

OBJECT ORIENTED PROGRAMMING PROJECT

PROJECT OOP CODE:

```
#include<iostream>
#include <conio.h>
#include<string>
using namespace std;
# define MAX 10

class Date
{
protected:
    int day, month, year;
public:
    Date(int d = 1, int m = 1, int y = 2000)
    {
        day = d;
        month = m;
        year = y;
    }

    void SetDate(int d, int m, int y)
    {
        day = d;
        month = m;
        year = y;
    }

    int GetDay()
    {
        return day;
    }
    int GetMon()
    {
        return month;
    }
    int GetYear()
    {
        return year;
    }
    void dispDate()
    {
        cout << "Day: " << day << ", Month: " << month << ", Year: " << year;
    }
};
```

```
class Person
{
protected:
    string Name;
    string ID;
    Date DateOfBirth;
public:
```

```

Person(string n = "", string id = "", Date dob = NULL)
{
    Name = n;
    ID = id;
    DateOfBirth = dob;
}
void SetName(string n)
{
    Name = n;
}
void SetID(string id)
{
    ID = id;
}
void SetDOB(int d, int m, int y)
{
    DateOfBirth.SetDate(d, m, y);
}

string GetName()
{
    return Name;
}
string GetID()
{
    return ID;
}
Date GetDOB()
{
    return DateOfBirth;
}

void dispPers()
{
    cout << "Name: " << Name << " , " << "ID: " << ID << endl;
    cout << "Date of Birth: "; DateOfBirth.dispDate();
    cout << endl;
}
};

```

```

class Employee : public Person
{
public:
    int Emp_Password;

    Employee(string name = "", int pass = 0) : Person(name)
    {
        Emp_Password = pass;
    }
    void SetEmpPass(int pass)
    {
        Emp_Password = pass;
    }

    int GetEmpPass()
    {

```

```

        return Emp_Password;
    }

    void dispEMP()
    {
        dispPers();
        cout << "Employee Password: " << Emp_Password << endl;
    }
};

class video_Store
{
protected:
    string* list_of_videos;
    string* director_name;
    string* genre;
    string* price;
    int no_of_videos;
public:
    video_Store()
    {
        price = new string[MAX];
        genre = new string[MAX];
        director_name = new string[MAX];
        list_of_videos = new string[MAX];
        for (int i = 0; i < MAX; i++)
        {
            list_of_videos[i] = " ";
            director_name[i] = " ";
            genre[i] = " ";
            price[i] = " ";
        }
        no_of_videos = 0;
    }
    void delete_video(string name)
    {
        for (int i = 0; i < MAX; i++)
        {
            if (list_of_videos[i] == name)
            {
                list_of_videos[i] = " ";
                director_name[i] = " ";
                genre[i] = " ";
                price[i] = " ";
                cout << "\n~DELETE SUCCESSFULL~\n" << endl;
                system("pause");
                system("cls");
                break;
            }
        }
    }
    void insert_video()
    {
        int no;
        cout << "How many videos you want to insert" << endl;
        cin >> no;
        for (int i = 0; i < no; i++)
    }

```

```

    {
        if (list_of_videos[i] == " ")
        {
            cout << "Enter Name Of Video " << i + 1 << ": ";
            cin >> list_of_videos[i];
            cout << "Enter Director Of Video " << i + 1 << ": ";
            cin >> director_name[i];
            cout << "Enter Genre Of Video " << i + 1 << ": ";
            cin >> genre[i];
            cout << "Enter Price Of Video " << i + 1 << ": ";
            cin >> price[i];
        }
    }
}
void displayall()
{
    for (int i = 0; i < MAX; i++)
    {
        if (list_of_videos[i] != " ")
        {
            cout << "Name of video: = " << list_of_videos[i] << endl;
            cout << "Name of director: = " << director_name[i] << endl;
            cout << "Name of genre: = " << genre[i] << endl;
            cout << "Price of Video: = " << price[i] << endl;
        }
    }
}
void search_video(string name)
{
    for (int i = 0; i < MAX; i++)
    {
        if (list_of_videos[i] == name)
        {
            cout << "Name of video: = " << list_of_videos[i] << endl;
            cout << "Name of director: = " << director_name[i] << endl;
            cout << "Name of genre: = " << genre[i] << endl;
            cout << "Price of video: = " << price[i] << endl;
        }
    }
}
void c_search(string name)
{
    for (int i = 0; i < MAX; i++)
    {
        if (list_of_videos[i] == name)
        {
            cout << endl;
            cout << "YOUR VIDEO DETAILS ARE:" << endl;
            cout << "Name of video = " << list_of_videos[i] << endl;
            cout << "Name of director = " << director_name[i] << endl;
            cout << "Name of genre = " << genre[i] << endl;
            cout << "Price of video = " << price[i] << endl;
            cout << "YOU HAVE SUCCESSFULLY PRUCHASED THE VIDEO!" << endl;
        }
    }
}
};

