    manager_list();
    break;
  case 3:
     z = 2;
     employee_list();
     break;
  case 4:
     main();
     break;
  default:
     printf("\t\tinvalid character\n");
    printf("\t\tpress 1 for manager menu");
```

```
scanf("%d", &w);
     goto ad_manager;
  }
void einterface()
  int c;
  char w;
ad_employee:
  system("cls");
  printf("\t\t*** EMPLOYEE MENU ***\n\n");
  printf("\t\t1.Employee List\n");
  printf("\t \cdot 1.00 \text{ out} \cdot n');
  printf("\t\tenter choice : ");
  scanf("%d", &c);
  switch (c)
  {
  case 1:
     z = 3;
     employee_list();
    break;
  case 2:
     main();
     break;
  default:
     scanf("%c", &w);
    printf("\t\tinvalid character\n");
     scanf("%c", &w);
     goto ad_employee;
  }
void A_D_admin()
  FILE *admin_p, *copy;
  char id[6], pw[6], add[6];
  int ch, w, i;
  admin_p = fopen("/storage/emulated/0/EMS/admin.txt", "r+");
 if (admin_p == NULL)
     printf("Error opening file.\n");
     return;
a1:
  clrscr();
  printf("\t\t----\n");
  printf("\t\t1.Add Admin\n\t\t2.Delete Admin\n\n");
```

```
printf("\t\tenter your choice: ");
scanf("%d", &ch);
printf("\n");
if (ch == 1 || ch == 2)
  if (ch == 1)
     clrscr();
     printf("\t\t1. Add Admin\n");
     printf("\t\tCreate admin ID: ");
     scanf("%s", id);
     fseek(admin_p, 0, 2);
     int i = 0;
     while (fgets(add, 6, admin_p))
       add[strcspn(add, "\n")] = 0;
       if (strcmp(add, id) == 0)
          i = 1;
          break;
     if (i == 1)
       printf("\t\Admin ID already exists\n");
       printf("\t\tPress any key to try again...\n");
       scanf("%d", &w);
       goto a1;
     printf("\t\tCreate password: ");
     scanf("%s", pw);
     fseek(admin_p, 0, 2);
     fflush(stdin);
     fprintf(admin_p, "\n%s", id);
     fprintf(admin_p, "%s", pw);
     printf("\n\t\Admin added\n\n");
     printf("\t\tPress 1 for admin menu\n");
     scanf("%d", &w);
     ainterface();
  else if (ch == 2)
     printf("\t\t2.Delete admin\n'n");
     char temp[] = "/storage/emulated/0/EMS/modified.txt", c;
     copy = fopen(temp, "w");
     printf("\t\tenter admin id : ");
```

```
scanf("%s", id);
       do
         fgets(add, 6, admin_p);
         if (strcmp(add, id) == 0)
            continue;
         else
            fputs(add, copy);
         if (feof(admin_p))
            break;
       \} while (i == 1);
       fclose(admin_p);
       remove("/storage/emulated/0/EMS/admin.txt");
        rename("/storage/emulated/0/EMS/modified.txt","/storage/emulated/0/EMS/admin.txt");
       printf("\n\t\deleted successfully\n\n");
       printf("\t\tpress 1 admin menu");
       scanf("%d", &w);
       ainterface();
  else
    printf("\t\tinvalid character");
    scanf("%d", &w);
    goto a1;
}
void A_D_manager()
  FILE *manager_p, *copy;
  char id[6], pw[6], add[6], pwi[6];
  int i = 1, ch, w;
  manager_p = fopen("/storage/emulated/0/EMS/manager.txt", "a+");
a1:
clrscr();
  printf("\t\t----\n");
  printf("\t\t1.Add Admin\n\t\t2.Delete Admin\n\n");
  printf("\t\tenter your choice: ");
  scanf("%d", &ch);
```

```
printf("\n");
if (ch == 1 || ch == 2)
  if (ch == 1)
     clrscr();
     printf("\t 1. Add Msnager\n'");
     printf("\t\tCreate manager ID: ");
     scanf("%s", id);
     fseek(manager_p, 0, 2);
     int i = 0;
     while (fgets(add, 6, manager_p))
       add[strcspn(add, "\n")] = 0;
       if (strcmp(add, id) == 0)
          i = 1;
          break;
     if (i == 1)
       printf("\t\tManager ID already exists\n");
       printf("\t\tPress any key to try again...\n");
       scanf("%d", &w);
       goto a1;
     printf("\t\tCreate password: ");
     scanf("%s", pw);
     fseek(manager_p, 0, 2);
     fprintf(manager_p, "\n%s", id);
     fprintf(manager_p, "%s", pw);
     printf("\n\t\Manager added\n\");
     printf("\t\tPress 1 for manager menu\n");
     scanf("%d", &w);
     ainterface();
  else if (ch == 2)
     printf("\t\t2.Delete Manager\n'");
     char temp[] = "/storage/emulated/0/EMS/modified.txt", c;
     copy = fopen(temp, "w");
     printf("\t\tenter manager id : ");
     scanf("%s", id);
     do
```

