

Group No.	MLB_03.02_01
Topic	Online Recipe Management system
Campus	Malabe Campus
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We declare that this is our 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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### Ex-1

## **System Requirements**

- 1. Genius Recipe online management system provides various kinds of unique recipes.
- 2. Every recipe has three main parts including paid version (with all steps and protips).
- 3. Both registered & unregistered customers can view any recipe on our website as he/she wishes.
- 4. The ingredients can be calculated according to the number of people needed to serve.
- 5. Registered & unregistered customers can read our nutritionist and chef's articles and can find the best recipes and previous pro tips via our web.
- 6. Registered customers can buy our unique recipes with pro tips.
- 7. A registered customer can choose a payment method (Credit card, Debit card, PayPal) for each order.
- 8. Product managers approve the payment request is valid.
- 9. After successful payment, registered customers receive a recipe and payment Successful message via email.
- 10. Editor and Product manager can add new Recipes, delete recipes, and manage recipes.
- 11. Manager can generate income & financial reports.
- 12. Registered customers give feedbacks
- 13. Registered customers can check order details.
- 14. System Administrator (Editor, Product Manager) maintain and updates the database of the system.
- 15. Furthermore, registered customers can contact our staff members to solve their issues.

## **Noun Verb Analysis**

Nouns – Red Color

Verbs – Underlined with Blue

- 1. Genius Recipe's online management system <u>provides</u> various kinds of unique recipes.
- 2. Every recipe has three main parts <u>including</u> paid version (with all steps and pro tips).
- 3. Both registered & unregistered customers can <u>view</u> any recipe on our website as he/she wishes.
- 4. The ingredients can be <u>calculated</u> according to the number of <u>people</u> needed to serve.
- 5. Registered & unregistered customers can <u>read</u> our nutritionist and chef's articles and can <u>find</u> the best <u>recipes</u> and previous pro tips via our web.
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- 14. System Administrator (Editor, Product Manager) <u>maintain</u> and <u>updates</u> the database of the system.
- 15. Furthermore, registered customers can <u>contact</u> our <u>staff members</u> to <u>solve</u> their issues

### **Identified Nouns**

Genius Recipe Online Management - Out of scope

Recipes - Class

Ingredients - attribute

People - Redundant

Nutritionists - Attribute

Chef's articles - Out of scope

Registered customer – Class

Un-registered customer - Out of scope

Tips - Out of scope

Credit card, Debit card, PayPal - Attributes

Order - Class

Product managers -Attribute

Payment - Class

Message - Out of scope

Email - Attribute

Manager - Attribute

Reports – Out of scope

Feedback - Class

System Administrator - Attribute

Database – Out of scope

System - Out of scope

Staff members – Class

# **Identified Classes**

User

Registered customer

Staff members

Recipes

Order

Payment

Feedback

# **CRC Cards**

Recipes		
Responsibilities	Collaborations	
Keep Recipe Details		
Update Recipes	Staff members	
Add Recipes	Staff members	

Registered customer		
Responsibilities	Collaborations	
Login to Website		
Keep customer Details		
Make payment	Payment	
Search recipes	Recipes	
Purchase recipes	Payment, Recipe, Order	
Give feedbacks	Feedback	
Contact staff member	Staff Members	

