

Topic : Online Auction System

Group no : MLB_06.01_07

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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CRC Cards

• Message – IT21318320 – Silva T.U.D

Class name: Message		
Responsibilities	Collaborations	
Send Message	Registered User	
Save Message		
Display Message		

• Issue – IT21318320 – Silva T.U.D

Class name: Issue		
Responsibilities	Collaborations	
Send Issue	Message	
Save Issue Type		
Save Issue	Message	
Display Issue		

• Feedback – IT21318320 – Silva T.U.D

Class name: Feedback		
Responsibilities	Collaborations	
Send Feedback	Message	
Save Feedback	Message	
Save Rating		
Display Rating		

• Payment – IT21318320 – Silva T.U.D

Class name: Payment		
Responsibilities	Collaborations	
Save Details	Item	
Display Details		
Validate Details		
Authorize Payment		
Display Invoice	Invoice	

• Invoice – IT21318320 – Silva T.U.D

Class name: Invoice		
Responsibilities	Collaborations	
Save Invoice Details	Payment	
Display Details		
Print Invoice		

• Message – IT21318320 – Silva T.U.D

```
//Class definition of the message class.
class Message
{
   protected:
   int messageID;
   char messageType[50];
   Registered_user* Ruser;
```

```
public:
  Message();
  Message(int pmessageID, char pmessageType[], Registered_user *pRuser);
  void saveMessage();
  void diplayMessage();
  ~Message();
};
// Implementation of the methods of the class message.
Message::Message(){
 messageID = 0;
 strcpy(messageType, "");
}
Message::Message(int pmessageID, char pmessageType[], Registered_user *pRuser){
 messageID = pmessageID;
 strcpy(messageType, pmessageType);
 Ruser = pRuser;
}
void Message::saveMessage() { }
void Message::diplayMessage() {}
Message::~Message() {}
```

Issue – IT21318320 – Silva T.U.D

```
//Class definition of the issue class.
class Issue :public Message
{
 private:
  char status[10];
 public:
  Issue();
  Issue(int cMessageID, char cMessageType[], char pstatus[]);
  void saveIssueType();
  void displayStatus();
  ~Issue();
};
// Implementation of the methods of the class issue.
Issue::Issue() {
 messageID = 0;
 strcpy(messageType, "");
 strcpy(status, "");
}
Issue::Issue(int cMessageID, char cMessageType[], char pstatus[]) {
 messageID = cMessageID;
 strcpy(messageType, cMessageType);
 strcpy(status, pstatus);
```

```
void Issue::saveIssueType() {}
void Issue::displayStatus() { }
Issue::~Issue() {}
           Feedback - IT21318320 - Silva T.U.D
//Class definition of the feedback class.
class Feedback :public Message
{
 private:
  char rating[20];
 public:
  Feedback();
  Feedback(int cMessageID, char cMessageType[], char prating[]);
  void saveRating();
  void displayRating();
  ~Feedback();
};
// Implementation of the methods of the class feedback.
Feedback::Feedback() {
 messageID = 0;
 strcpy(messageType, "");
```

strcpy(rating, "");

```
Feedback::Feedback(int cMessageID, char cMessageType[], char prating[]) {
    messageID = cMessageID;
    strcpy(messageType, cMessageType);
    strcpy(rating, prating);
}

void Feedback::saveRating() {}

void Feedback::displayRating() {}

Feedback::~Feedback() {}
```

• Payment – IT21318320 – Silva T.U.D

```
//Class definition of the payment class.
class Payment {
   private:
    int paymentId;
   float payamount;
   char type[20];
   int cardnumber;
   int expdate;
   char cardholdername[50];
   Item* item;
```

```
Invoice* invoiceNo[100];
 public:
  Payment();
  Payment(int no1);
  void setpaymentDetails(int ppaymentId, float ppayamount, char ptype[], int pcardnumber,
int pexdate, char pcardholdername[]);
  void displayDetails();
  void validateDetails();
  void authorizePayment();
  void displayInvoice();
  ~Payment();
};
// Implementation of the methods of the class payment.
Payment::Payment() {
 invoiceNo[0] = new Invoice(001);
 invoiceNo[1] = new Invoice(002);
}
Payment::Payment(int no1){
 invoiceNo[2] = new Invoice(no1);
}
void Payment::setpaymentDetails(int ppaymentId, float ppayamount, char ptype[], int
pcardnumber, int pexdate, char pcardholdername[]) {
 paymentId = ppaymentId;
 payamount = ppayamount;
 strcpy(type, ptype);
 cardnumber = pcardnumber;
```

```
expdate = pexdate;
 strcpy(cardholdername, pcardholdername);
}
void Payment::displayDetails() {}
void Payment::validateDetails() {}
void Payment::authorizePayment(){}
void Payment::displayInvoice(){
 for(int count=0; count < 100; count++)</pre>
  {
   invoiceNo[count] -> display();
  }
}
Payment::~Payment(){
 for(int count=0; count < 100; count++)
   delete invoiceNo[count];
  }
}
```

Invoice – IT21318320 – Silva T.U.D

```
//Class definition of the invoice class.
class Invoice {
 private:
  int invoiceNumber;
  float paidamount;
  int itemID;
  int userId;
 public:
  Invoice();
  Invoice(int no);
  void setInvoiceDetails(float ppaidamount, int pitemID, int puserId);
  void printInvoice();
  void display();
  ~Invoice();
};
// Implementation of the methods of the class invoice.
Invoice::Invoice(){
 invoiceNumber = 0;
 paidamount = 0;
 itemID = 0;
 userId = 0;
}
Invoice::Invoice(int no) {
 invoiceNumber = no;
```

```
void Invoice::setInvoiceDetails(float ppaidamount, int pitemID, int puserId){
   paidamount = ppaidamount;
   itemID = pitemID;
   userId = puserId;
}

void Invoice::printInvoice() {}

Invoice::~Invoice() {}
```

• Main Program

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

int main(){

    // Create object of class Message.
    Message msg1;

    // Create object of class Issue.
    Issue issue1;

// Create object of class Feedback.
Feedback feedback1;
```

```
// Create object of class Invoice inside the the class Payment.
Payment *payment1;

payment1 = new Payment(1);
payment1 -> displayInvoice();

return 0;
}
```