SLIIT

Discover Your Future

Topic : Online Teacher Trainer

Group no : MLB_WE_PRORATA_06

Campus : Malabe

Submission Date: 18/11/2022

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 1:

System Requirements for Online Teacher Trainer

1. Anyone above 24 to below 35 with recognized education can apply for the trainer.

2. As required, travel may be related to work and those people can also participate in the weekend.

3. All members can access our system by entering their username and password.

4. Registered members can decide the age limit of the children they want to teach at their discretion.

5. The profile can be seen, edited, updated, and deleted by a registered member.

6. A registered user can book a tour by entering at least pickup location, pick time and date.

7. A member needs to log into the system before they can confirm the training. Before the training process begins, the system will immediately redirect to the login interface if the member has not already logged in.

8. If the member has made a training correctly, the system will confirm it by looking up the availability of a certificate. Following confirmation, a message with the training details will be sent to the teacher and the department.

9. Using our system's feedback forum, the trainer can provide feedback to the department and about the training.

10. The department can change, modify, and remove the information about their training.

11. Through our payment portal, a member can make payments with cash, credit cards, or online transactions for training period.

12. Before beginning the training, the training system lecture must log into the system.

13. The lecture can determine which training and trainers are legitimate.

14. Reports produced by the lectures and staff include monthly financial updates and monthly reports on training.

Noun Verb Analysis

- Nouns – red color
- Verbs – blue color

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Nouns

- Anyone
- recognized
- trainer
- people
- members
- system
- username
- password
- age
- children
- they
- their
- profile
- user
- location
- pick time
- date
- they
- training
- teacher
- department
- our
- system's
- trainer
- department
- training
- information
- our
- payments
- cash
- cards
- system
- lecture
- system

- lecture
- Reports
- lectures
- staff
- financial
- reports

Redundant

In an online Teacher trainer,

- ✓ users
- ✓ Lectures
- ✓ registered member
- ✓ Staff
- ✓ registered Lectures

An event or an operation

- ✓ Register
- ✓ Login
- ✓ View profile
- ✓ Edit profile
- ✓ Delete profile
- ✓ Join training
- ✓ Select a subject
- ✓ View tour details
- ✓ Check feedback is the training of the system.

Meta language

In an online teacher training system, they who are using department system can call as user.

Outside scope of system

- ✓ System
- ✓ Registration page
- ✓ Payment portal for users
- ✓ System feedback forum

An attribute

- Name
- Language
- Module
- Type are attributes in training

- Username
- Password are attributes in user

- Joining location
- Joining time

- Cash Payment
- Credit cards
- Online money transactions

- Monthly reports
- Monthly training reports

Identified classes

1) User
2) Lecture
3) Staff
4) Training details
5) Department

6) Message
7) Report
8) Feedback
9) Payment

CRC cards for online teacher trainer system

User	
Responsibilities	**Collaborations**
Log in to the system	
View profile	
Edit profile	
Delete profile	
Search/select training	Training details
Enter self-details	Add
View confirmation message	Message
Provide feedback	feedback

Lecture	
Responsibilities	**Collaborations**
Log in to the system	
View profile	
Edit profile	
Delete profile	
View user details	Details
Enter training details	Training

Staff	
Responsibilities	**Collaborations**
Log in to the system	
View profile	
Edit profile	
Delete profile	
Generate monthly financial report	Financial Report
User and Lecture handle	Handling
Check user feedback about training	Feedback
Add or remove user and Lecture	User details

Training details	
Responsibilities	**Collaborations**
Display training details	
Update training details	Trainer

Department	
Responsibilities	**Collaborations**
Joining date	
Joining time	
Joining location	Attend Details

Massage	
Responsibilities	**Collaborations**
View user details	User
View lecture details	Lecture
View department details	Department
View offer or discount	
View Lectures details	

