JAYPEE INSTITUTE OF INFORMATION AND TECHNOLOGY

DATA STRUCTURE LAB [15B17CI371]

Project on : Employee Management System

Batch: B9

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Introduction -

The Employee Management System provides a system that manages the employee details. This program can provide a list of all employees, edit their information, etc. To create this project we have used concepts of Function, Switch Case, Loops, Conditional Statements , Doubly Linked list and Strings functions in the C++ Language.

In this Program, Employees have to enter a password to authorize themselves at first. This feature increases the security level of the Employee
Management System. All the information will be securely stored in a text file.

Objective –

● This project aims at developing a program that could manage the employee database of a company.
● This code will make it easier for employees to access information about their colleagues.
● Admin can modify and view details of employees.
● To create a secure database for company we have added a layer of security by asking password authentication.

Results and Disscussion-
Outputs –
Introduction screen-

We have created these patterns on the Introduction screen with the help of this website Text to ASCII.
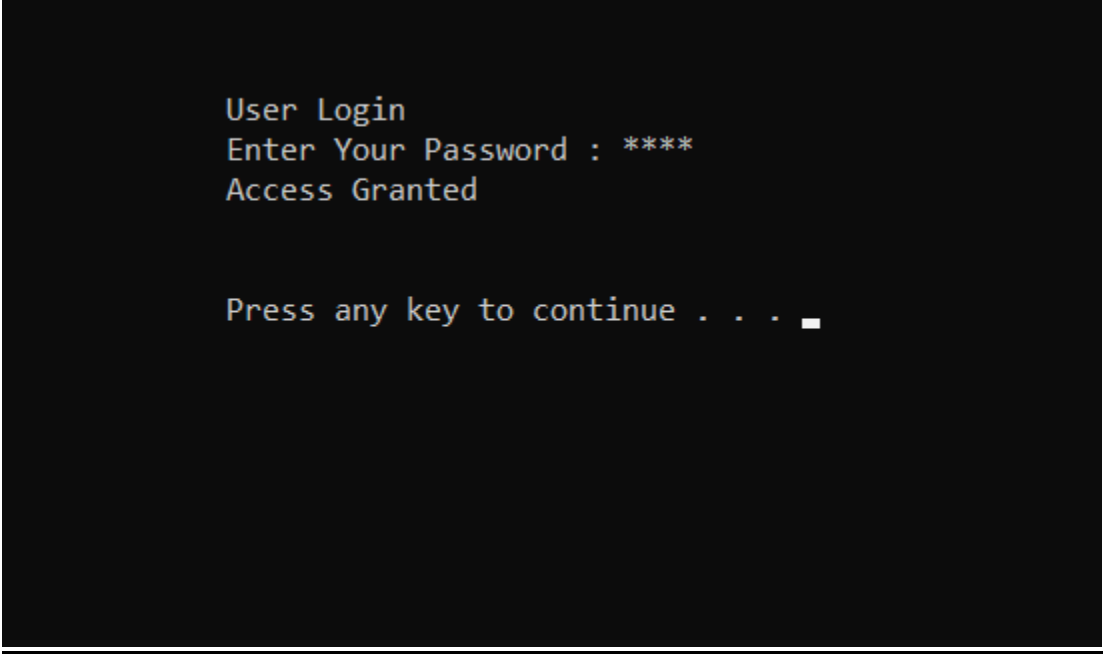

<u>Authentication Screen-</u>
For Employer
Password :-1234

For Employee
Password:-0000

```
User Login
Enter Your Password : ****
Access Granted


Press any key to continue . . . _
```

Main Menu(For Employer)-

In the main menu, there are eight menu which we have created with the help of switch case statement. The functions of every option are discussed below.

```
< < < < Employee Management System > > > >
                  For Employer


      ========================================
      | |                                  | |
      | |            MAIN MENU             | |
      | |                                  | |
      | |  1. Insert n number of Data      | |
      | |  2. View List of Employees       | |
      | |  3. View Employee Details        | |
      | |  4. Modify Existing Employee Details | |
      | |  5. Add New Employee Details     | |
      | |  6. Remove an Employee Details   | |
      | |  7. Go Back to Login Page        | |
      | |  8. Exit                         | |
      | |                                  | |
      | |                                  | |
      ========================================

   Enter The Option:
```

1.Insert n number of data :-

Here we entered details of 4 employees

```
ENTER DATA FOR EMPLOYEE 4


_____

 Enter Employee ID [max 4 digits]: 114

--------------------------------------------
 Enter First Name of Employee    : Sankalp

--------------------------------------------
 Enter Department                : Biotech

--------------------------------------------
 Enter Designation               : Clerk

--------------------------------------------
 Enter Employee Salary           : 8000

--------------------------------------------
 Enter Employee Phone No         : 949494949

--------------------------------------------
 Enter Employee Password         : 4433_
```

