



Topic : Online Laundry Service

Group no : MLB_04.02_07

Campus : Malabe

Submission Date :

We declare that this is our own work and this Assignment does not incorporate without acknowledgment any material previously submitted by anyone else in SLIIT or any other university/Institute. And we declare that each one of us equally contributed to the completion of this Assignment.

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Exercise 01

System Requirements

- ❖ In the system the Guest can search provided services and register to the system as a customer.
- ❖ Registered customer can log in the system using username and password.
- ❖ Then customer can search a service, select one or more service packages, add service packages to the cart, pay for the service packages using via PayPal, Credit or Debit card and eZ Cash, track the taken orders and submit a review about service.
- ❖ Staff members are working in this system as Delivery department, delivery person, payment handler, customer care officer and system admin.
- ❖ Delivery department can schedule delivery timetable, analyze delivery requests and orders and create delivery reports.
- ❖ Delivery person must send delivery status into the system.
- ❖ Payment handler can confirm the payments and make payments summary using the system.
- ❖ Customer care officer can confirm customer orders, check customer requests, communicate with customers and solve customer problems.
- ❖ System admin can make reports (customer order reports and financial reports) and add new services and packages to the system.

Classes

1. Guest
2. Registered customer
3. Service
4. Order
5. Staff
6. Reports
7. Payments

CRC Cards

<u>Guest</u>	
Responsibilities	Collaborations
Search provided services	Service
Register to the system	

<u>Registered Customer</u>	
Responsibilities	Collaborations
Log in to the system	
Search provided services	Service
Select one or more service packages	Service
Add service packages to the cart	
Pay for the service packages	Payment
Track the taken orders	Order
Submit a review	Reports

<u>Service</u>	
Responsibilities	Collaborations
Provide services list	

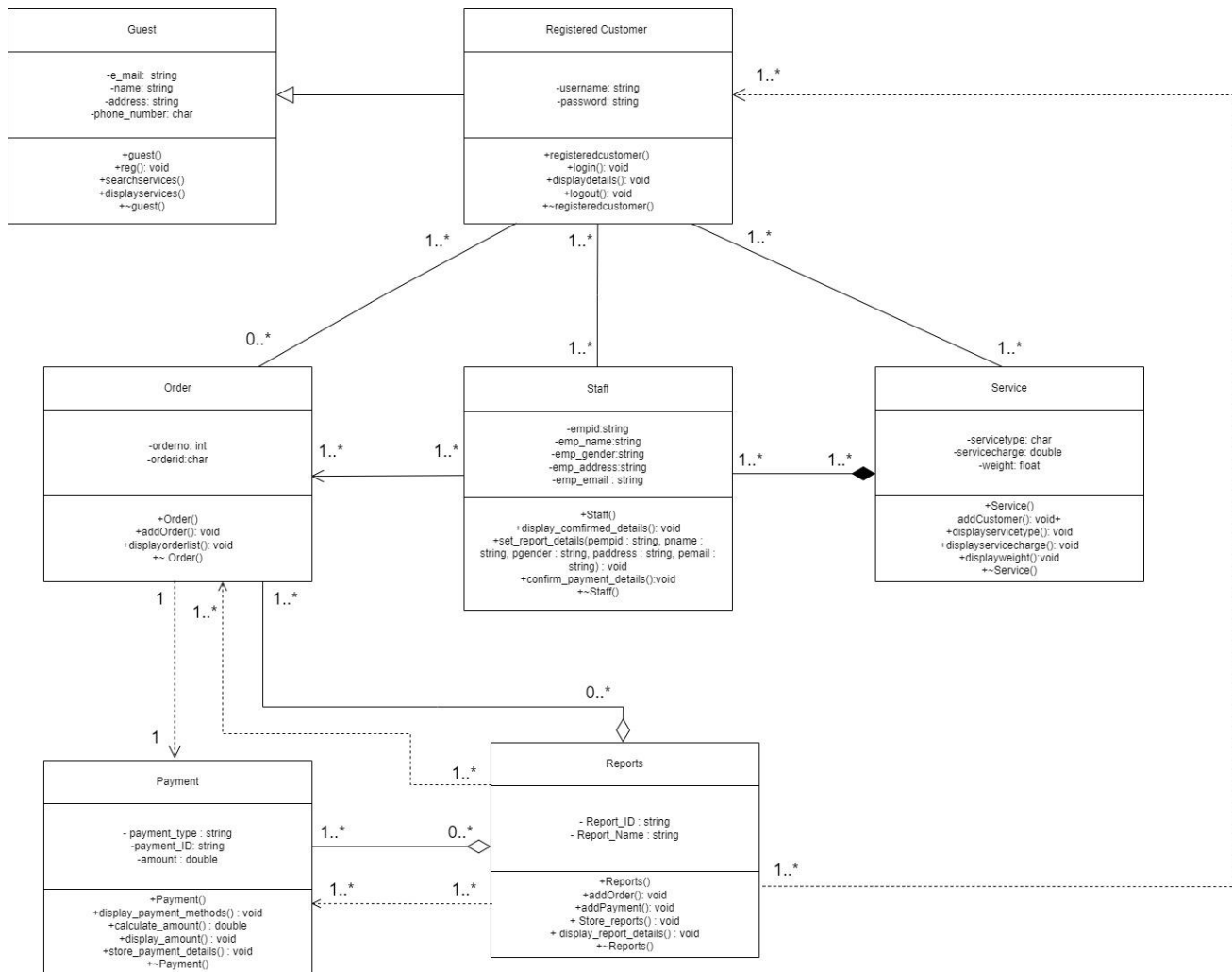
<u>Order</u>	
Responsibilities	Collaborations
Provide order list	

