# Shaheed Zulfikar Ali Bhutto Institute of Science & Technology

**COMPUTER SCIENCE DEPARTMENT**

**Object Oriented Programming (Lab)**

**Lab project**

Submitted To:

x

Group Members:

x

Project Title:

Employee Management System

Functionality:

* + - * + View List of Employees
        + View Employee Details
        + Modify Existing Employee Details
        + Add New Employee Details
        + Remove an Employee Details
        + Produces Sound (while you enter correct or wrong information)
        + Display Color Screen

Working:

* + - * + List of Employees
        + View Details
        + Modify Details
        + Add New Data
        + Delete Existing Data

CODE:

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| --- |
| *#include<iostream>*  *#include<conio.h>*  *#include<windows.h>*  *using namespace std;*  *class employee*  *{*  *private:*  *char name[30];*  *char id[5];*  *char designation[10];*  *int age;*  *int salary;*  *int experience;*  *void waitForEnter(void)*  *{*  *cout<<"\n\n\n Press enter to go back \n\n";*  *cin.get();*  *cin.get();*  *}*    *void listEmployees(void)*  *{*  *system("cls");*  *FILE \*file;*  *file= fopen("data.txt", "r");*  *cout<<"\n\t List of Employees\n";*  *cout<<"\n----------------------------------------------";*  *cout<<"\n NAME | ID | DESIGNATION\n";*  *cout<<"----------------------------------------------";*  *while(fscanf(file, "%s %s %s %d %d %d", &name[0], &id[0] , &designation[0], &age, &salary, &experience)!= EOF)*  *cout<<"\n"<<name<<"\t\t"<<id<<"\t\t"<<designation;*  *fclose(file);*  *waitForEnter();*  *}*  *void showDetails(void)*  *{*  *system("cls");*  *FILE \*file;*  *char checkId[5];*  *cout<<"\n\nEnter Employee ID: ";*  *cin>>checkId;*  *file= fopen("data.txt", "r");*  *while(fscanf(file, "%s %s %s %d %d %d", &name[0], &id[0] , &designation[0], &age, &salary, &experience)!=EOF)*  *if(strcmp(checkId,id)==0){*  *cout<<"\n---------------------";*  *cout<<"\nName: "<<name;*  *cout<<"\n---------------------";*  *cout<<"\nId: "<<id;*  *cout<<"\n---------------------";*  *cout<<"\nDesignation: "<<designation;*  *cout<<"\n---------------------";*  *cout<<"\nAge: "<<age;*  *cout<<"\n---------------------";*  *cout<<"\nSalary: "<<salary;*  *cout<<"\n---------------------";*  *cout<<"\nExperience: "<<experience;*  *cout<<"\n---------------------";*  *}*  *fclose(file);*  *waitForEnter();*  *}*  *void editExisting(void)*  *{*  *system("cls");*  *char checkId[5];*  *cout<<"\nEnter employee id: ";*  *cin>>checkId;*  *char newDesignation[10];*  *cout<<"\n-----------------------------";*  *cout<<"\nEnter new designation: ";*  *cin>>newDesignation;*  *int newsalary;*  *cout<<"------------------------------";*  *cout<<"\nEnter new Salary: ";*  *cin>>newsalary;*  *FILE \*file, \*tempfile;*  *file= fopen("data.txt", "r");*  *tempfile= fopen("temp.txt", "w");*  *while(fscanf(file, "%s %s %s %d %d %d", &name[0], &id[0] , &designation[0], &age, &salary, &experience)!=EOF){*  *if(strcmp(checkId, id)==0)*  *fprintf(tempfile, "%s %s %s %d %d %d \n", name, id, newDesignation, age, newsalary, experience );*  *else*  *fprintf(tempfile, "%s %s %s %d %d %d \n", name, id, designation, age, salary, experience );*  *}*  *fclose(file);*  *fclose(tempfile);*  *int isRemoved= remove("data.txt");*  *int isRenamed= rename("temp.txt", "data.txt");*  *waitForEnter();*  *}*  *void addNewEmployee(void)*  *{*  *system("cls");*  *cout<<"\n----------------------------------------";*  *cout<<"\n Enter First Name of Employee: ";*  *cin>>name;*  *cout<<"\n----------------------------------------";*  *cout<<"\n Enter Employee ID [max 4 digits]: ";*  *cin>>id;*  *cout<<"\n----------------------------------------";*  *cout<<"\n Enter Designation: ";*  *cin>>designation;*  *cout<<"\n----------------------------------------";*  *cout<<"\n Enter Employee Age: ";*  *cin>>age;*  *cout<<"\n----------------------------------------";*  *cout<<"\n Enter Employee Salary: ";*  *cin>>salary;*  *cout<<"\n----------------------------------------";*  *cout<<"\n Enter Employee Experience: ";*  *cin>>experience;*  *cout<<"\n----------------------------------------";*  *char ch;*  *cout<<"\nEnter 'y' to save above information\n";*  *cin>>ch;*  *if(ch=='y'){*  *FILE \*file;*  *file= fopen("data.txt","a");*  *fprintf(file, "%s %s %s %d %d %d \n", name, id, designation, age, salary, experience );*  *fclose(file);*  *cout<<"\nNew Employee has been added to database\n";*  *}*  *else*  *addNewEmployee();*  *waitForEnter();*  *}*  *void deleteEmployeeDetails(void)*  *{*  *system("cls");*  *char checkId[5];*  *cout<<"\n----------------------------------";*  *cout<<"\nEnter Employee Id To Remove: ";*  *cin>>checkId;*  *char ch;*  *cout<<"----------------------------------";*  *cout<<"\n\n\n\n\nCONFIRMATION\nEnter 'y' To Confirm Deletion \n";*  *cin>>ch;*  *if(ch=='y'){*  *FILE \*file, \*tempfile;*  *file= fopen("data.txt", "r");*  *tempfile= fopen("temp.txt", "w");*  *while(fscanf(file, "%s %s %s %d %d %d", &name[0], &id[0] , &designation[0], &age, &salary, &experience)!=EOF)*  *if(strcmp(checkId, id)!=0)*  *fprintf(tempfile, "%s %s %s %d %d %d \n", name, id, designation, age, salary, experience );*  *fclose(file);*  *fclose(tempfile);*  *int isRemoved= remove("data.txt");*  *int isRenamed= rename("temp.txt", "data.txt");*  *cout<<"\nRemoved Successfully\n";*  *waitForEnter();*  *}*  *else*  *deleteEmployeeDetails();*  *}*  *public:*  *void options(void)*  *{*  *int login();*  *login();*  *while(true){*  *system("cls");*    *cout<<"\n\t\t\t>>>>>>>>> EMPLOYEE MANAGEMENT SYSTEM <<<<<<<<<";*  *cout<<"\n";*  *cout<<"\n\t\t\t------------------------------------------------";*  *cout<<"\n\t\t\tENTER 1: To View List of Employees";*  *cout<<"\n\t\t\t------------------------------------------------";*  *cout<<"\n\t\t\tENTER 2: To View Employee Details";*  *cout<<"\n\t\t\t------------------------------------------------";*  *cout<<"\n\t\t\tENTER 3: To Modify Existing Employee Details";*  *cout<<"\n\t\t\t------------------------------------------------";*  *cout<<"\n\t\t\tENTER 4: To Add New Employee Details";*  *cout<<"\n\t\t\t------------------------------------------------";*  *cout<<"\n\t\t\tENTER 5: To Remove an Employee Details";*  *cout<<"\n\t\t\t------------------------------------------------";*  *cout<<"\n\t\t\tENTER 0: To Exit ";*  *cout<<"\n\t\t\t------------------------------------------------";*  *cout<<"\n\n\t\t\t Please Enter Your Choice: ";*  *int choice;*  *cin>>choice;*  *switch (choice) {*  *case 0:*  *system("CLS");*  *system("Color 04");*  *cout<<"\n\nEMPLOYEE MANAGEMENT SYSTEM \n\nMade By Team 007\n\n ";*  *Sleep(10);*  *return;*  *case 1:*  *listEmployees();*  *break;*  *case 2:*  *showDetails();*  *break;*  *case 3:*  *editExisting();*  *break;*  *case 4:*  *addNewEmployee();*  *break;*  *case 5:*  *deleteEmployeeDetails();*  *break;*  *default:*  *cout<<"\n Sorry! I don't understand that! \n";*  *break;*  *}*  *}*  *}*  *};*  *int main()*  *{*  *employee e;*  *e.options();*  *return 0;*  *}*  *int login()*  *{*  *string pass ="";*  *char ch;*  *cout <<"\n\n\n\n\t\t\t\t\tEMPLOYEE MANAGEMENT SYSTEM";*  *cout <<"\n\n\n\n\n\t\t\t\t\tEnter Your Password :";*  *ch = \_getch();*  *while(ch != 13)*  *{\*  *pass.push\_back(ch);*  *cout << '\*';*  *ch = \_getch();*  *}*  *if(pass == "team007")*  *{*  *system("Color 0A");*  *cout<<"\n\n\n\t\t\t\t\tLOADING \n\t\t\t\t\t";*  *for(int a=1;a<8;a++)*  *{*  *Sleep(500);*  *cout << "...";*  *}*  *cout << "\n\n\n\t\t\t\t\tAccess Granted!! \n\n\n";*  *cout << "\n\n\n\t\t\t\t\tWelcome Employee Admin Portal!! \n\n\n";*  *system("PAUSE");*  *system("CLS");*  *}*  *else*  *{*  *system("Color 04");*  *cout << "\nAccess Aborted...\n";*  *cout << "\nYour Password is wrong!!\n";*  *login();*  *}*  *}* |

Output:





