



**MODEL INSTITUTE OF ENGINEERING & TECHNOLOGY
(AUTONOMOUS)**

(Permanently Affiliated to the University of Jammu, Accredited by NAAC with “A” Grade)

Mini project report | C++

“Submitted in fulfilment of the Assignment for COM-401”

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ACKNOWLEDGEMENT

Through this section of our report, we want to present our gratitude towards our institute MIET, from where we are learning and gaining an experience worth enhancing our credibility for our career. Being able to work on projects that require us to analyse and solve a problem that exists in the real world is an experience that one can achieve rarely, and we are happy and thankful to get that chance here.

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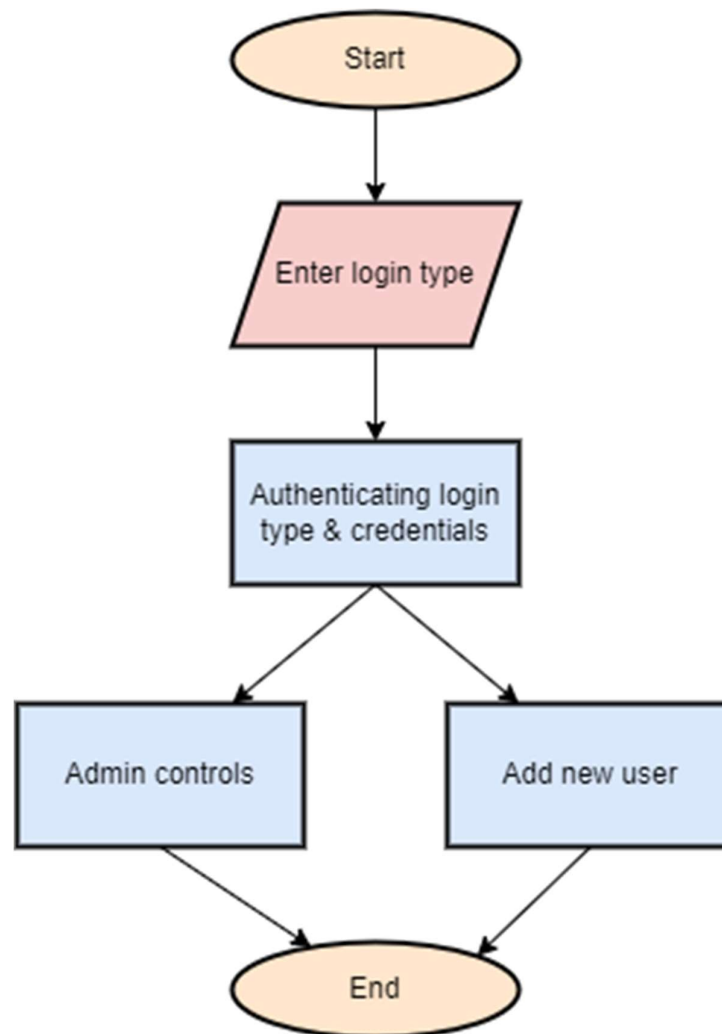
Lastly, we want to thank our parents and colleagues who have been a support system throughout our life and help us lessen our burden and stress of work.

Project Summary

In this project *“Employee Management System”* to construct a well-functioning employee management system using the C++ language, we utilized several Object-oriented programming techniques such as Classes, Constructors, Data hiding, Data encapsulation, File handling, and many more. This application can store employee information such as name, employee id, designation, compensation, and experience. If other fields are needed, they may be added to the program with relatively few modifications to the source file and compiled to make the program work. It may also be adapted to operate with shared files for file management, and numerous users can access an executable file saved on various systems rather than a single file shared on a host device, making it more efficient in multiuser situations.