```

```

class Customer : public video_Store {
protected:
    string c_name;
    string p_num;
public:
    Customer()
    {
        c_name;
        p_num;
    }
    void inputC_Data()
    {
        cout << "Enter Customer Name: "; cin >> c_name;
        cout << "Enter Customer Mobile: "; cin >> p_num;
        cout << endl;
    }
    void copy(video_Store& ob)
    {
        ob.displayall();
        string vid;
        cout << "Enter Video You Want to Purchase: ";
        cin >> vid;
        ob.c_search(vid);
        cout << endl;
    }
};

```

```

struct Three_Emp
{
    Employee Tabinda;
    Employee Amal;
    Employee Humna;
};

```

//GLOBAL FUNCTIONS

```

void inputEmpData(Three_Emp& Store_Employees)
{
    Store_Employees.Tabinda.SetName("Tabinda");
    Store_Employees.Amal.SetName("Amal");
    Store_Employees.Humna.SetName("Humna");

    Store_Employees.Tabinda.SetDOB(11, 3, 1999);
    Store_Employees.Amal.SetDOB(4, 1, 2000);
    Store_Employees.Humna.SetDOB(5, 6, 1998);

    Store_Employees.Tabinda.SetID("34522=51122-42");
    Store_Employees.Amal.SetID("63234-52341-64");
    Store_Employees.Humna.SetID("74433-411562-53");

    Store_Employees.Tabinda.SetEmpPass(123);
    Store_Employees.Amal.SetEmpPass(456);
    Store_Employees.Humna.SetEmpPass(789);
}

```

```

int main()
{

```

```

Three_Emp Video_Store_Employees;
inputEmpData(Video_Store_Employees);

video_Store v;
Customer c;
string name;
int pass;
int choice;
char ch;
int ch2 = 0;
cout << "\n\t\t\t\t~~~~~" << endl;
cout << "\n\t\t\t\t|   WELCOME!TO OUR NEWLY OPEN VIDEO STORE PROGRAM   |" << endl;
cout << "\n\t\t\t\t\t~~~~~" << endl;
cout << "Enter Employee Name: "; cin >> name;
cout << "Enter Employee Password: "; cin >> pass;
if (name == Video_Store_Employees.Tabinda.GetName() && pass ==
Video_Store_Employees.Tabinda.GetEmpPass() || name ==
Video_Store_Employees.Amal.GetName() && pass == Video_Store_Employees.Amal.GetEmpPass()
|| name == Video_Store_Employees.Humna.GetName() && pass ==
Video_Store_Employees.Humna.GetEmpPass())
{

    cout << " \n\t\t\t\t~" << endl;
    cout << " \n\t\t\t\t| Press 1 to insert      |" << endl;
    cout << " \n\t\t\t\t| Press 2 to search      |" << endl;
    cout << " \n\t\t\t\t| Press 3 to delete      |" << endl;
    cout << " \n\t\t\t\t| Press 4 to displayall |" << endl;
    cout << " \n\t\t\t\t\t~" << endl;

    do
    {
        cout << "Choice: ";
        cin >> choice;
    } while (choice < 0 && choice > 5);

    switch (choice)
    {
    case 1:
    {
        v.insert_video();
        cout << "Video Have Been inserted!!" << endl;
        break;
    }
    case 2:
    {
        string nname;
        cout << "Enter Name Of Video You Want: ";
        cin >> nname;
        v.search_video(nname);
        break;
    }
    case 3:
    {
        string nname;
        cout << "Enter Name Of Video You Want To Delete: ";
        cin >> nname;
        v.delete_video(nname);
    }
    }
}

```

```

        break;
    }
    case 4:
    {
        v.displayall();
        break;
    }
}
cout << "Press C for customer or press any key for running again: ";
cin >> ch;
if (ch == 'C' || ch == 'c')
{
    cout << "~ WELCOME INTO VIDEO STORE ~" << endl;
    c.inputC_Data();
    c.copy(v);
}
else
{
    main();
}

}
else
{
    cout << "Sorry You Enter Wrong Name and Password" << endl;
}

_getch();
return 0;
}

```

OUTPUT:

EMPLOYEE 1:

C:\Users\92334\source\repos\Project101\Debug\Project101.exe

```

~~~~~
|  WELCOME!TO OUR NEWLY OPEN VIDEO STORE PROGRAM  |
~~~~~
Enter Employee Name: Tabinda
Enter Employee Password: 123

~~

| Press 1 to insert      |
| Press 2 to search     |
| Press 3 to delete     |
| Press 4 to displayall |
~~