2.View list of Employees :-

Here we show details of all employees Which are sorted on the basis of their Employee ID

```
LIST OF EMPLOYEE
----------------------------------------------------------
Emp ID  Name     Dept    Desg     Salary  Phone No.
----------------------------------------------------------
111      Saksham CSE      CEO      10000    919191919
112      Nikhil  IT       Manager 9000     929292929
113      Ayush   ECE      Manager 9000     939393939
114      Sankalp Biotech Clerk    8000     949494949
----------------------------------------------------------
Total Number of Employees = 4

Press any key to continue . . . _
```

3.View Employee Details :-

Here we can get the employee details by entering his Employee ID

```
Enter an Employee ID: 111

Name        : Saksham
Department : CSE
Designation: CEO
Salary      : 10000
Phone No.   : 919191919

Press any key to continue . . . _
```

4.Modify Existing Employee Details :-

Here we can modify Employee details by entering his Employee ID

```
Enter an Employee ID: 114

----------------------------------------
Enter First Name of Employee    : Sankalp

----------------------------------------
Enter Department                : Biotech

----------------------------------------
Enter Designation               : Manager

----------------------------------------
Enter Employee Salary           : 9000

----------------------------------------
Enter Employee Phone No         : 9494949_
```

5.Enter new Employee Details :-

Here we can add new Employee

```
Enter Employee ID [max 4 digits]: 115

------------------------------------
Enter First Name of Employee    : Xyz

------------------------------------
Enter Department                : Civil

------------------------------------
Enter Designation               : Worker

------------------------------------
Enter Employee Salary           : 6000

------------------------------------
Enter Employee Phone No         : 959595959

------------------------------------
Enter Employee Password         : 5555
```

6.Remove an Employee Detail :-

```
========================================
| |                                    | |
| |              MAIN MENU             | |
| |                                    | |
| |   1. Delete Data at Start          | |
| |   2. Delete Data at End            | |
| |   3. Delete Data by Employee ID    | |
| |   4. Back to Main Menu             | |
| |                                    | |
| |                                    | |
========================================

Enter The Option:
```

By this we can delete the employee on three basis
1.Person with min. Employee Id(who joins first).
2.Person with max. Employee Id(who joins last).
3.On the basis of their Employee Id.

```
Enter an Employee ID: 115
115 Xyz Civil Worker 6000.00 959595959
is deleted..

Press any key to continue . . . _
```

After deleting data

```
LIST OF EMPLOYEE
---------------------------------------------------------
Emp ID  Name     Dept     Desg      Salary  Phone No.
---------------------------------------------------------
111     Saksham  CSE      CEO       10000   919191919
112     Nikhil   IT       Manager   9000    929292929
113     Ayush    ECE      Manager   9000    939393939
114     Sankalp  Biotech  Manager   9000    9494949
---------------------------------------------------------
Total Number of Employees = 4

Press any key to continue . . . _
```

7.Go Back to login page :-

Takes us back to login page

```
    User Login
    Enter Your Password : _
```

8.Exit :-

Exit From program

Main Menu(For Employee)-

In the main menu, we have five option here

```
   < < < < Employee Management System > > > >
                   For Employee


    ==========================================
   | |                                        | |
   | |              MAIN MENU                  | |
   | |                                         | |
   | |   1. View List of Employees             | |
   | |   2. View Employee Details              | |
   | |   3. Modify Existing Employee Details   | |
   | |   4. Go Back to Login Page              | |
   | |   5. Exit                               | |
   | |                                         | |
   | |                                         | |
    ==========================================

   Enter The Option:
```

1. View List of Employees :-

Here we cannot see salaries of Employees

```
LIST OF EMPLOYEE
------------------------------------------------
Emp ID  Name     Dept     Desg      Phone No.
------------------------------------------------
111      Saksham CSE      CEO       919191919
112      Nikhil  IT       Manager 929292929
113      Ayush   ECE      Manager 939393939
114      Sankalp Biotech Manager 9494949
------------------------------------------------
Total Number of Employees = 4

Press any key to continue . . .
```

2.View Employee Details :-

We can see Employee details by entering Employee Id

```
Enter an Employee ID: 111

Name       : Saksham
Department : CSE
Designation: CEO
Phone No.  : 919191919

Press any key to continue . . .
```

3.Modify Existing Employee details :-

By entering Employee Id and Password

```
Enter an Employee ID: 114
Enter Password      : 4433

-----------------------------------------
Enter First Name of Employee     : Sankalp

-----------------------------------------
Enter Department                 : Biotech

-----------------------------------------
Enter Designation                : Manager

-----------------------------------------
Enter Employee Salary            : 9000

-----------------------------------------
Enter Employee Phone No          : 949404949

-----------------------------------------
Enter Employee Password          : 4433
```

4.Go back to login page :-

```
        User Login
        Enter Your Password :
```

5.Exit
Exit from program

Conclusion-
This project is developed using C++ and it fully meets the objective of
the system which it has been developed. This project is used for
computerizing employee management work in offices, schools, etc. The
software keeps
record of employee's details and can edit or remove their information.
The software is capable of easy storage of information related to
employees through the database.

References-
- Geeks For Geeks
- Text to ASCII