Working

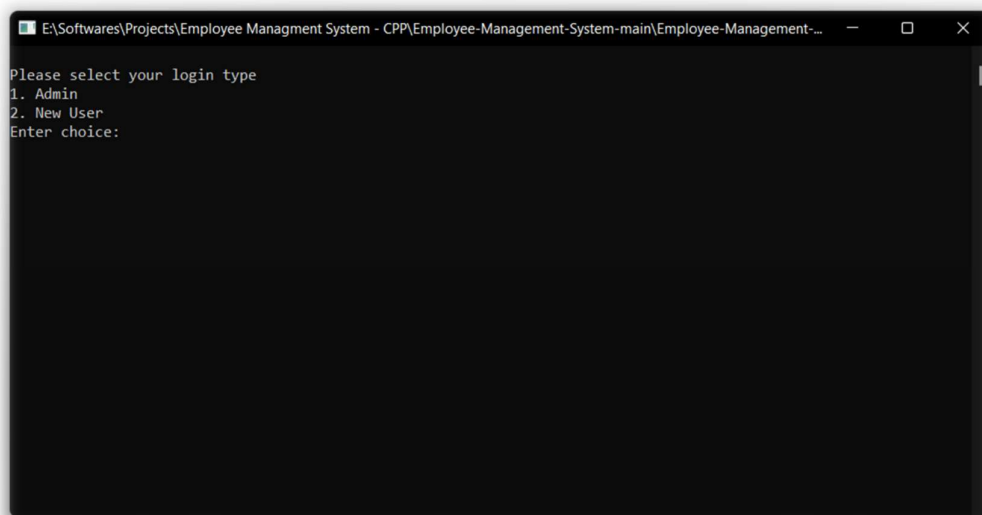
The working of the program can be represented as:



Working

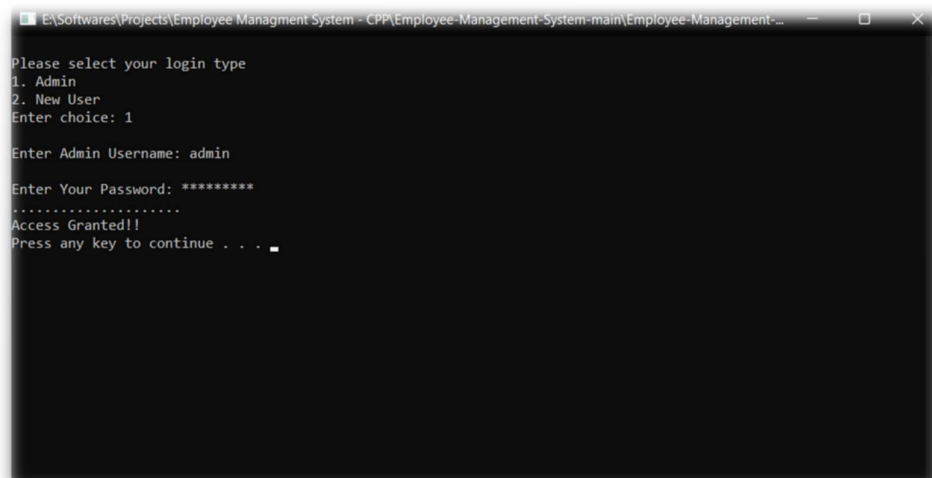
Steps | Procedure:

1. At the moment when you run the executable file of the program it will bring you to a login page where you would be asked for the login type.