```

```
Choice: 1
How many videos you want to insert
2
Enter Name Of Video 1: abc
Enter Director Of Video 1: aaa
Enter Genre Of Video 1: comedy
Enter Price Of Video 1: 1542
Enter Name Of Video 2: xyz
Enter Director Of Video 2: www
Enter Genre Of Video 2: family
Enter Price Of Video 2: 2615
Video Have Been inserted!!
Press C for customer: C
~ WELCOME INTO VIDEO STORE ~
Enter Customer Name: Ali
Enter Customer Mobile: 123456
```

```
Name of video: = abc
Name of director: = aaa
Name of genre: = comedy
Price of Video: = 1542
Name of video: = xyz
Name of director: = www
Name of genre: = family
Price of Video: = 2615
Enter Video You Want to Purchase: abc
```



```
YOUR VIDEO DETAILS ARE:  
Name of video = abc  
Name of director = aaa  
Name of genre = comedy  
Price of video = 1542  
YOU HAVE SUCCESSFULLY PRUCHASED THE VIDEO!
```

EMPLOYEE 2:

C:\Users\92334\source\repos\Project102\Debug\Project102.exe

```

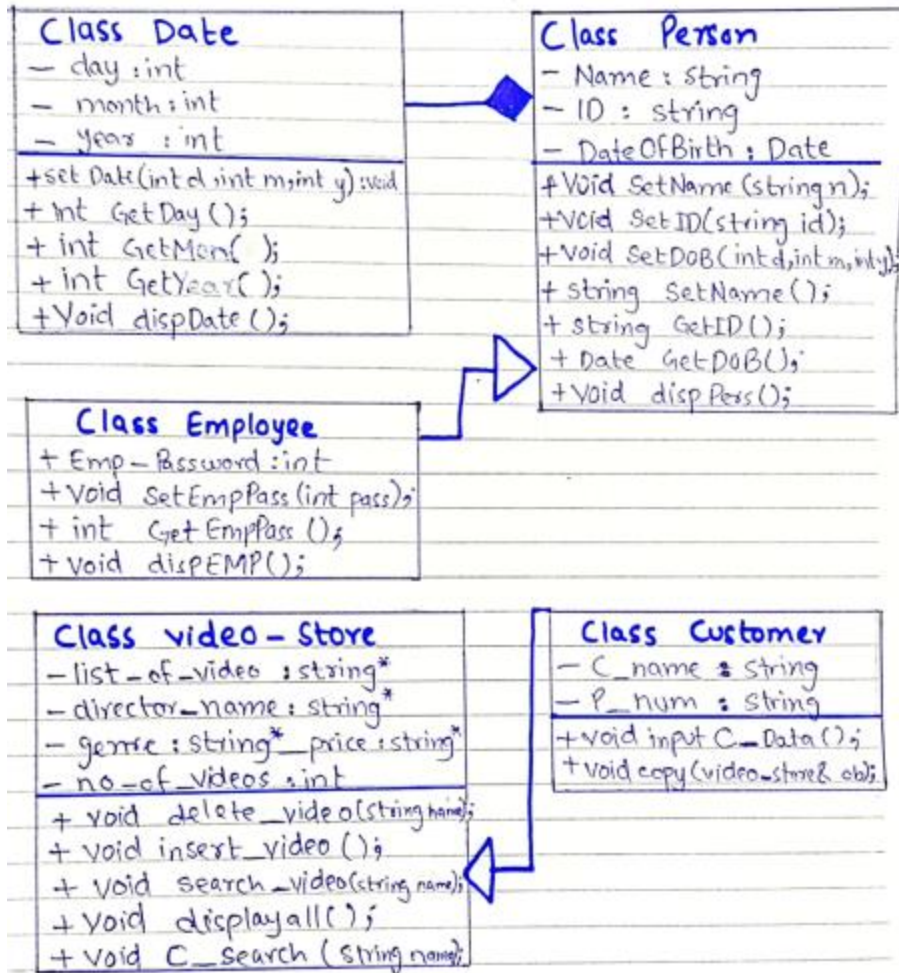
                ~~~~~
                |  WELCOME!TO OUR NEWLY OPEN VIDEO STORE PROGRAM  |
                ~~~~~
Enter Employee Name: Amal
Enter Employee Password: 456

                ~~~
                |  Press 1 to insert      |
                |  Press 2 to search      |
                |  Press 3 to delete      |
                |  Press 4 to displayall  |
                ~~~
Choice: 1
How many videos you want to insert
2
Enter Name Of Video 1: hdj
Enter Director Of Video 1: comedy
Enter Genre Of Video 1: sdfgres
Enter Price Of Video 1: 2345
Enter Name Of Video 2: jfhhd
Enter Director Of Video 2: kdjff
Enter Genre Of Video 2: errt
Enter Price Of Video 2: 2345
Video Have Been inserted!!
Press C for customer or press E for again: e

                ~~~~~
                |  WELCOME!TO OUR NEWLY OPEN VIDEO STORE PROGRAM  |
                ~~~~~
Enter Employee Name:
```

UML DIAGRAM:

UML-DIAGRAM OF PROJECT



*****THE END*****