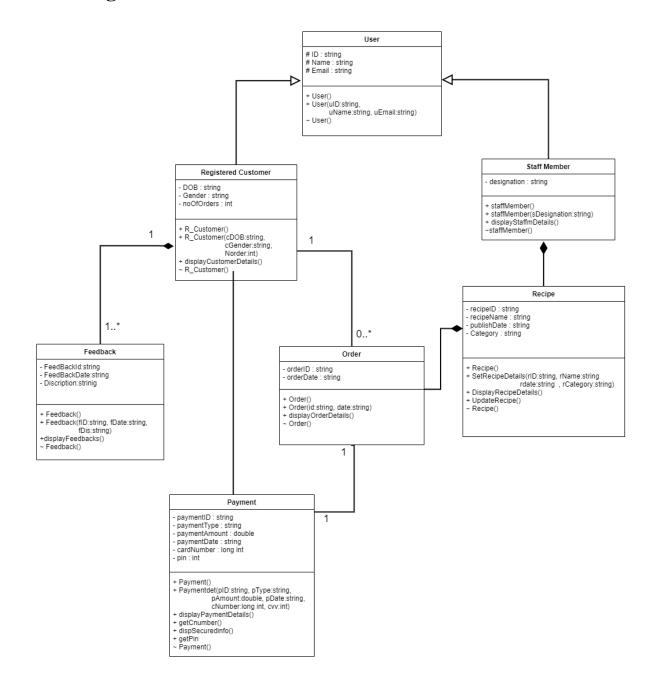
Order		
Responsibilities	Collaborations	
Save order details		
Receive orders	Payment	
Cancel orders	Payment	
Update order details	Staff members	
View order details		

Payment		
Responsibilities	Collaborations	
Make Payment		
Add payment details	Order, Registered customer	
Keep Payment details		
Validate Payment		
View Payment Details		

Staff Members		
Responsibilities	Collaborations	
Add recipes	Recipe	
Update Recipes	Recipe	
View Feedbacks	Feedback	

Feedback		
Responsibilities	Collaborations	
Keep Feedbacks		
Add Feedbacks	Registered customer	

# **UML Diagram**



### **Codes**

### User.h

```
#pragma once
#include <iostream>
#include<string>
using namespace std;
//class User
class user
{
protected:
  string ID;
  string Name;
  string Email;
public:
 user();
 user(string uID, string uName, string uEmail);
 ~user();
};
staffMember.h
#pragma once
#include"user.h"
#include <iostream>
#include<string>
//class staffMember
class staffMember : public user  //inheritance relationship
private:
  string Designation;
  Recipe* staffM;
public:
  staffMember();
  staffMember(string cName, string cID, string cEmail, string sDesignation);
 void displaystaffmDetails();
 ~staffMember();
};
```

#### **R\_Customer.h**

**}**;

```
#pragma once
#include"user.h"
#include <iostream>
#include<string>
//class R_Customer
class R_Customer : public user  //inheritance relationship
{
private:
  string DOB;
  string Gender;
  int noOfOrders;
public:
  R_Customer();
 R_Customer(string cName, string cID, string cEmail, string cDOB, string cGender
, int Noder);
 void displayCustomerDetails();
 ~R_Customer();
};
recipe.h
#pragma once
#include<iostream>
#include<string>
#include<cstring>
using namespace std;
#include"staffMember.h"
//class recipe
class Recipe {
private:
    char recipeId[10];
    char recipeName[50];
    char publishDate[20];
    char category[20];
public:
    Recipe();
    Recipe(const char rId[], const char rName[], const char rdate[], const char
rCategory[]);
    void DisplayRecipe();
    void UpdateRecipe();
    ~Recipe();
```

#### order.h

```
#pragma once
#include<iostream>
#include<string>
using namespace std;
#include"user.h"
//class Order
class Order
private:
    string OrderID;
    string OrderDate;
    R_Customer *cus;
public:
    Order();
    Order(string id, string date, R_Customer *CUS);
    void displayOrderDetails();
   ~Order();
};
payment.h
#include "Payment.h"
#include <iostream>
#include <cstring>
#include <cstdlib>
using namespace std;
class Payment
private:
    char paymentID[10];
    char paymentType[10];
    double paymentAmount;
    char paymentDate[20];
    long int cardNumber;
    int pin;
public:
    Payment();
    void Paymentdet(const char pID[], const char pType[], double pAmount, const
char pDate[], long int cNumber, int cvv);
    void displayPaymentdet();
    long int getCnumber();
    int getPin();
  void dispSecuredinfo();
```

```
~Payment();
};
feedback.h
#pragma once
#include"R_Customer.h"
#include <iostream>
#include<string>
//class Feedback
class FeedBack {
private:
    char FeedBackId[10];
    char FeedBackDate[20];
    char Discription[50];
public:
    FeedBack();
    FeedBack(const char FId[],const char Fdate[], const char Fdis[]);
    void DisplayFeedBack();
    ~FeedBack();
};
user.cpp
#pragma once
#include"user.h"
#include <iostream>
#include<string>
using namespace std;
user::user()
{
}
user::user(string uID, string uName, string uEmail)
  ID = uID;
  Name = uName;
  Email = uEmail;
}
user::~user()
  cout << "User deleted" << endl;</pre>
}
```