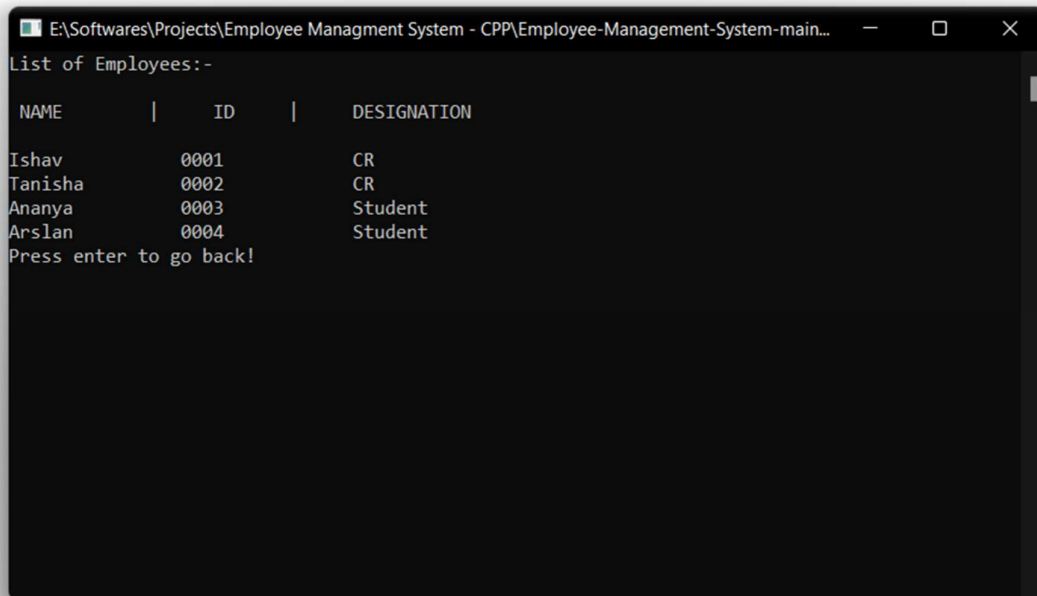


```
E:\Softwares\Projects\Employee Management System - CPP\Employee-Management-System-main\Employee-Management-...  
Please select your login type  
1. Admin  
2. New User  
Enter choice:
```

2. The mentioned login types are as
 - a. **Admin**: The program will ask you to enter the credentials for admin and will take you to the admin menu.



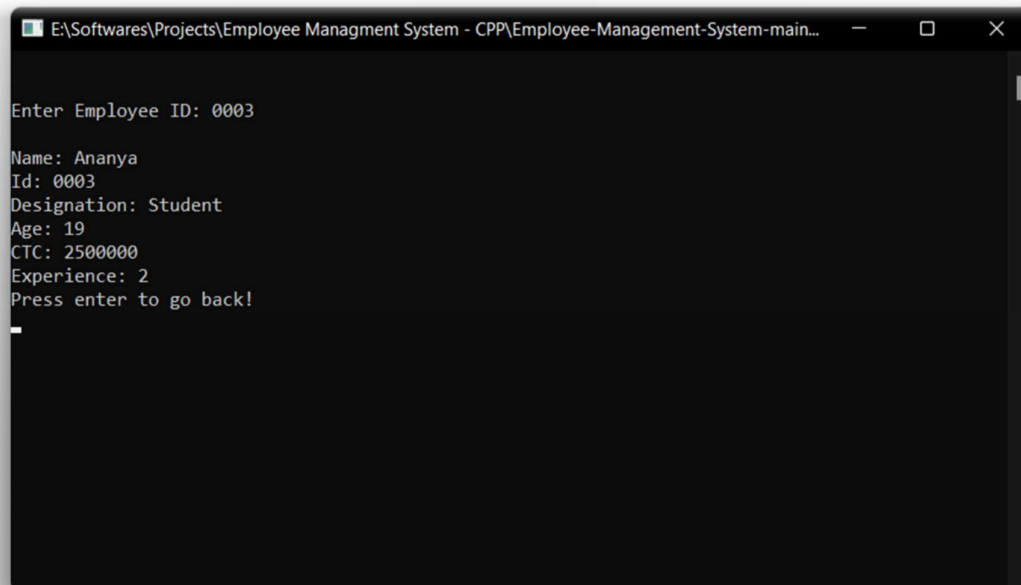
```
E:\Softwares\Projects\Employee Management System - CPP\Employee-Management-System-main\Employee-Management-...  
Please select your login type  
1. Admin  
2. New User  
Enter choice: 1  
  
Enter Admin Username: admin  
Enter Your Password: *****  
.....  
Access Granted!!  
Press any key to continue . . .
```

```
E:\Softwares\Projects\Employee Managment System - CPP\Employee-Management-System-main...
List of Employees:-

NAME      |    ID    |  DESIGNATION
Ishav     |    0001  |    CR
Tanisha   |    0002  |    CR
Ananya    |    0003  |  Student
Arslan    |    0004  |  Student
Press enter to go back!
```