```
fgets(add, 6, manager_p);
          if (strcmp(add, id) == 0)
            continue;
          else
            fputs(add, copy);
         if (feof(manager_p))
            break;
       \} while (i == 1);
       fclose(manager_p);
       remove("/storage/emulated/0/EMS/manager.txt");
      rename("/storage/emulated/0/EMS/modified.txt","/storage/emulated/0/EMS/manager.txt");
       printf("\n\t\tdeleted successfully\n\n");
       printf("\t\tpress 1 admin menu");
       scanf("%d", &w);
       ainterface();
  else
     printf("\t\tinvalid character");
     scanf("%d", &w);
     goto a1;
  }
void A_D_employee()
  FILE *employee_p, *copy;
  char id[6], pw[6], add[6], pwi[6];
  int i = 1, ch, w;
  employee_p = fopen("/storage/emulated/0/EMS/employee.txt", "a+");
a1:
clrscr();
  printf("\t\t----\n");
  printf("\t\t1.Add Employer\n\t\t2.Delete Employee\n\n");
  printf("\t\tenter your choice: ");
  scanf("%d", &ch);
  printf("\n");
  if (ch == 1 || ch == 2)
```

```
if (ch == 1)
  clrscr();
  printf("\t \1. Add Employer\n'");
  printf("\t\tCreate Employee ID: ");
  scanf("%s", id);
  fseek(employee_p, 0, 2);
  int i = 0;
  while (fgets(add, 6, employee_p))
     add[strcspn(add, "\n")] = 0;
    if (strcmp(add, id) == 0)
       i = 1;
       break;
  if (i == 1)
    printf("\t\tEmployee ID already exists\n");
    printf("\t\tPress any key to try again...\n");
    scanf("%d", &w);
     goto a1;
  printf("\t\tCreate password: ");
  scanf("%s", pw);
  fseek(employee_p, 0, 2);
  fprintf(employee_p, "\n%s", id);
  fprintf(employee_p, "%s", pw);
 printf("\n\t Employer added\n');
  if (p == 1)
     printf("\t\tpress 1 for admin menu");
    scanf("%d", &w);
     ainterface();
  if (p == 2)
    printf("\t\tpress 1 for manager menu");
    scanf("%d", &w);
     minterface();
else if (ch == 2)
  clrscr();
```

```
printf("\t\t2.Delete Employee\n\n");
     char temp[] = "/storage/emulated/0/EMS/modified.txt", c;
     copy = fopen(temp, "w");
     printf("\t\tenter employer id : ");
     scanf("%s", id);
     do
       fgets(add, 6, employee_p);
       if (strcmp(add, id) == 0)
         continue;
       else
          fputs(add, copy);
       if (feof(employee_p))
          break;
     \} while (i == 1);
     fclose(employee_p);
     remove("/storage/emulated/0/EMS/admin.txt");
     rename("/storage/emulated/0/EMS/modified.txt", "/storage/emulated/0/EMS/admin.txt");
     printf("\n\t\tdeleted successfully\n\n");
     if (p == 1)
       printf("\t\tpress 1 for admin menu");
       scanf("%d", &w);
       ainterface();
     if (p == 2)
       printf("\t\tpress 1 for manager menu");
       scanf("%d", &w);
       minterface();
else
  printf("\t\tinvalid character");
  scanf("%d", &w);
  goto a1;
```

