



Topic : Online Recipe Management System

Group no : MLB 06.01.08

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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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PART 1-Case Study-Group

List down the requirements you have identified, for the system you need to implement.

- 1) In the Online recipe management system, there are 2 types of users that are interacting with the system, namely registered users and unregistered users.
- 2) Nonregistered users can visit and view the website and search and find some common recipes that are available. The system allows nonregistered users to fill a form and become a registered user. They must provide details such as name, email address and contact number.
- 3) Registered users can view and use the website to search up the recipes they need, share, buy and watch cooking videos, watch cooking videos from their favorite chefs and their recipes along side making payments for the system.
- 4) Registered users can become premium users by making a payment for the yearly subscription. Premium users are given the advantage to check out the premium recipes of their favorite chefs anytime and share recipes without and restrictions. Furthermore, they can contribute the development of the website by giving feedback directly to the development team.
- 5) Premium users can make their payments by their debit/credit cards and from their mobile balance.
- 6) The system hires new chefs and popular chefs to acquire new and unique cooking recipes. Chefs must provide their names and personal details such as address, phone number when joining the system.
- 7) After login to the system chefs can add or remove recipes and cooking videos.
- 8) The users can provide feedback about the system and the website via “Your Feedback” option on the website. Registered users can make complaints about the website regarding system, crashes or any kind of service-related problems via “Any problem ” option. They are provided with some common solutions in regarding the matter they are facing. If the problem is new or unique, they will be answered at highest convenience.
- 9) The admin of the system represents the company regarding all the payments and commands made by registered users. Admins have a name, contact number, residential address, and an email address.
- 10) The payments are to be carried out by the secure methods.

2.Noun/Verb analysis

(Nouns are highlighted in red and verbs are highlighted in blue)

- 1) In the **Online recipe management system**, there are 2 types of **users** that are **interacting** with the system, namely **registered users** and **unregistered users**.
- 2) **Nonregistered users** can **visit** and **view** the website and **search** and **find** some common recipes that are available. **The system** **allows** **nonregistered users** to **fill** a form and **become** a **registered user**. They must **provide** details such as **name**, **email address** and **contact number**.
- 3) **Registered users** can **view** and **use** the website to **search** up **the recipes** they need, **share**, **buy** and **watch** **cooking videos**, **watch** **cooking videos** from their favorite **chefs** and their recipes along side **making payments** for **the system**.
- 4) **Registered users** can **become** **premium users** by **making** a **payment** for the **yearly subscription**. **Premium users** are **given** the advantage to **check out** the **premium recipes** of their favorite **chefs** anytime and share **recipes** without and restrictions. Furthermore, they **can** **contribute** the development of the website by **giving** **feedback** directly to the **development team**.
- 5) **Premium users** **can** **make** their **payments** by their **debit/credit cards** and from their **mobile balance**.
- 6) **The system** **hires** **new chefs** and **popular chefs** to **acquire** new and unique cooking **recipes**. **Chefs** must **provide** their **names** and **personal details** such as **address**, **phone number** when **joining** the system.
- 7) After login to the system **chefs** can **add** or **remove** **recipes** and **cooking videos**.
- 8) The **users** can **provide** **feedback** about **the system** and the website via **"Your Feedback"** option on the website. **Registered users** **can** **make** **complaints** about **the website** regarding **system**, crashes or any kind of service-related problems via **"Any problem "** option. They are **provided** with some **common solutions** in regarding the matter they are facing. If the problem is new or unique, they **will be answered** at highest convenience.
- 9) **The admin** of the system **represents** **the company** regarding all the **payments** and **commands** made by **registered users**. **Admins** have a **name**, **contact number**, **residential address**, and an **email address**.
- 10) **The payments** are to be **carried out** by the secure methods.

