



Topic : Online Pharmacy portal

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Campus : Malabe

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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**

01)

### **Requirements**

- Customers (Registered / Unregistered) have access to the client side of the portal.
- Customers can be access the portal and view medicine, order the medicine and channel doctors.
- Unregistered user can register in the portal in sign up option by entering the following details.
- User name, e-mail, address, phone number and creating and confirming a new password for the new user account.
- Register users can login to the portal by entering correct detail in log in option.
- Register users can manage /edit their user profiles.
- Customer can search and view prices all medicine and other service.
- Customers can channel doctors and view channelling fees.
- Customers can reserve any available doctor online through the portal.
- Customer can order any available medicine and delivered the medicine customer's home.
- Customers can pay online via credit card/debit card.
- Customers should enter valid payment credentials and confirm payment and receive e-invoice as confirmation of the payment and order made.
- Marketing ref can check stores and give information suppliers.
- Marketing ref introducing new products.
- Supplier can issue medicine and bills related to the previous order.
- Supplier can make cash transactions with a pharmacy.
- Suppliers can retrieval of expired medicines from the pharmacy.
- Doctors can get and receive money for the relevant channels.
- Doctors inquire about the channel that the doctor rejected.
- System admin has access to both client-side and server-side of the system.
- System admin can update/edit information of medicine stores and add/remove medicines to/from the system database.
- System admin can review and process user-confirmed reservations and assesses customer feedback and reviews and responds to them.

02)

**List down the noun**

1. Customer
2. Portal
3. Medicine
4. Order
5. Doctor
6. Unregister user
7. Details
8. User name
9. E-mail
10. Address
11. Phone number
12. Password
13. Register user
14. User profile
15. Fees
16. Customer's home
17. Credit/debit card
18. Invoice
19. Marketing Ref.
20. Store
21. Information
22. Suppliers
23. Products
24. Bill
25. Pharmacy
26. Money
27. System Admin
28. System
29. System database
30. Feedback
31. Reviews
32. Payment

03)

### **Identified the classes**

1. Customer - Redundant
2. Portal - Out of scope
3. Medicine - Class
4. Order - Class
5. Doctor - Class
6. Unregister user - Class
7. Details - Attributes
8. User name - Attributes
9. E-mail - Attributes
10. Address - Attributes
11. Phone number - Attributes
12. Password - Attributes
13. Register user - Class
14. User profile - Attributes
15. Fees - Attributes
16. Customer's home - Out of scope
17. Credit/debit card - Attributes
18. Invoice - Attributes
19. Marketing Ref. - Class
20. Store - Class
21. Information - Attributes
22. Suppliers - Class
23. Products - Redundant
24. Bill - Attributes
25. Pharmacy - Class
26. Money - Attributes
27. System Admin - Class
28. System - Out of scope
29. System database - Out of scope
30. Feedback - Attributes
31. Reviews - Attributes
32. Payment - Class

## **Verb**

### **Customer**

- Search
- Access
- View
- Channel
- Pay

### **Unregister user**

- Register
- Sign up
- Entering
- Confirm
- Creating

### **Register user**

- Login
- Manage
- Edit

### **Marketing ref.**

- Check
- Give

### **Supplier**

- Issue
- Make
- Retrieval

### **Doctor**

- Get
- Receive
- Rejected

## System Admin

- Access
- Update
- Edit
- Add
- Remove
- Process

Class Name: Unregistered User	
Responsibility	Collaborators
View Product	
Register the details	
View Feedback	

Class Name: Registered User	
Responsibility	Collaborators
Buy Medicine	Medicine
Channel Doctor	Doctor
Give Feedback	
Edit user Profile	

Class Name: Marketing ref.	
Responsibility	Collaborators
Check Store	
Introducing new medicine	Pharmacy

Class Name: Supplier	
Responsibility	Collaborators
Supply new medicine	Medicine
Get payment	payment
Get Expire Medicine	Store

Class Name: Doctor	
Responsibility	Collaborators
Get Channel	Registered user
Get Payment	Payment

Class Name: System Admin	
Responsibility	Collaborators
Update/Edit information	Pharmacy
Add/Remove Medicine details	Store
Access feedback	Register user
Give Answers	

Class Name: Pharmacy	
Responsibility	Collaborators
Get payment	Register user, Doctor
Give payment	Supplier
Supplier details	
Marketing ref. details	