```
}
void admin_list()
  FILE *admin_p;
  char id[6], pw[6], spa[6];
  int x = 1, i = 1, m = 0, w;
  admin_p = fopen("/storage/emulated/0/EMS/admin.txt", "r");
  system("cls");
  printf("\t----\n\n");
  printf("\t\tADMIN ID's LIST\n\n");
  printf("\t----\n\n");
  printf("\t\tID's\t\tpassword\n");
  printf("\t----\n");
 while (x == 1)
    fgets(id, 6, admin_p);
    if (i % 3!=0)
      printf("\t \s'', id);
      m++;
      if (m \% 2 == 0)
        printf("\n");
        m = 0;
    if (feof(admin_p))
      break;
    i++;
  fclose(admin_p);
  printf("\n\n\n\tpress enter to go to admin menu");
  scanf("%d", &w);
  ainterface();
void manager_list()
  FILE *manager_p;
  char id[6];
  int x = 1, i = 1, m = 0, w;
  manager_p = fopen("/storage/emulated/0/EMS/manager.txt", "r");
  system("cls");
  printf("\t----\n\n");
  printf("\t\tMANAGER ID's LIST\n\n");
```

```
printf("\t----\n\n");
  printf("\t\tID's\t\tpassword\n");
  printf("\t----\n");
  while (x == 1)
    fgets(id, 6, manager_p);
    if (i % 3!=0)
      printf("\t\t%s", id);
      m++;
      if (m \% 2 == 0)
        printf("\n");
        m = 0;
      }
    if (feof(manager_p))
      break;
    i++;
  fclose(manager_p);
  if (z == 1)
  {
    printf("\n\n\tpress 1 for admin menu");
    scanf("%d", &w);
    ainterface();
  if (z == 2)
    printf("\n\n\tpress 1 for manager menu");
    scanf("%d", &w);
    minterface();
void employee_list()
  FILE *employee_p;
  char id[6];
  int x = 1, i = 1, m = 0, w;
  employee_p = fopen("/storage/emulated/0/EMS/employee.txt", "r");
  system("cls");
  printf("\t----\n\n");
  printf("\t\tEMPLOYEE ID's LIST\n\n");
  printf("\t----\n");
  printf("\t\tID's\t\tpassword\n");
  printf("\t----\n"):
```

```
while (x == 1)
    fgets(id, 6, employee_p);
    if (i % 3 != 0)
      printf("\t\t%s", id);
       m++;
      if (m \% 2 == 0)
         printf("\n");
         m = 0;
       }
    if (feof(employee_p))
       break;
    i++;
  fclose(employee_p);
  if (z == 1)
  {
    printf("\n\n\n\tpress 1 for admin menu");
    scanf("%d", &w);
    ainterface();
  if (z == 2)
    printf("\n\n\n\tpress 1 for manager menu");
    scanf("%d", &w);
    minterface();
  if (z == 3)
    printf("\n\n\tpress 1 for employee menu");
    scanf("%d", &w);
    einterface();
}
```

TOTAL LINES = 937

OUTPUT

1. MENU

2. MENU FOR INCORRECT CHOICE

3. ADMIN LOGIN

ADMIN LOGIN

Enter admin id : 11220

Enter password [5 char] : ge64g

Login successfull

press enter for admin interface

4. MANAGER LOGIN

MANAGER LOGIN

Enter manager id : 22440

Enter password [5 char] : y78kh

Login successfull

press enter for manager interfacr

5. EMPLOYEE LOGIN

EMPLOYEE LOGIN

Enter employer id : 33330

Enter password [5 char] : hg87j

Login successfull

press enter for employee menu

6. ADMIN MENU

*** ADMIN MENU ***

1.Add or Delete Admin

2.Add or Delete Manager

3.Add or Delete Employee

4.Admin list

5.Manager list

6.Employee list

7.Log out

Enter your choice :

7. MANAGER MENU