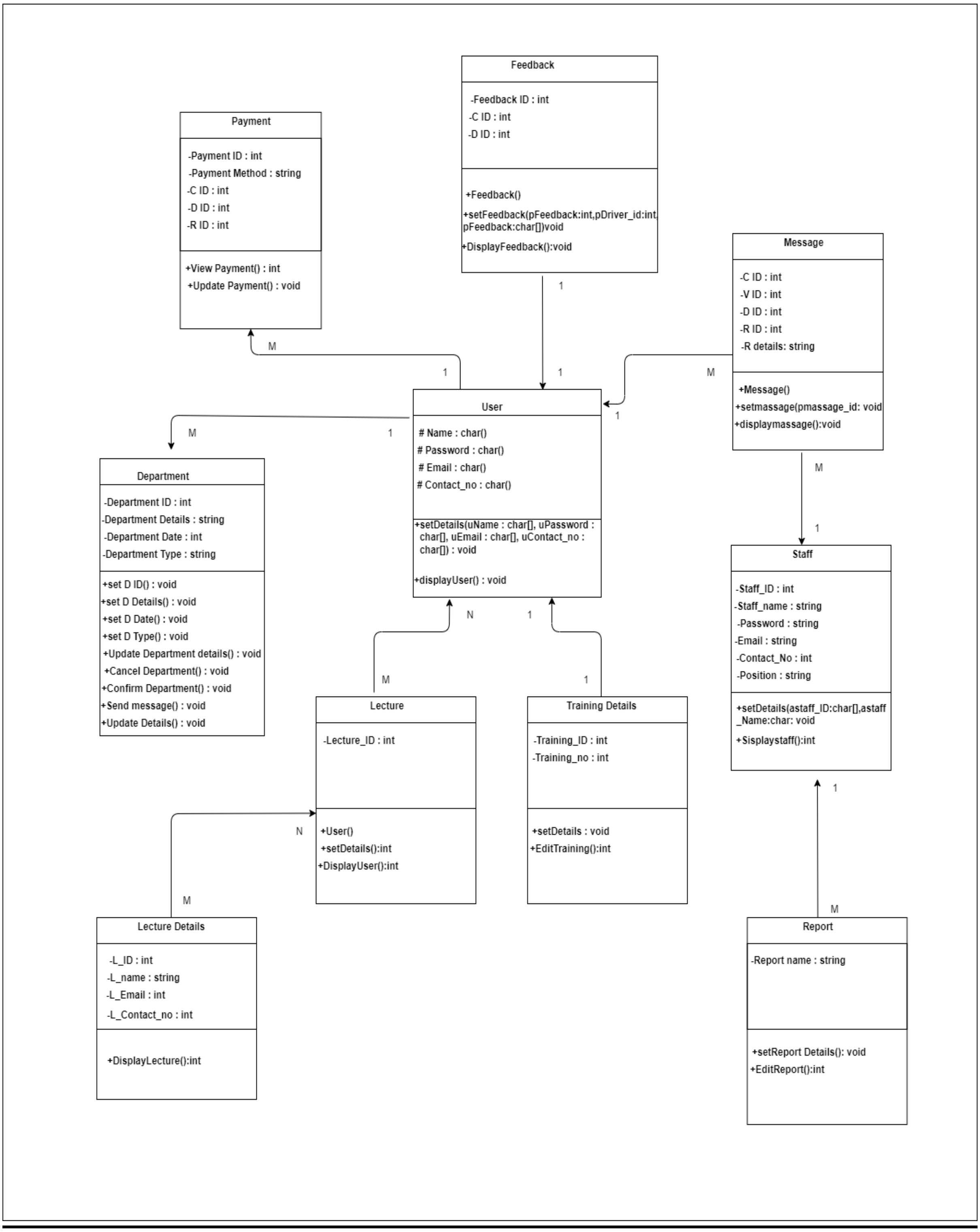
Reports	
Responsibilities	**Collaborations**
Generate monthly financial report	
Insert monthly financial report	
Update monthly financial report	
Delete monthly financial report	Financial Details