<u>Staff</u>	
Responsibilities	Collaborations
Analyze data	Order, Registered Customer, Payment
Create reports	Reports
Confirm	Order, Payment
Communicate with customer	Registered Customer

<u>Reports</u>	
Responsibilities	Collaborations
Store reports	Registered Customer, Order, Payment

<u>Payment</u>	
Responsibilities	Collaborations
Provide payment methods	
Store payment details	Reports

Class Diagram (UML Notation)



Class Header Files

Guest.h

```
#include<iostream>
#include<cstring>
using namespace std;

class Guest
{
protected:
    string e_mail;
    string name;
    string address;
    int phone_number;

public:
    Guest();
    Guest(string pe_mail, string pname, string paddress, int pphone_number);
    void reg();
    void searchservices();
    void displayservices();
    ~Guest();
};
```

Registered_Customer.h

```
#include<iostream>
#include<cstring>
using namespace std;

class Registered_Customer : public Guest
{
private:
    string user_name;
    string password;
    Order* orders;
    Staff* Emp;
    Service* Sev;

public:
    Registered_Customer();
    Registered_Customer(string puser_name, string ppassword);
    void login();
    void displaydetails();
    void logout();
    ~Registered_Customer();
};
```

Order.h

```
#include<iostream>
#include<cstring>
using namespace std;

class Order
{
private:
    int orderno;
    string orderid;
    Registered_Customer* cus;

public:
    Order();
    Order(int porderno, string porderid);
    void addOrder(Payment* Pay, Reports* Rep);
    void displayorderlist();
    ~Order();
};
```

Staff.h

```
#include<iostream>
#include<cstring>
using namespace std

class Staff
{
private:
    string empid;
    string emp_name;
    string emp_gender;
    string emp_address;
    string emp_email;
    Registered_Customer* cus;
    Order* odr

public:
    Staff();
    Staff(string pempid, string pemp_name, string pemp_gender, string
pemp_address, string pemp_email);
    void display_confirm_details();
    void set_report_details(string pempid, string pname, string pgender,
string paddress, string pemail);
    void confirm_payments_details();
    ~Staff();
};
```


Service.h

```
#include<iostream>
#include<cstring>
using namespace std

class Service
{
private:
    string servicetype;
    double servicecharge;
    float weight;
    Registered_Customer* cus;
    Staff* stf;

public:
    Service();
    Service(string pservicetype, double pservicecharge, float pweight);
    void addCustomer();
    void displayservicetype();
    void displayservicecharge();
    void displayweighr();
    ~Service();
};
```

Payment.h

```
#include<iostream>
#include<cstring>
using namespace std

class Payment {
private:
    string payment_type;
    string payment_ID;
    double amount;

public:
    Payment();
    Payment(string ppayment_type, string ppayment_ID, double pamount);
    void display_payment_methods();
    double calculate_amount();
    void display_amount();
    void store_payment_details();
    ~Payment();
};
```

Reports.h

```
#include<iostream>
#include<cstring>
using namespace std

class Reports
{
private:
    string Report_ID;
    string Report_Name;
    Order* Or;
    Payment* Pay;

public:
    Reports();
    Reports(string pReport_ID, string pReport_Name);
    void addOrder(Order* Or1);
    void addPayment(Payment* Pay1);
    void store_reports(Payment* Pay, Registered_Customer* Cus);
    void display_reports_details();
    ~Reports();
};
```