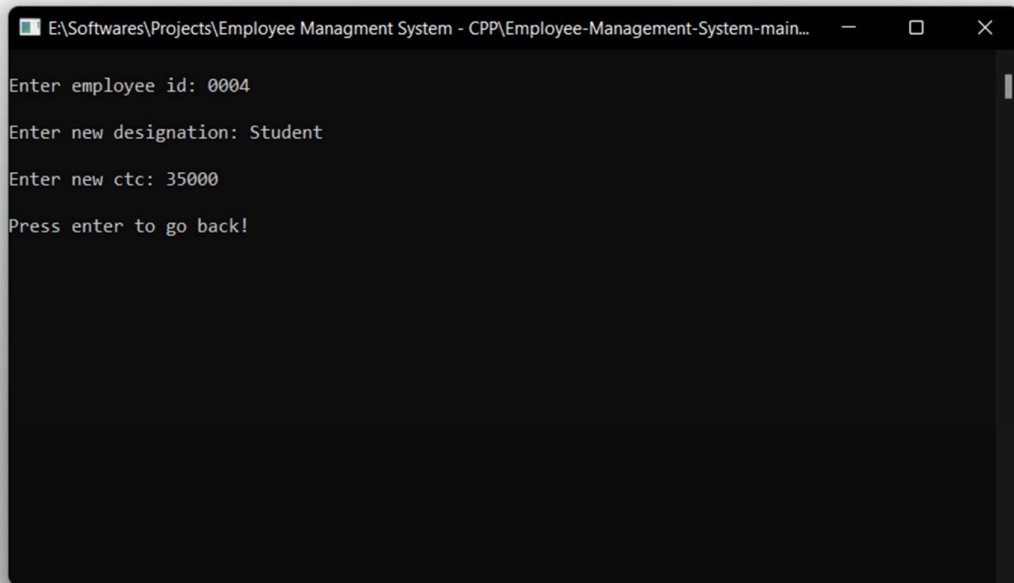
b. To View Employee Details: This function will give the details of a specific individual whose id is entered.



```
E:\Softwares\Projects\Employee Managment System - CPP\Employee-Management-System-main...
Enter Employee ID: 0003

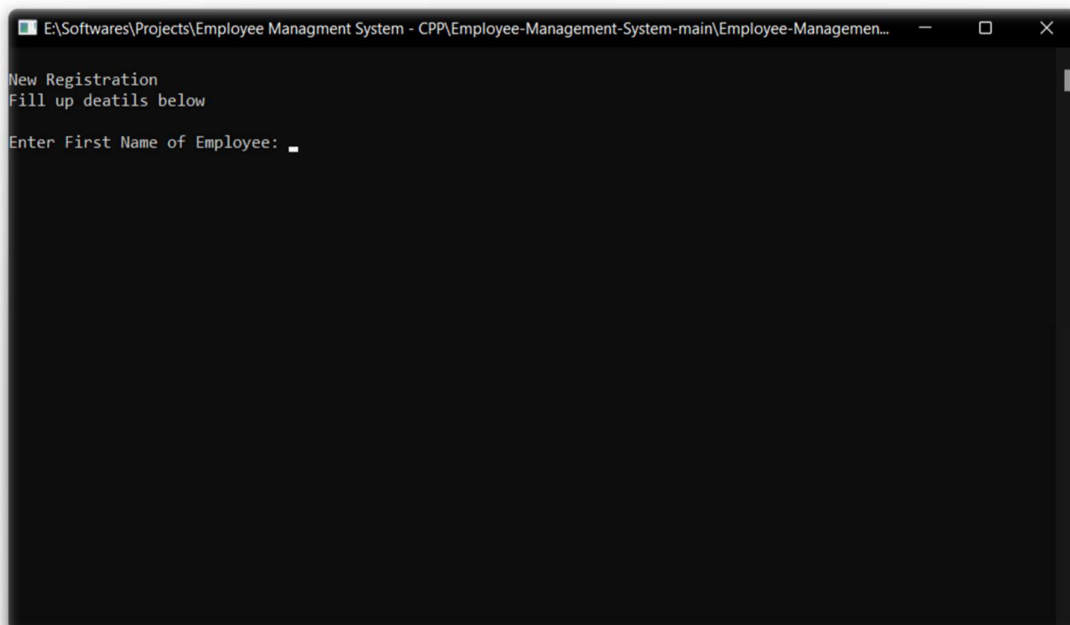
Name: Ananya
Id: 0003
Designation: Student
Age: 19
CTC: 2500000
Experience: 2
Press enter to go back!
```