Feedback	
Responsibilities	**Collaborations**
Add feedback	User
Display feedback	Interface

Payment	
Responsibilities	**Collaborations**
Display payment amount	
Display payment type	User

Class Diagram for online teacher trainer

Below


Feedback
-Feedback ID : int
-C ID : int
-D ID : int
+Feedback()
+setFeedback(pFeedback:int,pDriver_id:int,
pFeedback:char[])void
+DisplayFeedback():void
Payment
-Payment ID : int
-Payment Method : string
-C ID : int
-D ID : int
-R ID : int
+View Payment() : int
+Update Payment() : void
Message
-C ID : int
-V ID : int
-D ID : int
-R ID : int
-R details: string
+Message()
+setmassage(pmassage_id: void
+displaymassage():void
1
M
1
1
M
1
User
# Name : char()
# Password : char()
# Email : char()
# Contact_no : char()
+setDetails(uName : char[], uPassword :
char[], uEmail : char[], uContact_no :
char[]) : void
+displayUser() : void
M
1
Department
-Department ID : int
-Department Details : string
-Department Date : int
-Department Type : string
+set D ID() : void
+set D Details() : void
+set D Date() : void
+set D Type() : void
+Update Department details() : void
+Cancel Department() : void
+Confirm Department() : void
+Send message() : void
+Update Details() : void
M
1
Staff
-Staff_ID : int
-Staff_name : string
-Password : string
-Email : string
-Contact_No : int
-Position : string
+setDetails(astaff_ID:char[],astaff
_Name:char: void
+Sisplaystaff():int
N
1
M
1
Lecture
-Lecture_ID : int
+User()
+setDetails():int
+DisplayUser():int
Training Details
-Training_ID : int
-Training_no : int
+setDetails : void
+EditTraining():int
1
N
M
Lecture Details
-L_ID : int
-L_name : string
-L_Email : int
-L_Contact_no : int
+DisplayLecture():int
M
Report
-Report name : string
+setReport Details(): void
+EditReport():int

Exercise 2

Coding for the Classes in Class Diagram

```
#include <cstring>

#include <iostream>

using namespace std;


class User{


protected :

  char Name[30];

  char Email[30];

  char Password[30];

  int Contact_no;


public:

    void setuserDetails(const char uName[30],const char uEmail[30],const char uPassword[30],int
uContact_no);

    void displayUser();

};


void User::setuserDetails(const char uName[30],const char uEmail[30],const char uPassword[30],int
uContact_no)

{

 strcpy(Name,uName);

 strcpy(Email,uEmail);

 strcpy(Password,uPassword);
 Contact_no = uContact_no;
}

void User::displayUser()
{
    cout << "Name :" << Name << endl;
    cout << "Email:" << Email << endl;
    cout << "Password:" << Password << endl;
    cout << "Contact_No:" << Contact_no << endl;
}

/* User class*/
class Client : public User
{

private :

    int Client_ID;

public:

   void setclientDetails(int cid);
   void DisplayClient();
};

void Client::setclientDetails(int cid)
{
  Client_ID = cid;
};

void Client::DisplayClient()
{
   cout << "User_ID :" << Client_ID << endl;
};

/*Lecture  class*/

class Driver : public User
{
private :
   int Driver_ID;
   int Vehicle_no;

public:

   void setdriverDetails(int did,int vin);
   void DisplayDriver();

};

void Driver::setdriverDetails(int did,int vin)
{
   Driver_ID = did;
   Vehicle_no = vin;
```