Noun/Verb analysis

Noun	
User	Redundant
Registered User	Class
Unregistered User	Class
System	Out of scope
Recipes	Class
Cooking videos	Redundant
Chef	Class
Premium users	Class
Feedback	Out of scope
Yearly subscription	Out of scope
Name, Address, phone number	Attributes
Common solutions	Out of scope
Admin	Class
Payment	Class

Verb	
Provide	Method
Pay	Method
Make complaints	Out of scope
Hire	Method
Contribute	Out of scope

CRC cards for the Online Apartment Sales System:

Unregistered User	
Responsibilities	Contributors
Register into the system	
Visit, view, and search common recipes	Recipes

Registered User	
Responsibilities	Contributors
View, search, share recipes and view cooking videos	Recipes
Making payments	Payment

Recipes	
Responsibilities	Contributors
Store new and unique cooking recipes	Chef
Provide the users with recipes they search	Unregistered user, Registered user, Premium user

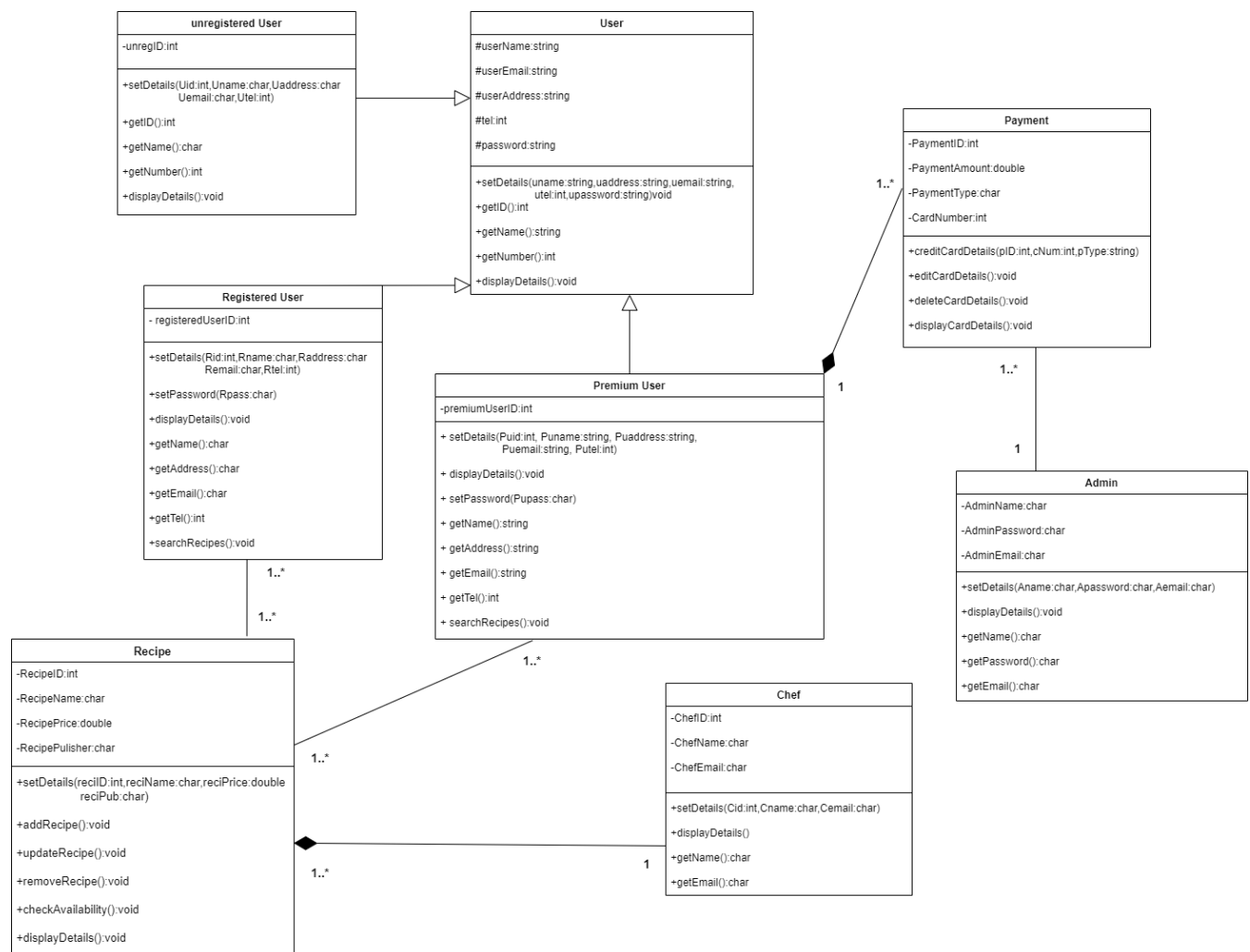
Premium User	
Responsibilities	Contributors
View, search, share recipes and view cooking videos, view premium only cooking recipes and videos	Recipes
Making payments	Payment