Class Cpp Files

Guest.cpp

```
#include <iostream>
#include <cstring>
#include "Guest.h"
using namespace std;

Guest::Guest()
{
    e_mail = " ";
    name = " ";
    address = " ";
    phone_number = " ";
}

Guest::Guest(string pe_mail, string pname, string paddress, int pphone_number)
{

}

void Guest::reg()
{

}

void Guest::searchservices()
{

}

void Guest::displayservices()
{

}

Guest::~Guest()
{

}
```

Registered_Customer.cpp

```
#include <iostream>
#include <cstring>
#include "Registered_Customer.h"
using namespace std;
Registered_Customer::Registered_Customer()
{
    user_name = " ";
    password = " ";
}

Registered_Customer::Registered_Customer(string puser_name, string ppassword)
{
}

void Registered_Customer::login()
{
}

void Registered_Customer::displaydetails()
{
}

void Registered_Customer::set_details(string pusername, string ppassword)
{
}

void Registered_Customer::logout()
{
}

Registered_Customer::~~Registered_Customer()
{
}
```

Order.cpp

```
#include <iostream>
#include <cstring>
#include "Order.h"
using namespace std;
Order::Order()
{
    ordeno = 0;
    orderid = " ";
}

Order::Order(int porderno, string porderid)
{
}

void Order::addOrder(Payment* Pay, Reports* Rep)
{
}

void Order::displayorderdetails()
{
}

Order::~Order()
{
}
```

Staff.cpp

```
#include <iostream>
#include <cstring>
#include "Staff.h"
using namespace std;
Staff::Staff()
{
    empid = " ";
    emp_name = " ";
    emp_gender = " ";
    emp_address = " ";
    emp_email = " ";
}

Staff::Staff(string pempid, string pemp_name, string pemp_gender, string
pemp_address, string pemp_email)
{
}

void Staff::display_confirmed_details()
{
}
```

```

void Staff::set_report_details(string pempid, string pname, string pgender,
string paddress, string pemail)
{

}

void Staff::confirm_payment_details()
{

}

void Staff::confirm_order_details()
{

}

Staff::~Staff()
{

}

```

Service.cpp

```

#include <iostream>
#include <cstring>
#include "Service.h"
using namespace std;
Service::Service()
{
    servicetype = " ";
    servicecharge = " ";
    weight = " ";
}

Service::Service(string pservicetype, double pservicecharge, float pweight)
{

}

void Service::addCustomer()
{

}

void Service::displayservicetype()
{

}

void Service::displayservicecharge()
{

}

void Service::displayweight()
{

}

```

```
Service::~Service()
{

}
```

Payment.cpp

```
#include <iostream>
#include <cstring>
#include "Payment.h"
using namespace std;
Payment::Payment()
{
    payment_type = " ";
    payment_ID = " ";
    amount = " ";
}

Payment::Payment(string ppayment_type, string ppayment_ID, double pamount)
{

}

void Payment::display_payment_methods()
{

}

double Payment::calculate_amount()
{

}

double Payment::display_amount()
{

}

void Payment::store_payment_details()
{

}

Payment::~Payment()
{

}
```

Reports.cpp

```
#include <iostream>
#include <cstring>
#include "Reports.h"
using namespace std;
Reports::Reports()
{
    Report_ID = " ";
    Report_Name = " ";
}

Reports::Reports(string pReport_ID, string pReport_Name)
{
}

void Reports::addOrder(Order* Or1)
{
}

void Reports::Store_reports()
{
}

void Reports::display_reports_details()
{
}

Reports::~Reports()
{
}
```


Main.cpp

```
#include <iostream>
#include <cstring>
#include "Guest.h"
#include "Registered_Customer.h"
#include "Order.h"
#include "Staff.h"
#include "Service.h"
#include "Payment.h"
#include "Reports.h"
using namespace std;

int main()
{
    Guest G1;
    G1.reg();
    G1.searchservices();
    G1.displayservices();

    Registered_Customer* rc1;
    rc1->login();
    rc1->displaydetails();
    rc1->set_details();
    rc1->logout();

    Order* Or;
    Or->displayorderlist();

    Staff* s1;
    s1->display_confirm_details();
    s1->confirm_payments_details();
    s1->set_report_details();

    Service* sv;
    sv->displayservicetype();
    sv->displayweight();
    sv->displayservicecharge();

    Payment p1;
    p1.display_payment_methods();
    p1.calculate_amount();
    p1.display_amount();
    p1.store_payment_details();

    Reports* r1;
    r1->store_reports();
    r1->display_reports_details();

}
```