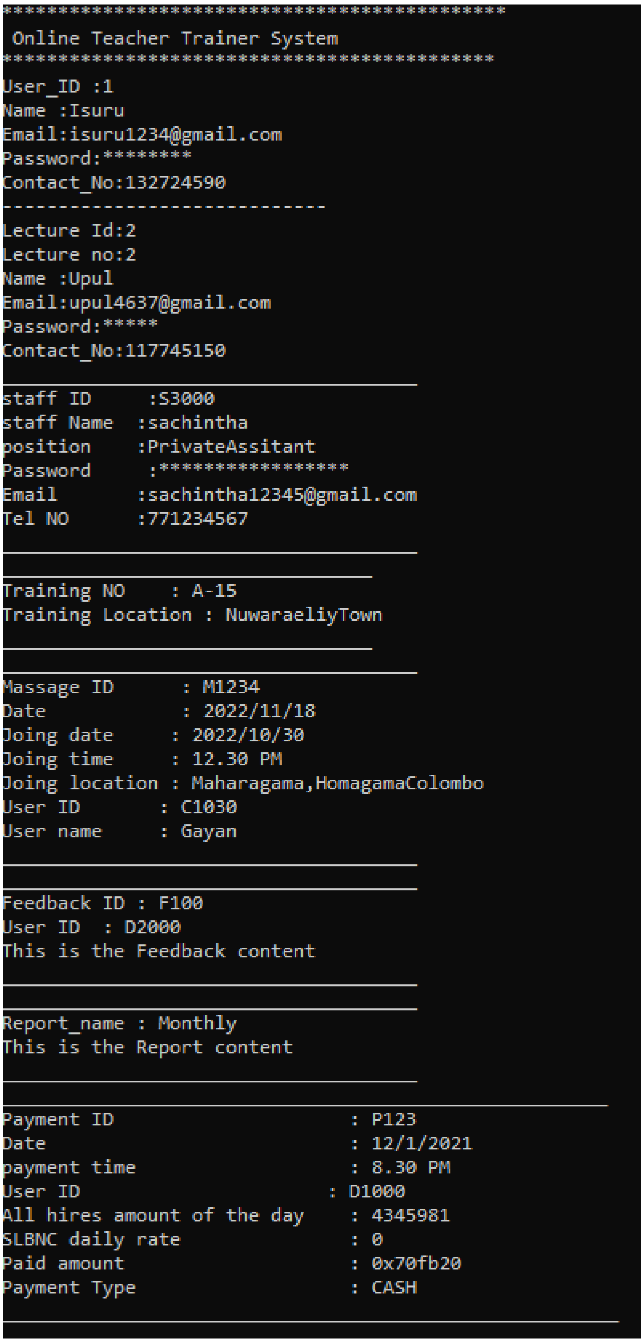
```
};
void Driver::DisplayDriver()
{
  cout << "Lecture Id:" << Driver_ID << endl;
  cout << "Lecture no:" << Vehicle_no << endl;

}//user

class staff
{
private:
 char staff_ID[20];
 char staff_Name[100];
 char Password[100];
 char Email[100];
 char position[20];
 int Contact_no;

public:
staff();
 void setDetails(const char astaff_ID[100],const char astaff_Name[100],const char
apassword[100],const char aemail[100],const char aposition[20],int acontact_num);
 int Displaystaff();
};
staff::staff()
{
};
void staff::setDetails(const char astaff_ID[100],const char astaff_Name[100],const char
apassword[100],const char aemail[100],const char aposition[20],int acontact_num)
{
 strcpy(staff_ID , astaff_ID);
 strcpy(staff_Name,astaff_Name);
 strcpy(Password, apassword);
 strcpy(Email, aemail);
  strcpy(position, aposition);
 Contact_no = acontact_num;

}

int staff::Displaystaff()
{
 cout<<"_______________________________________"<<endl;
 cout <<"staff ID     :"<<staff_ID<<endl;
 cout << "staff Name  :"<<staff_Name << endl;
 cout << "position    :"<<position << endl;
 cout <<"Password     :"<< Password<< endl;
 cout << "Email       :"<<Email << endl;
 cout << "Tel NO      :"<<Contact_no << endl;
 cout<<"_______________________________________"<<endl;

 return 0;
}//staff
```

```
class Vehicle

{

private:

 char Vehicle_no[10];

 char Vehicle_Model[10];

 char Vehicle_Brand[10];

 char Vehicle_type[10];


public:

 Vehicle();

 void setDetails(const char vno[], const char vModel[], const char

vBrand[],const char vtype[]);


 void displayVehicle();

};

Vehicle::Vehicle()

{


}

void Vehicle::setDetails(const char vno[], const char vModel[],const char vBrand[],

const char vtype[])

{

 strcpy(Vehicle_no, vno);

 strcpy(Vehicle_Model, vModel);

 strcpy(Vehicle_Brand, vBrand);

 strcpy(Vehicle_type, vtype);
}
void Vehicle::displayVehicle()
{
 cout<<"__________________________________"<<endl;
 cout << "Training NO    : " << Vehicle_no << endl;
 cout << "Training Location : " << Vehicle_Model << endl;
 cout<<"__________________________________"<<endl;
}//Traning details


class Report
{
private:
 char Report_name[10];
 char ReportContent[50];
public:
 Report();
 void setReport(const char pReport_name[10], const char pReport[50]);
 void displayReport();
};
 Report::Report(){


 }
void Report::setReport(const char pReport_name[10], const char pReport[50])
 {
 strcpy(Report_name , pReport_name);
 strcpy(ReportContent, pReport);
 }
```

```
void Report::displayReport(){

  cout<<"_______________________________________"<<endl;

 cout<<"Report_name : "<<Report_name<<endl;

  cout<<ReportContent<<endl;

 cout<<"_______________________________________"<<endl;

}//Report


class Feedback

{

private:

 char FeedbackId[10];

 char Driver_id[10];

 char FeedbackContent[50];

public:

 Feedback();

 void setFeedback(const char pFeedbackId[10], const char pDriver_id[10], const char pFeedback[50]);