## staffMember.cpp

```
#pragma once
#include"staffMember.h"
#include"user.h"
#include"recipe.h"
#include <iostream>
#include<string>
using namespace std;
staffMember::staffMember()
{
    staffM = new Recipe();
}
staffMember::staffMember(string cName, string cID, string cEmail, string
sDesignation)
{
    Name = cName;
    ID = cID;
    Email = cEmail;
    Designation=sDesignation;
void staffMember:: displaystaffmDetails(){
    cout << " staff Name = " << Name << endl;</pre>
    cout << " staff ID = " << ID << endl;</pre>
    cout << " staff Email = " << Email << endl;</pre>
    cout << " Staff Member Designation = " << Designation << endl;</pre>
}
staffMember::~staffMember()
{
    cout << "Staff memeber deleted " << endl;</pre>
}
```

#### **R\_Customer.cpp**

```
#pragma once
#include"R Customer.h"
#include"user.h"
#include"feedback.h>"
#include <iostream>
#include<string>
using namespace std;
//class R Customer Implementation
R_Customer::R_Customer()
{
    Rc = new FeedBack();
}
R_Customer::R_Customer(string cName, string cID, string cEmail, string cDOB,
string cGender ,int Noder)
    Name = cName;
    ID = cID;
    Email = cEmail;
    DOB = cDOB;
    Gender = cGender;
    noOfOrders=Noder;
}
void R_Customer::displayCustomerDetails()
{
    cout << " Customer Name = " << Name << endl;</pre>
    cout << " Customer ID = " << ID << endl;</pre>
    cout << " Customer Email = " << Email << endl;</pre>
    cout << " Customer DOB = " << DOB << endl;</pre>
    cout << " Customer Gender = " << Gender << endl;</pre>
    cout << " NO. of Oders = " << noOfOrders << endl;</pre>
}
R_Customer::~R_Customer()
{
    cout << "Registerd customer Deleted " << endl;</pre>
}
```

### **Recipe.cpp**

```
#pragma once
#include"staffMember.h"
#include"user.h"
#include"recipe.h>"
#include <iostream>
#include<string>
Recipe::Recipe()
    strcpy(recipeId, "");
    strcpy(recipeName, "");
    strcpy(publishDate, "");
    strcpy(category, "");
}
Recipe::Recipe(const char rId[], const char rName[], const char rdate[], const
char rCategory[])
{
    strcpy(recipeId, rId);
    strcpy(recipeName, rName);
    strcpy(publishDate, rdate);
    strcpy(category, rCategory);
}
void Recipe::DisplayRecipe()
    cout << "Recipe Id:" << recipeId << endl;</pre>
    cout << "Recipe Name:" << recipeName << endl;</pre>
    cout << "Date:" << publishDate << endl;</pre>
    cout << "Category:" << category << endl;</pre>
}
void Recipe::UpdateRecipe()
{
}
Recipe::~Recipe()
{
    cout << "Everthing is deleted" << endl;</pre>
}
```

## **Order.cpp**

```
#include<iostream>
#include<string>
using namespace std;
#include "Order.h"
//class Order Implimentations
Order::Order()
{
}
Order::Order(string id, string date, R_Customer *CUS)
    OrderID = id;
    OrderDate = date;
    cus = CUS;
}
void Order::displayOrderDetails()
    cout << " orderID : " << OrderID << endl;</pre>
    cus->displayCustomerDetails();
}
Order::~Order()
{
    cout << "Order Deleted" << endl;</pre>
}
Payment.cpp
#include "Payment.h"
#include <iostream>
#include <cstring>
#include <cstdlib>
using namespace std;
Payment::Payment()
{
    strcpy(paymentID, "");
    strcpy(paymentType, "");
    paymentAmount = 0;
    strcpy(paymentDate, "");
```