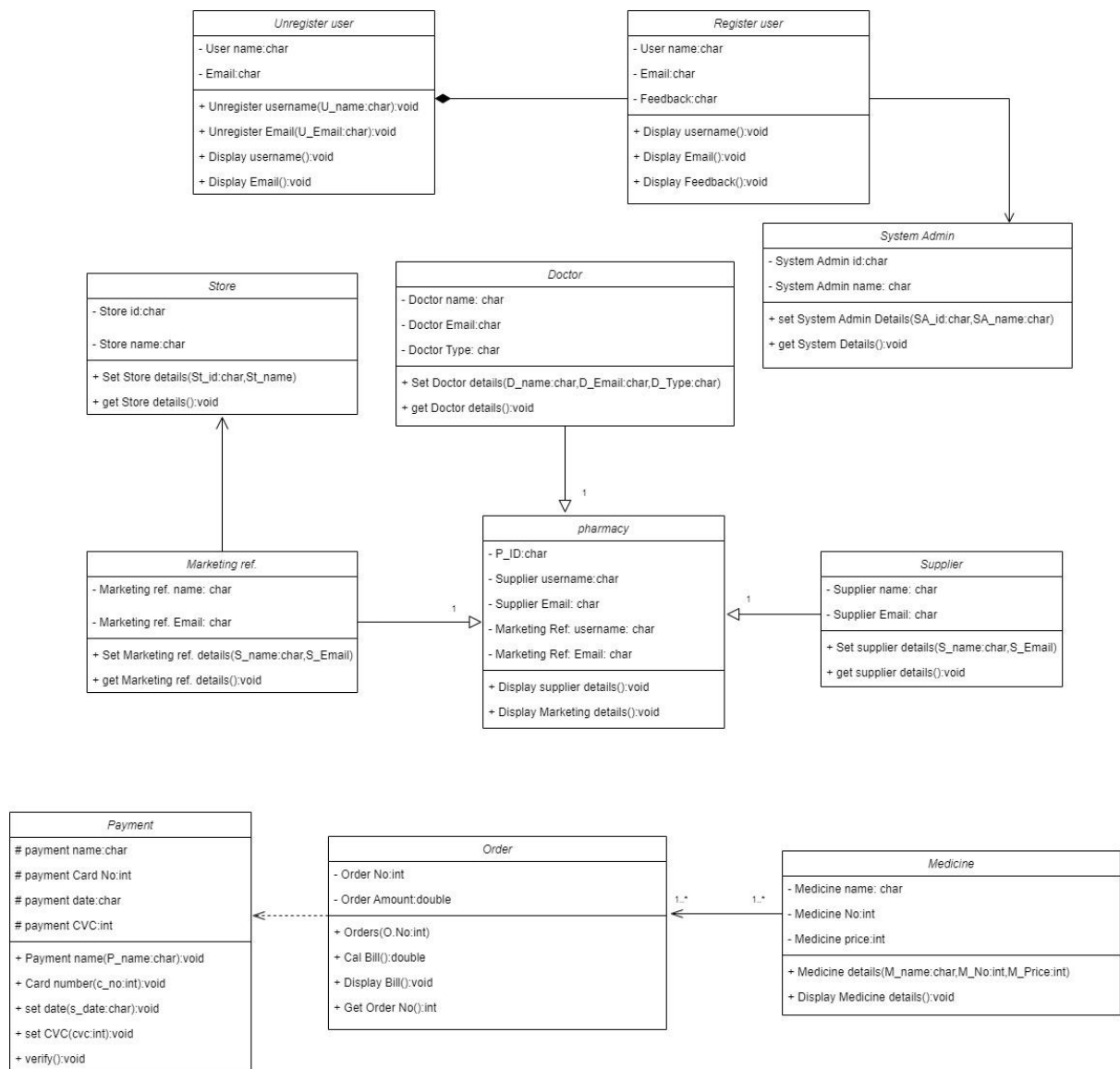
Class Name: Order	
Responsibility	Collaborators
Confirm order	Payment



Class Name: Payment	
Responsibility	Collaborators
Verify the payment	

Class Name: Store	
Responsibility	Collaborators
Medicine details	

Class Name: Medicine	
Responsibility	Collaborators
Add new medicine	
Sell medicine	Order



## **Exercise 02**

### **Codes**

```
//Doctor

#include<iostream>

using namespace std;

#include<cstring>

#include<iomanip>

class docter{

    private:

        char doctername[];

        char email[];

        char type[];

    public:

        docter();

        docter(char name[],char email[],char type[]);

        void getdoctername();

        void getemail();

        void gettype();

};

docter::docter(){
```

```

        strcpy(doctername,"");
        strcpy(email, "");
        strcpy(type,"");
    }

docter::docter(char name[],char email[],char type[]){

        strcpy(doctername,name);
        strcpy(email,email);
        strcpy(type,type);
    }

void docter::getdoctername(){

}

void docter::getemail(){

}

void docter::gettype(){

}

//Marketing ref.

class markerting_ref{

    private:

        char markertingref_name [10];

```

```

        char marketingref_email [];

public:

        marketing_ref();
        marketing_ref( char m_ref_name[],char m_ref_email[]);
        void getmarketing_ref_name();
        void getmarketing_ref_email();

};

marketing_ref::marketing_ref()
{
        strcpy(marketingref_name, "" );
        strcpy(marketingref_email, "");
}

marketing_ref::marketing_ref( char m_ref_name [],char m_ref_email[])
{
        strcpy(marketingref_name,m_ref_name);
        strcpy(marketingref_email,m_ref_email);
}