c. To Modify Existing Employee Details: This function allows the admin to edit the details of a user in case of updating records or amendment of user details.



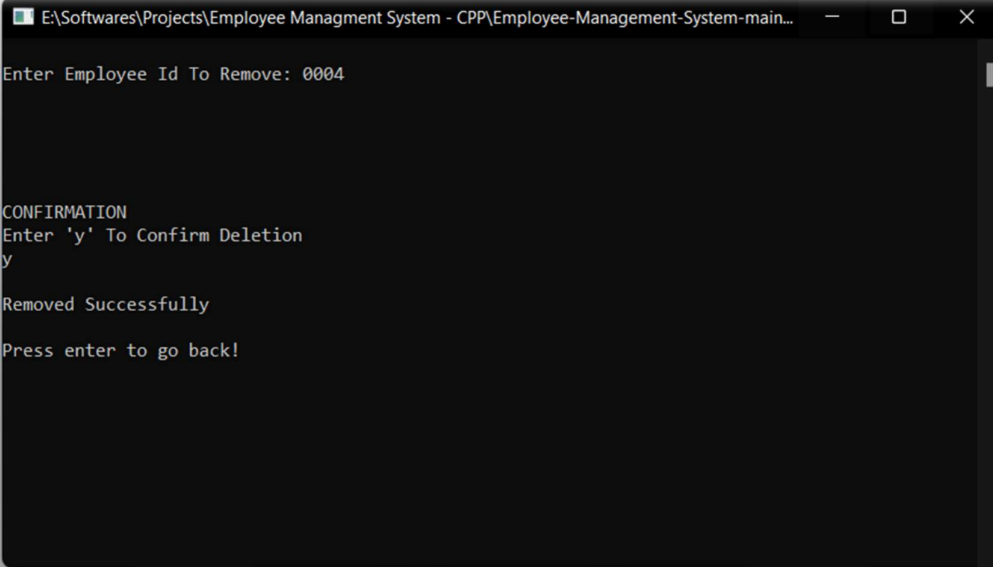
```
E:\Softwares\Projects\Employee Managment System - CPP\Employee-Management-System-main...  
Enter employee id: 0004  
Enter new designation: Student  
Enter new ctc: 35000  
Press enter to go back!
```

d. To Add New Employee Details: This function will ask about the details for new user and will store them in the attached file once confirmed.



```
E:\Softwares\Projects\Employee Managment System - CPP\Employee-Management-System-main\Employee-Managemen...  
New Registration  
Fill up deatils below  
Enter First Name of Employee: _
```


e. To Remove an Employee Details: This function enables admin user to remove an employee's details just by entering the employee id.



```
E:\Softwares\Projects\Employee Managment System - CPP\Employee-Management-System-main...  
Enter Employee Id To Remove: 0004  
  
CONFIRMATION  
Enter 'y' To Confirm Deletion  
y  
  
Removed Successfully  
Press enter to go back!
```

Technology Used

All the project is based on C++ language including concepts of Object-oriented programming. Some of concepts can be listed as:

- Classes
- Constructors
- Data Encapsulation
- File handling
- Optimized & clean interface.
- Switch cases
- MinGW g++ Compiler.
- Windows 11 Operating System.

References

- Classroom education.
- Geeks For Geeks - File Handling.
- Stack Overflow - File Handling.
- Real life basic office employee management data.