

Group : 2

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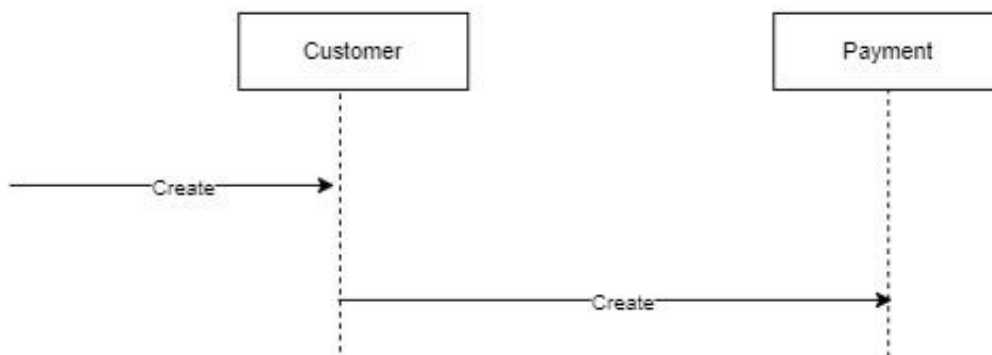
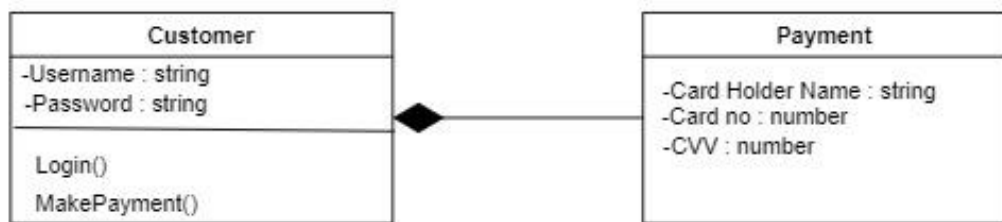
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## Assignment 8-A: Identification and Implementation of GRASP pattern

Creator



## Assign8\_A.cpp

```
#include <iostream>
#include <string.h>
#include<bits/stdc++.h>
using namespace std;

class Payment{
    private:
        string cardholdername;
        long long cardnumber;
        int cvv;

    public:
        void MakePayment(){
            cout<<"Enter Card Holder Name : ";
            cin>>cardholdername;
            cout<<"Enter Card Number : ";
            cin>>cardnumber;
            cout<<"Enter CVV : ";
            cin>>cvv;
        }
};

class Customer {
    private:
        string username, password;
    public:
        Customer(){
            username="Cust1";
            password="Cust123";
        }
        bool Login(string id,string pass){
            if(username==id && password==pass){
                return true;
            }
            else
                return false;
        }
}
```

```

        void MakePaymentNow(){
            Payment p;
            p.MakePayment();
        }
};

// Main function for the program
int main() {
    Customer a;
    int i=0;
    string id ,pass;
    do{
        cout<<"\n***** Welcome Customer *****\n";
        cout<<"\nEnter Username : ";
        cin>>id;
        cout<<"\nEnter Password : ";
        cin>>pass;
        if(a.Login(id,pass)){
            cout<<"\n***** Login Successfull *****\n";
            int done = 1;
            int ch;
            while(ch!=2){
                cout<<"\n\nChoose the number from the following activities";
                cout<<"\n\n1.Make Payment.";
                cout<<"\n2.Logout";
                cout<<"\n\nChoice : ";
                cin>>ch;
                switch(ch){
                    case 1:
                        if(done)
                            {a.MakePaymentNow(); done = 0;}else{cout<<"\n Payment
Already Done!! \n You Can Logout!";break;}
                        cout<<"\n Payment Done !\n Booking Confirmed ! \n You
Can Logout!\n";
                        break;
                    case 2:
                        cout<<"\nThank you for using our system"<<endl;
                        break;
                }
            }
        }
    }
}

```

```

    }
}
else{cout<<"\n***** Login Again *****\n\n**** Invalid
Credentials ****\n";}
}while (!a.Login(id,pass));
}

```

```

/*
C:\Users\hp\Downloads>g++ Assign8_A.cpp

```

```

C:\Users\hp\Downloads>a

```

```

***** Welcome Customer *****

```

```

Enter Username : Cust1

```

```

Enter Password : Cust123

```

```

**** Login Successfull ****

```

```

Choose the number from the following activities

```

- 1.Make Payment.
- 2.Logout

```

Choice : 1

```

```

Enter Card Holder Name : Anshul

```

```

Enter Card Number : 123412341234

```

```

Enter CVV : 988

```

```

Payment Done !

```

```

Booking Confirmed !

```

```

You Can Logout!

```

```

Choose the number from the following activities

```

- 1.Make Payment.

2. Logout

Choice : 1

Payment Already Done!!

You Can Logout!

Choose the number from the following activities

1. Make Payment.

2. Logout

Choice : 2

Thank you for using our system

\*/