cardNumber = 0;

```
pin = 0;
}
void Payment::Paymentdet(const char pID[], const char pType[], double pAmount,
const char pDate[], long int cNumber, int cvv)
{
    strcpy(paymentID, pID);
    strcpy(paymentType, pType);
    paymentAmount = pAmount;
    strcpy(paymentDate, pDate);
    cardNumber = cNumber;
    pin = cvv;
}
long int Payment::getCnumber()
    return cardNumber;
}
int Payment::getPin()
{
    return pin;
}
void Payment::displayPaymentdet()
    cout << "_____" << endl;
    cout << "Payment Id:" << paymentID << endl;</pre>
    cout << "Payment Type:" << paymentType << endl;</pre>
    cout << "Payment Amount :" << paymentAmount << endl;</pre>
    cout << "Payment Date:" << paymentDate << endl;</pre>
    cout << "_____" << endl;
}
void Payment::dispSecuredinfo()
cout<< "Card Number :" << getCnumber() << endl;</pre>
cout<< "CVV :" << getPin() << endl;</pre>
}
Payment::~Payment()
{
    cout << "Payment deleted" << endl;</pre>
}
```

### Feedback.cpp

```
#include <iostream>
#include <cstring>
#include <cstdlib>
#include<string>
using namespace std;
#include "user.h"
#include "R_Customer.h"
#include "feedback.h"
FeedBack::FeedBack()
{
    strcpy(FeedBackId, "");
    strcpy(FeedBackDate, "");
    strcpy(Discription, "");
}
FeedBack::FeedBack(const char FId[], const char Fdate[], const char Fdis[])
{
    strcpy(FeedBackId, FId);
    strcpy(FeedBackDate, Fdate);
    strcpy(Discription, Fdis);
}
void FeedBack::DisplayFeedBack()
{
    cout<<"----"<<endl;</pre>
    cout << "FeedBack Id:" << FeedBackId << endl;</pre>
    cout << "Date:" << FeedBackDate << endl;</pre>
    cout << "Discription:" << Discription << endl;</pre>
}
FeedBack::~FeedBack()
{
    cout << "Everthing is deleted" << endl;</pre>
}
```

#### Main.cpp

```
#include <iostream>
#include <cstring>
#include <cstdlib>
#include<string>
using namespace std;
#include "user.h"
#include "staffMember.h"
#include "R Customer.h"
#include "recipe.h"
#include "Order.h"
#include "Payment.h"
#include "feedback.h"
int main()
 cout<<"**********"<<endl;</pre>
  R_Customer *C1 = new R_Customer("Nipuna", "IT21469046", "niphes1123@gmail.com",
"2000-05-01", "Male" ,5);
    C1->displayCustomerDetails();
    delete C1;
  cout<<"*********"<<endl<<endl;</pre>
  staffMember*s1 = new staffMember("Mahinda R.", "22222AV"
,"mahindar22@gmail.com" ,"senior Editor");
    s1->displaystaffmDetails();
    delete s1;
  cout<<"**********"<<endl;</pre>
 Order* 01 = new Order("OD2154", "2021-02-30", C1);
    01->displayOrderDetails();
    delete 01;
    cout<<"*********"<<endl;</pre>
    Payment* p1 = new Payment();
    Payment* p2 = new Payment();
    Payment* p3 = new Payment();
  p1->Paymentdet("P101256", "Debit Card", 5000, "2022-05-14", 2115566669, 556 );
  p2->Paymentdet("P101587", "Credit Card", 3500, "2022-06-20", 2115558348, 539);
```

```
p3->Paymentdet("P159345", "Debit Card", 4700, "2022-03-09", 2117854112, 457 );
p1->displayPaymentdet();
p1->dispSecuredinfo();

p2->displayPaymentdet();
p2->dispSecuredinfo();

p3->displayPaymentdet();
p3->dispSecuredinfo()
return 0;
}
```