 void displayFeedback();

};

 Feedback::Feedback(){



 }

void Feedback::setFeedback(const char pFeedbackId[10],const char pDriver_id[10],const char pFeedback[50])

 {

 strcpy(FeedbackId , pFeedbackId);

 strcpy(Driver_id , pDriver_id);

 strcpy(FeedbackContent, pFeedback);
 }
void Feedback::displayFeedback(){
  cout<<"_______________________________________"<<endl;
 cout<<"Feedback ID : "<<FeedbackId<<endl;
  cout<<"User ID  : "<<Driver_id<<endl;
  cout<<FeedbackContent<<endl;
 cout<<"_______________________________________"<<endl;
}//feedback

class Massage

{
 private:
 char massage_id[10];
 char date[20];
 char pickup_date[20];
 char pickup_time[20];
 char pickup_location[50];
 char client_id[20];
 char client_name[20];
 char client_tel[20];
 char driver_id[20];
 char driver_name[20];
 char driver_tel[20];
 char vehicle_no[20];
 char vehicle_model[20];
 char vehicle_colour[20];
 public :
 Massage();
 void setmassage(const char pmassage_id[10],
 const char pdate[20],
 const char ppickup_date[20],
 const char ppickup_time[20],
 const char ppickup_location[50],
 const char pclient_id[20],
 const char pclient_name[20],
 const char pclient_tel[20],
 const char pdriver_id[20],
 const char pdriver_name[20],
 const char pdriver_tel[20],
 const char pvehicle_no[20],
 const char pvehicle_model[20],
 const char pvehicle_colour[20]
 );

 void displaymassage();

};
 Massage::Massage(){



 }
void Massage::setmassage(const char pmassage_id[10],
 const char pdate[20],
 const char ppickup_date[20],

 const char ppickup_time[20],

 const char ppickup_location[50],

 const char pclient_id[20],

 const char pclient_name[20],

 const char pclient_tel[20],

 const char pdriver_id[20],

 const char pdriver_name[20],

 const char pdriver_tel[20],

 const char pvehicle_no[20],

 const char pvehicle_model[20],

 const char pvehicle_colour[20])

{


 strcpy(massage_id, pmassage_id);

 strcpy(date, pdate);

 strcpy(pickup_date,ppickup_date);

 strcpy(pickup_time, ppickup_time);

 strcpy(pickup_location, ppickup_location);

 strcpy(client_id,pclient_id);

 strcpy(client_name, pclient_name);

 strcpy(client_tel, pclient_tel);

 strcpy(driver_id, pdriver_id);

 strcpy(driver_name, pdriver_name);

 strcpy(driver_tel, pdriver_tel);

 strcpy(vehicle_no, pvehicle_no);

 strcpy(vehicle_model, pvehicle_model);
 strcpy(vehicle_colour,pvehicle_colour);


}
void Massage::displaymassage()
{
  cout<<"________________________________________"<<endl;
  cout<<"Massage ID      : "<<massage_id<<endl;
  cout<<"Date            : "<<date<<endl;
  cout<<"Joing date      : "<<pickup_date<<endl;
  cout<<"Joing time      : "<<pickup_time<<endl;
  cout<<"Joing location : "<<pickup_location<<endl;
  cout<<"User ID         : "<<client_id<<endl;
  cout<<"User name       : "<<client_name<<endl;
  cout<<"________________________________________"<<endl;

}//massage

class Payment

{
 private:
 char payment_id[10];
 char date[20];
 char payment_time[20];