Admin	
Responsibilities	Contributors
Handling payments	Payment
Handling commands by users	Unregistered user, registered user, Premium user

Payment	
Responsibilities	Contributors
Receive payment handling instructions from the admins and executing them	Admin
Receive payments from the users	Registered user, Premium user.

Chef	
Responsibilities	Contributors
Add and remove recipes and cooking videos	Recipes

Class Diagram



Coding

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

class user {
    protected:
        string userName;
        string userEmail;
        string userAddress;
        int tel;
        string password;

    public:
        void setDetails(string Uname, string Uaddress, string Uemail, int
Utel,string upassword);
        int getID();
        string getName();
        int getNumber();
        void displayDetails();
};

class unregisteredUser: public user{
    protected:
        int unregID;

    public:
        void setDetails(int Uid, string Uname, string Uaddress, string Uemail,
int Utel);
        int getID();
        string getName();
        int getNumber();
        void displayDetails();
};

class registeredUser:public user{
    private:
        int registeredUserID;

    public:
        void setDetails(int Rid, string Rname, string Raddress, string Remail,
int Rtel);
        void displayDetails();
        void setPassword();
        string getName();
        string getAddress();
        string getEmail();
        int getTel();
        void searchRecipes();
};
```

```
class premiumUser:public user{

    private:
        int premiumUserID;

    public:
        void setDetails(int Puid, string Puname, string Puaddress, string
Puemail, int Putel);
        void displayDetails();
        void setPassword();
        string getName();
        string getAddress();
        string getEmail();
        int getTel();
        void searchRecipes();

};

class admin
{
    private:
        string adminName;
        string adminPassword;
        string adminEmail;

    public:
        void setDetails(string Aname, string Apassword, string Aemail);
        void displayDetails();
        string getName();
        string getPassword();
        string getEmail();

};

class chef
{
    private:
        int chefID;
        string chefName;
        string chefEmail;

    public:
        void setDetails(int Cid, string Cname, string Cemail);
        void displayDetails();
        string getName();
        string getEmail();

};

class payment
{
    private:
        int paymentId;
        string paymentType;
        double paymentAmount;
        int cardNumber;

    public:
```



```
        void creditCardDetails(int pID, int cName, string pType, double
pAmount);
        void editCardDetails();
        void deleteCardDetails();
        void displayCardDetails();

};

class recipe
{
    private:
        int recipeID;
        string recipeName;
        double recipePrice;
        string recipePublisher;
    public:
        void setDetails(int reciID, string reciName, double reciPrice, string
reciPub);
        void addRecipe();
        void updateRecipe();
        void removeRecipe();
        void checkAvailability();
        void displayDetails();

};

int main()
{
    unregisteredUser ur1, ur2;
    registeredUser ru1, ru2, ru3;
    premiumUser pu1, pu2;
    admin a1, a2;
    chef c1, c2, c3;
    payment p1, p2, p3;
    recipe r1, r2, r3, r4, r5;

    return 0;
}
```