```

```
void markerting_ref::getmarkerting_ref_name(){  
}
```

```
void markerting_ref::getmarkerting_ref_email(){  
}
```

```
//Medicine
```

```
class medicine{
```

```
    private:
```

```
        char medicinename[];
```

```
        int medicine_no;
```

```
        float price;
```

```
    public:
```

```
        medicine();
```

```
        medicine(char medicinename[],int medicine_no,float price);
```

```
        void getmedicinename();
```

```
        void getmedicine_no();
```

```
        void getprice();
```

```
};
```

```
medicine::medicine(){
```

```

        strcpy(medicinename,"");
        medicine_no =0;
        price=0.0;
    }

medicine::medicine(char medicinename[],int medicine_no,float price){

        strcpy(medicinename,medicinename);
        medicine_no=medicine_no;
        price=price;
    }

void medicine::getmedicinename(){
}

void medicine::getmedicine_no(){
}

void medicine::getprice(){
}

//Unregister User

class unregisteruser{

    private:

        char username[20];

```

```

        char email[];

    public:

        unregisteruser();
        unregisteruser(char name[],char email[]);
        void getusername();
        void getemail();

};

unregisteruser::unregisteruser() {
    strcpy(username, "");
    strcpy(email, "");
}

unregisteruser::unregisteruser(char name[],char email[]) {
    strcpy(username, name);
    strcpy(email, email);
}

void unregisteruser::getusername(){

}

void unregisteruser::getemail(){

```



```
}
```

```
//Register user
```

```
class registeruser{
```

```
    private:
```

```
        char username[10];
```

```
        char email[20];
```

```
        char feedbacks[];
```

```
    public:
```

```
        registeruser();
```

```
        registeruser(char name[],char email[],char feedbacks[]);
```

```
        void getusername();
```

```
        void getemail();
```

```
        void getfeedbacks();
```

```
};
```

```
registeruser::registeruser(){
```

```
    strcpy(username, "");
```

```
    strcpy(email, "");
```

```
    strcpy(feedbacks, "");
```

```
}
```

```
registeruser::registeruser(char name[],char email[],char feedbacks[])
```

```
{
```

```
    strcpy(username ,name);
```

```
    strcpy(email ,email);
```

```
    strcpy(feedbacks, feedbacks);
```

```
}
```

```
void registeruser::getusername(){
```

```
}
```

```
void registeruser::getemail(){
```

```
}
```

```
void registeruser::getfeedbacks(){
```

```
}
```

```
//Order
```

```
class oder{
```

```
    private:
```

```
        int oder_number;
```

```
        float amount;
```

```
    public:
```

```
        oder();
```

```
        oder( int oder_number,float amount);  
        void getoder_number();  
        void getamount();  
  
};
```

```
oder::oder()  
{  
    oder_number=0;  
    amount=0.0;  
  
}
```

```
oder::oder(int oder_number,float amount)  
{  
    oder_number=oder_number;  
    amount=amount;  
  
}
```

```
void oder::getoder_number(){  
  
}
```

```
void oder::getamount(){  
  
}
```

```
//System Admin
```

```

class systemadmin{

    private:

        char systemadmin_id[];

        char systemadmin_name[];

    public:

        systemadmin();

        systemadmin( char admin_id[10],char admin_name[]);

        void getsystemadmin_id();

        void getsystemadmin_name();

};

systemadmin::systemadmin()
{

    strcpy(systemadmin_id,"");

    strcpy(systemadmin_name, "");

}

systemadmin::systemadmin( char admin_id[10],char admin_name[])
{

    strcpy(systemadmin_id,admin_id);

    strcpy(systemadmin_name,admin_name);

```

```
}
```

```
void systemadmin::getsystemadmin_id(){
```

```
}
```

```
void systemadmin::getsystemadmin_name(){
```

```
}
```

```
//Supplier
```

```
class supplier{
```

```
    private:
```

```
        char supplier_name[];
```

```
        char supplier_email[];
```

```
    public:
```

```
        supplier();
```

```
        supplier( char supplier_name[],char supplier_email[]);
```

```
        void getsupplier_name();
```

```
        void getsupplier_email();
```

```
};
```

```
supplier::supplier()
```

```

{
    strcpy(supplier_name,"");
    strcpy(supplier_email, "");
}

```

```

supplier::supplier( char supplier_name[],char supplier_email[])

```

```

{
    strcpy(supplier_name,supplier_name);
    strcpy(supplier_email,supplier_email);
}

```

```

void supplier::getsupplier_name(){
}

```

```

void supplier::getsupplier_email(){
}

```

```

int main()

```

```

{
    docter("Dr.Sadharas","Doctorsadharas39@gmail.com","dentist");
    markerting_ref("Kalum Pathirana","Kalumpathirana264@gmail.com");
    medicine("Astholin400",678,645);
    unregisteruser ("Ishara", "ishara@gmail.com");
    registeruser("Nimesh Chanuka","ChanukaNimesh1999@gamil.com","Good
service++");
    oder(45678,47500.00);
}

```

```
systemadmin("AD03567","Thushan alvis");  
suplier("Sarath Pranandu","sarathpranndu24@gmail.com");  
return 0;  
  
};
```

# Thank You...