 char driver_id[20];
 int All_day_hire;
 int slbnc_rate;
 int pay_amount[20];

 char pay_type[20];


 public :

 Payment();

 void setpayment(const char ppayment_id[10],

 const char pdate[20],

 const char ppayment_time[20],

 const char pdriver_id[20],

 const int pAll_day_hire,

 const int pslbnc_rate,

 const int ppay_amount,

 const char ppay_type[20]


 );

void displaypayment();


};

  Payment::Payment(){}

void Payment::setpayment(const char ppayment_id[10],

 const char pdate[20],

 const char ppayment_time[20],

 const char pdriver_id[20],

 const int pAll_day_hire,

 const int pslbnc_rate,

 const int ppay_amount,

 const char ppay_type[20]
 )

{

 strcpy(payment_id, ppayment_id);
 strcpy(date, pdate);
 strcpy(payment_time, ppayment_time);
 strcpy(pay_type, ppay_type);
 strcpy(driver_id, pdriver_id);
 int All_day_hire = pAll_day_hire;
 int slbnc_rate = pslbnc_rate;
 int pay_amount = ppay_amount;

}
void Payment::displaypayment()
{
  cout<<"________________________________________________________"<<endl;
  cout<<"Payment ID                   : "<<payment_id<<endl;
  cout<<"Date                         : "<<date<<endl;
  cout<<"payment time                 : "<<payment_time<<endl;
  cout<<"User ID                      : "<<driver_id<<endl;

  cout<<"All hires amount of the day    : "<<All_day_hire<<endl;
  cout<<"SLBNC daily rate             : "<<slbnc_rate<<endl;
  cout<<"Paid amount                  : "<<pay_amount<<endl;
  cout<<"Payment Type                 : "<<pay_type<<endl;
  cout<<"_________________________________________________________"<<endl;
```

```
}//Payment

int main()

{

   cout << "*********************************************" << endl;

cout << " Online Teacher Trainer System " << endl;

cout << "********************************************" << endl;




Client C1;

  C1.setclientDetails(1);

  C1.setuserDetails("Isuru","isuru1234@gmail.com","*********",0772233556);

  C1.DisplayClient();

  C1.displayUser();


cout <<"------------------------------" << endl;


 Driver D1;

  D1.setdriverDetails(2,2);

  D1.setuserDetails("Upul","upul4637@gmail.com","*****",0701122776);

  D1.DisplayDriver();

  D1.displayUser();


staff s1;
s1.setDetails("S3000","sachintha","******************","sachintha12345@gmail.com","PrivateAssitant",771234567);

 s1.Displaystaff();


 Vehicle V1;
 V1.setDetails("A-15","Nuwaraeliya","Town","economy car");

 V1.displayVehicle();


 Massage M1;

M1.setmassage("M1234","2022/11/18","2022/10/30","12.30 PM","Maharagama,HomagamaColombo","C1030","Gayan",")0771234123","D2000","Lahiru","0771234123","ABD-1234","VITZ","red");

M1.displaymassage();


Feedback F1;

 F1.setFeedback("F100","D2000", "This is the Feedback content");

 F1.displayFeedback();


Report R1;

 R1.setReport("Monthly", "This is the Report content");

 R1.displayReport();


 Payment p1;

    p1.setpayment("P123","12/1/2021","8.30 PM","D1000",10000,10,1000,"CASH");

    p1.displaypayment();


 return 0;

}
```