```
*** MANAGER MENU ***

1.Add or Delete Employee

2.Manager List

3.Employee List

4.Log out

enter your choice :
```

8. EMPLOYEE MENU

```
*** EMPLOYEE MENU ***

1.Employee List
2.Log out

enter choice :
```

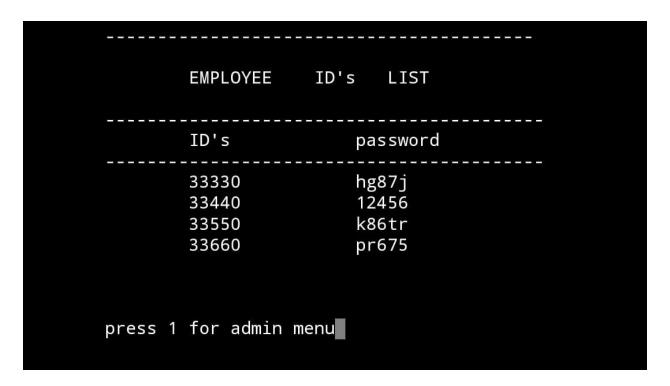
9. ADMIN LIST

ADMI	N ID's	LIST
ID's		password
1133	0	a55d7
1122	0	ge64g
1111	0	12323
2499	0	pavan
8897	2	foods
press enter	to go to ac	dmin menu
	0	_

10. MANAGER LIST

	MANAGER	ID's LIST	
	ID's	password	
	22330 22440 22550 22660 22770 22880	dr67g y78kh 1q2w3 awse4 de67y fhd87	
press 1	for admin	menu	

11. EMPLOYEE LIST



12. ADD ADMIN

1. Add Admin

Create admin ID: 87887 Create password: 12gf6

Admin added

Press 1 for admin menu

13. DELETE ADMIN

2.Delete admin

enter admin id : 11220

deleted successfully

press 1 admin menu

DATA BASES

A data base is a structured collection of data that is stored electronically. It can contain tiny type of data, such as words, numbers, images, videos, and files.

CREATING OF DATA BASE FOR OUR PROJECT:

- 1. Creating files in the hard disc in text mode
- 2. Create a file name for each of the admin ,manager and employee
- 3. Name the files as admin.txt ,manager.txt and employee.txt
- **4.** Note the path of the file of each file and it should be written in file pointer of their respective file pointer names.
- **5.** File paths will vary depending on the device and storage location.so be knowing your file path you need to edit the source code.

EXAMPLE:

Path of admin.txt:/ storage/emulated/0/EMS/admin.txt

File pointer : admin_p

Decleration of file pointer variable

admin_p = fopen("/storage/emulated/0/EMS/admin.txt","r");

STRUCTURE OF DATA BASE

1. Each line in text file will indicate details of each individual person in the company

EXAMPLE TEXT FILE:

Admin.txt

11330a55d7 11220ge64g 1111012323 24990pavan 88972foods

2. Since the text fie is admin so each line in the file will indicate the details of each individual admin in a company.

READING FILE:

- **1.** File contains 5 digits and 5 characters as the details of an admin.
- 2. 5 digits are to be written in the beginning which indicates id of the admin
- **3.** 5 characters are to be written after this, which indicates password of the admin. (caution: no gap should be in between id and password)
- **4.** Including of gap make string to read wrong value from the file

Manager.txt

22330dr67g 22440y78kh 225501q2w3 22660awse4 22770de67y 22880fhd87

Employee.txt

33330hg87j 3344012456 33550k86tr 33660pr675

FUNCTIONS USED

USER DEFINED FUNCTIONS:

1. void admin() : for login of admin. 2. void manager() :for login of manager 3. void employee() :for login of employee 4. void ainterface() :for printing admin menu 5. void minterface() : for printing manager menu : for printing employee menu 6. void einterface() : program for add/delete admin 7. void A_D_admin() 8. void A_D_manager() : program for add/delete manager 9. void A_D_employee() : program for add/delete employee

10. void admin_List() : program for printing list of admin IDs and passwords

From the file on the moniter.

11. void manager_List() : program for printing list of manager IDs and passwords

From the file on the moniter

12. void employee_List () : program for printing the List of employee id's and

password's from the file, on the monitor.

13. void main() : for running the program.

HEADER FILE LIST:

- 1. stdio.h
- 2. conio.h
- 3. string.h
- 4. stdlib.h
- 5. stdbool.h

Functions Used:

1. stdio.h

printf(), scanf(), fopen(), fclose(), fprintf(), fscanf(), fputs(), fgets(), fseek(), feof(),
rewind().

2. conio.h:

clrscr()

3. String.h:

strcmp(), strcspn()

4. stdlib.h:

system("cls"), remove(),rename().

5. stdbool.h:

Bool.

Details of some functions:

1. strcspn():

* It calculates the length of the number of characters before the 1st occurrence of character present in both the strings.

SYNTAX:

strcspn(const char *str1, const char *str2);

- 2. system("cls");
- * It clears the output screen and prints the next statement on the screen.
- * It is the same as clrscr().
- * But, the main difference between clrscr() and system("cls") is:
- * clrscr() is available on Unix and Unix-like operating systems, while system("cls") is available on Windows.
 - 3. remove(): To delete a given file.
 - **4. rename():** To change the name of a file.
 - **5. bool** : bool is a keyword used to declare a boolean variable.

SCOPE:

By changing few lines in the program, the program could satisfy user requirement according to user

REFERENCE

- Problem solving and program design in c text book
 "Let us c" book