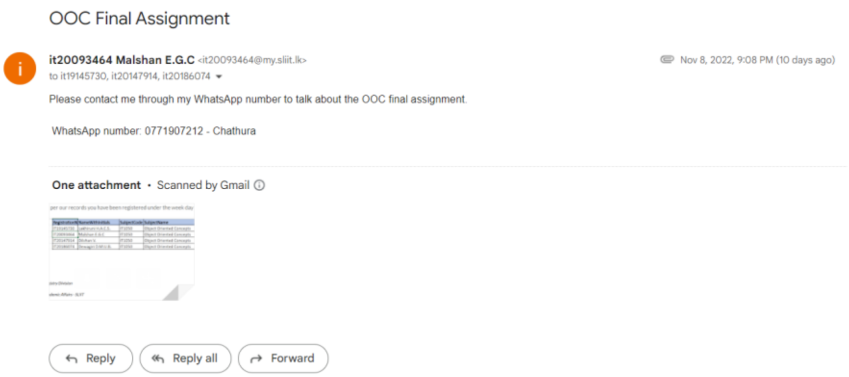
Screenshot of the Output



```
*********************************************
 Online Teacher Trainer System
********************************************
User_ID :1
Name :Isuru
Email:isuru1234@gmail.com
Password:********
Contact_No:132724590
-----------------------------
Lecture Id:2
Lecture no:2
Name :Upul
Email:upul4637@gmail.com
Password:*****
Contact_No:117745150
_____________________________________
staff ID      :S3000
staff Name  :sachintha
position    :PrivateAssitant
Password     :*****************
Email       :sachintha12345@gmail.com
Tel NO      :771234567
_____________________________________
_________________________________
Training NO    : A-15
Training Location : NuwaraeliyTown
_________________________________
_____________________________________
Massage ID      : M1234
Date            : 2022/11/18
Joing date     : 2022/10/30
Joing time     : 12.30 PM
Joing location : Maharagama,HomagamaColombo
User ID       : C1030
User name     : Gayan
_____________________________________
_____________________________________
Feedback ID : F100
User ID  : D2000
This is the Feedback content
_____________________________________
_____________________________________
Report_name : Monthly
This is the Report content
_____________________________________
______________________________________________________
Payment ID                     : P123
Date                           : 12/1/2021
payment time                   : 8.30 PM
User ID                      : D1000
All hires amount of the day    : 4345981
SLBNC daily rate               : 0
Paid amount                    : 0x70fb20
Payment Type                   : CASH
_______________________________________________________
```

Special Note:

I’m doing this assignment individual reason I messaged the rest of my team members to contact me but they didn't reply so I went at it do alone.



OOC Final Assignment

it20093464 Malshan E.G.C <it20093464@my.sliit.lk>
to it19145730, it20147914, it20186074

Nov 8, 2022, 9:08 PM (10 days ago)

Please contact me through my WhatsApp number to talk about the OOC final assignment.

WhatsApp number: 0771907212 - Chathura

One attachment • Scanned by Gmail

This is the mail I sent to them but anyone not yet reply.

Thank You.